March 01, 2021

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N044193

RE: PG&E Topock - GMP, 30035275

Attention: Dan Bush

Enclosed are the results for sample(s) received on February 16, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

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CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - GMP, 30035275
Lab Order: N044193

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time.

Sample N044193-008 (MW-67-260-0221) was not analyzed as per attached correspondence.

Analytical Comments for EPA 6020_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Chromium in QC samples N044193-004CMS and N044193-004CMSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *01-Mar-21*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - GMP, 30035275
Lab Order: N044193
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044193-001A	MW-62-110-Q121	Groundwater	2/16/2021 3:45:00 PM	2/16/2021	3/1/2021
N044193-001B	MW-62-110-Q121	Groundwater	2/16/2021 3:45:00 PM	2/16/2021	3/1/2021
N044193-001C	MW-62-110-Q121	Groundwater	2/16/2021 3:45:00 PM	2/16/2021	3/1/2021
N044193-001D	MW-62-110-Q121	Groundwater	2/16/2021 3:45:00 PM	2/16/2021	3/1/2021
N044193-002A	MW-65-225-Q121	Groundwater	2/16/2021 2:32:00 PM	2/16/2021	3/1/2021
N044193-002B	MW-65-225-Q121	Groundwater	2/16/2021 2:32:00 PM	2/16/2021	3/1/2021
N044193-002C	MW-65-225-Q121	Groundwater	2/16/2021 2:32:00 PM	2/16/2021	3/1/2021
N044193-002D	MW-65-225-Q121	Groundwater	2/16/2021 2:32:00 PM	2/16/2021	3/1/2021
N044193-003A	MW-65-160-Q121	Groundwater	2/16/2021 3:14:00 PM	2/16/2021	3/1/2021
N044193-003B	MW-65-160-Q121	Groundwater	2/16/2021 3:14:00 PM	2/16/2021	3/1/2021
N044193-003C	MW-65-160-Q121	Groundwater	2/16/2021 3:14:00 PM	2/16/2021	3/1/2021
N044193-003D	MW-65-160-Q121	Groundwater	2/16/2021 3:14:00 PM	2/16/2021	3/1/2021
N044193-004A	MW-66-165-0221	Groundwater	2/16/2021 12:44:00 PM	2/16/2021	3/1/2021
N044193-004B	MW-66-165-0221	Groundwater	2/16/2021 12:44:00 PM	2/16/2021	3/1/2021
N044193-004C	MW-66-165-0221	Groundwater	2/16/2021 12:44:00 PM	2/16/2021	3/1/2021
N044193-005A	MW-66-230-0221	Groundwater	2/16/2021 11:51:00 AM	2/16/2021	3/1/2021
N044193-005B	MW-66-230-0221	Groundwater	2/16/2021 11:51:00 AM	2/16/2021	3/1/2021
N044193-005C	MW-66-230-0221	Groundwater	2/16/2021 11:51:00 AM	2/16/2021	3/1/2021
N044193-006A	MW-67-185-0221	Groundwater	2/16/2021 8:35:00 AM	2/16/2021	3/1/2021
N044193-006B	MW-67-185-0221	Groundwater	2/16/2021 8:35:00 AM	2/16/2021	3/1/2021
N044193-006C	MW-67-185-0221	Groundwater	2/16/2021 8:35:00 AM	2/16/2021	3/1/2021
N044193-007A	MW-67-225-0221	Groundwater	2/16/2021 10:55:00 AM	2/16/2021	3/1/2021
N044193-007B	MW-67-225-0221	Groundwater	2/16/2021 10:55:00 AM	2/16/2021	3/1/2021
N044193-007C	MW-67-225-0221	Groundwater	2/16/2021 10:55:00 AM	2/16/2021	3/1/2021
N044193-008A	MW-67-260-0221	Groundwater	2/16/2021 9:40:00 AM	2/16/2021	3/1/2021
N044193-008B	MW-67-260-0221	Groundwater	2/16/2021 9:40:00 AM	2/16/2021	3/1/2021
N044193-008C	MW-67-260-0221	Groundwater	2/16/2021 9:40:00 AM	2/16/2021	3/1/2021
N044193-009A	EB-788-Q121	Groundwater	2/16/2021 3:13:00 PM	2/16/2021	3/1/2021
N044193-010A	EB-787-Q121	Groundwater	2/16/2021 4:00:00 PM	2/16/2021	3/1/2021

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-110-Q121
Lab Order:	N044193	**Collection Date:**	2/16/2021 3:45:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210217A**	QC Batch: **R150774**			PrepDate:			Analyst: **LR**
Specific Conductance	9500	0.10	0.10		umhos/cm	1	2/17/2021 11:30 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-225-Q121
Lab Order:	N044193	**Collection Date:**	2/16/2021 2:32:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210217A**	QC Batch: **R150774**			PrepDate:			Analyst: **LR**
Specific Conductance	11000	0.10	0.10		umhos/cm	1	2/17/2021 11:30 AM

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-160-Q121
Lab Order:	N044193	**Collection Date:**	2/16/2021 3:14:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210217A**	QC Batch: **R150774**			PrepDate:			Analyst: **LR**
Specific Conductance	4500	0.10	0.10		umhos/cm	1	2/17/2021 11:30 AM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044193
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N044194-008ADUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150774**
Client ID: **ZZZZZZ** Batch ID: **R150774** TestNo: **EPA 120.1** Analysis Date: **2/17/2021** SeqNo: **4109435**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	119800.000	0.10						119700	0.0835	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-110-Q121
Lab Order:	N044193	**Collection Date:**	2/16/2021 3:45:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210217A** QC Batch: **R150836** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/17/2021 12:04 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85275** PrepDate: **2/17/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 01:41 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-225-Q121
Lab Order:	N044193	**Collection Date:**	2/16/2021 2:32:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210217A** QC Batch: **R150836** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	330	1.7	10		µg/L	50	2/17/2021 12:32 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85275** PrepDate: **2/17/2021** Analyst: **CEI**							
Chromium	340	0.65	5.0		µg/L	5	2/18/2021 04:47 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044193
Project: PG&E Topock - GMP, 30035275
Lab ID: N044193-003

Client Sample ID: MW-65-160-Q121
Collection Date: 2/16/2021 3:14:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210217A** QC Batch: **R150836** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	240	1.7	10		µg/L	50	2/17/2021 12:42 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85275** PrepDate: **2/17/2021** Analyst: **CEI**							
Chromium	250	0.65	5.0		µg/L	5	2/18/2021 05:23 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-66-165-0221
Lab Order:	N044193	**Collection Date:**	2/16/2021 12:44:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210217A** QC Batch: **R150836** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	400	1.7	10		µg/L	50	2/17/2021 12:13 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85275** PrepDate: **2/17/2021** Analyst: **CEI**							
Chromium	400	0.65	5.0		µg/L	5	2/18/2021 02:53 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-66-230-0221
Lab Order:	N044193	**Collection Date:**	2/16/2021 11:51:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210217A** QC Batch: **R150836** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	6000	33	200		µg/L	1000	2/17/2021 12:51 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85275** PrepDate: **2/17/2021** Analyst: **CEI**							
Chromium	6500	16	120		µg/L	125	2/19/2021 06:00 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-67-185-0221
Lab Order:	N044193	**Collection Date:**	2/16/2021 8:35:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210217A** QC Batch: **R150836** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	640	3.3	20		µg/L	100	2/17/2021 03:30 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85275** PrepDate: **2/17/2021** Analyst: **CEI**							
Chromium	690	0.65	5.0		µg/L	5	2/18/2021 05:47 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-67-225-0221
Lab Order:	N044193	**Collection Date:**	2/16/2021 10:55:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210217A** QC Batch: **R150836** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	4100	33	200		µg/L	1000	2/17/2021 01:01 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85275** PrepDate: **2/17/2021** Analyst: **CEI**							
Chromium	3500	3.2	25		µg/L	25	2/18/2021 06:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	EB-788-Q121
Lab Order:	N044193	**Collection Date:**	2/16/2021 3:13:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210217A** QC Batch: **R150836** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/17/2021 04:27 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	EB-787-Q121
Lab Order:	N044193	**Collection Date:**	2/16/2021 4:00:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210217A** QC Batch: **R150836** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/17/2021 04:46 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044193
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R150836** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **PBW** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111309**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R150836** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **LCSW** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111310**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.830	0.20	5.000	0	96.6	90	110				

Sample ID: **N044191-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	11.265	1.0	5.000	6.465	96.0	90	110				

Sample ID: **N044191-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111314**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.931	1.0	5.000	0	98.6	90	110				

Sample ID: **N044191-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111316**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.672	1.0	5.000	0	93.4	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044193
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044191-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111318**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.782	1.0	5.000	0	95.6	90	110				

Sample ID: **N044193-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111333**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.981	0.20	1.000	0	98.1	90	110				

Sample ID: **N044193-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111334**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	635.170	10	250.0	397.2	95.2	90	110				

Sample ID: **N044193-004AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111335**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	637.035	10	250.0	397.2	95.9	90	110	635.2	0.293	20	

Sample ID: **N044191-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111336**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	58.297	1.0	25.00	34.02	97.1	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044193
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044193-001AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111337**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.994	0.20	1.000	0	99.4	90	110	0.9808	1.32	20	

Sample ID: **N044191-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111338**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	596.790	10	250.0	361.6	94.1	90	110				

Sample ID: **N044193-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111339**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	569.605	10	250.0	327.5	96.8	90	110				

Sample ID: **N044193-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111340**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	486.290	10	250.0	239.7	98.7	90	110				

Sample ID: **N044193-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111341**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10750.300	200	5000	6002	95.0	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044193
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044193-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9020.300	200	5000	4126	97.9	90	110				

Sample ID: **N044193-006ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111346**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	652.250	20						644.7	1.16	20	

Sample ID: **N044193-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111347**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1141.260	20	500.0	644.7	99.3	90	110				

Sample ID: **N044191-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111348**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	33.253	0.40	10.00	24.06	91.9	90	110				

Sample ID: **N044191-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.968	0.20	1.000	0	96.8	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044193
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044193-009AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111352**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.973	0.20	1.000	0	97.3	90	110				

Sample ID: **N044193-010AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150836**
Client ID: **ZZZZZZ** Batch ID: **R150836** TestNo: **EPA 218.6** Analysis Date: **2/17/2021** SeqNo: **4111354**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.937	0.20	1.000	0	93.7	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044193
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **MB-85275** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **PBW** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: **LCS-85275** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **LCSW** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115294**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.064	1.0	10.00	0	101	85	115				

Sample ID: **N044193-001DMS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115300**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.204	1.0	10.00	0.2658	89.4	75	125				

Sample ID: **N044193-001DMSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115302**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.249	1.0	10.00	0.2658	89.8	75	125	9.204	0.485	20	

Sample ID: **N044193-004CMS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	417.820	5.0	10.00	400.7	171	75	125				S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044193
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **N044193-004CMSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115314**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	420.101	5.0	10.00	400.7	194	75	125	417.8	0.545	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044193
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **N044193-001D-PS** SampType: **PS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115298**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.123	1.0	10.00	0.2658	88.6	80	120				

Sample ID: **N044193-004C-PS** SampType: **PS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115310**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	418.754	5.0	10.00	400.7	180	80	120				S

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-110-Q121
Lab Order:	N044193	**Collection Date:**	2/16/2021 3:45:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210219A** QC Batch: **R150872** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	ND	0.032	0.050		mg/L	1	2/19/2021 05:12 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-225-Q121
Lab Order:	N044193	**Collection Date:**	2/16/2021 2:32:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210219A** QC Batch: **R150872** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	6.9	0.32	0.50		mg/L	10	2/19/2021 05:36 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-160-Q121
Lab Order:	N044193	**Collection Date:**	2/16/2021 3:14:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210219A** QC Batch: **R150872** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	15	0.63	1.0		mg/L	20	2/19/2021 05:41 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-66-165-0221
Lab Order:	N044193	**Collection Date:**	2/16/2021 12:44:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210222A** QC Batch: **R150901** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	22	1.6	2.5		mg/L	50	2/22/2021 06:40 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-66-230-0221
Lab Order:	N044193	**Collection Date:**	2/16/2021 11:51:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
			SM4500-NO3F				
RunID: **NV00922-FA1_210219A**	QC Batch: **R150872**			PrepDate:			Analyst: **JBB**
Nitrate/Nitrite as N	23	0.63	1.0		mg/L	20	2/19/2021 07:00 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-67-185-0221
Lab Order:	N044193	**Collection Date:**	2/16/2021 8:35:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210219A** QC Batch: **R150872** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	78	3.2	5.0		mg/L	100	2/19/2021 07:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-67-225-0221
Lab Order:	N044193	**Collection Date:**	2/16/2021 10:55:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210219A** QC Batch: **R150872** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	26	0.63	1.0		mg/L	20	2/19/2021 07:05 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044193
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R150872** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150872**
Client ID: **PBW** Batch ID: **R150872** TestNo: **SM4500-NO3** Analysis Date: **2/19/2021** SeqNo: **4114242**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R150872** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150872**
Client ID: **LCSW** Batch ID: **R150872** TestNo: **SM4500-NO3** Analysis Date: **2/19/2021** SeqNo: **4114243**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.498	0.050	0.5000	0	99.6	85	115				

Sample ID: **N044193-001CDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150872**
Client ID: **ZZZZZZ** Batch ID: **R150872** TestNo: **SM4500-NO3** Analysis Date: **2/19/2021** SeqNo: **4114245**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.032	0.050						0.04490	0	20	

Sample ID: **N044193-001CMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150872**
Client ID: **ZZZZZZ** Batch ID: **R150872** TestNo: **SM4500-NO3** Analysis Date: **2/19/2021** SeqNo: **4114246**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.551	0.050	0.5000	0.04490	101	75	125				

Sample ID: **N044193-001CMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150872**
Client ID: **ZZZZZZ** Batch ID: **R150872** TestNo: **SM4500-NO3** Analysis Date: **2/19/2021** SeqNo: **4114247**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.589	0.050	0.5000	0.04490	109	75	125	0.5511	6.58	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044193
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R150901** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150901**
Client ID: **PBW** Batch ID: **R150901** TestNo: **SM4500-NO3** Analysis Date: **2/22/2021** SeqNo: **4115880**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R150901** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150901**
Client ID: **LCSW** Batch ID: **R150901** TestNo: **SM4500-NO3** Analysis Date: **2/22/2021** SeqNo: **4115881**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.467	0.050	0.5000	0	93.4	85	115				

Sample ID: **N044193-004BDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150901**
Client ID: **ZZZZZZ** Batch ID: **R150901** TestNo: **SM4500-NO3** Analysis Date: **2/22/2021** SeqNo: **4115883**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	22.515	2.5						22.32	0.892	20	

Sample ID: **N044193-004BMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150901**
Client ID: **ZZZZZZ** Batch ID: **R150901** TestNo: **SM4500-NO3** Analysis Date: **2/22/2021** SeqNo: **4115884**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	47.640	2.5	25.00	22.32	101	75	125				

Sample ID: **N044193-004BMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150901**
Client ID: **ZZZZZZ** Batch ID: **R150901** TestNo: **SM4500-NO3** Analysis Date: **2/22/2021** SeqNo: **4115885**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	46.380	2.5	25.00	22.32	96.3	75	125	47.64	2.68	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044193
Project: PG&E Topock - GMP, 30035275
Lab ID: N044193-001

Client Sample ID: MW-62-110-Q121
Collection Date: 2/16/2021 3:45:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85275**				PrepDate:	**2/17/2021**	Analyst: **CEI**
Arsenic	4.5	0.081	0.10		µg/L	1	2/18/2021 01:41 PM
Manganese	130	1.3	2.5		µg/L	5	2/18/2021 01:47 PM
Molybdenum	50	0.21	0.50		µg/L	1	2/18/2021 01:41 PM
Selenium	ND	0.36	0.50		µg/L	1	2/18/2021 01:41 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-225-Q121
Lab Order:	N044193	**Collection Date:**	2/16/2021 2:32:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85275**				PrepDate:	**2/17/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/18/2021 04:41 PM
Manganese	8.0	0.26	0.50		µg/L	1	2/18/2021 04:41 PM
Molybdenum	33	0.21	0.50		µg/L	1	2/18/2021 04:41 PM
Selenium	4.9	0.36	0.50		µg/L	1	2/18/2021 04:41 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-65-160-Q121
Lab Order:	N044193	**Collection Date:**	2/16/2021 3:14:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85275**				PrepDate:	**2/17/2021**	Analyst: **CEI**
Arsenic	0.84	0.081	0.10		µg/L	1	2/18/2021 05:17 PM
Manganese	5.4	0.26	0.50		µg/L	1	2/18/2021 05:17 PM
Molybdenum	25	0.21	0.50		µg/L	1	2/18/2021 05:17 PM
Selenium	11	0.36	0.50		µg/L	1	2/18/2021 05:17 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-66-165-0221
Lab Order:	N044193	**Collection Date:**	2/16/2021 12:44:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85275**				PrepDate:	**2/17/2021**	Analyst: **CEI**
Molybdenum	6.4	0.21	0.50		µg/L	1	2/18/2021 02:47 PM
Selenium	20	0.36	0.50		µg/L	1	2/18/2021 02:47 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-66-230-0221
Lab Order:	N044193	**Collection Date:**	2/16/2021 11:51:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85275**				PrepDate:	**2/17/2021**	Analyst: **CEI**
Molybdenum	75	0.21	0.50		µg/L	1	2/18/2021 05:29 PM
Selenium	16	0.36	0.50		µg/L	1	2/18/2021 05:29 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-67-185-0221
Lab Order:	N044193	**Collection Date:**	2/16/2021 8:35:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85275**				PrepDate:	**2/17/2021**	Analyst: **CEI**
Molybdenum	60	0.21	0.50		µg/L	1	2/18/2021 05:41 PM
Selenium	250	1.8	2.5		µg/L	5	2/18/2021 05:47 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-67-225-0221
Lab Order:	N044193	**Collection Date:**	2/16/2021 10:55:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044193-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85275**				PrepDate:	**2/17/2021**	Analyst: **CEI**
Molybdenum	88	0.21	0.50		µg/L	1	2/18/2021 05:53 PM
Selenium	92	0.36	0.50		µg/L	1	2/18/2021 05:53 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044193
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **MB-85275** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **PBW** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115388**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: **LCS-85275** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **LCSW** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115389**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.216	0.10	10.00	0	102	85	115				
Manganese	100.432	0.50	100.0	0	100	85	115				
Molybdenum	10.038	0.50	10.00	0	100	85	115				
Selenium	10.305	0.50	10.00	0	103	85	115				

Sample ID: **N044193-001DMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	14.746	0.10	10.00	4.454	103	75	125				
Molybdenum	60.414	0.50	10.00	49.52	109	75	125				
Selenium	9.955	0.50	10.00	0	99.5	75	125				

Sample ID: **N044193-001DMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115396**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	227.879	2.5	100.0	134.0	93.9	75	125				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044193
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **N044193-001DMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115397**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	15.141	0.10	10.00	4.454	107	75	125	14.75	2.64	20	
Molybdenum	60.378	0.50	10.00	49.52	109	75	125	60.41	0.0600	20	
Selenium	9.089	0.50	10.00	0	90.9	75	125	9.955	9.09	20	

Sample ID: **N044193-001DMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115400**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	224.039	2.5	100.0	134.0	90.1	75	125	227.9	1.70	20	

Sample ID: **N044193-004CMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.671	0.10	10.00	1.315	104	75	125				
Manganese	93.571	0.50	100.0	2.482	91.1	75	125				
Molybdenum	17.179	0.50	10.00	6.408	108	75	125				
Selenium	31.309	0.50	10.00	19.92	114	75	125				

Sample ID: **N044193-004CMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.255	0.10	10.00	1.315	99.4	75	125	11.67	3.62	20	
Manganese	93.639	0.50	100.0	2.482	91.2	75	125	93.57	0.0731	20	
Molybdenum	17.330	0.50	10.00	6.408	109	75	125	17.18	0.876	20	
Selenium	28.938	0.50	10.00	19.92	90.2	75	125	31.31	7.87	20	

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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Client: Arcadis
Address: 1410 Rocky Ridge Dr # 330
Address: Roseville, CA 95661
Phone: 916-786-3302 Fax:
Submitted By: Reggie Tep
Title: Field Tech
Signature: Date: 2/16/21
I hereby authorize ASSET Labs to perform the tests indicated below.
Project Name: PG&E Topock - GMP
Project Number: 30035275

Report to: Dan Bush
Company: Arcadis
Email: dan.bush@arcadis.com, daniel.moore@critigen.com
Address: 1410 Rocky Ridge Dr # 330, Roseville, CA 95661
Phone: 916-786-3302 Fax:
Sampled By: Reggie Tep
I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
Signature: Date: 2/16/21

Bill to: Marty Bloes
Address:
Address:
Email to: mbloes@pivox.com
Phone: 949-727-1400, ext 200
P.O.# SWA-ASSET-C9817-057
Fax:

EDD Requirement: Excel EDD; Geotracker; Labspec; Others ✓; Specify: RWQCB; Global ID:

QA/QC: RTNE; RWQCB ✓; CalTrans; LEVEL III; LEVEL IV; Regulatory; Specify State:

Sample Receipt Condition

	Y	N
1. Chilled	✓	
2. Headspace		✓
3. Container Intact	✓	
4. Seal Present		✓
5. IR number	2	
6. Method of Cooling: ICE		
Sample Temp: 2.8/3.2		

Courier:
Tracking No.:

Matrix: Ground x; Sediment; Potable; Soil; NPDES; Other Solid; Surface

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 mL poly)	Oxygen and Deuterium Isotopes (CFIRM), Ice (250 mL poly)	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (2x250 mL poly)	Alkalinity, Total as CaCO3 (SM2320B) (1 liter poly)	Bromide, Sulfate, Chloride (EPA 300.0) (1 liter poly)	Fluoride (EPA 300.0) (1 liter poly)	Specific Conductance (EPA 120.1) (1 liter poly)	Total Dissolved Solids (SM92540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4 (125 mL poly)	Total Organic Carbon (SM5310C); H2SO4 (3x40 mL poly)	Metals Dissolved (EPA7470A FF) Hg, HNO3 (500 mL poly)	Dissolved Metals (SW 6010B); HNO3 Potassium (500 mL poly)	Dissolved metals (SW 6010B), HNO3 B, Ca, Fe, Na (500 mL poly)	Dissolved metals (SW 6020), HNO3 As, Cr, Mn, Mo, Se (500 mL poly)	Dissolved metals (SW 6010B), HNO3 B, Ca, Cu, Fe, Na, Ni (500 mL poly)	Dissolved metals (SW 6020), HNO3 Ag, As, Ba, Be, Cd, Co, Cr, Mg, Mn, Mo, Pb, Sb, Se, Tl, V, Zn (500 mL poly)	Dissolved metals (SW 6010B), HNO3 Cr, Mo, Se (500 mL poly)	Dissolved metals (SW 6020), HNO3 Cr (500 mL poly)	Total metals, Chromium (non-filter) (EPA 200.8), HNO3 (500 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N044193-01	MW-62-110-Q121	2/16/2021	15:45		X						X		X					X								E	4	P	BNS	MS/MSD
2	-02	MW-65-225-Q121	2/16/2021	14:32		X						X		X					X								E	4	P	BNS	
3	-03	MW-65-160-Q121	2/16/2021	15:14		X						X		X					X								E	4	P	BNS	
4	-04	MW-66-165-0221	2/16/2021	12:44		X								X								X					E	3	P	BNS	MS/MSD
5	-05	MW-66-230-0221	2/16/2021	11:51		X								X								X					E	3	P	BNS	
6																															
7	-06	MW-67-185-0221	2/16/2021	8:35		X								X								X					E	4	P	BNS	3
8	-07	MW-67-225-0221	2/16/2021	10:55		X								X								X					E	3	P	BNS	
9	-08	MW-67-260-0221	2/16/2021	9:40		X								X								X					E	3	P	BNS	
10	-09	EB-788-Q121	2/16/2021	15:13		X																					E	1	P	B	
11	-10	EB-787-Q121	2/16/2021	16:00		X																					E	1	P	B	
12																															

Reliquished by (Signature and Printed Name):	Date/Time:	Received by (Signature and Printed Name):	Date/Time:
Reggie Tep	2/16/21 1645		2/16/21 1646
	2/16/21 1900		2/16/21 1900

Turn Around Time (TAT)

- A < 24 Hrs or Same Day TAT
- B = Next Workday
- C = 2 Workdays
- D = 3 Workdays
- X E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Tittle 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis.
Less than 24 Hrs =200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:

H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=$Zn(AC)_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B	(NH4)2SO4/NH4OH	

Container Type:

T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	2/16/2021	Workorder:	N044193
Rep sample Temp (Deg C):	2.8/3.2	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments:

Checklist Completed By: BHN BHdez 2/17/2021

Reviewed By: MBC 02/17/2021

Subject: Re: PG&E Topock - GMP, 30035275 (ASSET Labs N044193)
From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Date: 2/17/2021, 1:31 PM
To: "Madsen, Laura" <Laura.Madsen@arcadis.com>
CC: "marlon@assetlaboratories.com" <marlon@assetlaboratories.com>, "maryann.balilu@assetlaboratoriesph.com" <maryann.balilu@assetlaboratoriesph.com>, "sdoolittle@blainetech.com" <sdoolittle@blainetech.com>, Nara Tep <Ntep@blainetech.com>

Hi Laura,

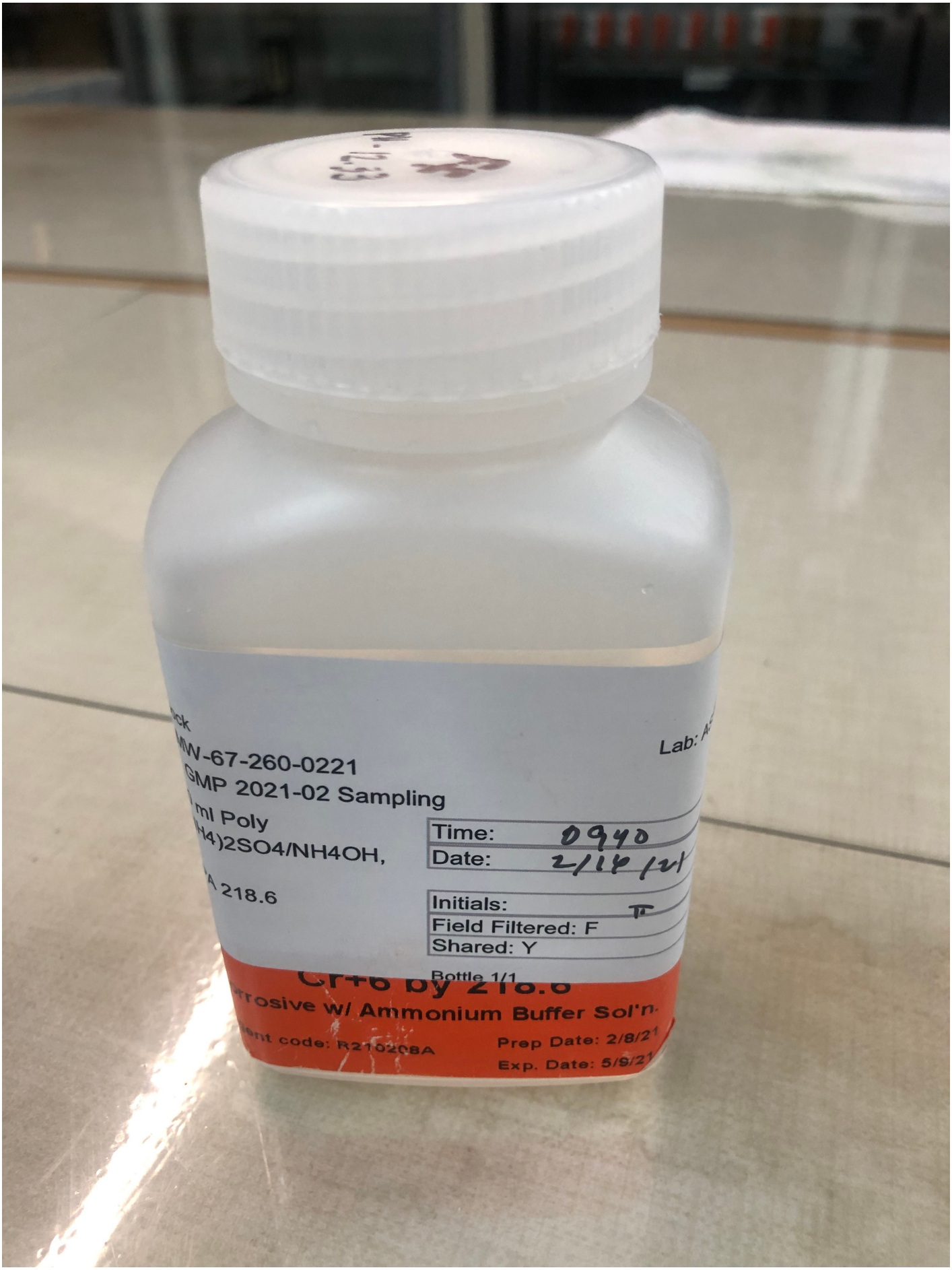
The bottle has the correct preservative, please check attached pictures.

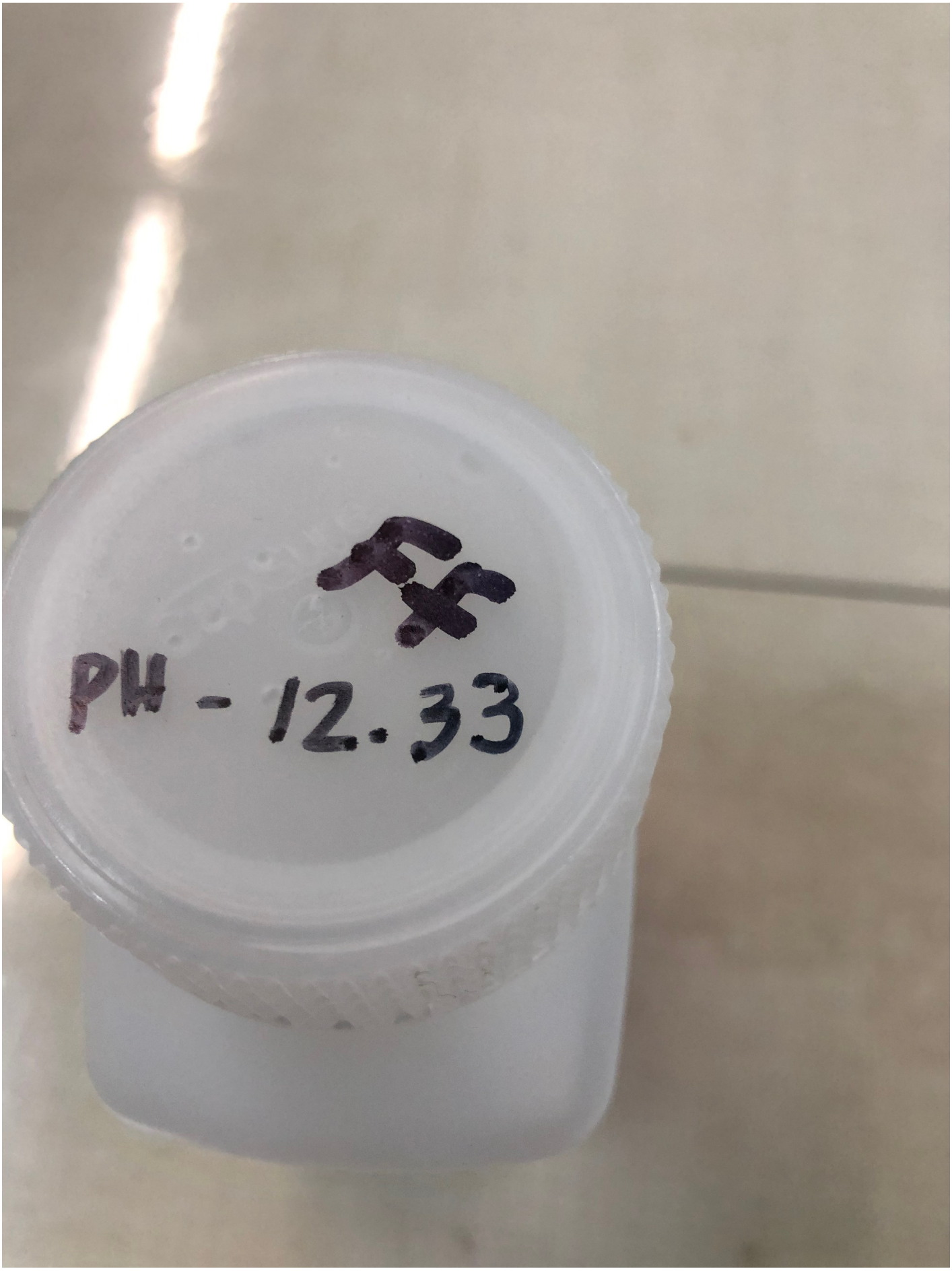
We will put all samples for this well on hold.

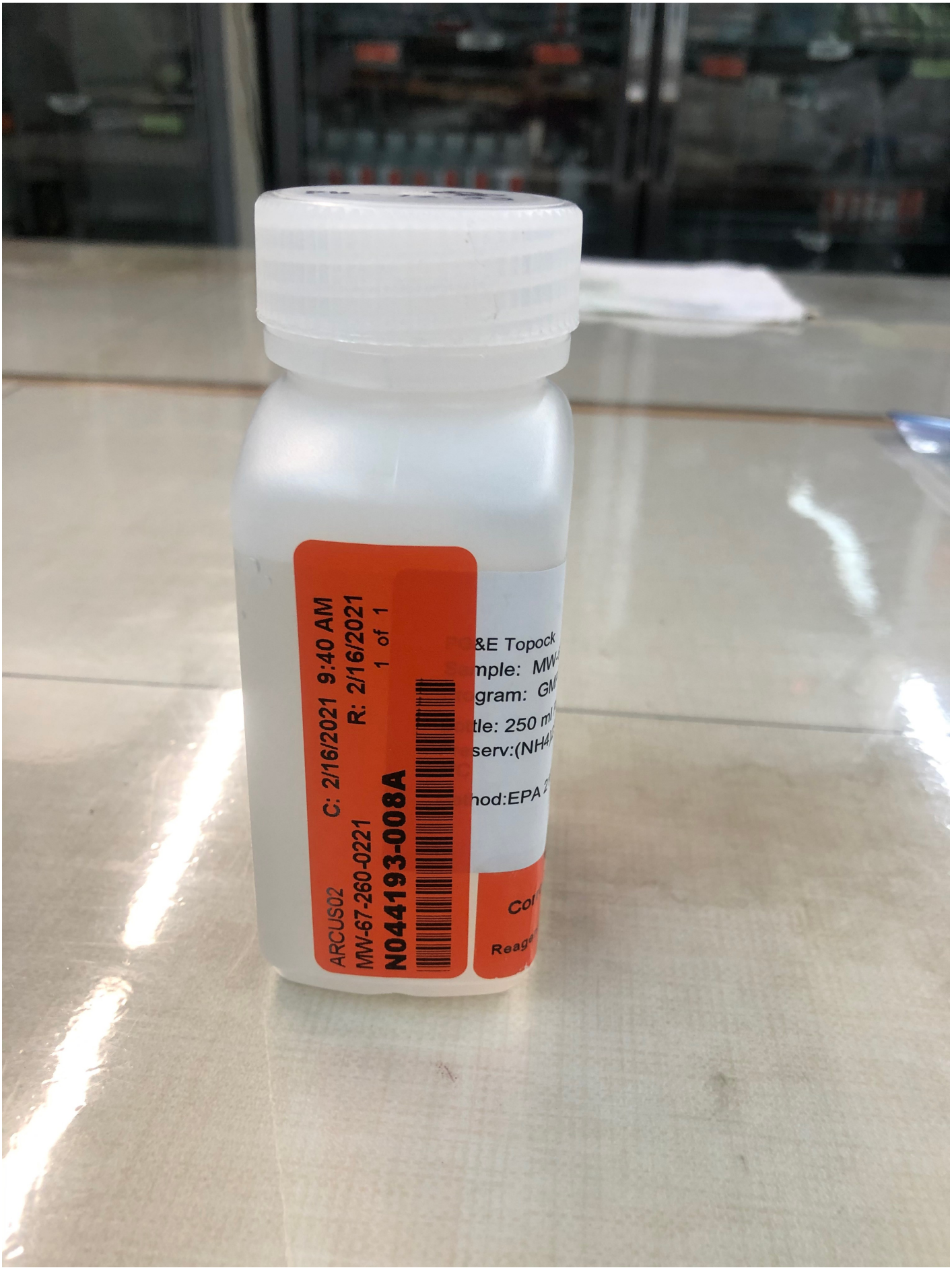
Thanks,

On 2/17/2021 12:40 PM, Madsen, Laura wrote:

> Hi Yoandra,
> Can you tell if the sample was put in a bottle with the wrong preservative? Do you have any photos?
>
> Please place all samples for the well on hold. We will have to resample.
>
> Thanks,
> Laura
>
> ---
>
> **From:** Yoandra Rodriguez <yoandra@assetlaboratories.com>
> **Sent:** Wednesday, February 17, 2021 1:02 PM
> **To:** Madsen, Laura <Laura.Madsen@arcadis.com>
> **Cc:** marlon@assetlaboratories.com; maryann.balilu@assetlaboratoriesph.com
> **Subject:** PG&E Topock - GMP, 30035275 (ASSET Labs N044193)
>
> Hi Laura,
>
> I'd like to inform you that sample 8 (MW-67-260-0221) for Hex Cr was received at pH 12.33.
>
> Please advise how to proceed.
>
> COC is attached for reference.
>
> --
> **Thanks,**
>
> **Yoandra Rodriguez**
> Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 | F: 702.307.2691
> California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436
>
> ASSET LABORATORIES - Serving Clients with Passion and Professionalism


MW-67-260-0221
GMP 2021-02 Sampling
ml Poly
(NH4)2SO4/NH4OH,
A 218.6
Time: 0940
Date: 2/18/21
Initials: T
Field Filtered: F
Shared: Y
Bottle 1/1
Cr+6 by 218.6
rrosive w/ Ammonium Buffer Sol'n.
ent code: R2102C8A
Prep Date: 2/8/21
Exp. Date: 5/9/21


PW - 12.33


ARCUS02
C: 2/16/2021 9:40 AM
MW-67-260-0221
R: 2/16/2021
1 of 1
N044193-008A
&E Topock
mple: MW
gram: GM
tle: 250 ml
serv:(NH4
hod:EPA 2
Col
Reage

ASSET Laboratories

WORK ORDER Summary

17-Feb-21

WorkOrder: N044193

Client ID: ARCUS02

Project: PG&E Topock - GMP, 30035275 **QC Level:** Level IV **Date Received:** 2/16/2021

Comments: Title 22 Metals Dissolved- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044193-001A	MW-62-110-Q121	2/16/2021 3:45:00 PM	2/26/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☑	☐	WW
N044193-001B			2/26/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☑	☐	WW
N044193-001C			2/26/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☑	☐	WW
N044193-001D			2/26/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	CEI
			2/26/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☑	☐	CEI
			2/26/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☑	☐	CEI
N044193-002A	MW-65-225-Q121	2/16/2021 2:32:00 PM	2/26/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044193-002B			2/26/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N044193-002C			2/26/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044193-002D			2/26/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			2/26/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			2/26/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044193-003A	MW-65-160-Q121	2/16/2021 3:14:00 PM	2/26/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044193-003B			2/26/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N044193-003C			2/26/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044193-003D			2/26/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			2/26/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			2/26/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044193-004A	MW-66-165-0221	2/16/2021 12:44:00 PM	2/26/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☑	☐	WW
N044193-004B			2/26/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☑	☐	WW
N044193-004C			2/26/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	CEI

ASSET Laboratories

WORK ORDER Summary

17-Feb-21

WorkOrder: N044193

Client ID: ARCUS02

Project: PG&E Topock - GMP, 30035275 **QC Level:** Level IV **Date Received:** 2/16/2021

Comments: Title 22 Metals Dissolved- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044193-004C	MW-66-165-0221	2/16/2021 12:44:00 PM	2/26/2021	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☑	☐	CEI
			2/26/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☑	☐	CEI
N044193-005A	MW-66-230-0221	2/16/2021 11:51:00 AM	2/26/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044193-005B			2/26/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044193-005C			2/26/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			2/26/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			2/26/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044193-006A	MW-67-185-0221	2/16/2021 8:35:00 AM	2/26/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044193-006B			2/26/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044193-006C			2/26/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			2/26/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			2/26/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044193-007A	MW-67-225-0221	2/16/2021 10:55:00 AM	2/26/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044193-007B			2/26/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044193-007C			2/26/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			2/26/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			2/26/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044193-008A	MW-67-260-0221	2/16/2021 9:40:00 AM	2/26/2021		EPA 218.6	Hexavalent Chromium by IC	☑	☐	☐	WW
N044193-008B			2/26/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☑	☐	☐	WW
N044193-008C			2/26/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☑	☐	☐	CEI
			2/26/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☑	☐	☐	CEI

ASSET Laboratories

WORK ORDER Summary

17-Feb-21

WorkOrder: N044193

Client ID: ARCUS02

Project: PG&E Topock - GMP, 30035275 **QC Level:** Level IV **Date Received:** 2/16/2021

Comments: Title 22 Metals Dissolved- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044193-008C	MW-67-260-0221	2/16/2021 9:40:00 AM	2/26/2021	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	☑	☐	☐	CEI
N044193-009A	EB-788-Q121	2/16/2021 3:13:00 PM	2/26/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044193-010A	EB-787-Q121	2/16/2021 4:00:00 PM	2/26/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044193-011A	FOLDER	3/2/2021	2/26/2021		EDD	Client specific project	☐	☐	☐	LAB
			2/26/2021		Folder	Level IV Report	☐	☐	☐	LAB
			2/26/2021		Folder	Folder	☐	☐	☐	LAB
			3/2/2021		Folder	Folder	☐	☐	☐	LAB

March 03, 2021

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N044209

RE: PG&E Topock - RMP, RC000753.0801

Attention: Dan Bush

Enclosed are the results for sample(s) received on February 17, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

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

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.0801
Lab Order: N044209

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time except for pH. pH testing is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Samples N044209-007 (AmbientBlank-1-0221) and N044209-009 (AmbientBlank-2-0221) were on hold as per COC.

Analytical Comments for EPA 6010B_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria in QC samples N044209-002B-MS and N044209-002B-MSD possibly due to matrix interference. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *03-Mar-21*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.0801
Lab Order: N044209
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044209-001A	MW-909-Q221	Groundwater	2/17/2021 10:25:00 AM	2/17/2021	3/3/2021
N044209-001B	MW-909-Q221	Groundwater	2/17/2021 10:25:00 AM	2/17/2021	3/3/2021
N044209-001C	MW-909-Q221	Groundwater	2/17/2021 10:25:00 AM	2/17/2021	3/3/2021
N044209-001D	MW-909-Q221	Groundwater	2/17/2021 10:25:00 AM	2/17/2021	3/3/2021
N044209-001E	MW-909-Q221	Groundwater	2/17/2021 10:25:00 AM	2/17/2021	3/3/2021
N044209-002A	C-R22A-D-0221	Groundwater	2/17/2021 10:00:00 AM	2/17/2021	3/3/2021
N044209-002B	C-R22A-D-0221	Groundwater	2/17/2021 10:00:00 AM	2/17/2021	3/3/2021
N044209-002C	C-R22A-D-0221	Groundwater	2/17/2021 10:00:00 AM	2/17/2021	3/3/2021
N044209-002D	C-R22A-D-0221	Groundwater	2/17/2021 10:00:00 AM	2/17/2021	3/3/2021
N044209-002E	C-R22A-D-0221	Groundwater	2/17/2021 10:00:00 AM	2/17/2021	3/3/2021
N044209-003A	C-R22A-S-0221	Groundwater	2/17/2021 10:15:00 AM	2/17/2021	3/3/2021
N044209-003B	C-R22A-S-0221	Groundwater	2/17/2021 10:15:00 AM	2/17/2021	3/3/2021
N044209-003C	C-R22A-S-0221	Groundwater	2/17/2021 10:15:00 AM	2/17/2021	3/3/2021
N044209-003D	C-R22A-S-0221	Groundwater	2/17/2021 10:15:00 AM	2/17/2021	3/3/2021
N044209-003E	C-R22A-S-0221	Groundwater	2/17/2021 10:15:00 AM	2/17/2021	3/3/2021
N044209-004A	C-R27-D-0221	Groundwater	2/17/2021 11:10:00 AM	2/17/2021	3/3/2021
N044209-004B	C-R27-D-0221	Groundwater	2/17/2021 11:10:00 AM	2/17/2021	3/3/2021
N044209-004C	C-R27-D-0221	Groundwater	2/17/2021 11:10:00 AM	2/17/2021	3/3/2021
N044209-004D	C-R27-D-0221	Groundwater	2/17/2021 11:10:00 AM	2/17/2021	3/3/2021
N044209-004E	C-R27-D-0221	Groundwater	2/17/2021 11:10:00 AM	2/17/2021	3/3/2021
N044209-005A	C-R27-S-0221	Groundwater	2/17/2021 11:25:00 AM	2/17/2021	3/3/2021
N044209-005B	C-R27-S-0221	Groundwater	2/17/2021 11:25:00 AM	2/17/2021	3/3/2021
N044209-005C	C-R27-S-0221	Groundwater	2/17/2021 11:25:00 AM	2/17/2021	3/3/2021
N044209-005D	C-R27-S-0221	Groundwater	2/17/2021 11:25:00 AM	2/17/2021	3/3/2021
N044209-005E	C-R27-S-0221	Groundwater	2/17/2021 11:25:00 AM	2/17/2021	3/3/2021
N044209-006A	C-TAZ-D-0221	Groundwater	2/17/2021 8:15:00 AM	2/17/2021	3/3/2021
N044209-006B	C-TAZ-D-0221	Groundwater	2/17/2021 8:15:00 AM	2/17/2021	3/3/2021
N044209-006C	C-TAZ-D-0221	Groundwater	2/17/2021 8:15:00 AM	2/17/2021	3/3/2021
N044209-006D	C-TAZ-D-0221	Groundwater	2/17/2021 8:15:00 AM	2/17/2021	3/3/2021

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.0801
Lab Order: N044209
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044209-006E	C-TAZ-D-0221	Groundwater	2/17/2021 8:15:00 AM	2/17/2021	3/3/2021
N044209-007A	AmbientBlank-1-0221	Groundwater	2/17/2021 9:35:00 AM	2/17/2021	3/3/2021
N044209-008A	C-TAZ-S-0221	Groundwater	2/17/2021 8:30:00 AM	2/17/2021	3/3/2021
N044209-008B	C-TAZ-S-0221	Groundwater	2/17/2021 8:30:00 AM	2/17/2021	3/3/2021
N044209-008C	C-TAZ-S-0221	Groundwater	2/17/2021 8:30:00 AM	2/17/2021	3/3/2021
N044209-008D	C-TAZ-S-0221	Groundwater	2/17/2021 8:30:00 AM	2/17/2021	3/3/2021
N044209-008E	C-TAZ-S-0221	Groundwater	2/17/2021 8:30:00 AM	2/17/2021	3/3/2021
N044209-009A	AmbientBlank-2-0221	Groundwater	2/17/2021 12:00:00 PM	2/17/2021	3/3/2021
N044209-010A	R-28-0221	Groundwater	2/17/2021 11:50:00 AM	2/17/2021	3/3/2021
N044209-010B	R-28-0221	Groundwater	2/17/2021 11:50:00 AM	2/17/2021	3/3/2021
N044209-010C	R-28-0221	Groundwater	2/17/2021 11:50:00 AM	2/17/2021	3/3/2021
N044209-010D	R-28-0221	Groundwater	2/17/2021 11:50:00 AM	2/17/2021	3/3/2021
N044209-010E	R-28-0221	Groundwater	2/17/2021 11:50:00 AM	2/17/2021	3/3/2021
N044209-011A	R63-0221	Groundwater	2/17/2021 9:30:00 AM	2/17/2021	3/3/2021
N044209-011B	R63-0221	Groundwater	2/17/2021 9:30:00 AM	2/17/2021	3/3/2021
N044209-011C	R63-0221	Groundwater	2/17/2021 9:30:00 AM	2/17/2021	3/3/2021
N044209-011D	R63-0221	Groundwater	2/17/2021 9:30:00 AM	2/17/2021	3/3/2021
N044209-011E	R63-0221	Groundwater	2/17/2021 9:30:00 AM	2/17/2021	3/3/2021
N044209-012A	C-BNS-0221	Groundwater	2/17/2021 10:45:00 AM	2/17/2021	3/3/2021
N044209-012B	C-BNS-0221	Groundwater	2/17/2021 10:45:00 AM	2/17/2021	3/3/2021
N044209-012C	C-BNS-0221	Groundwater	2/17/2021 10:45:00 AM	2/17/2021	3/3/2021
N044209-012D	C-BNS-0221	Groundwater	2/17/2021 10:45:00 AM	2/17/2021	3/3/2021
N044209-012E	C-BNS-0221	Groundwater	2/17/2021 10:45:00 AM	2/17/2021	3/3/2021
N044209-013A	C-I-3-D-0221	Groundwater	2/17/2021 8:50:00 AM	2/17/2021	3/3/2021
N044209-013B	C-I-3-D-0221	Groundwater	2/17/2021 8:50:00 AM	2/17/2021	3/3/2021
N044209-013C	C-I-3-D-0221	Groundwater	2/17/2021 8:50:00 AM	2/17/2021	3/3/2021
N044209-013D	C-I-3-D-0221	Groundwater	2/17/2021 8:50:00 AM	2/17/2021	3/3/2021
N044209-013E	C-I-3-D-0221	Groundwater	2/17/2021 8:50:00 AM	2/17/2021	3/3/2021
N044209-014A	C-I-3-S-0221	Groundwater	2/17/2021 9:05:00 AM	2/17/2021	3/3/2021
N044209-014B	C-I-3-S-0221	Groundwater	2/17/2021 9:05:00 AM	2/17/2021	3/3/2021

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.0801
Lab Order: N044209
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044209-014C	C-I-3-S-0221	Groundwater	2/17/2021 9:05:00 AM	2/17/2021	3/3/2021
N044209-014D	C-I-3-S-0221	Groundwater	2/17/2021 9:05:00 AM	2/17/2021	3/3/2021
N044209-014E	C-I-3-S-0221	Groundwater	2/17/2021 9:05:00 AM	2/17/2021	3/3/2021
N044209-015A	SW1-0221	Groundwater	2/17/2021 2:30:00 PM	2/17/2021	3/3/2021
N044209-015B	SW1-0221	Groundwater	2/17/2021 2:30:00 PM	2/17/2021	3/3/2021
N044209-015C	SW1-0221	Groundwater	2/17/2021 2:30:00 PM	2/17/2021	3/3/2021
N044209-016A	SW2-0221	Groundwater	2/17/2021 2:50:00 PM	2/17/2021	3/3/2021
N044209-016B	SW2-0221	Groundwater	2/17/2021 2:50:00 PM	2/17/2021	3/3/2021
N044209-016C	SW2-0221	Groundwater	2/17/2021 2:50:00 PM	2/17/2021	3/3/2021

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-909-Q221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:25:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210218B**	QC Batch: **R150807**			PrepDate:			Analyst: **LR**
Specific Conductance	910	0.10	0.10		umhos/cm	1	2/18/2021 01:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:00:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210218B**	QC Batch: **R150807**			PrepDate:			Analyst: **LR**
Specific Conductance	890	0.10	0.10		umhos/cm	1	2/18/2021 01:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:15:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210218B**	QC Batch: **R150807**			PrepDate:			Analyst: **LR**
Specific Conductance	880	0.10	0.10		umhos/cm	1	2/18/2021 01:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:10:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210218B**	QC Batch: **R150807**			PrepDate:			Analyst: **LR**
Specific Conductance	880	0.10	0.10		umhos/cm	1	2/18/2021 01:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:25:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210218B**	QC Batch: **R150807**			PrepDate:			Analyst: **LR**
Specific Conductance	900	0.10	0.10		umhos/cm	1	2/18/2021 01:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:15:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210218B**	QC Batch: **R150807**			PrepDate:			Analyst: **LR**
Specific Conductance	880	0.10	0.10		umhos/cm	1	2/18/2021 01:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210218B**	QC Batch: **R150807**			PrepDate:			Analyst: **LR**
Specific Conductance	880	0.10	0.10		umhos/cm	1	2/18/2021 01:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:50:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210218B**	QC Batch: **R150807**			PrepDate:			Analyst: **LR**
Specific Conductance	880	0.10	0.10		umhos/cm	1	2/18/2021 01:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 9:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210218B**	QC Batch: **R150807**			PrepDate:			Analyst: **LR**
Specific Conductance	880	0.10	0.10		umhos/cm	1	2/18/2021 01:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:45:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210218B**	QC Batch: **R150807**			PrepDate:			Analyst: **LR**
Specific Conductance	880	0.10	0.10		umhos/cm	1	2/18/2021 01:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:50:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210218B**	QC Batch: **R150807**			PrepDate:			Analyst: **LR**
Specific Conductance	860	0.10	0.10		umhos/cm	1	2/18/2021 01:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210218B**	QC Batch: **R150807**			PrepDate:			Analyst: **LR**
Specific Conductance	870	0.10	0.10		umhos/cm	1	2/18/2021 01:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW1-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 2:30:00 PM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210218B**	QC Batch: **R150807**			PrepDate:			Analyst: **LR**
Specific Conductance	1200	0.10	0.10		umhos/cm	1	2/18/2021 01:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW2-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 2:50:00 PM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-016		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210218B**	QC Batch: **R150807**			PrepDate:			Analyst: **LR**
Specific Conductance	940	0.10	0.10		umhos/cm	1	2/18/2021 01:10 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID **N044209-005DUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150807**
Client ID: **ZZZZZZ** Batch ID: **R150807** TestNo: **EPA 120.1** Analysis Date: **2/18/2021** SeqNo: **4110577**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	896.000	0.10						897.0	0.112	2	

Sample ID **N044209-016CDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150807**
Client ID: **ZZZZZZ** Batch ID: **R150807** TestNo: **EPA 120.1** Analysis Date: **2/18/2021** SeqNo: **4110588**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	947.000	0.10						944.0	0.317	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-909-Q221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:25:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210218C**	QC Batch: **R150808**			PrepDate:			Analyst: **LR**
pH	7.8	0.10	0.10	H	pH Units	1	2/18/2021 01:50 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/18/2021 01:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:00:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210218C**	QC Batch: **R150808**			PrepDate:			Analyst: **LR**
pH	7.8	0.10	0.10	H	pH Units	1	2/18/2021 01:50 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/18/2021 01:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:15:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210218C**	QC Batch: **R150808**			PrepDate:			Analyst: **LR**
pH	7.8	0.10	0.10	H	pH Units	1	2/18/2021 01:50 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/18/2021 01:50 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:10:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210218C**	QC Batch: **R150808**			PrepDate:			Analyst: **LR**
pH	7.8	0.10	0.10	H	pH Units	1	2/18/2021 01:50 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/18/2021 01:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:25:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210218C**	QC Batch: **R150808**			PrepDate:			Analyst: **LR**
pH	7.8	0.10	0.10	H	pH Units	1	2/18/2021 01:50 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/18/2021 01:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:15:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210218C**	QC Batch: **R150808**			PrepDate:			Analyst: **LR**
pH	7.9	0.10	0.10	H	pH Units	1	2/18/2021 01:50 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/18/2021 01:50 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210218C**	QC Batch: **R150808**			PrepDate:			Analyst: **LR**
pH	7.8	0.10	0.10	H	pH Units	1	2/18/2021 01:50 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/18/2021 01:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:50:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210218C**	QC Batch: **R150808**			PrepDate:			Analyst: **LR**
pH	7.8	0.10	0.10	H	pH Units	1	2/18/2021 01:50 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/18/2021 01:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 9:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210218C**	QC Batch: **R150808**			PrepDate:			Analyst: **LR**
pH	7.9	0.10	0.10	H	pH Units	1	2/18/2021 01:50 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/18/2021 01:50 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:45:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210218C**	QC Batch: **R150808**			PrepDate:			Analyst: **LR**
pH	7.8	0.10	0.10	H	pH Units	1	2/18/2021 01:50 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/18/2021 01:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:50:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210218C**	QC Batch: **R150808**			PrepDate:			Analyst: **LR**
pH	7.8	0.10	0.10	H	pH Units	1	2/18/2021 01:50 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/18/2021 01:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210218C**	QC Batch: **R150808**			PrepDate:			Analyst: **LR**
pH	7.8	0.10	0.10	H	pH Units	1	2/18/2021 01:50 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/18/2021 01:50 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW1-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 2:30:00 PM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210218C**	QC Batch: **R150808**			PrepDate:			Analyst: **LR**
pH	7.0	0.10	0.10	H	pH Units	1	2/18/2021 01:50 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/18/2021 01:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW2-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 2:50:00 PM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-016		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210218C**	QC Batch: **R150808**			PrepDate:			Analyst: **LR**
pH	7.3	0.10	0.10	H	pH Units	1	2/18/2021 01:50 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/18/2021 01:50 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID **N044209-005DDUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **150808**
Client ID: **ZZZZZZ** Batch ID: **R150808** TestNo: **SM4500-H+B** Analysis Date: **2/18/2021** SeqNo: **4110594**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.800	0.10						7.770	0.385	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Sample ID **N044209-016CDUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **150808**
Client ID: **ZZZZZZ** Batch ID: **R150808** TestNo: **SM4500-H+B** Analysis Date: **2/18/2021** SeqNo: **4110604**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.300	0.10						7.260	0.549	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-909-Q221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:25:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210222B** QC Batch: **85362** PrepDate: **2/22/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:00:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210222B** QC Batch: **85362** PrepDate: **2/22/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:15:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210222B**	QC Batch: **85362**				PrepDate:	**2/22/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:10:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210222B**	QC Batch: **85362**				PrepDate:	**2/22/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:25:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210222B**	QC Batch: **85362**				PrepDate:	**2/22/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:15:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210222B** QC Batch: **85362** PrepDate: **2/22/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	6.0	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210222B**	QC Batch: **85362**				PrepDate:	**2/22/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:50:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210222B** QC Batch: **85362** PrepDate: **2/22/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 9:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210222B**	QC Batch: **85362**				PrepDate:	**2/22/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:45:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210222B**	QC Batch: **85362**				PrepDate:	**2/22/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:50:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210222C** QC Batch: **85363** PrepDate: **2/22/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	8.5	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210222C** QC Batch: **85363** PrepDate: **2/22/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	6.5	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID	LCS-85362	SampType:	LCS	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	2/22/2021	RunNo:	150881
Client ID:	LCSW	Batch ID:	85362	TestNo:	SM2540D			Analysis Date:	2/22/2021	SeqNo:	4114532

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	964.000	10	1000	0	96.4	80	120				

Sample ID	MB-85362	SampType:	MBLK	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	2/22/2021	RunNo:	150881
Client ID:	PBW	Batch ID:	85362	TestNo:	SM2540D			Analysis Date:	2/22/2021	SeqNo:	4114533

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Sample ID	N044209-001DDUP	SampType:	DUP	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	2/22/2021	RunNo:	150881
Client ID:	ZZZZZZ	Batch ID:	85362	TestNo:	SM2540D			Analysis Date:	2/22/2021	SeqNo:	4114535

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	5.0						0	0	5	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID	LCS-85363	SampType:	LCS	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	2/22/2021	RunNo:	150882
Client ID:	LCSW	Batch ID:	85363	TestNo:	SM2540D			Analysis Date:	2/22/2021	SeqNo:	4114547

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	970.000	10	1000	0	97.0	80	120				

Sample ID	MB-85363	SampType:	MBLK	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	2/22/2021	RunNo:	150882
Client ID:	PBW	Batch ID:	85363	TestNo:	SM2540D			Analysis Date:	2/22/2021	SeqNo:	4114548

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Sample ID	N044229-005DDUP	SampType:	DUP	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	2/22/2021	RunNo:	150882
Client ID:	ZZZZZZ	Batch ID:	85363	TestNo:	SM2540D			Analysis Date:	2/22/2021	SeqNo:	4114556

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	5.0						0	0	5	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-909-Q221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:25:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 10:00 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85295** PrepDate: **2/18/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 06:59 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:00:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 09:02 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85295** PrepDate: **2/18/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 07:40 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:15:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 10:38 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85295** PrepDate: **2/18/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 07:46 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:10:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210221A** QC Batch: **R150878** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/21/2021 05:34 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85295** PrepDate: **2/18/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 07:52 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:25:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 09:32 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85295** PrepDate: **2/18/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 07:58 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:15:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 11:16 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85295** PrepDate: **2/18/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 08:04 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 11:35 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85295** PrepDate: **2/18/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 08:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:50:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 11:54 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85295** PrepDate: **2/18/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 08:16 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 9:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 12:31 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85295** PrepDate: **2/18/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 08:22 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:45:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 12:50 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85295** PrepDate: **2/18/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 08:28 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:50:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 01:09 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85295** PrepDate: **2/18/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 08:34 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 01:28 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85295** PrepDate: **2/18/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 09:04 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW1-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 2:30:00 PM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 01:47 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85295** PrepDate: **2/18/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 09:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW2-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 2:50:00 PM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-016		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 02:25 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85295** PrepDate: **2/18/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/18/2021 09:16 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **MB-R150877** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **PBW** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114372**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID **LCS-R150877** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **LCSW** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114373**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.815	0.20	5.000	0	96.3	90	110				

Sample ID **N044209-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114375**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.991	0.20	1.000	0	99.1	90	110				

Sample ID **N044209-002AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114376**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.025	0.20	1.000	0	103	90	110	0.9911	3.37	20	

Sample ID **N044209-005ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114378**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044209-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114379**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.010	0.20	1.000	0	101	90	110				

Sample ID **N044209-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114381**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.000	0.20	1.000	0	100	90	110				

Sample ID **N044209-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114385**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.015	0.20	1.000	0	101	90	110				

Sample ID **N044209-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114387**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.013	0.20	1.000	0	101	90	110				

Sample ID **N044209-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114389**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.988	0.20	1.000	0	98.8	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044209-010AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114391**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.009	0.20	1.000	0	101	90	110				

Sample ID **N044209-011AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.967	0.20	1.000	0	96.7	90	110				

Sample ID **N044209-012AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114397**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.005	0.20	1.000	0	101	90	110				

Sample ID **N044209-013AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114399**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.005	0.20	1.000	0	100	90	110				

Sample ID **N044209-014AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114401**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.981	0.20	1.000	0	98.0	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044209-015AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114403**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.009	0.20	1.000	0	101	90	110				

Sample ID **N044209-016AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.999	0.20	1.000	0	99.9	90	110				

Sample ID **N044229-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114409**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.004	0.20	1.000	0	100	90	110				

Sample ID **N044229-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114411**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.036	0.20	1.000	0.04310	99.3	90	110				

Sample ID **N044229-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114413**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.970	0.20	1.000	0	97.0	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044229-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114415**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.031	0.20	1.000	0	103	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **MB-R150878** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **PBW** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID **LCS-R150878** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **LCSW** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114425**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.786	0.20	5.000	0	95.7	90	110				

Sample ID **N044229-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114427**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.022	0.20	1.000	0	102	90	110				

Sample ID **N044229-005AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114428**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.984	0.20	1.000	0	98.4	90	110	1.022	3.84	20	

Sample ID **N044229-007ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114430**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044229-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114431**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.955	0.20	1.000	0	95.4	90	110				

Sample ID **N044229-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114433**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.990	0.20	1.000	0	99.0	90	110				

Sample ID **N044209-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114437**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.966	0.20	1.000	0	96.6	90	110				

Sample ID **N044229-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114439**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.980	0.20	1.000	0	98.0	90	110				

Sample ID **N044229-009AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.985	0.20	1.000	0	98.5	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044229-010AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114443**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.983	0.20	1.000	0	98.3	90	110				

Sample ID **N044229-011AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114445**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.974	0.20	1.000	0	97.4	90	110				

Sample ID **N044229-012AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114449**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.009	0.20	1.000	0	101	90	110				

Sample ID **N044229-014AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114451**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.982	0.20	1.000	0	98.2	90	110				

Sample ID **N044229-015AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114453**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.995	0.20	1.000	0	99.5	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID **MB-85295** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/18/2021** RunNo: **150897**
Client ID: **PBW** Batch ID: **85295** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115346**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID **LCS-85295** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/18/2021** RunNo: **150897**
Client ID: **LCSW** Batch ID: **85295** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115347**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.275	1.0	10.00	0	103	85	115				

Sample ID **N044209-001B-MS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/18/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85295** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115351**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.110	1.0	10.00	0.1994	99.1	75	125				

Sample ID **N044209-001B-MSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/18/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85295** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115352**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.222	1.0	10.00	0.1994	100	75	125	10.11	1.11	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-909-Q221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:25:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210223A** QC Batch: **R150934** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.51	0.032	0.050		mg/L	1	2/23/2021 07:13 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:00:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210223A** QC Batch: **R150934** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.46	0.032	0.050		mg/L	1	2/23/2021 07:18 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:15:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210223A** QC Batch: **R150934** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.46	0.032	0.050		mg/L	1	2/23/2021 07:22 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:10:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210223A** QC Batch: **R150934** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.46	0.032	0.050		mg/L	1	2/23/2021 07:27 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:25:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224A** QC Batch: **R150952** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.43	0.032	0.050		mg/L	1	2/24/2021 02:26 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:15:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224A** QC Batch: **R150952** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.45	0.032	0.050		mg/L	1	2/24/2021 02:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224A** QC Batch: **R150952** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.42	0.032	0.050		mg/L	1	2/24/2021 02:50 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:50:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224A** QC Batch: **R150952** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.47	0.032	0.050		mg/L	1	2/24/2021 02:54 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 9:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224A** QC Batch: **R150952** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.39	0.032	0.050		mg/L	1	2/24/2021 04:14 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:45:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224A** QC Batch: **R150952** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.42	0.032	0.050		mg/L	1	2/24/2021 04:19 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:50:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224A** QC Batch: **R150952** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.45	0.032	0.050		mg/L	1	2/24/2021 04:23 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224A** QC Batch: **R150952** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.45	0.032	0.050		mg/L	1	2/24/2021 04:28 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID **MB-R150934** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150934**
Client ID: **PBW** Batch ID: **R150934** TestNo: **SM4500-NO3** Analysis Date: **2/23/2021** SeqNo: **4116977**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID **LCS-R150934** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150934**
Client ID: **LCSW** Batch ID: **R150934** TestNo: **SM4500-NO3** Analysis Date: **2/23/2021** SeqNo: **4116978**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.512	0.050	0.5000	0	102	85	115				

Sample ID **N044208-009BDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150934**
Client ID: **ZZZZZZ** Batch ID: **R150934** TestNo: **SM4500-NO3** Analysis Date: **2/23/2021** SeqNo: **4116980**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.113	0.050						0.1147	1.32	20	

Sample ID **N044208-009BMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150934**
Client ID: **ZZZZZZ** Batch ID: **R150934** TestNo: **SM4500-NO3** Analysis Date: **2/23/2021** SeqNo: **4116981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.610	0.050	0.5000	0.1147	99.0	75	125				

Sample ID **N044208-009BMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150934**
Client ID: **ZZZZZZ** Batch ID: **R150934** TestNo: **SM4500-NO3** Analysis Date: **2/23/2021** SeqNo: **4116982**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.632	0.050	0.5000	0.1147	103	75	125	0.6098	3.50	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID **MB-R150952** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150952**
Client ID: **PBW** Batch ID: **R150952** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4117819**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID **LCS-R150952** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150952**
Client ID: **LCSW** Batch ID: **R150952** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4117820**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.497	0.050	0.5000	0	99.5	85	115				

Sample ID **N044209-005EDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150952**
Client ID: **ZZZZZZ** Batch ID: **R150952** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4117822**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.425	0.050						0.4304	1.38	20	

Sample ID **N044209-005EMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150952**
Client ID: **ZZZZZZ** Batch ID: **R150952** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4117823**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.999	0.050	0.5000	0.4304	114	75	125				

Sample ID **N044209-005EMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150952**
Client ID: **ZZZZZZ** Batch ID: **R150952** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4117824**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.948	0.050	0.5000	0.4304	104	75	125	0.9993	5.28	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-909-Q221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:25:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210223D**	QC Batch: **85301**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/23/2021 08:44 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85302**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	43	18	20		ug/L	1	2/21/2021 02:21 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:00:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85301**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	34	18	20		ug/L	1	2/21/2021 12:31 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85302**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	48	18	20		ug/L	1	2/21/2021 02:46 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:15:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_210221A**	QC Batch: **85301**				PrepDate:	**2/18/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/21/2021 01:06 PM
TOTAL METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_210221A**	QC Batch: **85302**				PrepDate:	**2/18/2021**	Analyst: **DJ**
Iron	100	18	20		ug/L	1	2/21/2021 03:13 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:10:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85301**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/21/2021 01:10 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85302**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	110	18	20		ug/L	1	2/21/2021 03:17 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:25:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85301**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/21/2021 01:14 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85302**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	98	18	20		ug/L	1	2/21/2021 03:21 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:15:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85301**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/21/2021 01:19 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85302**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	150	18	20		ug/L	1	2/21/2021 03:26 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_210221A**	QC Batch: **85301**				PrepDate:	**2/18/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/21/2021 01:23 PM
TOTAL METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_210221A**	QC Batch: **85302**				PrepDate:	**2/18/2021**	Analyst: **DJ**
Iron	340	18	20		ug/L	1	2/21/2021 03:30 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:50:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85301**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/21/2021 01:27 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85302**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	85	18	20		ug/L	1	2/21/2021 03:34 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 9:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A** QC Batch: **85301**				PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	41	18	20		ug/L	1	2/21/2021 01:31 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A** QC Batch: **85302**				PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	53	18	20		ug/L	1	2/21/2021 03:38 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:45:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85301**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/21/2021 01:35 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85302**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	46	18	20		ug/L	1	2/21/2021 03:42 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:50:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85301**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/21/2021 01:40 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85302**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	70	18	20		ug/L	1	2/21/2021 03:47 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85301**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/21/2021 01:44 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210221A**	QC Batch: **85302**			PrepDate:		**2/18/2021**	Analyst: **DJ**
Iron	69	18	20		ug/L	1	2/21/2021 03:51 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID	N044209-002B-MS	SampType:	MS	TestCode:	6010_WDPG	Units:	ug/L	Prep Date:	2/18/2021	RunNo:	150857
Client ID:	ZZZZZZ	Batch ID:	85301	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	2/21/2021	SeqNo:	4113262

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	90.110	20	100.0	33.84	56.3	75	125				S

Sample ID	N044209-002B-MSD	SampType:	MSD	TestCode:	6010_WDPG	Units:	ug/L	Prep Date:	2/18/2021	RunNo:	150857
Client ID:	ZZZZZZ	Batch ID:	85301	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	2/21/2021	SeqNo:	4113263

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	99.352	20	100.0	33.84	65.5	75	125	90.11	9.76	20	S

Sample ID	MB-85301	SampType:	MBLK	TestCode:	6010_WDPG	Units:	ug/L	Prep Date:	2/18/2021	RunNo:	150857
Client ID:	PBW	Batch ID:	85301	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	2/21/2021	SeqNo:	4113279

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	20									

Sample ID	LCS-85301	SampType:	LCS	TestCode:	6010_WDPG	Units:	ug/L	Prep Date:	2/18/2021	RunNo:	150857
Client ID:	LCSW	Batch ID:	85301	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	2/21/2021	SeqNo:	4113280

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	85.019	20	100.0	0	85.0	85	115				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID	MB-85302	SampType:	MBLK	TestCode:	6010_WPGE	Units:	ug/L	Prep Date:	2/18/2021	RunNo:	150857
Client ID:	PBW	Batch ID:	85302	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	2/21/2021	SeqNo:	4113335

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	20									

Sample ID	LCS-85302	SampType:	LCS	TestCode:	6010_WPGE	Units:	ug/L	Prep Date:	2/18/2021	RunNo:	150857
Client ID:	LCSW	Batch ID:	85302	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	2/21/2021	SeqNo:	4113338

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	85.699	20	100.0	0	85.7	85	115				

Sample ID	N044209-001C-MS	SampType:	MS	TestCode:	6010_WPGE	Units:	ug/L	Prep Date:	2/18/2021	RunNo:	150857
Client ID:	ZZZZZZ	Batch ID:	85302	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	2/21/2021	SeqNo:	4113342

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	119.738	20	100.0	43.23	76.5	75	125				

Sample ID	N044209-001C-MSD	SampType:	MSD	TestCode:	6010_WPGE	Units:	ug/L	Prep Date:	2/18/2021	RunNo:	150857
Client ID:	ZZZZZZ	Batch ID:	85302	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	2/21/2021	SeqNo:	4113343

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	122.707	20	100.0	43.23	79.5	75	125	119.7	2.45	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID	**N044209-002B-PS**	SampType:	**PS**	TestCode:	**6010_WDPG**	Units:	**ug/L**	Prep Date:				RunNo:	**150857**
Client ID:	**ZZZZZZ**	Batch ID:	**85301**	TestNo:	**EPA 6010B**		**EPA 3010A**	Analysis Date:	**2/21/2021**			SeqNo:	**4113261**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	105.762	20	100.0	33.84	71.9	80	120				S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID	**N044209-001C-PS**	SampType:	**PS**	TestCode:	**6010_WPGE**	Units:	**ug/L**	Prep Date:		RunNo:	**150857**	
Client ID:	**ZZZZZZ**	Batch ID:	**85302**	TestNo:	**EPA 6010B**		**EPA 3010A**	Analysis Date:	**2/21/2021**	SeqNo:	**4113341**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	120.621	20	100.0	43.23	77.4	80	120				S

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-909-Q221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:25:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85295**				PrepDate:	**2/18/2021**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	2/18/2021 06:59 PM
Barium	110	0.15	1.0		µg/L	1	2/18/2021 06:59 PM
Manganese	2.5	0.26	0.50		µg/L	1	2/18/2021 06:59 PM
Molybdenum	4.5	0.21	0.50		µg/L	1	2/18/2021 06:59 PM
Selenium	1.7	0.36	0.50		µg/L	1	2/18/2021 06:59 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:00:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85295**				PrepDate:	**2/18/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/18/2021 07:40 PM
Barium	110	0.15	1.0		µg/L	1	2/18/2021 07:40 PM
Manganese	2.4	0.26	0.50		µg/L	1	2/18/2021 07:40 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	2/18/2021 07:40 PM
Selenium	1.9	0.36	0.50		µg/L	1	2/18/2021 07:40 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:15:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85295**				PrepDate:	**2/18/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/18/2021 07:46 PM
Barium	110	0.15	1.0		µg/L	1	2/18/2021 07:46 PM
Manganese	2.6	0.26	0.50		µg/L	1	2/18/2021 07:46 PM
Molybdenum	4.6	0.21	0.50		µg/L	1	2/18/2021 07:46 PM
Selenium	1.8	0.36	0.50		µg/L	1	2/18/2021 07:46 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:10:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85295**				PrepDate:	**2/18/2021**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	2/18/2021 07:52 PM
Barium	110	0.15	1.0		µg/L	1	2/18/2021 07:52 PM
Manganese	1.6	0.26	0.50		µg/L	1	2/18/2021 07:52 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	2/18/2021 07:52 PM
Selenium	1.7	0.36	0.50		µg/L	1	2/18/2021 07:52 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:25:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85295**				PrepDate:	**2/18/2021**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	2/18/2021 07:58 PM
Barium	120	0.15	1.0		µg/L	1	2/18/2021 07:58 PM
Manganese	2.2	0.26	0.50		µg/L	1	2/18/2021 07:58 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	2/18/2021 07:58 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/18/2021 07:58 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:15:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85295**				PrepDate:	**2/18/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/18/2021 08:04 PM
Barium	110	0.15	1.0		µg/L	1	2/18/2021 08:04 PM
Manganese	1.4	0.26	0.50		µg/L	1	2/18/2021 08:04 PM
Molybdenum	4.6	0.21	0.50		µg/L	1	2/18/2021 08:04 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/18/2021 08:04 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85295**				PrepDate:	**2/18/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/18/2021 08:10 PM
Barium	110	0.15	1.0		µg/L	1	2/18/2021 08:10 PM
Manganese	1.8	0.26	0.50		µg/L	1	2/18/2021 08:10 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	2/18/2021 08:10 PM
Selenium	1.8	0.36	0.50		µg/L	1	2/18/2021 08:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 11:50:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85295**				PrepDate:	**2/18/2021**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	2/18/2021 08:16 PM
Barium	120	0.15	1.0		µg/L	1	2/18/2021 08:16 PM
Manganese	1.6	0.26	0.50		µg/L	1	2/18/2021 08:16 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	2/18/2021 08:16 PM
Selenium	1.7	0.36	0.50		µg/L	1	2/18/2021 08:16 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 9:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85295**				PrepDate:	**2/18/2021**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	2/18/2021 08:22 PM
Barium	120	0.15	1.0		µg/L	1	2/18/2021 08:22 PM
Manganese	3.3	0.26	0.50		µg/L	1	2/18/2021 08:22 PM
Molybdenum	4.6	0.21	0.50		µg/L	1	2/18/2021 08:22 PM
Selenium	1.9	0.36	0.50		µg/L	1	2/18/2021 08:22 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 10:45:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85295**			PrepDate:		**2/18/2021**	Analyst: **CEI**
Arsenic	2.5	0.081	0.10		µg/L	1	2/18/2021 08:28 PM
Barium	110	0.15	1.0		µg/L	1	2/18/2021 08:28 PM
Manganese	1.4	0.26	0.50		µg/L	1	2/18/2021 08:28 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	2/18/2021 08:28 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/18/2021 08:28 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 8:50:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85295**				PrepDate:	**2/18/2021**	Analyst: **CEI**
Arsenic	2.5	0.081	0.10		µg/L	1	2/18/2021 08:34 PM
Barium	120	0.15	1.0		µg/L	1	2/18/2021 08:34 PM
Manganese	1.4	0.26	0.50		µg/L	1	2/18/2021 08:34 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	2/18/2021 08:34 PM
Selenium	1.9	0.36	0.50		µg/L	1	2/18/2021 08:34 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *03-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-0221
Lab Order:	N044209	**Collection Date:**	2/17/2021 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N044209-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85295**				PrepDate:	**2/18/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/18/2021 09:04 PM
Barium	110	0.15	1.0		µg/L	1	2/18/2021 09:04 PM
Manganese	1.7	0.26	0.50		µg/L	1	2/18/2021 09:04 PM
Molybdenum	4.6	0.21	0.50		µg/L	1	2/18/2021 09:04 PM
Selenium	1.7	0.36	0.50		µg/L	1	2/18/2021 09:04 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **MB-85295** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/18/2021** RunNo: **150897**
Client ID: **PBW** Batch ID: **85295** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID **LCS-85295** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/18/2021** RunNo: **150897**
Client ID: **LCSW** Batch ID: **85295** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115442**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.023	0.10	10.00	0	100	85	115				
Barium	10.505	1.0	10.00	0	105	85	115				
Manganese	101.357	0.50	100.0	0	101	85	115				
Molybdenum	9.783	0.50	10.00	0	97.8	85	115				
Selenium	10.359	0.50	10.00	0	104	85	115				

Sample ID **N044209-001B-MS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/18/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85295** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115446**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.702	0.10	10.00	2.191	105	75	125				
Barium	122.486	1.0	10.00	111.9	106	75	125				
Manganese	99.386	0.50	100.0	2.519	96.9	75	125				
Molybdenum	15.402	0.50	10.00	4.495	109	75	125				
Selenium	12.688	0.50	10.00	1.670	110	75	125				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044209
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **N044209-001B-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/18/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85295** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115447**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.556	0.10	10.00	2.191	104	75	125	12.70	1.16	20	
Barium	123.589	1.0	10.00	111.9	117	75	125	122.5	0.896	20	
Manganese	98.619	0.50	100.0	2.519	96.1	75	125	99.39	0.774	20	
Molybdenum	15.679	0.50	10.00	4.495	112	75	125	15.40	1.79	20	
Selenium	12.291	0.50	10.00	1.670	106	75	125	12.69	3.18	20	

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

N044209

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis
Address: 1410 Rocky Ridge Dr # 330
Address: Roseville, CA 95661
Phone: 916-786-3302 Fax:
Submitted By: Reggie Tep
Title: Field Tech
Signature: Date: 2/17/21
I hereby authorize ASSET Labs to perform the tests indicated below.
Project Name: PG&E Topock - RMP
Project Number: RC000753.0801

Report to: Dan Bush
Company: Arcadis
Email: [illegible] daniel.moon@arcadis.com
Address: 1410 Rocky Ridge Dr # 330 Roseville, CA 95661
Phone: 916-786-3302 Fax:
Sampled By: Reggie Tep
I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for
Signature: Date: 2/17/21

Bill to: Marty Bloes
Address:
Address:
Email to: mbloes@pivox.com P.O.#
Phone: 949-727-1400, ext 200 Fax:

EDD Requirement	
Excel EDD	
Geotracker	
Labspec	
Others	✓
Specify: RWQCB	
Global ID:	

QA/QC	
RTNE	
RWQCB	✓
Cal/Trans	
LEVEL III	
LEVEL IV	
Regulatory	
Specify State:	

Sample Receipt Condition	Y	N
1. Chilled	✓	
2. Headspace		
3. Container Intact	✓	
4. Seal Present		
5. IR number	2	✓
6. Method of Cooling: ICE		
Sample Temp: 4.1°C / 3.6°C / 2.1°C		
Courier: ASSET		
Tracking No.:		

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (3x250 mL poly)	Field QC Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Dissolved metals (SW6010B/SW6020A,dis) FF; HNO3 Cr (3x500mL poly)	Dissolved metals (SW6010B/SW6020A,dis) FF; HNO3 Ca, Mg, K, Na, B (3x500mL poly)	Dissolved metals (SW6010B/SW6020A,dis) FF; HNO3 As, Mn, Fe, Se, Mo, Ba (3x500mL poly)	Total metals (SW6010B); HNO3 Fe (500 mL poly)	Anions (E300.0); Br, Cl, SO4 (1 liter poly)	Specific Conductance (E120.1) (1 liter poly)	pH (SM4500HB) (1 liter poly)	TDS (SM2540C) (1 liter poly)	Alkalinity (Total, reported as CaCO3) (SM2320B) (1 liter poly)	TSS (SM2540) (1 liter poly)	Nitrate/Nitrite (SM4500NO3) Nitrogen; H2SO4 (125 mL poly)	Oxygen and deuterium stable isotopes (CFIRM) (1 250 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N044209-01	MW-909-0221	2/17/2021	10:25		X		X		X	X		X	X			X	X		E	~~5~~	P	BNS	7
2	-02	C-R22A-D-0221	2/17/2021	10:00		X		X		X	X		X	X			X	X		E	~~5~~	P	BNS	7
3	-03	C-R22A-S-0221	2/17/2021	10:15		X		X		X	X		X	X			X	X		E	~~5~~	P	BNS	7
4	-04	C-R27-D-0221	2/17/2021	11:10		X		X		X	X		X	X			X	X		E	~~5~~	P	BNS	7
5	-05	C-R27-S-0221	2/17/2021	11:25		X		X		X	X		X	X			X	X		E	~~5~~	P	BNS	7
	-06	C-TAZ-D-0221	2/17/2021	8:15		X		X		X	X		X	X			X	X		E	~~5~~	P	BNS	7
7	-07	AmbientBlank-1-0221	2/17/2021	9:35			X													E	1	P	BNS	Hold
8	-08	C-TAZ-S-0221	2/17/2021	8:30		X		X		X	X		X	X			X	X		E	~~5~~	P	BNS	7
9	-09	AmbientBlank-2-0221	2/17/2021	12:00			X													E	1	P	BNS	Hold
10	-10	R-28-0221	2/17/2021	11:50		X		X		X	X		X	X			X	X		E	~~5~~	P	BNS	7
11	-11	R63-0221	2/17/2021	9:30		X		X		X	X		X	X			X	X		E	~~5~~	P	BNS	7
12	-12	C-BNS-0221	2/17/2021	10:45		X		X		X	X		X	X			X	X		E	~~5~~	P	BNS	7
13	-13	C-I-3-D-0221	2/17/2021	8:50		X		X		X	X		X	X			X	X		E	~~5~~	P	BNS	7
14	-14	C-I-3-S-0221	2/17/2021	9:05		X		X		X	X		X	X			X	X		E	~~5~~	P	BNS	7

Reliquished by (Signature and Printed Name): Reggie Tep Date/Time: 2/17/21 16:30
Reliquished by (Signature and Printed Name): ROMEO ALCANTARA Date/Time: 2/17/21 16:30
Reliquished by (Signature and Printed Name): REL/REC 2/17/21 Date/Time:
Reliquished by (Signature and Printed Name): ROMEO ALCANTARA Date/Time: 2/17/21 1928
Reliquished by (Signature and Printed Name): Date/Time:
Reliquished by (Signature and Printed Name): Date/Time:

Turn Around Time (TAT)

	A	< 24 Hrs or Same Day TAT
	B	= Next Workday
	C	= 2 Workdays
	D	= 3 Workdays
X	E	= Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:

H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=Zn(AC)$_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B	(NH4)2SO4/NH4OH	

Container Type:

T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes	
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:	
Address: Roseville, CA 95661	Email: [illegible]	Address:	
Phone: 916-786-3302 / Fax:	Address: 1410 Rocky Ridge Dr # 330 Roseville, CA 95661	Email to: mbloes@pivox.com	P.O.#
Submitted By: Reggie Tep		Phone: 949-727-1400, ext 200	Fax:
Title: Field Tech	Phone: 916-786-3302 / Fax:		
Signature: Date: 2/17/21	Sampled By: Reggie Tep		
I hereby authorize ASSET Labs to perform the tests indicated below.	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		
Project Name: PG&E Topock - RMP	Signature: / Date: 2/17/21		
Project Number: RC000753.0801			

EDD Requirement		QA/QC		Sample Receipt Condition	Y	N
Excel EDD		RTNE		1. Chilled	✓	
Geotracker		RWQCB	✓	2. Headspace		
Labspec		CalTrans		3. Container Intact	✓	
Others	✓	LEVEL III		4. Seal Present		✓
Specify: RWQCB		LEVEL IV		5. IR number	2	
		Regulatory		6. Method of Cooling: ICE		
Global ID:		Specify State:		Sample Temp: 4.1°C / 3.6°C / 2.1°C		
				Courier: ASSET		
				Tracking No.:		

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	3x250 mL poly: Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	250 ml Poly: Field QC Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	3x500mL poly: Dissolved metals (SW6010B/SW6020/Adis) FF; HNO3 Cr	3x500mL poly: Dissolved metals (SW6010B/SW6020/Adis) FF; HNO3 Ca, Mg, K, Na, B	3x500mL poly: Dissolved metals (SW6010B/SW6020/Adis) FF; HNO3 As, Mn, Fe, Se, Mo, Ba	500 mL poly: Total metals (SW6010B); HNO3 Fe	1 liter poly: Anions (E300.0); Br, Cl, SO4	1 liter poly: Specific Conductance (E120.1)	1 liter poly: pH (SM4500HB)	1 liter poly: TDS (SM2540C)	1 liter poly: Alkalinity (Total, reported as CaCO3) (SM2320B)	1 liter poly: TSS (SM2540)	125 mL poly: Nitrate/Nitrite (SM4500NO3) Nitrogen; H2SO4	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
	N044209-15	SW1-0221	2/17/2021	14:30		X		X					X	X					E	~~3~~	P	3NS	5
	-16	SW2-0221	2/17/2021	14:50		X		X					X	X					E	~~3~~	P	3NS	5

Relinquished by (Signature and Printed Name):	Date/Time:	Relinquished by (Signature and Printed Name):	Date/Time:
Reggie Tep	2/17/21 1630	DM ROMEO ALCANTARA	2/17/21 1630
Relinquished by (Signature and Printed Name):	Date/Time:	Relinquished by (Signature and Printed Name):	Date/Time:
REL / REC DM ROMEO ALCANTARA	2/17/21		1928
Relinquished by (Signature and Printed Name):	Date/Time:	Relinquished by (Signature and Printed Name):	Date/Time:

Turn Around Time (TAT)

- [ ] A < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
- [ ] D = 3 Workdays
- [x] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:				Container Type:		
H=HCL	N=HNO_3	S=H_2SO_4	C=4°C	T=Tube	V=VOA	P=Pint
Z=Zn(AC)$_2$	O=NaOH	T=$Na_2S_2O_3$		J=Jar	B=Tedlar	G=Glass
Others/Specify:	B	(NH4)2SO4/NH4OH		M=Metal	M=Metal	C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	2/17/2021	Workorder:	N044209
Rep sample Temp (Deg C):	4.1/3.6/2.1	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments:

Samples for pH received past holding time.
See Correspondence.

Checklist Completed By: BHN BHdez 2/18/2021

Reviewed By: MBC 02/19/2021

Subject: RE: PG&E Topock - RMP, RC000753.0801 (ASSET Labs No. N044209)
From: "Madsen, Laura" <Laura.Madsen@arcadis.com>
Date: 2/18/2021, 11:43 AM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>
CC: Tina Rice <Tina.Rice@critigen.com>, "maryann.balilu@assetlaboratoriesph.com" <maryann.balilu@assetlaboratoriesph.com>

Hi,
Please use MW-909-Q221.

Thanks,
Laura

From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Thursday, February 18, 2021 1:43 PM
To: Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: Tina Rice <Tina.Rice@critigen.com>; maryann.balilu@assetlaboratoriesph.com
Subject: PG&E Topock - RMP, RC000753.0801 (ASSET Labs No. N044209)

Hi Laura,

Please kindly advise on the following discrepancy for the attached COC:

- Sample 1: ID is MW-909-0221 on COC and MW-909-Q221 on labels.

--
Thanks,

Yoandra Rodriguez
Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 | F: 702.307.2691
California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436

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ASSET Laboratories

WORK ORDER Summary

18-Feb-21

WorkOrder: N044209

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 2/17/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044209-001A	MW-909-Q221	2/17/2021 10:25:00 AM	3/1/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044209-001B			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044209-001C			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044209-001D			3/1/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/1/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/1/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/1/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044209-001E			3/1/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044209-002A	C-R22A-D-0221	2/17/2021 10:00:00 AM	3/1/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044209-002B			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044209-002C			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044209-002D			3/1/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

18-Feb-21

WorkOrder: N044209

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 2/17/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044209-002D	C-R22A-D-0221	2/17/2021 10:00:00 AM	3/1/2021	Groundwater	SM4500-H+B	pH	☐	☐	☐	WW
			3/1/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/1/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044209-002E			3/1/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044209-003A	C-R22A-S-0221	2/17/2021 10:15:00 AM	3/1/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044209-003B			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044209-003C			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044209-003D			3/1/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/1/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/1/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/1/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044209-003E			3/1/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044209-004A	C-R27-D-0221	2/17/2021 11:10:00 AM	3/1/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044209-004B			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI

ASSET Laboratories

WORK ORDER Summary

18-Feb-21

WorkOrder: N044209

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 2/17/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044209-004B	C-R27-D-0221	2/17/2021 11:10:00 AM	3/1/2021	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044209-004C			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044209-004D			3/1/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/1/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/1/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/1/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044209-004E			3/1/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044209-005A	C-R27-S-0221	2/17/2021 11:25:00 AM	3/1/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044209-005B			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044209-005C			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044209-005D			3/1/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/1/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/1/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/1/2021			Total Suspended Solids Prep	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

18-Feb-21

WorkOrder: N044209

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 2/17/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044209-005E	C-R27-S-0221	2/17/2021 11:25:00 AM	3/1/2021	Groundwater	SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044209-006A	C-TAZ-D-0221	2/17/2021 8:15:00 AM	3/1/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044209-006B			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044209-006C			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044209-006D			3/1/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/1/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/1/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/1/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044209-006E			3/1/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044209-007A	AmbientBlank-1-0221	2/17/2021 9:35:00 AM					☐	☐	☐	WW
N044209-008A	C-TAZ-S-0221	2/17/2021 8:30:00 AM	3/1/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044209-008B			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI

ASSET Laboratories

WORK ORDER Summary

18-Feb-21

WorkOrder: N044209

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 2/17/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044209-008C	C-TAZ-S-0221	2/17/2021 8:30:00 AM	3/1/2021	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044209-008D			3/1/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/1/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/1/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/1/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044209-008E			3/1/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044209-009A	AmbientBlank-2-0221	2/17/2021 12:00:00 PM					☐	☐	☐	WW
N044209-010A	R-28-0221	2/17/2021 11:50:00 AM	3/1/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044209-010B			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044209-010C			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044209-010D			3/1/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/1/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/1/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/1/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044209-010E			3/1/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

18-Feb-21

WorkOrder: N044209

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 2/17/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044209-011A	R63-0221	2/17/2021 9:30:00 AM	3/1/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044209-011B			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044209-011C			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044209-011D			3/1/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/1/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/1/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/1/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044209-011E			3/1/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044209-012A	C-BNS-0221	2/17/2021 10:45:00 AM	3/1/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044209-012B			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044209-012C			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044209-012D			3/1/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

18-Feb-21

WorkOrder: N044209

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 2/17/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044209-012D	C-BNS-0221	2/17/2021 10:45:00 AM	3/1/2021	Groundwater	SM4500-H+B	pH	☐	☐	☐	WW
			3/1/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/1/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044209-012E			3/1/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044209-013A	C-I-3-D-0221	2/17/2021 8:50:00 AM	3/1/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044209-013B			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044209-013C			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044209-013D			3/1/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/1/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/1/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/1/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044209-013E			3/1/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044209-014A	C-I-3-S-0221	2/17/2021 9:05:00 AM	3/1/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044209-014B			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI

ASSET Laboratories

WORK ORDER Summary

18-Feb-21

WorkOrder: N044209

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 2/17/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044209-014B	C-I-3-S-0221	2/17/2021 9:05:00 AM	3/1/2021	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044209-014C			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044209-014D			3/1/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/1/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/1/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/1/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044209-014E			3/1/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044209-015A	SW1-0221	2/17/2021 2:30:00 PM	3/1/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044209-015B			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044209-015C			3/1/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/1/2021		SM4500-H+B	pH	☐	☐	☐	WW
N044209-016A	SW2-0221	2/17/2021 2:50:00 PM	3/1/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044209-016B			3/1/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/1/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044209-016C			3/1/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/1/2021		SM4500-H+B	pH	☐	☐	☐	WW
N044209-017A	FOLDER	3/3/2021	3/1/2021		EDD	Client specific project	☐	☐	☐	LAB
			3/1/2021		Folder	Level IV Report	☐	☐	☐	LAB
			3/1/2021		Folder	Folder	☐	☐	☐	LAB

ASSET Laboratories

WORK ORDER Summary

18-Feb-21

WorkOrder: N044209

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 2/17/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044209-017A	FOLDER	3/3/2021	3/3/2021		Folder	Folder	☐	☐	☐	LAB

March 04, 2021

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N044226

RE: PG&E Topock - GMP, 30035275

Attention: Dan Bush

Enclosed are the results for sample(s) received on February 18, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

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

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for some samples due to matrix interference. Samples were analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Samples were reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Because the results for total dissolved chromium (3.1 ug/L) and hexavalent chromium (1.2 ug/L) for sample N044226-006 (MW-63-065-Q121) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Analytical Comments for EPA 6020_Dissolved:

Because the results for total dissolved chromium (3.1 ug/L) and hexavalent chromium (1.2 ug/L) for sample N044226-006 (MW-63-065-Q121) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 2.9 and 2.0 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N044226-001D-MS and N044226-001D-MSD possibly due to matrix interference. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *04-Mar-21*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - GMP, 30035275
Lab Order: N044226
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044226-001A	MW-60BR-245-Q121	Groundwater	2/18/2021 7:51:00 AM	2/18/2021	3/4/2021
N044226-001B	MW-60BR-245-Q121	Groundwater	2/18/2021 7:51:00 AM	2/18/2021	3/4/2021
N044226-001C	MW-60BR-245-Q121	Groundwater	2/18/2021 7:51:00 AM	2/18/2021	3/4/2021
N044226-001D	MW-60BR-245-Q121	Groundwater	2/18/2021 7:51:00 AM	2/18/2021	3/4/2021
N044226-002A	MW-64BR-Q121	Groundwater	2/18/2021 8:41:00 AM	2/18/2021	3/4/2021
N044226-002B	MW-64BR-Q121	Groundwater	2/18/2021 8:41:00 AM	2/18/2021	3/4/2021
N044226-002C	MW-64BR-Q121	Groundwater	2/18/2021 8:41:00 AM	2/18/2021	3/4/2021
N044226-002D	MW-64BR-Q121	Groundwater	2/18/2021 8:41:00 AM	2/18/2021	3/4/2021
N044226-003A	MW-72BR-200-Q121	Groundwater	2/18/2021 9:29:00 AM	2/18/2021	3/4/2021
N044226-003B	MW-72BR-200-Q121	Groundwater	2/18/2021 9:29:00 AM	2/18/2021	3/4/2021
N044226-003C	MW-72BR-200-Q121	Groundwater	2/18/2021 9:29:00 AM	2/18/2021	3/4/2021
N044226-003D	MW-72BR-200-Q121	Groundwater	2/18/2021 9:29:00 AM	2/18/2021	3/4/2021
N044226-004A	MW-72-080-Q121	Groundwater	2/18/2021 10:11:00 AM	2/18/2021	3/4/2021
N044226-004B	MW-72-080-Q121	Groundwater	2/18/2021 10:11:00 AM	2/18/2021	3/4/2021
N044226-004C	MW-72-080-Q121	Groundwater	2/18/2021 10:11:00 AM	2/18/2021	3/4/2021
N044226-004D	MW-72-080-Q121	Groundwater	2/18/2021 10:11:00 AM	2/18/2021	3/4/2021
N044226-005A	MW-73-080-Q121	Groundwater	2/18/2021 10:47:00 AM	2/18/2021	3/4/2021
N044226-005B	MW-73-080-Q121	Groundwater	2/18/2021 10:47:00 AM	2/18/2021	3/4/2021
N044226-005C	MW-73-080-Q121	Groundwater	2/18/2021 10:47:00 AM	2/18/2021	3/4/2021
N044226-005D	MW-73-080-Q121	Groundwater	2/18/2021 10:47:00 AM	2/18/2021	3/4/2021
N044226-006A	MW-63-065-Q121	Groundwater	2/18/2021 1:07:00 PM	2/18/2021	3/4/2021
N044226-006B	MW-63-065-Q121	Groundwater	2/18/2021 1:07:00 PM	2/18/2021	3/4/2021
N044226-006C	MW-63-065-Q121	Groundwater	2/18/2021 1:07:00 PM	2/18/2021	3/4/2021
N044226-006D	MW-63-065-Q121	Groundwater	2/18/2021 1:07:00 PM	2/18/2021	3/4/2021
N044226-007A	MW-62-065-Q121	Groundwater	2/18/2021 2:07:00 PM	2/18/2021	3/4/2021
N044226-007B	MW-62-065-Q121	Groundwater	2/18/2021 2:07:00 PM	2/18/2021	3/4/2021
N044226-007C	MW-62-065-Q121	Groundwater	2/18/2021 2:07:00 PM	2/18/2021	3/4/2021
N044226-007D	MW-62-065-Q121	Groundwater	2/18/2021 2:07:00 PM	2/18/2021	3/4/2021
N044226-008A	EB-792-Q121	Groundwater	2/18/2021 2:17:00 PM	2/18/2021	3/4/2021

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60BR-245-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 7:51:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	17000	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-64BR-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 8:41:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	13000	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044226
Project: PG&E Topock - GMP, 30035275
Lab ID: N044226-003

Client Sample ID: MW-72BR-200-Q121
Collection Date: 2/18/2021 9:29:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
EPA 120.1							
RunID: **NV00922-WC_210219C** QC Batch: **R150841** PrepDate: Analyst: **LR**							
Specific Conductance	15000	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-72-080-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 10:11:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	15000	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-73-080-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 10:47:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	8800	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-63-065-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 1:07:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	7200	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-065-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 2:07:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	6200	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044226
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID **N044226-001BDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150841**
Client ID: **ZZZZZZ** Batch ID: **R150841** TestNo: **EPA 120.1** Analysis Date: **2/19/2021** SeqNo: **4111610**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	17120.000	0.10						17100	0.117	2	

Sample ID **N044229-004DDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150841**
Client ID: **ZZZZZZ** Batch ID: **R150841** TestNo: **EPA 120.1** Analysis Date: **2/19/2021** SeqNo: **4111621**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	846.000	0.10						849.0	0.354	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60BR-245-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 7:51:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210222A** QC Batch: **R150915** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	22	0.17	1.0		µg/L	5	2/22/2021 11:16 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85321** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	23	0.13	1.0		µg/L	1	2/19/2021 08:51 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-64BR-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 8:41:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **NV00922-IC7_210222A**	QC Batch: **R150915**			PrepDate:			Analyst: **RAB**
Hexavalent Chromium	ND	0.17	1.0		µg/L	5	2/22/2021 01:00 PM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85321**			PrepDate:		**2/19/2021**	Analyst: **CEI**
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 10:03 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-72BR-200-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 9:29:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **NV00922-IC7_210222A**	QC Batch: **R150915**			PrepDate:			Analyst: **RAB**
Hexavalent Chromium	ND	0.17	1.0		µg/L	5	2/22/2021 01:19 PM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85321**			PrepDate:		**2/19/2021**	Analyst: **CEI**
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 10:15 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044226
Project: PG&E Topock - GMP, 30035275
Lab ID: N044226-004

Client Sample ID: MW-72-080-Q121
Collection Date: 2/18/2021 10:11:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210222A** QC Batch: **R150915** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	70	0.66	4.0		µg/L	20	2/22/2021 11:26 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85321** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	72	0.13	1.0		µg/L	1	2/19/2021 10:27 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-73-080-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 10:47:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210222A** QC Batch: **R150915** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	11	0.17	1.0		µg/L	5	2/22/2021 11:35 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85321** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	12	0.13	1.0		µg/L	1	2/19/2021 10:39 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044226
Project: PG&E Topock - GMP, 30035275
Lab ID: N044226-006

Client Sample ID: MW-63-065-Q121
Collection Date: 2/18/2021 1:07:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210222A** QC Batch: **R150915** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	1.2	0.033	0.20		µg/L	1	2/22/2021 11:45 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85321** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	3.1	0.13	1.0		µg/L	1	2/19/2021 11:03 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-065-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 2:07:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210222A** QC Batch: **R150915** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	530	3.3	20		µg/L	100	2/22/2021 11:54 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85321** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	580	0.65	5.0		µg/L	5	2/19/2021 11:21 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	EB-792-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 2:17:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210222A** QC Batch: **R150915** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/22/2021 05:14 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044226
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **MB-R150915** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **PBW** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116128**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID **LCS-R150915** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **LCSW** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116129**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.823	0.20	5.000	0	96.5	90	110				

Sample ID **N044227-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116131**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5157.700	100	2500	2674	99.4	90	110				

Sample ID **N044227-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116133**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2759.540	40	1000	1800	96.0	90	110				

Sample ID **N044227-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116135**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5678.300	100	2500	3225	98.1	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044226
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044227-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116137**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1176.650	20	500.0	684.9	98.4	90	110				

Sample ID **N044227-001AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116140**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5150.050	100	2500	2674	99.1	90	110	5158	0.148	20	

Sample ID **N044226-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116153**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.663	1.0	5.000	0	93.3	90	110				

Sample ID **N044226-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116155**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.981	1.0	5.000	0	99.6	90	110				

Sample ID **N044226-006ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116156**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.249	0.20						1.235	1.18	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044226
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044226-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116157**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.199	0.20	1.000	1.235	96.4	90	110				

Sample ID **N044227-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116159**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4710.150	100	2500	2293	96.7	90	110				

Sample ID **N044227-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116161**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	10208.700	200	5000	5449	95.2	90	110				

Sample ID **N044227-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116165**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2762.680	40	1000	1791	97.1	90	110				

Sample ID **N044226-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	46.420	1.0	25.00	21.51	99.6	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044226
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044226-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	168.104	4.0	100.0	69.51	98.6	90	110				

Sample ID **N044226-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116168**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	35.825	1.0	25.00	10.79	100	90	110				

Sample ID **N044226-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116169**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1027.360	20	500.0	526.4	100	90	110				

Sample ID **N044235-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116170**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	56.085	1.0	25.00	32.03	96.2	90	110				

Sample ID **N044235-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116171**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.022	0.20	5.000	3.267	95.1	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044226
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044235-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116172**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	3.303	0.20	1.000	2.315	98.9	90	110				

Sample ID **N044235-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116173**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	135.043	2.0	50.00	86.47	97.1	90	110				

Sample ID **N044235-001AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116176**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	56.283	1.0	25.00	32.03	97.0	90	110	56.08	0.352	20	

Sample ID **N044226-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150915**
Client ID: **ZZZZZZ** Batch ID: **R150915** TestNo: **EPA 218.6** Analysis Date: **2/22/2021** SeqNo: **4116178**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.948	0.20	1.000	0	94.8	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044226
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID **MB-85321** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **PBW** Batch ID: **85321** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115586**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID **LCS-85321** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **LCSW** Batch ID: **85321** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.931	1.0	10.00	0	99.3	85	115				

Sample ID **N044226-001D-MS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **ZZZZZZ** Batch ID: **85321** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115593**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	30.135	1.0	10.00	22.82	73.2	75	125				S

Sample ID **N044226-001D-MSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **ZZZZZZ** Batch ID: **85321** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	30.158	1.0	10.00	22.82	73.4	75	125	30.14	0.0750	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044226
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID	**N044226-001D-PS**	SampType:	**PS**	TestCode:	**6020DIS_CrP**	Units:	**µg/L**	Prep Date:				RunNo:	**150899**
Client ID:	**ZZZZZZ**	Batch ID:	**85321**	TestNo:	**EPA 6020**		**EPA 3010A**	Analysis Date:	**2/19/2021**			SeqNo:	**4115591**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	29.837	1.0	10.00	22.82	70.2	80	120				S

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60BR-245-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 7:51:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224A** QC Batch: **R150952** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.25	0.032	0.050		mg/L	1	2/24/2021 04:33 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-64BR-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 8:41:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224A** QC Batch: **R150952** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.075	0.032	0.050		mg/L	1	2/24/2021 04:38 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-72BR-200-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 9:29:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224B** QC Batch: **R150975** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	ND	0.032	0.050		mg/L	1	2/24/2021 10:40 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-72-080-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 10:11:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224B** QC Batch: **R150975** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	1.0	0.032	0.050		mg/L	1	2/24/2021 09:06 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-73-080-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 10:47:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224B** QC Batch: **R150975** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	3.4	0.16	0.25		mg/L	5	2/24/2021 09:16 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-63-065-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 1:07:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224B** QC Batch: **R150975** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	1.4	0.063	0.10		mg/L	2	2/24/2021 09:11 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-065-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 2:07:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210224B** QC Batch: **R150975** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	4.8	0.16	0.25		mg/L	5	2/24/2021 10:45 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044226
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID **MB-R150952** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150952**
Client ID: **PBW** Batch ID: **R150952** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4117819**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID **LCS-R150952** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150952**
Client ID: **LCSW** Batch ID: **R150952** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4117820**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.497	0.050	0.5000	0	99.5	85	115				

Sample ID **N044209-005EDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150952**
Client ID: **ZZZZZZ** Batch ID: **R150952** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4117822**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.425	0.050						0.4304	1.38	20	

Sample ID **N044209-005EMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150952**
Client ID: **ZZZZZZ** Batch ID: **R150952** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4117823**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.999	0.050	0.5000	0.4304	114	75	125				

Sample ID **N044209-005EMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150952**
Client ID: **ZZZZZZ** Batch ID: **R150952** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4117824**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.948	0.050	0.5000	0.4304	104	75	125	0.9993	5.28	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044226
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID **MB-R150975** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150975**
Client ID: **PBW** Batch ID: **R150975** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4118861**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID **LCS-R150975** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150975**
Client ID: **LCSW** Batch ID: **R150975** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4118862**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.491	0.050	0.5000	0	98.1	85	115				

Sample ID **N044228-001BDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150975**
Client ID: **ZZZZZZ** Batch ID: **R150975** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4118864**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	10.580	1.0						10.48	0.912	20	

Sample ID **N044228-001BMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150975**
Client ID: **ZZZZZZ** Batch ID: **R150975** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4118865**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	20.900	1.0	10.00	10.48	104	75	125				

Sample ID **N044228-001BMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150975**
Client ID: **ZZZZZZ** Batch ID: **R150975** TestNo: **SM4500-NO3** Analysis Date: **2/24/2021** SeqNo: **4118866**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	22.488	1.0	10.00	10.48	120	75	125	20.90	7.32	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-60BR-245-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 7:51:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85321**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	5.6	0.081	0.10		µg/L	1	2/19/2021 08:51 PM
Manganese	1.5	0.26	0.50		µg/L	1	2/19/2021 08:51 PM
Molybdenum	70	0.21	0.50		µg/L	1	2/19/2021 08:51 PM
Selenium	3.1	0.36	0.50		µg/L	1	2/19/2021 08:51 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-64BR-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 8:41:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85321**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	1.9	0.081	0.10		µg/L	1	2/19/2021 10:03 PM
Manganese	1000	6.4	12		µg/L	25	2/23/2021 02:26 PM
Molybdenum	65	0.21	0.50		µg/L	1	2/19/2021 10:03 PM
Selenium	ND	0.36	0.50		µg/L	1	2/19/2021 10:03 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-72BR-200-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 9:29:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85321**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	14	0.081	0.10		µg/L	1	2/19/2021 10:15 PM
Manganese	120	0.26	0.50		µg/L	1	2/19/2021 10:15 PM
Molybdenum	79	0.21	0.50		µg/L	1	2/19/2021 10:15 PM
Selenium	ND	0.36	0.50		µg/L	1	2/19/2021 10:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-72-080-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 10:11:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85321**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	11	0.081	0.10		µg/L	1	2/19/2021 10:27 PM
Manganese	120	0.26	0.50		µg/L	1	2/19/2021 10:27 PM
Molybdenum	82	0.21	0.50		µg/L	1	2/19/2021 10:27 PM
Selenium	1.8	0.36	0.50		µg/L	1	2/23/2021 02:32 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-73-080-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 10:47:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85321**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	2.0	0.081	0.10		µg/L	1	2/19/2021 10:39 PM
Manganese	6.8	0.26	0.50		µg/L	1	2/19/2021 10:39 PM
Molybdenum	37	0.21	0.50		µg/L	1	2/19/2021 10:39 PM
Selenium	4.3	0.36	0.50		µg/L	1	2/23/2021 02:38 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-63-065-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 1:07:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85321**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	1.6	0.081	0.10		µg/L	1	2/19/2021 11:03 PM
Manganese	6.0	0.26	0.50		µg/L	1	2/19/2021 11:03 PM
Molybdenum	17	0.21	0.50		µg/L	1	2/19/2021 11:03 PM
Selenium	0.93	0.36	0.50		µg/L	1	2/23/2021 02:51 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-62-065-Q121
Lab Order:	N044226	**Collection Date:**	2/18/2021 2:07:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044226-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85321**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	1.5	0.081	0.10		µg/L	1	2/19/2021 11:15 PM
Manganese	3.4	0.26	0.50		µg/L	1	2/19/2021 11:15 PM
Molybdenum	14	0.21	0.50		µg/L	1	2/19/2021 11:15 PM
Selenium	3.8	0.36	0.50		µg/L	1	2/19/2021 11:15 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044226
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **MB-85321** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **PBW** Batch ID: **85321** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115663**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID **LCS-85321** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **LCSW** Batch ID: **85321** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115664**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.169	0.10	10.00	0	102	85	115				
Manganese	101.784	0.50	100.0	0	102	85	115				
Molybdenum	10.018	0.50	10.00	0	100	85	115				
Selenium	9.520	0.50	10.00	0	95.2	85	115				

Sample ID **N044226-001D-MS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **ZZZZZZ** Batch ID: **85321** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115670**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	16.144	0.10	10.00	5.642	105	75	125				
Manganese	90.684	0.50	100.0	1.462	89.2	75	125				
Molybdenum	76.636	0.50	10.00	69.64	70.0	75	125				S
Selenium	12.146	0.50	10.00	3.090	90.6	75	125				

Sample ID **N044226-001D-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **ZZZZZZ** Batch ID: **85321** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115676**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	16.049	0.10	10.00	5.642	104	75	125	16.14	0.589	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044226
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **N044226-001D-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **ZZZZZZ** Batch ID: **85321** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115676**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	90.271	0.50	100.0	1.462	88.8	75	125	90.68	0.457	20	
Molybdenum	76.435	0.50	10.00	69.64	68.0	75	125	76.64	0.262	20	S
Selenium	11.754	0.50	10.00	3.090	86.6	75	125	12.15	3.28	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044226
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID	N044226-001D-PS	SampType:	PS	TestCode:	6020_DIS_TP	Units:	µg/L	Prep Date:		RunNo:	150899
Client ID:	ZZZZZZ	Batch ID:	85321	TestNo:	EPA 6020	EPA 3010A		Analysis Date:	2/19/2021	SeqNo:	4115668

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	16.203	0.10	10.00	5.642	106	80	120				
Manganese	90.166	0.50	100.0	1.462	88.7	80	120				
Molybdenum	75.943	0.50	10.00	69.64	63.1	80	120				S
Selenium	12.163	0.50	10.00	3.090	90.7	80	120				

Qualifiers:

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

N044226

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Page 1 of 1

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes	EDD Requirement
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:	Excel EDD
Address: Roseville, CA 95661	Email: dan.bush@arcadis.com, daniel.moore@critigen.com	Address:	Geotracker
Phone: 916-786-3302 / Fax:	Address: 1410 Rocky Ridge Dr # 330, Roseville, CA 95661	Email to: mbloes@pivox.com	Labspec
Submitted By: Reggie Tep		P.O.# SWA-ASSET-C9817-057	Others ✓
Title: Field Tech	Phone: 916-786-3302 / Fax:	Phone: 949-727-1400, ext 200 / Fax:	Specify: RWQCB
Signature: Date: 2/18/21	Sampled By: Reggie Tep		Global ID:
I hereby authorize ASSET Labs to perform the tests indicated below.	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.		
Project Name: PG&E Topock - GMP	Signature: / Date: 2/18/21		
Project Number: 30035275			

QA/QC	
RTNE	
RWQCB	✓
CalTrans	
LEVEL III	
LEVEL IV	
Regulatory	
Specify State:	

Sample Receipt Condition	Y	N
1. Chilled	✓	
2. Headspace		
3. Container Intact	✓	
4. Seal Present		✓
5. IR number	2	
6. Method of Cooling: ICE		
Sample Temp: 4.2°C / 3.3°C		
Courier: ASSET		
Tracking No.:		

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 mL poly)	Oxygen and Deuterium Isotopes (CFIRM), Ice (250 mL poly)	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (3x250 mL poly)	Alkalinity, Total as CaCO3 (SM2320B) (1 liter poly)	Bromide, Sulfate, Chloride (EPA 300.0) (1 liter poly)	Fluoride (EPA 300.0) (1 liter poly)	Specific Conductance (EPA 120.1) (1 liter poly)	Total Dissolved Solids (SM92540) (1 liter poly)	Nitrate/Nitrite (SM4500NO3) Nitrate; H2SO4 (125 mL poly)	Total Organic Carbon (SM5310C); H2SO4 (3x40 mL poly)	Metals Dissolved (EPA7470A FF) Hg; HNO3 (500 mL poly)	Dissolved Metals (SW 6010B); HNO3 Potassium (500 mL poly)	Dissolved metals (SW 6010B), HNO3 B, Ca, Fe, Na (500 mL poly)	Dissolved metals (SW 6020), HNO3 As, Cr, Mn, Mo, Se (500 mL poly)	Dissolved metals (SW 6010B), HNO3 B, Ca, Cu, Fe, Na, Ni (500 mL poly)	Dissolved metals (SW 6020), HNO3 Ag, As, Ba, Be, Cd, Co, Cr, Mg, Mn, Mo, Pb, Sb, Se, Tl, V, Zn (500 mL poly)	Dissolved metals (SW 6010B), HNO3 Cr, Mo, Se (500 mL poly)	Dissolved metals (SW 6020), HNO3 Cr (500 mL poly)	Total metals, Chromium (non-filter) (EPA 200.8), HNO3 (500 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N044226-01	MW-60BR-245-Q121	2/18/2021	7:51		X						X		X					X							E	4	P	BNS	
2	-02	MW-64BR-Q121	2/18/2021	8:41		X						X		X					X							E	4	P	BNS	
3	-03	MW-72BR-200-Q121	2/18/2021	9:29		X						X		X					X							E	4	P	BNS	
4	-04	MW-72-080-Q121	2/18/2021	10:11		X						X		X					X							E	4	P	BNS	
5	-05	MW-73-080-Q121	2/18/2021	10:47		X						X		X					X							E	4	P	BNS	
6	-06	MW-63-065-Q121	2/18/2021	13:07		X						X		X					X							E	4	P	BNS	
7	-07	MW-62-065-Q121	2/18/2021	14:07		X						X		X					X							E	4	P	BNS	
8	-08	EB-792-Q121	2/18/2021	14:17		X																				E	1	P	BNS	
9																														
10																														
11																														
12																														

Relinquished by (Signature and Printed Name):	Date/Time:	Received by (Signature and Printed Name):	Date/Time:
Reggie Tep	2/18/21 1645	ROMEO ALCANTARA	2/18/21 1647
Relinquished by (Signature and Printed Name):	Date/Time:	Received by (Signature and Printed Name):	Date/Time:
REL / REC		ROMEO ALCANTARA	2/18/21 1924
Relinquished by (Signature and Printed Name):	Date/Time:	Received by (Signature and Printed Name):	Date/Time:

Turn Around Time (TAT)

- [ ] A = < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
- [ ] D = 3 Workdays
- [x] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Title 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
   Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:			
H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=$Zn(AC)_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B	(NH4)2SO4/NH4OH	

Container Type:		
T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	2/18/2021	Workorder:	N044226
Rep sample Temp (Deg C):	4.2/3.3	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments:

MBC 02/19/2021

Checklist Completed By: BHN BHdez 2/19/2021

Reviewed By: _____

ASSET Laboratories

WORK ORDER Summary

19-Feb-21

WorkOrder: N044226

Client ID: ARCUS02

Project: PG&E Topock - GMP, 30035275 **QC Level:** Level IV **Date Received:** 2/18/2021

Comments: Title 22 Metals Dissolved- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044226-001A	MW-60BR-245-Q121	2/18/2021 7:51:00 AM	3/4/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044226-001B			3/4/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N044226-001C			3/4/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044226-001D			3/4/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/4/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/4/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044226-002A	MW-64BR-Q121	2/18/2021 8:41:00 AM	3/4/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044226-002B			3/4/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N044226-002C			3/4/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044226-002D			3/4/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/4/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/4/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044226-003A	MW-72BR-200-Q121	2/18/2021 9:29:00 AM	3/4/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044226-003B			3/4/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N044226-003C			3/4/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044226-003D			3/4/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/4/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/4/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044226-004A	MW-72-080-Q121	2/18/2021 10:11:00 AM	3/4/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044226-004B			3/4/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N044226-004C			3/4/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

19-Feb-21

WorkOrder: N044226

Client ID: ARCUS02

Project: PG&E Topock - GMP, 30035275 **QC Level:** Level IV **Date Received:** 2/18/2021

Comments: Title 22 Metals Dissolved- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044226-004D	MW-72-080-Q121	2/18/2021 10:11:00 AM	3/4/2021	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/4/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/4/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044226-005A	MW-73-080-Q121	2/18/2021 10:47:00 AM	3/4/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044226-005B			3/4/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N044226-005C			3/4/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044226-005D			3/4/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/4/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/4/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044226-006A	MW-63-065-Q121	2/18/2021 1:07:00 PM	3/4/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044226-006B			3/4/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N044226-006C			3/4/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044226-006D			3/4/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/4/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/4/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044226-007A	MW-62-065-Q121	2/18/2021 2:07:00 PM	3/4/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044226-007B			3/4/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N044226-007C			3/4/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044226-007D			3/4/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/4/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/4/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI

ASSET Laboratories

WORK ORDER Summary

19-Feb-21

WorkOrder: N044226

Client ID: ARCUS02

Project: PG&E Topock - GMP, 30035275 **QC Level:** Level IV **Date Received:** 2/18/2021

Comments: Title 22 Metals Dissolved- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044226-008A	EB-792-Q121	2/18/2021 2:17:00 PM	3/4/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044226-009A	FOLDER	3/4/2021	3/4/2021		EDD	Client specific project	☐	☐	☐	LAB
			3/4/2021		Folder	Folder	☐	☐	☐	LAB
			3/4/2021		Folder	Level IV Report	☐	☐	☐	LAB
			3/4/2021		Folder	Folder	☐	☐	☐	LAB

March 04, 2021

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N044229

RE: PG&E Topock - RMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on February 18, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

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

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time except for pH. pH testing is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Analytical Comments for EPA 6010B_Dissolved:

Matrix Spike Duplicate (MSD) is outside recovery criteria for Iron in QC sample N044229-005BMSD possibly due to matrix interference. Post Spike (PS) passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 6010B_Total:

Matrix Spike Duplicate (MSD) is outside recovery and RPD criteria for Iron in QC sample N044229-005CMSD possibly due to matrix interference. Post Spike (PS) passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 6020_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Barium in QC samples N044229-005B-MS and N044229-005B-MSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for SM 2540D:

RPD for Sample Duplicate N044229-009DDUP is outside criteria.

ASSET Laboratories

Date: *04-Mar-21*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.801D
Lab Order: N044229
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044229-001A	C-CON-D-0221	Groundwater	2/18/2021 9:40:00 AM	2/18/2021	3/4/2021
N044229-001B	C-CON-D-0221	Groundwater	2/18/2021 9:40:00 AM	2/18/2021	3/4/2021
N044229-001C	C-CON-D-0221	Groundwater	2/18/2021 9:40:00 AM	2/18/2021	3/4/2021
N044229-001D	C-CON-D-0221	Groundwater	2/18/2021 9:40:00 AM	2/18/2021	3/4/2021
N044229-001E	C-CON-D-0221	Groundwater	2/18/2021 9:40:00 AM	2/18/2021	3/4/2021
N044229-002A	C-CON-S-0221	Groundwater	2/18/2021 9:55:00 AM	2/18/2021	3/4/2021
N044229-002B	C-CON-S-0221	Groundwater	2/18/2021 9:55:00 AM	2/18/2021	3/4/2021
N044229-002C	C-CON-S-0221	Groundwater	2/18/2021 9:55:00 AM	2/18/2021	3/4/2021
N044229-002D	C-CON-S-0221	Groundwater	2/18/2021 9:55:00 AM	2/18/2021	3/4/2021
N044229-002E	C-CON-S-0221	Groundwater	2/18/2021 9:55:00 AM	2/18/2021	3/4/2021
N044229-003A	C-NR4-S-0221	Groundwater	2/18/2021 11:50:00 AM	2/18/2021	3/4/2021
N044229-003B	C-NR4-S-0221	Groundwater	2/18/2021 11:50:00 AM	2/18/2021	3/4/2021
N044229-003C	C-NR4-S-0221	Groundwater	2/18/2021 11:50:00 AM	2/18/2021	3/4/2021
N044229-003D	C-NR4-S-0221	Groundwater	2/18/2021 11:50:00 AM	2/18/2021	3/4/2021
N044229-003E	C-NR4-S-0221	Groundwater	2/18/2021 11:50:00 AM	2/18/2021	3/4/2021
N044229-004A	C-NR1-D-0221	Groundwater	2/18/2021 10:25:00 AM	2/18/2021	3/4/2021
N044229-004B	C-NR1-D-0221	Groundwater	2/18/2021 10:25:00 AM	2/18/2021	3/4/2021
N044229-004C	C-NR1-D-0221	Groundwater	2/18/2021 10:25:00 AM	2/18/2021	3/4/2021
N044229-004D	C-NR1-D-0221	Groundwater	2/18/2021 10:25:00 AM	2/18/2021	3/4/2021
N044229-004E	C-NR1-D-0221	Groundwater	2/18/2021 10:25:00 AM	2/18/2021	3/4/2021
N044229-005A	C-NR1-S-0221	Groundwater	2/18/2021 10:40:00 AM	2/18/2021	3/4/2021
N044229-005B	C-NR1-S-0221	Groundwater	2/18/2021 10:40:00 AM	2/18/2021	3/4/2021
N044229-005C	C-NR1-S-0221	Groundwater	2/18/2021 10:40:00 AM	2/18/2021	3/4/2021
N044229-005D	C-NR1-S-0221	Groundwater	2/18/2021 10:40:00 AM	2/18/2021	3/4/2021
N044229-005E	C-NR1-S-0221	Groundwater	2/18/2021 10:40:00 AM	2/18/2021	3/4/2021
N044229-006A	C-NR3-D-0221	Groundwater	2/18/2021 11:05:00 AM	2/18/2021	3/4/2021
N044229-006B	C-NR3-D-0221	Groundwater	2/18/2021 11:05:00 AM	2/18/2021	3/4/2021
N044229-006C	C-NR3-D-0221	Groundwater	2/18/2021 11:05:00 AM	2/18/2021	3/4/2021
N044229-006D	C-NR3-D-0221	Groundwater	2/18/2021 11:05:00 AM	2/18/2021	3/4/2021

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.801D
Lab Order: N044229
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044229-006E	C-NR3-D-0221	Groundwater	2/18/2021 11:05:00 AM	2/18/2021	3/4/2021
N044229-007A	C-MAR-D-0221	Groundwater	2/18/2021 8:05:00 AM	2/18/2021	3/4/2021
N044229-007B	C-MAR-D-0221	Groundwater	2/18/2021 8:05:00 AM	2/18/2021	3/4/2021
N044229-007C	C-MAR-D-0221	Groundwater	2/18/2021 8:05:00 AM	2/18/2021	3/4/2021
N044229-007D	C-MAR-D-0221	Groundwater	2/18/2021 8:05:00 AM	2/18/2021	3/4/2021
N044229-007E	C-MAR-D-0221	Groundwater	2/18/2021 8:05:00 AM	2/18/2021	3/4/2021
N044229-008A	C-MAR-S-0221	Groundwater	2/18/2021 8:15:00 AM	2/18/2021	3/4/2021
N044229-008B	C-MAR-S-0221	Groundwater	2/18/2021 8:15:00 AM	2/18/2021	3/4/2021
N044229-008C	C-MAR-S-0221	Groundwater	2/18/2021 8:15:00 AM	2/18/2021	3/4/2021
N044229-008D	C-MAR-S-0221	Groundwater	2/18/2021 8:15:00 AM	2/18/2021	3/4/2021
N044229-008E	C-MAR-S-0221	Groundwater	2/18/2021 8:15:00 AM	2/18/2021	3/4/2021
N044229-009A	C-NR3-S-0221	Groundwater	2/18/2021 11:20:00 AM	2/18/2021	3/4/2021
N044229-009B	C-NR3-S-0221	Groundwater	2/18/2021 11:20:00 AM	2/18/2021	3/4/2021
N044229-009C	C-NR3-S-0221	Groundwater	2/18/2021 11:20:00 AM	2/18/2021	3/4/2021
N044229-009D	C-NR3-S-0221	Groundwater	2/18/2021 11:20:00 AM	2/18/2021	3/4/2021
N044229-009E	C-NR3-S-0221	Groundwater	2/18/2021 11:20:00 AM	2/18/2021	3/4/2021
N044229-010A	R-19-0221	Groundwater	2/18/2021 8:50:00 AM	2/18/2021	3/4/2021
N044229-010B	R-19-0221	Groundwater	2/18/2021 8:50:00 AM	2/18/2021	3/4/2021
N044229-010C	R-19-0221	Groundwater	2/18/2021 8:50:00 AM	2/18/2021	3/4/2021
N044229-010D	R-19-0221	Groundwater	2/18/2021 8:50:00 AM	2/18/2021	3/4/2021
N044229-010E	R-19-0221	Groundwater	2/18/2021 8:50:00 AM	2/18/2021	3/4/2021
N044229-011A	RRB-0221	Groundwater	2/18/2021 9:15:00 AM	2/18/2021	3/4/2021
N044229-011B	RRB-0221	Groundwater	2/18/2021 9:15:00 AM	2/18/2021	3/4/2021
N044229-011C	RRB-0221	Groundwater	2/18/2021 9:15:00 AM	2/18/2021	3/4/2021
N044229-011D	RRB-0221	Groundwater	2/18/2021 9:15:00 AM	2/18/2021	3/4/2021
N044229-011E	RRB-0221	Groundwater	2/18/2021 9:15:00 AM	2/18/2021	3/4/2021
N044229-012A	MW-908-0221	Groundwater	2/18/2021 8:25:00 AM	2/18/2021	3/4/2021
N044229-012B	MW-908-0221	Groundwater	2/18/2021 8:25:00 AM	2/18/2021	3/4/2021
N044229-012C	MW-908-0221	Groundwater	2/18/2021 8:25:00 AM	2/18/2021	3/4/2021
N044229-012D	MW-908-0221	Groundwater	2/18/2021 8:25:00 AM	2/18/2021	3/4/2021

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.801D
Lab Order: N044229
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044229-012E	MW-908-0221	Groundwater	2/18/2021 8:25:00 AM	2/18/2021	3/4/2021
N044229-013A	AmbientBlank-3-0221	Groundwater	2/18/2021 12:00:00 PM	2/18/2021	3/4/2021
N044229-014A	C-NR4-D-0221	Groundwater	2/18/2021 11:35:00 AM	2/18/2021	3/4/2021
N044229-014B	C-NR4-D-0221	Groundwater	2/18/2021 11:35:00 AM	2/18/2021	3/4/2021
N044229-014C	C-NR4-D-0221	Groundwater	2/18/2021 11:35:00 AM	2/18/2021	3/4/2021
N044229-014D	C-NR4-D-0221	Groundwater	2/18/2021 11:35:00 AM	2/18/2021	3/4/2021
N044229-014E	C-NR4-D-0221	Groundwater	2/18/2021 11:35:00 AM	2/18/2021	3/4/2021
N044229-015A	MW-907-0221	Groundwater	2/18/2021 10:05:00 AM	2/18/2021	3/4/2021
N044229-015B	MW-907-0221	Groundwater	2/18/2021 10:05:00 AM	2/18/2021	3/4/2021
N044229-015C	MW-907-0221	Groundwater	2/18/2021 10:05:00 AM	2/18/2021	3/4/2021
N044229-015D	MW-907-0221	Groundwater	2/18/2021 10:05:00 AM	2/18/2021	3/4/2021
N044229-015E	MW-907-0221	Groundwater	2/18/2021 10:05:00 AM	2/18/2021	3/4/2021

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	890	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044229
Project: PG&E Topock - RMP, RC000753.801D
Lab ID: N044229-002

Client Sample ID: C-CON-S-0221
Collection Date: 2/18/2021 9:55:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
EPA 120.1							
RunID: **NV00922-WC_210219C** QC Batch: **R150841** PrepDate: Analyst: **LR**							
Specific Conductance	860	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044229
Project: PG&E Topock - RMP, RC000753.801D
Lab ID: N044229-003

Client Sample ID: C-NR4-S-0221
Collection Date: 2/18/2021 11:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
EPA 120.1							
RunID: **NV00922-WC_210219C** QC Batch: **R150841** PrepDate: Analyst: **LR**							
Specific Conductance	850	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	850	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	830	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	850	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	870	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:15:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	860	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:20:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	850	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	850	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:15:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	870	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-908-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	860	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:35:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219C**	QC Batch: **R150841**			PrepDate:			Analyst: **LR**
Specific Conductance	870	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-907-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219D**	QC Batch: **R150842**			PrepDate:			Analyst: **LR**
Specific Conductance	890	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N044226-001BDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150841**
Client ID: **ZZZZZZ** Batch ID: **R150841** TestNo: **EPA 120.1** Analysis Date: **2/19/2021** SeqNo: **4111610**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	17120.000	0.10						17100	0.117	2	

Sample ID: **N044229-004DDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150841**
Client ID: **ZZZZZZ** Batch ID: **R150841** TestNo: **EPA 120.1** Analysis Date: **2/19/2021** SeqNo: **4111621**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	846.000	0.10						849.0	0.354	2	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N044237-002BDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150842**
Client ID: **ZZZZZZ** Batch ID: **R150842** TestNo: **EPA 120.1** Analysis Date: **2/19/2021** SeqNo: **4111634**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	5040.000	0.10						5060	0.396	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
SM4500-H+B							
RunID: **NV00922-WC_210219B** QC Batch: **R150840** PrepDate: Analyst: **LR**							
pH	8.0	0.10	0.10	H	pH Units	1	2/19/2021 04:15 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/19/2021 04:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:55:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210219B**	QC Batch: **R150840**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	2/19/2021 04:15 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/19/2021 04:15 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044229
Project: PG&E Topock - RMP, RC000753.801D
Lab ID: N044229-003

Client Sample ID: C-NR4-S-0221
Collection Date: 2/18/2021 11:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
SM4500-H+B							
RunID: **NV00922-WC_210219B** QC Batch: **R150840** PrepDate: Analyst: **LR**							
pH	8.0	0.10	0.10	H	pH Units	1	2/19/2021 04:15 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/19/2021 04:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210219B**	QC Batch: **R150840**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	2/19/2021 04:15 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/19/2021 04:15 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044229
Project: PG&E Topock - RMP, RC000753.801D
Lab ID: N044229-005

Client Sample ID: C-NR1-S-0221
Collection Date: 2/18/2021 10:40:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
SM4500-H+B							
RunID: **NV00922-WC_210219B** QC Batch: **R150840** PrepDate: Analyst: **LR**							
pH	8.0	0.10	0.10	H	pH Units	1	2/19/2021 04:15 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/19/2021 04:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210219B**	QC Batch: **R150840**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	2/19/2021 04:15 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/19/2021 04:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210219B**	QC Batch: **R150840**			PrepDate:			Analyst: **LR**
pH	8.1	0.10	0.10	H	pH Units	1	2/19/2021 04:15 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/19/2021 04:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:15:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210219B**	QC Batch: **R150840**			PrepDate:			Analyst: **LR**
pH	8.1	0.10	0.10	H	pH Units	1	2/19/2021 04:15 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/19/2021 04:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:20:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210219B**	QC Batch: **R150840**			PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	2/19/2021 04:15 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/19/2021 04:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210219B**	QC Batch: **R150840**			PrepDate:			Analyst: **LR**
pH	8.2	0.10	0.10	H	pH Units	1	2/19/2021 04:15 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/19/2021 04:15 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044229
Project: PG&E Topock - RMP, RC000753.801D
Lab ID: N044229-011

Client Sample ID: RRB-0221
Collection Date: 2/18/2021 9:15:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
SM4500-H+B							
RunID: **NV00922-WC_210219B** QC Batch: **R150840** PrepDate: Analyst: **LR**							
pH	7.9	0.10	0.10	H	pH Units	1	2/19/2021 04:15 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/19/2021 04:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-908-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210219B** QC Batch: **R150840**				PrepDate:			Analyst: **LR**
pH	8.1	0.10	0.10	H	pH Units	1	2/19/2021 04:15 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/19/2021 04:15 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044229
Project: PG&E Topock - RMP, RC000753.801D
Lab ID: N044229-014

Client Sample ID: C-NR4-D-0221
Collection Date: 2/18/2021 11:35:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210219B** QC Batch: **R150840**				PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	2/19/2021 04:15 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/19/2021 04:15 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044229
Project: PG&E Topock - RMP, RC000753.801D
Lab ID: N044229-015

Client Sample ID: MW-907-0221
Collection Date: 2/18/2021 10:05:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
SM4500-H+B							
RunID: **NV00922-WC_210219B** QC Batch: **R150840** PrepDate: Analyst: **LR**							
pH	8.0	0.10	0.10	H	pH Units	1	2/19/2021 04:15 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/19/2021 04:15 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID: **N044229-001DDUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **150840**
Client ID: **ZZZZZZ** Batch ID: **R150840** TestNo: **SM4500-H+B** Analysis Date: **2/19/2021** SeqNo: **4111594**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.980	0.10						7.950	0.377	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Sample ID: **N044229-011DDUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **150840**
Client ID: **ZZZZZZ** Batch ID: **R150840** TestNo: **SM4500-H+B** Analysis Date: **2/19/2021** SeqNo: **4111605**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.900	0.10						7.870	0.380	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210222C** QC Batch: **85363** PrepDate: **2/22/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	6.0	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:55:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210222C** QC Batch: **85363** PrepDate: **2/22/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	7.0	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210222C** QC Batch: **85363** PrepDate: **2/22/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210222C** QC Batch: **85363** PrepDate: **2/22/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	5.5	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210222C** QC Batch: **85363** PrepDate: **2/22/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210222C** QC Batch: **85363** PrepDate: **2/22/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210222C** QC Batch: **85363** PrepDate: **2/22/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	10	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:15:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210222C** QC Batch: **85363** PrepDate: **2/22/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	6.5	5.0	5.0		mg/L	1	2/22/2021 12:07 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:20:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210223B** QC Batch: **85394** PrepDate: **2/23/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	6.5	5.0	5.0		mg/L	1	2/23/2021 03:17 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210223B** QC Batch: **85394** PrepDate: **2/23/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/23/2021 03:17 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:15:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210223B** QC Batch: **85394** PrepDate: **2/23/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	6.5	5.0	5.0		mg/L	1	2/23/2021 03:17 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-908-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210223B** QC Batch: **85394** PrepDate: **2/23/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	8.5	5.0	5.0		mg/L	1	2/23/2021 03:17 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:35:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210223B** QC Batch: **85394** PrepDate: **2/23/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/23/2021 03:17 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-907-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210223B** QC Batch: **85394** PrepDate: **2/23/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/23/2021 03:17 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **LCS-85363** SampType: **LCS** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **2/22/2021** RunNo: **150882**
Client ID: **LCSW** Batch ID: **85363** TestNo: **SM2540D** Analysis Date: **2/22/2021** SeqNo: **4114547**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	970.000	10	1000	0	97.0	80	120				

Sample ID: **MB-85363** SampType: **MBLK** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **2/22/2021** RunNo: **150882**
Client ID: **PBW** Batch ID: **85363** TestNo: **SM2540D** Analysis Date: **2/22/2021** SeqNo: **4114548**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Sample ID: **N044229-005DDUP** SampType: **DUP** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **2/22/2021** RunNo: **150882**
Client ID: **ZZZZZZ** Batch ID: **85363** TestNo: **SM2540D** Analysis Date: **2/22/2021** SeqNo: **4114556**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	5.0						0	0	5	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **LCS-85394** SampType: **LCS** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **2/23/2021** RunNo: **150936**
Client ID: **LCSW** Batch ID: **85394** TestNo: **SM2540D** Analysis Date: **2/23/2021** SeqNo: **4117000**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	954.000	10	1000	0	95.4	80	120				

Sample ID: **MB-85394** SampType: **MBLK** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **2/23/2021** RunNo: **150936**
Client ID: **PBW** Batch ID: **85394** TestNo: **SM2540D** Analysis Date: **2/23/2021** SeqNo: **4117001**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Sample ID: **N044229-009DDUP** SampType: **DUP** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **2/23/2021** RunNo: **150936**
Client ID: **ZZZZZZ** Batch ID: **85394** TestNo: **SM2540D** Analysis Date: **2/23/2021** SeqNo: **4117004**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	6.000	5.0						6.500	8.00	5	R

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 02:44 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85319** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 06:24 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:55:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 03:03 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85319** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 06:30 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 03:22 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85319** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 06:36 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210220A** QC Batch: **R150877** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/20/2021 03:41 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85319** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 06:42 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210221A** QC Batch: **R150878** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/21/2021 04:00 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85319** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 06:48 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210221A** QC Batch: **R150878** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/21/2021 04:56 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85319** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 07:34 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210221A** QC Batch: **R150878** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/21/2021 04:28 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85319** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 07:40 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:15:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210221A** QC Batch: **R150878** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/21/2021 05:53 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85319** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 07:46 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:20:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210221A** QC Batch: **R150878** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/21/2021 06:12 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85319** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 07:52 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210221A** QC Batch: **R150878** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/21/2021 06:31 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85319** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 07:58 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:15:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210221A** QC Batch: **R150878** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/21/2021 06:50 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85319** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 08:04 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-908-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210221A** QC Batch: **R150878** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/21/2021 07:28 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85319** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 08:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	AmbientBlank-3-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 12:00:00 PM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210303A** QC Batch: **R151163** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	3/3/2021 11:55 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:35:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210221A** QC Batch: **R150878** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/21/2021 07:47 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85319** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 08:28 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-907-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210221A** QC Batch: **R150878** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/21/2021 08:06 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210219B** QC Batch: **85319** PrepDate: **2/19/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/19/2021 08:34 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R150877** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **PBW** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114372**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R150877** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **LCSW** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114373**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.815	0.20	5.000	0	96.3	90	110				

Sample ID: **N044209-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114375**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.991	0.20	1.000	0	99.1	90	110				

Sample ID: **N044209-002AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114376**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.025	0.20	1.000	0	103	90	110	0.9911	3.37	20	

Sample ID: **N044209-005ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114378**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044209-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114379**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.010	0.20	1.000	0	101	90	110				

Sample ID: **N044209-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114381**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.000	0.20	1.000	0	100	90	110				

Sample ID: **N044209-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114385**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.015	0.20	1.000	0	101	90	110				

Sample ID: **N044209-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114387**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.013	0.20	1.000	0	101	90	110				

Sample ID: **N044209-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114389**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.988	0.20	1.000	0	98.8	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044209-010AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114391**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.009	0.20	1.000	0	101	90	110				

Sample ID: **N044209-011AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.967	0.20	1.000	0	96.7	90	110				

Sample ID: **N044209-012AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114397**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.005	0.20	1.000	0	101	90	110				

Sample ID: **N044209-013AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114399**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.005	0.20	1.000	0	100	90	110				

Sample ID: **N044209-014AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114401**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.981	0.20	1.000	0	98.0	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044209-015AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114403**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.009	0.20	1.000	0	101	90	110				

Sample ID: **N044209-016AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.999	0.20	1.000	0	99.9	90	110				

Sample ID: **N044229-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114409**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.004	0.20	1.000	0	100	90	110				

Sample ID: **N044229-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114411**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.036	0.20	1.000	0.04310	99.3	90	110				

Sample ID: **N044229-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114413**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.970	0.20	1.000	0	97.0	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044229-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150877**
Client ID: **ZZZZZZ** Batch ID: **R150877** TestNo: **EPA 218.6** Analysis Date: **2/20/2021** SeqNo: **4114415**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.031	0.20	1.000	0	103	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R150878** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **PBW** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114424**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R150878** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **LCSW** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114425**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.786	0.20	5.000	0	95.7	90	110				

Sample ID: **N044229-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114427**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.022	0.20	1.000	0	102	90	110				

Sample ID: **N044229-005AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114428**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.984	0.20	1.000	0	98.4	90	110	1.022	3.84	20	

Sample ID: **N044229-007ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114430**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044229-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114431**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.955	0.20	1.000	0	95.4	90	110				

Sample ID: **N044229-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114433**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.990	0.20	1.000	0	99.0	90	110				

Sample ID: **N044209-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114437**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.966	0.20	1.000	0	96.6	90	110				

Sample ID: **N044229-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114439**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.980	0.20	1.000	0	98.0	90	110				

Sample ID: **N044229-009AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.985	0.20	1.000	0	98.5	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044229-010AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114443**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.983	0.20	1.000	0	98.3	90	110				

Sample ID: **N044229-011AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114445**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.974	0.20	1.000	0	97.4	90	110				

Sample ID: **N044229-012AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114449**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.009	0.20	1.000	0	101	90	110				

Sample ID: **N044229-014AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114451**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.982	0.20	1.000	0	98.2	90	110				

Sample ID: **N044229-015AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150878**
Client ID: **ZZZZZZ** Batch ID: **R150878** TestNo: **EPA 218.6** Analysis Date: **2/21/2021** SeqNo: **4114453**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.995	0.20	1.000	0	99.5	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R151163** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151163**
Client ID: **PBW** Batch ID: **R151163** TestNo: **EPA 218.6** Analysis Date: **3/3/2021** SeqNo: **4129654**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R151163** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151163**
Client ID: **LCSW** Batch ID: **R151163** TestNo: **EPA 218.6** Analysis Date: **3/3/2021** SeqNo: **4129655**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.798	0.20	5.000	0	96.0	90	110				

Sample ID: **N044229-013AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151163**
Client ID: **ZZZZZZ** Batch ID: **R151163** TestNo: **EPA 218.6** Analysis Date: **3/3/2021** SeqNo: **4129657**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.969	0.20	1.000	0	96.9	90	110				

Sample ID: **N044414-001ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151163**
Client ID: **ZZZZZZ** Batch ID: **R151163** TestNo: **EPA 218.6** Analysis Date: **3/3/2021** SeqNo: **4129674**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.075	0.20						2.036	1.91	20	

Sample ID: **N044414-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151163**
Client ID: **ZZZZZZ** Batch ID: **R151163** TestNo: **EPA 218.6** Analysis Date: **3/3/2021** SeqNo: **4129677**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	44.558	1.0	25.00	20.20	97.4	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044414-004AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151163**
Client ID: **ZZZZZZ** Batch ID: **R151163** TestNo: **EPA 218.6** Analysis Date: **3/3/2021** SeqNo: **4129678**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	44.721	1.0	25.00	20.20	98.1	90	110	44.56	0.364	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **MB-85319** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **PBW** Batch ID: **85319** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115562**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: **LCS-85319** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **LCSW** Batch ID: **85319** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115563**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.951	1.0	10.00	0	99.5	85	115				

Sample ID: **N044229-005BMS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **ZZZZZZ** Batch ID: **85319** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115573**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.878	1.0	10.00	0	98.8	75	125				

Sample ID: **N044229-005BMSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **ZZZZZZ** Batch ID: **85319** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.885	1.0	10.00	0	98.8	75	125	9.878	0.0658	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210225A** QC Batch: **R150985** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.43	0.032	0.050		mg/L	1	2/25/2021 02:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:55:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210225A** QC Batch: **R150985** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.40	0.032	0.050		mg/L	1	2/25/2021 02:40 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210225A** QC Batch: **R150985** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.44	0.032	0.050		mg/L	1	2/25/2021 02:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210225A** QC Batch: **R150985** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.42	0.032	0.050		mg/L	1	2/25/2021 04:04 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210225A** QC Batch: **R150985** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.43	0.032	0.050		mg/L	1	2/25/2021 02:16 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210225A** QC Batch: **R150985** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.41	0.032	0.050		mg/L	1	2/25/2021 04:09 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210225A** QC Batch: **R150985** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.40	0.032	0.050		mg/L	1	2/25/2021 04:14 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:15:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210226A** QC Batch: **R151053** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.37	0.032	0.050		mg/L	1	2/26/2021 05:27 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044229
Project: PG&E Topock - RMP, RC000753.801D
Lab ID: N044229-009

Client Sample ID: C-NR3-S-0221
Collection Date: 2/18/2021 11:20:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210226A** QC Batch: **R151053** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.41	0.032	0.050		mg/L	1	2/26/2021 05:46 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210226A** QC Batch: **R151053** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.39	0.032	0.050		mg/L	1	2/26/2021 05:51 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:15:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210226A** QC Batch: **R151053** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.38	0.032	0.050		mg/L	1	2/26/2021 05:56 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-908-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210226A** QC Batch: **R151053** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.35	0.032	0.050		mg/L	1	2/26/2021 07:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:35:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210226A** QC Batch: **R151053** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.38	0.032	0.050		mg/L	1	2/26/2021 07:20 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-907-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210226A** QC Batch: **R151053** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.39	0.032	0.050		mg/L	1	2/26/2021 07:25 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R150985** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150985**
Client ID: **PBW** Batch ID: **R150985** TestNo: **SM4500-NO3** Analysis Date: **2/25/2021** SeqNo: **4119656**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R150985** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150985**
Client ID: **LCSW** Batch ID: **R150985** TestNo: **SM4500-NO3** Analysis Date: **2/25/2021** SeqNo: **4119657**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.470	0.050	0.5000	0	93.9	85	115				

Sample ID: **N044229-005EDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150985**
Client ID: **ZZZZZZ** Batch ID: **R150985** TestNo: **SM4500-NO3** Analysis Date: **2/25/2021** SeqNo: **4119659**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.421	0.050						0.4299	2.14	20	

Sample ID: **N044229-005EMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150985**
Client ID: **ZZZZZZ** Batch ID: **R150985** TestNo: **SM4500-NO3** Analysis Date: **2/25/2021** SeqNo: **4119660**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.916	0.050	0.5000	0.4299	97.3	75	125				

Sample ID: **N044229-005EMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150985**
Client ID: **ZZZZZZ** Batch ID: **R150985** TestNo: **SM4500-NO3** Analysis Date: **2/25/2021** SeqNo: **4119661**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.951	0.050	0.5000	0.4299	104	75	125	0.9162	3.76	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R151053** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151053**
Client ID: **PBW** Batch ID: **R151053** TestNo: **SM4500-NO3** Analysis Date: **2/26/2021** SeqNo: **4123407**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R151053** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151053**
Client ID: **LCSW** Batch ID: **R151053** TestNo: **SM4500-NO3** Analysis Date: **2/26/2021** SeqNo: **4123408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.472	0.050	0.5000	0	94.4	85	115				

Sample ID: **N044229-008EDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151053**
Client ID: **ZZZZZZ** Batch ID: **R151053** TestNo: **SM4500-NO3** Analysis Date: **2/26/2021** SeqNo: **4123410**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.363	0.050						0.3689	1.67	20	

Sample ID: **N044229-008EMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151053**
Client ID: **ZZZZZZ** Batch ID: **R151053** TestNo: **SM4500-NO3** Analysis Date: **2/26/2021** SeqNo: **4123411**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.851	0.050	0.5000	0.3689	96.5	75	125				

Sample ID: **N044229-008EMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151053**
Client ID: **ZZZZZZ** Batch ID: **R151053** TestNo: **SM4500-NO3** Analysis Date: **2/26/2021** SeqNo: **4123412**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.856	0.050	0.5000	0.3689	97.4	75	125	0.8513	0.562	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85348**			PrepDate:		**2/22/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/26/2021 10:56 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85347**			PrepDate:		**2/22/2021**	Analyst: **DJ**
Iron	150	18	20		ug/L	1	2/27/2021 01:17 AM

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:55:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85348**			PrepDate:		**2/22/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/26/2021 11:19 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85347**			PrepDate:		**2/22/2021**	Analyst: **DJ**
Iron	100	18	20		ug/L	1	2/27/2021 01:21 AM

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85348**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/26/2021 11:23 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85347**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	71	18	20		ug/L	1	2/27/2021 01:26 AM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85348**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/26/2021 11:28 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85347**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	71	18	20		ug/L	1	2/27/2021 01:30 AM

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85348**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/26/2021 10:30 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85347**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	24	18	20		ug/L	1	2/27/2021 12:29 AM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85348**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/26/2021 11:32 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85347**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	70	18	20		ug/L	1	2/27/2021 01:34 AM

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85348**			PrepDate:		**2/22/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/26/2021 11:36 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85347**			PrepDate:		**2/22/2021**	Analyst: **DJ**
Iron	240	18	20		ug/L	1	2/27/2021 01:38 AM

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:15:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_210226D**	QC Batch: **85348**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/26/2021 11:40 PM
TOTAL METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_210226D**	QC Batch: **85347**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	140	18	20		ug/L	1	2/27/2021 01:43 AM

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:20:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85348**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/26/2021 11:45 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85347**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	32	18	20		ug/L	1	2/27/2021 01:47 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85348**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/26/2021 11:49 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85347**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	35	18	20		ug/L	1	2/27/2021 01:51 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:15:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85348**			PrepDate:		**2/22/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/27/2021 12:03 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85347**			PrepDate:		**2/22/2021**	Analyst: **DJ**
Iron	87	18	20		ug/L	1	2/27/2021 02:05 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-908-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85348**			PrepDate:		**2/22/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/27/2021 12:07 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85347**			PrepDate:		**2/22/2021**	Analyst: **DJ**
Iron	160	18	20		ug/L	1	2/27/2021 02:09 AM

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:35:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A		**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85348**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/27/2021 12:11 AM
TOTAL METALS BY ICP							
	EPA 3010A		**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85347**				PrepDate:	**2/22/2021**	Analyst: **DJ**
Iron	31	18	20		ug/L	1	2/27/2021 02:13 AM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-907-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85348**			PrepDate:		**2/22/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/27/2021 12:15 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210226D**	QC Batch: **85347**			PrepDate:		**2/22/2021**	Analyst: **DJ**
Iron	35	18	20		ug/L	1	2/27/2021 02:18 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: **N044229-005BMS** SampType: **MS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **2/22/2021** RunNo: **151030**
Client ID: **ZZZZZZ** Batch ID: **85348** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/26/2021** SeqNo: **4121762**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	108.231	20	100.0	19.04	89.2	75	125				

Sample ID: **N044229-005BMSD** SampType: **MSD** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **2/22/2021** RunNo: **151030**
Client ID: **ZZZZZZ** Batch ID: **85348** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/26/2021** SeqNo: **4121763**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	91.073	20	100.0	19.04	72.0	75	125	108.2	17.2	20	S

Sample ID: **MB-85348** SampType: **MBLK** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **2/22/2021** RunNo: **151030**
Client ID: **PBW** Batch ID: **85348** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/26/2021** SeqNo: **4121767**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	20									

Sample ID: **LCS-85348** SampType: **LCS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **2/22/2021** RunNo: **151030**
Client ID: **LCSW** Batch ID: **85348** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/26/2021** SeqNo: **4121768**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	104.646	20	100.0	0	105	85	115				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: **MB-85347** SampType: **MBLK** TestCode: **6010_WPGEP** Units: **ug/L** Prep Date: **2/22/2021** RunNo: **151030**
Client ID: **PBW** Batch ID: **85347** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/27/2021** SeqNo: **4121910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	20									

Sample ID: **LCS-85347** SampType: **LCS** TestCode: **6010_WPGEP** Units: **ug/L** Prep Date: **2/22/2021** RunNo: **151030**
Client ID: **LCSW** Batch ID: **85347** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/27/2021** SeqNo: **4121911**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	89.057	20	100.0	0	89.1	85	115				

Sample ID: **N044229-005CMS** SampType: **MS** TestCode: **6010_WPGEP** Units: **ug/L** Prep Date: **2/22/2021** RunNo: **151030**
Client ID: **ZZZZZZ** Batch ID: **85347** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/27/2021** SeqNo: **4121915**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	106.531	20	100.0	23.60	82.9	75	125				

Sample ID: **N044229-005CMSD** SampType: **MSD** TestCode: **6010_WPGEP** Units: **ug/L** Prep Date: **2/22/2021** RunNo: **151030**
Client ID: **ZZZZZZ** Batch ID: **85347** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/27/2021** SeqNo: **4121920**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	310.850	20	100.0	23.60	287	75	125	106.5	97.9	20	SR

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID:	**N044229-005B-PS**	SampType:	**PS**	TestCode:	**6010_WDPG**	Units:	**ug/L**	Prep Date:				RunNo:	**151030**
Client ID:	**ZZZZZZ**	Batch ID:	**85348**	TestNo:	**EPA 6010B**		**EPA 3010A**	Analysis Date:	**2/26/2021**			SeqNo:	**4121761**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	101.460	20	100.0	19.04	82.4	80	120				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: **N044229-005C-PS** SampType: **PS** TestCode: **6010_WPGEP** Units: **ug/L** Prep Date: RunNo: **151030**
Client ID: **ZZZZZZ** Batch ID: **85347** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/27/2021** SeqNo: **4121914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	121.619	20	100.0	23.60	98.0	80	120				

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85319**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	2/19/2021 06:24 PM
Barium	110	0.15	1.0		µg/L	1	2/19/2021 06:24 PM
Manganese	1.2	0.26	0.50		µg/L	1	2/19/2021 06:24 PM
Molybdenum	4.6	0.21	0.50		µg/L	1	2/19/2021 06:24 PM
Selenium	1.4	0.36	0.50		µg/L	1	2/19/2021 06:24 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:55:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85319**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/19/2021 06:30 PM
Barium	120	0.15	1.0		µg/L	1	2/19/2021 06:30 PM
Manganese	1.1	0.26	0.50		µg/L	1	2/19/2021 06:30 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	2/19/2021 06:30 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/19/2021 06:30 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85319**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	2/19/2021 06:36 PM
Barium	120	0.15	1.0		µg/L	1	2/19/2021 06:36 PM
Manganese	1.1	0.26	0.50		µg/L	1	2/19/2021 06:36 PM
Molybdenum	4.9	0.21	0.50		µg/L	1	2/19/2021 06:36 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/19/2021 06:36 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85319**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	2/19/2021 06:42 PM
Barium	120	0.15	1.0		µg/L	1	2/19/2021 06:42 PM
Manganese	1.2	0.26	0.50		µg/L	1	2/19/2021 06:42 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	2/19/2021 06:42 PM
Selenium	1.3	0.36	0.50		µg/L	1	2/19/2021 06:42 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:40:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85319**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	2/19/2021 06:48 PM
Barium	120	0.15	1.0		µg/L	1	2/19/2021 06:48 PM
Manganese	1.3	0.26	0.50		µg/L	1	2/19/2021 06:48 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	2/19/2021 06:48 PM
Selenium	1.7	0.36	0.50		µg/L	1	2/19/2021 06:48 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85319**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	2/19/2021 07:34 PM
Barium	120	0.15	1.0		µg/L	1	2/19/2021 07:34 PM
Manganese	1.1	0.26	0.50		µg/L	1	2/19/2021 07:34 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	2/19/2021 07:34 PM
Selenium	1.3	0.36	0.50		µg/L	1	2/19/2021 07:34 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85319**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	2/19/2021 07:40 PM
Barium	110	0.15	1.0		µg/L	1	2/19/2021 07:40 PM
Manganese	3.6	0.26	0.50		µg/L	1	2/19/2021 07:40 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	2/19/2021 07:40 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/19/2021 07:40 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:15:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85319**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/19/2021 07:46 PM
Barium	120	0.15	1.0		µg/L	1	2/19/2021 07:46 PM
Manganese	3.0	0.26	0.50		µg/L	1	2/19/2021 07:46 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	2/19/2021 07:46 PM
Selenium	1.9	0.36	0.50		µg/L	1	2/23/2021 02:14 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:20:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85319**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	2.5	0.081	0.10		µg/L	1	2/19/2021 07:52 PM
Barium	120	0.15	1.0		µg/L	1	2/19/2021 07:52 PM
Manganese	1.3	0.26	0.50		µg/L	1	2/19/2021 07:52 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	2/19/2021 07:52 PM
Selenium	1.5	0.36	0.50		µg/L	1	2/19/2021 07:52 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85319**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	2.5	0.081	0.10		µg/L	1	2/19/2021 07:58 PM
Barium	120	0.15	1.0		µg/L	1	2/19/2021 07:58 PM
Manganese	1.4	0.26	0.50		µg/L	1	2/19/2021 07:58 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	2/19/2021 07:58 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/23/2021 02:20 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 9:15:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85319**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/19/2021 08:04 PM
Barium	120	0.15	1.0		µg/L	1	2/19/2021 08:04 PM
Manganese	4.1	0.26	0.50		µg/L	1	2/19/2021 08:04 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	2/19/2021 08:04 PM
Selenium	1.3	0.36	0.50		µg/L	1	2/19/2021 08:04 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-908-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 8:25:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85319**			PrepDate:		**2/19/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/19/2021 08:10 PM
Barium	120	0.15	1.0		µg/L	1	2/19/2021 08:10 PM
Manganese	3.0	0.26	0.50		µg/L	1	2/19/2021 08:10 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	2/19/2021 08:10 PM
Selenium	1.5	0.36	0.50		µg/L	1	2/19/2021 08:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 11:35:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85319**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	2/19/2021 08:28 PM
Barium	110	0.15	1.0		µg/L	1	2/19/2021 08:28 PM
Manganese	0.99	0.26	0.50		µg/L	1	2/19/2021 08:28 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	2/19/2021 08:28 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/19/2021 08:28 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *04-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-907-0221
Lab Order:	N044229	**Collection Date:**	2/18/2021 10:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044229-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210219B**	QC Batch: **85319**				PrepDate:	**2/19/2021**	Analyst: **CEI**
Arsenic	2.5	0.081	0.10		µg/L	1	2/19/2021 08:34 PM
Barium	120	0.15	1.0		µg/L	1	2/19/2021 08:34 PM
Manganese	1.1	0.26	0.50		µg/L	1	2/19/2021 08:34 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	2/19/2021 08:34 PM
Selenium	1.7	0.36	0.50		µg/L	1	2/19/2021 08:34 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **MB-85319** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **PBW** Batch ID: **85319** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115639**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Barium	ND	1.0									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: **LCS-85319** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **LCSW** Batch ID: **85319** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115640**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.115	0.10	10.00	0	101	85	115				
Barium	10.755	1.0	10.00	0	108	85	115				
Manganese	102.643	0.50	100.0	0	103	85	115				
Molybdenum	10.154	0.50	10.00	0	102	85	115				
Selenium	9.793	0.50	10.00	0	97.9	85	115				

Sample ID: **N044229-005BMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **ZZZZZZ** Batch ID: **85319** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115650**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	13.338	0.10	10.00	2.440	109	75	125				
Barium	123.601	1.0	10.00	117.3	63.1	75	125				S
Manganese	101.545	0.50	100.0	1.308	100	75	125				
Molybdenum	15.816	0.50	10.00	4.800	110	75	125				
Selenium	11.822	0.50	10.00	1.688	101	75	125				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **N044229-005BMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/19/2021** RunNo: **150899**
Client ID: **ZZZZZZ** Batch ID: **85319** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115651**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.494	0.10	10.00	2.440	101	75	125	13.34	6.54	20	
Barium	123.745	1.0	10.00	117.3	64.5	75	125	123.6	0.117	20	S
Manganese	102.057	0.50	100.0	1.308	101	75	125	101.5	0.503	20	
Molybdenum	15.892	0.50	10.00	4.800	111	75	125	15.82	0.478	20	
Selenium	10.824	0.50	10.00	1.688	91.4	75	125	11.82	8.82	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044229
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **N044229-005B-PS** SampType: **PS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: RunNo: **150899**
Client ID: **ZZZZZZ** Batch ID: **85319** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/19/2021** SeqNo: **4115649**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.848	0.10	10.00	2.440	104	80	120				
Barium	124.030	1.0	10.00	117.3	67.4	80	120				S
Manganese	102.025	0.50	100.0	1.308	101	80	120				
Molybdenum	15.852	0.50	10.00	4.800	111	80	120				
Selenium	11.228	0.50	10.00	1.688	95.4	80	120				

Qualifiers:

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

N044229

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis
Address: 1410 Rocky Ridge Dr # 330
Address: Roseville, CA 95661
Phone: 916-786-3302 Fax:
Submitted By: Reggie Tap
Title: Field Tech
Signature: Date: 2/18/21
I hereby authorize ASSET Labs to perform the tests indicated below.
Project Name: PG&E Topock - RMP
Project Number: RC000753.801D

Report to: Dan Bush
Company: Arcadis
Email: dan.bush@arcadis.com
Address: 1410 Rocky Ridge Dr # 330, Roseville, CA 95661
Phone: 916-786-3302 Fax:
Sampled By: Reggie Tap
I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for
Signature: Date: 2/18/21

Bill to: Marty Bloes
Address:
Address:
Email to: mbloes@pivex.com P.O.#
Phone: 949-727-1400, ext 200 Fax:

EDD Requirement		QA/QC	
Excel EDD		RTNE	
Geotracker		RWQCB	✓
Labspec		CalTrans	
Others	✓	LEVEL III	
Specify: RWQCB		LEVEL IV	
		Regulatory	
Global ID:		Specify State:	

Sample Receipt Condition	Y	N
1. Chilled	✓	
2. Headspace		
3. Container Intact	✓	
4. Seal Present		✓
5. IR number	2	
6. Method of Cooling: ICE		
Sample Temp: 3.8°C/4.1°C/2.4°C		
Courier: ASB		
Tracking No.:		

Matrix		
Ground	x	Sediment
Potable		Soil
NPDES		Other Solid
Surface		

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (3x250 mL poly)	Field QC Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 Cr (3x500mL poly)	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 Ca, Mg, K, Na, B (3x500mL poly)	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 As, Mn, Fe, Se, Mo, Ba (3x500mL poly)	Total metals (SW6010B); HNO3 Fe (500 mL poly)	Anions (E300.0); Br, Cl, SO4 (1 liter poly)	Specific Conductance (E120.1) (1 liter poly)	pH (SM4500HB) (1 liter poly)	TDS (SM2540C) (1 liter poly)	Alkalinity (Total, reported as CaCO3) (SM2320B) (1 liter poly)	TSS (SM2540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrogen; H2SO4 (125 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N044229-01	C-CON-D-0221	2/18/2021	9:40		X		X		X	X		X	X			X	X	E	~~5~~	P	BNS 7
2	-02	C-CON-S-0221	2/18/2021	9:55		X		X		X	X		X	X			X	X	E	~~5~~	P	BNS 7
3	-03	C-NR4-S-0221	2/18/2021	11:50		X		X		X	X		X	X			X	X	E	~~5~~	P	BNS 7
4	-04	C-NR1-D-0221	2/18/2021	10:25		X		X		X	X		X	X			X	X	E	~~5~~	P	BNS 7
5	-05	C-NR1-S-0221	2/18/2021	10:40		X		X		X	X		X	X			X	X	E	~~5~~	P	BNS MS/MSD 7
6	-06	C-NR3-D-0221	2/18/2021	11:05		X		X		X	X		X	X			X	X	E	~~5~~	P	BNS 7
7	-07	C-MAR-D-0221	2/18/2021	8:05		X		X		X	X		X	X			X	X	E	~~5~~	P	BNS ~~MS/MSD~~
8	-08	C-MAR-S-0221	2/18/2021	8:15		X		X		X	X		X	X			X	X	E	~~5~~	P	BNS 7
9	-09	C-NR3-S-0221	2/18/2021	11:20		X		X		X	X		X	X			X	X	E	~~5~~	P	BNS 7
10	-10	R-19-0221	2/18/2021	8:50		X		X		X	X		X	X			X	X	E	~~5~~	P	BNS 7
11	-11	RRB-0221	2/18/2021	9:15		X		X		X	X		X	X			X	X	E	~~5~~	P	BNS 7
12	-12	MW-908-Q121	2/18/2021	8:25		X		X		X	X		X	X			X	X	E	~~5~~	P	BNS 7
13	-13	AmbientBlank-3-0221	2/18/2021	12:00		~~X~~	~~X~~	~~X~~		~~X~~	~~X~~		~~X~~	~~X~~			~~X~~	~~X~~	E	~~5~~	P	BNS 1
14	-14	C-NR4-D-0221	2/18/2021	~~11:30~~	1135	X		X		X	X		X	X			X	X	E	~~5~~	P	BNS 7

Reliquished by (Signature and Printed Name): Reggie Tap Date/Time: 2/18/21 1645
Reliquished by (Signature and Printed Name): ROMEO ALCANTARA Date/Time: 2/18/21 1645
Reliquished by (Signature and Printed Name): ROMEO ALCANTARA Date/Time: 2/18/21 1924
Reliquished by (Signature and Printed Name): Date/Time:
Reliquished by (Signature and Printed Name): Date/Time:

Turn Around Time (TAT)

	A	< 24 Hrs or Same Day TAT
	B	= Next Workday
	C	= 2 Workdays
	D	= 3 Workdays
X	E	= Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample
6. Asset Laboratories is not responsible for samples collected using incorrect methodology
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:				Container Type:		
H=HCL	N=HNO_3	S=H_2SO_4	C=4°C	T=Tube	V=VOA	P=Pint
Z=$Zn(AC)_2$	O=NaOH	T=$Na_2S_2O_3$		J=Jar	B=Tedlar	G=Glass
Others/Specify:	B	(NH4)2SO4/NH4OH		M=Metal	M=Metal	C=Can

White=Laboratory Copy Yellow=Customer's Copy

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes	
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:	
Address: Roseville, CA 95661	Email: [illegible]	Address:	
Phone: 916-786-3302 / Fax:	Address: 1410 Rocky Ridge Dr # 330 Roseville, CA 95661	Email to: mbloes@pivox.com	P.O.#
Submitted By: Reggie Tep		Phone: 949-727-1400, ext 200	Fax:
Title: Field Tech	Phone: 916-786-3302 / Fax:		
Signature: RT Date: 2/18/21	Sampled By: Reggie Tep		
I hereby authorize ASSET Labs to perform the tests indicated below.	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		
Project Name: PG&E Topock - RMP	Signature: RT Date: 2/18/21		
Project Number: RC000753.0801			

EDD Requirement		QA/QC		Sample Receipt Condition	Y	N
Excel EDD		RTNE		1. Chilled	✓	
Geotracker		RWQCB	✓	2. Headspace		
Labspec		CalTrans		3. Container Intact	✓	
Others	✓	LEVEL III		4. Seal Present		✓
Specify: RWQCB		LEVEL IV		5. IR number	2	
Global ID:		Regulatory		6. Method of Cooling: ICE		
		Specify State:		Sample Temp: 3.8°C / 4.1°C / 2.4°C		

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

Courier: ASSET
Tracking No.:

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH 3x250 mL poly	Field QC Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH 250 ml Poly	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 Cr 3x500mL poly	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 Ca, Mg, K, Na, B 3x500mL poly	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 As, Mn, Fe, Se, Mo, Ba 3x500mL poly	Total metals (SW6010B); HNO3 Fe 500 mL poly	Anions (E300.0); Br, Cl, SO4 1 liter poly	Specific Conductance (E120.1) 1 liter poly	pH (SM4500HB) 1 liter poly	TDS (SM2540C) 1 liter poly	Alkalinity (Total, reported as CaCO3) (SM2320B) 1 liter poly	TSS (SM2540) 1 liter poly	Nitrate/Nitrite (SM4500N03) Nitrogen; H2SO4 125 mL poly	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
	N044229-15	MW-907-Q121	2/18/2021	10:05		X		X		X	X		X	X			X	X	E	1	P	BNS

Relinquished by (Signature and Printed Name):	Date/Time:	Relinquished by (Signature and Printed Name):	Date/Time:
RT Reggie Tep	2/18/21 1645	Romeo Alcantara	2/18/21 1645
Relinquished by (Signature and Printed Name):	Date/Time:	Relinquished by (Signature and Printed Name):	Date/Time:
DEL/REC RT Romeo Alcantara	2/18/21 1924		
Relinquished by (Signature and Printed Name):	Date/Time:	Relinquished by (Signature and Printed Name):	Date/Time:

Turn Around Time (TAT)

- [ ] A = < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
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   Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
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8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:				Container Type:		
H=HCL	N=HNO_3	S=H_2SO_4	C=4°C	T=Tube	V=VOA	P=Pint
Z=$Zn(AC)_2$	O=NaOH	T=$Na_2S_2O_3$		J=Jar	B=Tedlar	G=Glass
Others/Specify:	B	(NH4)2SO4/NH4OH		M=Metal	M=Metal	C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	2/18/2021	Workorder:	N044229
Rep sample Temp (Deg C):	3.8/4.1/2.4	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: Samples for pH received past holding time. See Correspondence.

Checklist Completed By: BHN BHdez 2/19/2021

Reviewed By: MBC 02/19/2021

Subject: RE: PG&E Topock - RMP, RC000753.801D (ASSET Labs No. N044229)
From: "Madsen, Laura" <Laura.Madsen@arcadis.com>
Date: 2/19/2021, 11:34 AM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>
CC: Tina Rice <Tina.Rice@critigen.com>, "maryann.balilu@assetlaboratoriesph.com" <maryann.balilu@assetlaboratoriesph.com>

Hi Yoandra,
Please use:

Sample 12: MW-908-0221

- Sample 15 MW-907-0221

Thanks,
Laura

From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Friday, February 19, 2021 1:20 PM
To: Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: Tina Rice <Tina.Rice@critigen.com>; maryann.balilu@assetlaboratoriesph.com
Subject: PG&E Topock - RMP, RC000753.801D (ASSET Labs No. N044229)

Hi Laura,

Please kindly advise on the following discrepancies for the attached COC.

- Sample 12: ID is MW-908-Q121 on COC and MW-908-0221 on labels

- Sample 15: ID is MW-907-Q121 on COC and MW-907-Q221 on labels

--
Thanks,

Yoandra Rodriguez
Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 | F: 702.307.2691
California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436

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ASSET Laboratories

WORK ORDER Summary

19-Feb-21

WorkOrder: N044229

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 2/18/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044229-001A	C-CON-D-0221	2/18/2021 9:40:00 AM	3/2/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044229-001B			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044229-001C			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044229-001D			3/2/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/2/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/2/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/2/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044229-001E			3/2/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044229-002A	C-CON-S-0221	2/18/2021 9:55:00 AM	3/2/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044229-002B			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044229-002C			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044229-002D			3/2/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

19-Feb-21

WorkOrder: N044229

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 2/18/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044229-002D	C-CON-S-0221	2/18/2021 9:55:00 AM	3/2/2021	Groundwater	SM4500-H+B	pH	☐	☐	☐	WW
			3/2/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/2/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044229-002E			3/2/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044229-003A	C-NR4-S-0221	2/18/2021 11:50:00 AM	3/2/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044229-003B			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044229-003C			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044229-003D			3/2/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/2/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/2/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/2/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044229-003E			3/2/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044229-004A	C-NR1-D-0221	2/18/2021 10:25:00 AM	3/2/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044229-004B			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI

ASSET Laboratories

WORK ORDER Summary

19-Feb-21

WorkOrder: N044229

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 2/18/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044229-004B	C-NR1-D-0221	2/18/2021 10:25:00 AM	3/2/2021	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044229-004C			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044229-004D			3/2/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/2/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/2/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/2/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044229-004E			3/2/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044229-005A	C-NR1-S-0221	2/18/2021 10:40:00 AM	3/2/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☑	☐	WW
N044229-005B			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	CEI
			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	CEI
			3/2/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☑	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☑	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☑	☐	CEI
N044229-005C			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	CEI
			3/2/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☑	☐	CEI
N044229-005D			3/2/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☑	☐	WW
			3/2/2021		SM4500-H+B	pH	☐	☑	☐	WW
			3/2/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☑	☐	WW
			3/2/2021			Total Suspended Solids Prep	☐	☑	☐	WW

ASSET Laboratories

WORK ORDER Summary

19-Feb-21

WorkOrder: N044229

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 2/18/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044229-005E	C-NR1-S-0221	2/18/2021 10:40:00 AM	3/2/2021	Groundwater	SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☑	☐	WW
N044229-006A	C-NR3-D-0221	2/18/2021 11:05:00 AM	3/2/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044229-006B			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044229-006C			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044229-006D			3/2/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/2/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/2/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/2/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044229-006E			3/2/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044229-007A	C-MAR-D-0221	2/18/2021 8:05:00 AM	3/2/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044229-007B			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044229-007C			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI

ASSET Laboratories

WORK ORDER Summary

19-Feb-21

WorkOrder: N044229

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 2/18/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044229-007C	C-MAR-D-0221	2/18/2021 8:05:00 AM	3/2/2021	Groundwater	EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044229-007D			3/2/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/2/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/2/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/2/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044229-007E			3/2/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044229-008A	C-MAR-S-0221	2/18/2021 8:15:00 AM	3/2/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044229-008B			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044229-008C			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044229-008D			3/2/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/2/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/2/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/2/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044229-008E			3/2/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044229-009A	C-NR3-S-0221	2/18/2021 11:20:00 AM	3/2/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044229-009B			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI

ASSET Laboratories

WORK ORDER Summary

19-Feb-21

WorkOrder: N044229

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 2/18/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044229-009B	C-NR3-S-0221	2/18/2021 11:20:00 AM	3/2/2021	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044229-009C			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044229-009D			3/2/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/2/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/2/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/2/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044229-009E			3/2/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044229-010A	R-19-0221	2/18/2021 8:50:00 AM	3/2/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044229-010B			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044229-010C			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044229-010D			3/2/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/2/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/2/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

19-Feb-21

WorkOrder: N044229

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 2/18/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044229-010D	R-19-0221	2/18/2021 8:50:00 AM	3/2/2021	Groundwater		Total Suspended Solids Prep	☐	☐	☐	WW
N044229-010E			3/2/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044229-011A	RRB-0221	2/18/2021 9:15:00 AM	3/2/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044229-011B			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044229-011C			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044229-011D			3/2/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/2/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/2/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/2/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044229-011E			3/2/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044229-012A	MW-908-0221	2/18/2021 8:25:00 AM	3/2/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044229-012B			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI

ASSET Laboratories

WORK ORDER Summary

19-Feb-21

WorkOrder: N044229

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 2/18/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044229-012C	MW-908-0221	2/18/2021 8:25:00 AM	3/2/2021	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044229-012D			3/2/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/2/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/2/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/2/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044229-012E			3/2/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044229-013A	AmbientBlank-3-0221	2/18/2021 12:00:00 PM	3/2/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044229-014A	C-NR4-D-0221	2/18/2021 11:35:00 AM	3/2/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044229-014B			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044229-014C			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044229-014D			3/2/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/2/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/2/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/2/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044229-014E			3/2/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

19-Feb-21

WorkOrder: N044229

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 2/18/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044229-015A	MW-907-0221	2/18/2021 10:05:00 AM	3/2/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044229-015B			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/2/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044229-015C			3/2/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/2/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	CEI
N044229-015D			3/2/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			3/2/2021		SM4500-H+B	pH	☐	☐	☐	WW
			3/2/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			3/2/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N044229-015E			3/2/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044229-016A	FOLDER	3/4/2021	3/2/2021		EDD	Client specific project	☐	☐	☐	LAB
			3/2/2021		Folder	Level IV Report	☐	☐	☐	LAB
			3/2/2021		Folder	Folder	☐	☐	☐	LAB
			3/4/2021		Folder	Folder	☐	☐	☐	LAB

March 05, 2021

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N044237

RE: PG&E Topock - GMP, 30035275

Attention: Dan Bush

Enclosed are the results for sample(s) received on February 19, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

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

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - GMP, 30035275
Lab Order: N044237

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for sample N044237-001 due to matrix interference. Sample was analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Sample was reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Analytical Comments for EPA 6020_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Chromium in QC samples N044228-001DMS and N044228-001DMSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *05-Mar-21*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - GMP, 30035275
Lab Order: N044237
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044237-001A	MW-68BR-280-0221	Groundwater	2/19/2021 8:24:00 AM	2/19/2021	3/5/2021
N044237-001B	MW-68BR-280-0221	Groundwater	2/19/2021 8:24:00 AM	2/19/2021	3/5/2021
N044237-001C	MW-68BR-280-0221	Groundwater	2/19/2021 8:24:00 AM	2/19/2021	3/5/2021
N044237-002A	MW-68-180-Q121	Groundwater	2/19/2021 10:14:00 AM	2/19/2021	3/5/2021
N044237-002B	MW-68-180-Q121	Groundwater	2/19/2021 10:14:00 AM	2/19/2021	3/5/2021
N044237-002C	MW-68-180-Q121	Groundwater	2/19/2021 10:14:00 AM	2/19/2021	3/5/2021
N044237-002D	MW-68-180-Q121	Groundwater	2/19/2021 10:14:00 AM	2/19/2021	3/5/2021
N044237-003A	MW-68-240-0221	Groundwater	2/19/2021 9:22:00 AM	2/19/2021	3/5/2021
N044237-003B	MW-68-240-0221	Groundwater	2/19/2021 9:22:00 AM	2/19/2021	3/5/2021
N044237-003C	MW-68-240-0221	Groundwater	2/19/2021 9:22:00 AM	2/19/2021	3/5/2021
N044237-004A	MW-922-Q121	Groundwater	2/19/2021 9:32:00 AM	2/19/2021	3/5/2021
N044237-004B	MW-922-Q121	Groundwater	2/19/2021 9:32:00 AM	2/19/2021	3/5/2021
N044237-004C	MW-922-Q121	Groundwater	2/19/2021 9:32:00 AM	2/19/2021	3/5/2021
N044237-005A	MW-67-260-Q121	Groundwater	2/19/2021 11:34:00 AM	2/19/2021	3/5/2021
N044237-005B	MW-67-260-Q121	Groundwater	2/19/2021 11:34:00 AM	2/19/2021	3/5/2021
N044237-005C	MW-67-260-Q121	Groundwater	2/19/2021 11:34:00 AM	2/19/2021	3/5/2021
N044237-006A	EB-794-Q121	Groundwater	2/19/2021 11:55:00 AM	2/19/2021	3/5/2021

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-68-180-Q121
Lab Order:	N044237	**Collection Date:**	2/19/2021 10:14:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210219D**	QC Batch: **R150842**			PrepDate:			Analyst: **LR**
Specific Conductance	5100	0.10	0.10		umhos/cm	1	2/19/2021 03:10 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044237
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID **N044237-002BDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150842**
Client ID: **ZZZZZZ** Batch ID: **R150842** TestNo: **EPA 120.1** Analysis Date: **2/19/2021** SeqNo: **4111634**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	5040.000	0.10						5060	0.396	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-68BR-280-0221
Lab Order:	N044237	**Collection Date:**	2/19/2021 8:24:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210223A** QC Batch: **R150916** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.17	1.0		µg/L	5	2/23/2021 11:14 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210223C** QC Batch: **85344** PrepDate: **2/22/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/24/2021 01:10 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-68-180-Q121
Lab Order:	N044237	**Collection Date:**	2/19/2021 10:14:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **NV00922-IC7_210223A**	QC Batch: **R150916**			PrepDate:			Analyst: **RAB**
Hexavalent Chromium	63000	330	2000		µg/L	10000	2/23/2021 11:52 AM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP7_210223C**	QC Batch: **85344**			PrepDate:		**2/22/2021**	Analyst: **CEI**
Chromium	66000	65	500		µg/L	500	2/24/2021 01:28 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-68-240-0221
Lab Order:	N044237	**Collection Date:**	2/19/2021 9:22:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **NV00922-IC7_210223A**	QC Batch: **R150916**			PrepDate:			Analyst: **RAB**
Hexavalent Chromium	1900	6.6	40		µg/L	200	2/23/2021 10:45 AM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP7_210223C**	QC Batch: **85344**			PrepDate:		**2/22/2021**	Analyst: **CEI**
Chromium	2000	3.2	25		µg/L	25	2/24/2021 02:16 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044237
Project: PG&E Topock - GMP, 30035275
Lab ID: N044237-004

Client Sample ID: MW-922-Q121
Collection Date: 2/19/2021 9:32:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210223A** QC Batch: **R150916** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	1900	6.6	40		µg/L	200	2/23/2021 10:55 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210223C** QC Batch: **85344** PrepDate: **2/22/2021** Analyst: **CEI**							
Chromium	2000	3.2	25		µg/L	25	2/24/2021 02:34 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-67-260-Q121
Lab Order:	N044237	**Collection Date:**	2/19/2021 11:34:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **NV00922-IC7_210223A**	QC Batch: **R150916**			PrepDate:			Analyst: **RAB**
Hexavalent Chromium	350	1.7	10		µg/L	50	2/23/2021 11:04 AM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP7_210223C**	QC Batch: **85344**			PrepDate:		**2/22/2021**	Analyst: **CEI**
Chromium	380	0.65	5.0		µg/L	5	2/24/2021 03:10 AM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	EB-794-Q121
Lab Order:	N044237	**Collection Date:**	2/19/2021 11:55:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210223A** QC Batch: **R150916** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/23/2021 04:22 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044237
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **MB-R150916** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **PBW** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116189**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID **LCS-R150916** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **LCSW** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116190**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.847	0.20	5.000	0	96.9	90	110				

Sample ID **N044237-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116195**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.958	1.0	5.000	0	99.2	90	110				

Sample ID **N044237-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	110663.000	2000	50000	62820	95.7	90	110				

Sample ID **N044267-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	46.203	1.0	25.00	21.50	98.8	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044237
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044267-001AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	46.134	1.0	25.00	21.50	98.6	90	110	46.20	0.149	20	

Sample ID **N044237-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116210**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2869.300	40	1000	1877	99.2	90	110				

Sample ID **N044237-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116211**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2871.460	40	1000	1865	101	90	110				

Sample ID **N044237-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116212**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	605.430	10	250.0	351.9	101	90	110				

Sample ID **N044267-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	14.612	0.20	5.000	9.519	102	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044237
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044267-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116214**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	23.908	0.40	10.00	14.07	98.4	90	110				

Sample ID **N044267-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116215**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	221.608	4.0	100.0	127.4	94.2	90	110				

Sample ID **N044267-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1588.920	20	500.0	1118	94.1	90	110				

Sample ID **N044267-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116217**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4498.900	100	2500	2075	97.0	90	110				

Sample ID **N044235-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.933	0.20	1.000	0	93.3	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044237
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044267-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4117585**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.961	0.20	1.000	0	96.1	90	110				

Sample ID **N044267-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4117587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.983	0.20	1.000	0	98.3	90	110				

Sample ID **N044237-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4117589**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.965	0.20	1.000	0	96.5	90	110				

Sample ID **N044267-002ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4117590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.583	0.20						9.519	0.670	20	

Sample ID **N044227-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4117592**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.948	0.20	1.000	0	94.8	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044237
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID **MB-85344** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/22/2021** RunNo: **150978**
Client ID: **PBW** Batch ID: **85344** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/23/2021** SeqNo: **4119026**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID **LCS-85344** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/22/2021** RunNo: **150978**
Client ID: **LCSW** Batch ID: **85344** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/23/2021** SeqNo: **4119027**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.983	1.0	10.00	0	99.8	85	115				

Sample ID **N044228-001DMS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/22/2021** RunNo: **150978**
Client ID: **ZZZZZZ** Batch ID: **85344** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/23/2021** SeqNo: **4119039**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	3032.556	25	10.00	2835	1980	75	125				S

Sample ID **N044228-001DMSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/22/2021** RunNo: **150978**
Client ID: **ZZZZZZ** Batch ID: **85344** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/23/2021** SeqNo: **4119042**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	2967.483	25	10.00	2835	1320	75	125	3033	2.17	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044237
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **N044228-001D-PS** SampType: **PS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: RunNo: **150978**
Client ID: **ZZZZZZ** Batch ID: **85344** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/23/2021** SeqNo: **4119034**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	2984.601	25	10.00	2835	1500	80	120				S

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-68BR-280-0221
Lab Order:	N044237	**Collection Date:**	2/19/2021 8:24:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210301A** QC Batch: **R151091** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	ND	0.032	0.050		mg/L	1	3/1/2021 08:44 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-68-180-Q121
Lab Order:	N044237	**Collection Date:**	2/19/2021 10:14:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210301A** QC Batch: **R151091** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	23	0.63	1.0		mg/L	20	3/1/2021 09:08 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-68-240-0221
Lab Order:	N044237	**Collection Date:**	2/19/2021 9:22:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210301A** QC Batch: **R151091** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	4.6	0.16	0.25		mg/L	5	3/1/2021 08:54 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-922-Q121
Lab Order:	N044237	**Collection Date:**	2/19/2021 9:32:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210301A** QC Batch: **R151091** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	4.4	0.16	0.25		mg/L	5	3/1/2021 08:59 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-67-260-Q121
Lab Order:	N044237	**Collection Date:**	2/19/2021 11:34:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210301A** QC Batch: **R151091** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.71	0.032	0.050		mg/L	1	3/1/2021 07:25 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044237
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID **MB-R151091** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151091**
Client ID: **PBW** Batch ID: **R151091** TestNo: **SM4500-NO3** Analysis Date: **3/1/2021** SeqNo: **4125293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID **LCS-R151091** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151091**
Client ID: **LCSW** Batch ID: **R151091** TestNo: **SM4500-NO3** Analysis Date: **3/1/2021** SeqNo: **4125294**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.472	0.050	0.5000	0	94.4	85	115				

Sample ID **N044236-002BDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151091**
Client ID: **ZZZZZZ** Batch ID: **R151091** TestNo: **SM4500-NO3** Analysis Date: **3/1/2021** SeqNo: **4125296**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	1.310	0.10						1.304	0.505	20	

Sample ID **N044236-002BMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151091**
Client ID: **ZZZZZZ** Batch ID: **R151091** TestNo: **SM4500-NO3** Analysis Date: **3/1/2021** SeqNo: **4125297**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	2.343	0.10	1.000	1.304	104	75	125				

Sample ID **N044236-002BMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151091**
Client ID: **ZZZZZZ** Batch ID: **R151091** TestNo: **SM4500-NO3** Analysis Date: **3/1/2021** SeqNo: **4125298**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	2.245	0.10	1.000	1.304	94.1	75	125	2.343	4.25	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-68BR-280-0221
Lab Order:	N044237	**Collection Date:**	2/19/2021 8:24:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210223C**	QC Batch: **85344**				PrepDate:	**2/22/2021**	Analyst: **CEI**
Molybdenum	20	0.21	0.50		µg/L	1	2/24/2021 01:10 AM
Selenium	ND	0.36	0.50		µg/L	1	2/24/2021 01:10 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-68-180-Q121
Lab Order:	N044237	**Collection Date:**	2/19/2021 10:14:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP7_210223C**	QC Batch: **85344**				PrepDate:	**2/22/2021**	Analyst: **CEI**
Arsenic	3.2	0.081	0.10		µg/L	1	2/24/2021 01:46 AM
Manganese	ND	0.26	0.50		µg/L	1	3/2/2021 11:19 AM
Molybdenum	53	0.21	0.50		µg/L	1	2/24/2021 01:46 AM
Selenium	23	0.36	0.50		µg/L	1	2/24/2021 01:46 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-68-240-0221
Lab Order:	N044237	**Collection Date:**	2/19/2021 9:22:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210223C**	QC Batch: **85344**				PrepDate:	**2/22/2021**	Analyst: **CEI**
Molybdenum	24	0.21	0.50		µg/L	1	2/24/2021 02:04 AM
Selenium	5.0	0.36	0.50		µg/L	1	2/24/2021 02:04 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-922-Q121
Lab Order:	N044237	**Collection Date:**	2/19/2021 9:32:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210223C**	QC Batch: **85344**				PrepDate:	**2/22/2021**	Analyst: **CEI**
Molybdenum	24	0.21	0.50		µg/L	1	2/24/2021 02:22 AM
Selenium	4.2	0.36	0.50		µg/L	1	3/2/2021 11:25 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-67-260-Q121
Lab Order:	N044237	**Collection Date:**	2/19/2021 11:34:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044237-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210223C**	QC Batch: **85344**				PrepDate:	**2/22/2021**	Analyst: **CEI**
Molybdenum	35	0.21	0.50		µg/L	1	2/24/2021 02:40 AM
Selenium	1.1	0.36	0.50		µg/L	1	2/24/2021 02:40 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044237
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **MB-85344** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/22/2021** RunNo: **150978**
Client ID: **PBW** Batch ID: **85344** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/23/2021** SeqNo: **4119339**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID **LCS-85344** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/22/2021** RunNo: **150978**
Client ID: **LCSW** Batch ID: **85344** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/23/2021** SeqNo: **4119340**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.702	0.10	10.00	0	107	85	115				
Manganese	99.744	0.50	100.0	0	99.7	85	115				
Molybdenum	9.955	0.50	10.00	0	99.5	85	115				
Selenium	9.909	0.50	10.00	0	99.1	85	115				

Sample ID **N044228-001DMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/22/2021** RunNo: **150978**
Client ID: **ZZZZZZ** Batch ID: **85344** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/23/2021** SeqNo: **4119348**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.620	0.10	10.00	1.323	113	75	125				
Manganese	96.604	0.50	100.0	2.190	94.4	75	125				
Molybdenum	17.894	0.50	10.00	6.845	110	75	125				
Selenium	20.421	0.50	10.00	10.36	101	75	125				

Sample ID **N044228-001DMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/22/2021** RunNo: **150978**
Client ID: **ZZZZZZ** Batch ID: **85344** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/23/2021** SeqNo: **4119353**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.131	0.10	10.00	1.323	108	75	125	12.62	3.96	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044237
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **N044228-001DMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/22/2021** RunNo: **150978**
Client ID: **ZZZZZZ** Batch ID: **85344** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/23/2021** SeqNo: **4119353**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	97.397	0.50	100.0	2.190	95.2	75	125	96.60	0.817	20	
Molybdenum	17.912	0.50	10.00	6.845	111	75	125	17.89	0.102	20	
Selenium	18.626	0.50	10.00	10.36	82.7	75	125	20.42	9.19	20	

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis
Address: 1410 Rocky Ridge Dr # 330
Address: Roseville, CA 95661
Phone: 916-786-3302 Fax:
Submitted By: Matt Tranetti
Title: Field Tech
Signature: 2-19-21
I hereby authorize ASSET Labs to perform the tests indicated below.
Project Name: PG&E Topock - GMP
Project Number: 30035275

Report to: Dan Bush
Company: Arcadis
Email: dan.bush@arcadis.com
daniel.moore@critigen.com
Address: 1410 Rocky Ridge Dr # 330
Roseville, CA 95661
Phone: 916-786-3302 Fax:
Sampled By: Nana Tay
I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
Signature:
Date: 2/19/21

Bill to: Marty Bloes
Address:
Address:
Email to: mbloes@pivox.com
P.O.# SWA-ASSET-C9817-057
Phone: 949-727-1400, ext 200
Fax:

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

EDD Requirement	
Excel EDD	
Geotracker	
Labspec	
Others	✓
Specify: RWQCB	
Global ID:	

QA/QC	
RTNE	
RWQCB	✓
CalTrans	
LEVEL III	
LEVEL IV	
Regulatory	
Specify State:	

Sample Receipt Condition	Y	N
1. Chilled	✓	
2. Headspace		
3. Container Intact	✓	
4. Seal Present		✓
5. IR number	2	
6. Method of Cooling: ICE		
Sample Temp: 2.5		

Courier: ASSET
Tracking No.:

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH 250 mL poly	Oxygen and Deuterium Isotopes (CFIRM), Ice 250 mL poly	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH 2x250 mL poly	Alkalinity, Total as CaCO3 (SM2320B) 1 liter poly	Bromide, Sulfate, Chloride (EPA 300.0) 1 liter poly	Fluoride (EPA 300.0) 1 liter poly	Specific Conductance (EPA 120.1) 1 liter poly	Total Dissolved Solids (SM92540) 1 liter poly	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4 125 mL poly	Total Organic Carbon (SM5310C); H2SO4 3x40 mL poly	Metals Dissolved (EPA7470A FF) Hg; HNO3 500 mL poly	Dissolved Metals (SW 6010B); HNO3 Potassium 500 mL poly	Dissolved metals (SW 6010B), HNO3 B, Ca, Fe, Na 500 mL poly	Dissolved metals (SW 6020), HNO3 As, Cr, Mn, Mo, Se 500 mL poly	Dissolved metals (SW 6010B), HNO3 B, Ca, Cu, Fe, Na, Ni 500 mL poly	Dissolved metals (SW 6020), HNO3 Ag, As, Ba, Be, Cd, Co, Cr, Mg, Mn, Mo, Pb, Sb, Se, Tl, V, Zn 500 mL poly	Dissolved metals (SW 6010B), HNO3 Cr, Mo, Se 500 mL poly	Dissolved metals (SW 6020), HNO3 Cr 500 mL poly	Total metals, Chromium (non-filter) (EPA 200.8), HNO3 500 mL poly				Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N044237-01	MW-68BR-280-0221	2/19/2021	8:24		X								X								X							E	3	P	BNS	
2	-02	MW-68-180-Q121	2/19/2021	10:14		X						X		X					X										E	4	P	BNS	
3	-03	MW-68-240-0221	2/19/2021	9:22		X								X								X							E	3	P	BNS	
4	-04	MW-922-Q121	2/19/2021	9:32		X					~~X~~	~~X~~		X				~~X~~				X							E	~~3~~ 4	P	BNS	
5	-05	MW-67-260-0221	2/19/2021	11:34		X								X								X							E	3	P	BNS	
6	-06	EB-794-Q121	2/19/2021	11:55		X																							E	1	P	BNS	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Relinquished by (Signature and Printed Name):	Date/Time:	Received by (Signature and Printed Name):	Date/Time:
Matt Tranetti	2-19-21 1225		2/19/21 1225
Relinquished by (Signature and Printed Name):	Date/Time:	Received by (Signature and Printed Name):	Date/Time:
	2/19/21 1446	Berkys Hernandez Bldg.	2/19/21 1446
Relinquished by (Signature and Printed Name):	Date/Time:	Received by (Signature and Printed Name):	Date/Time:

Turn Around Time (TAT)

- [ ] A = < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
- [ ] D = 3 Workdays
- [X] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Tittle 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs =200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:

H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=$Zn(AC)_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B	(NH4)2SO4/NH4OH	

Container Type:

T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	2/19/2021	Workorder:	N044237
Rep sample Temp (Deg C):	2.5	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: See Correspondence.

Checklist Completed By: BHN BHdez

Reviewed By: MBC 2/23/2021

Subject: Re: PG&E Topock - GMP, 30035275 (ASSET Labs No. N044237)
From: "Madsen, Laura" <Laura.Madsen@arcadis.com>
Date: 2/22/2021, 4:53 PM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>
CC: "rustico.aquino@assetlaboratoriesph.com" <rustico.aquino@assetlaboratoriesph.com>, "maryann.balilu@assetlaboratoriesph.com" <maryann.balilu@assetlaboratoriesph.com>

Hi
Please use MW-67-260-Q121

Thanks
Laura

Get Outlook for iOS

From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Monday, February 22, 2021 6:52:46 PM
To: Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: rustico.aquino@assetlaboratoriesph.com <rustico.aquino@assetlaboratoriesph.com>; maryann.balilu@assetlaboratoriesph.com <maryann.balilu@assetlaboratoriesph.com>
Subject: Fwd: PG&E Topock - GMP, 30035275 (ASSET Labs No. N044237)

Hi Laura,

Please follow up.

Thanks,

-------- Forwarded Message --------
Subject:PG&E Topock - GMP, 30035275 (ASSET Labs No. N044237)
Date: Mon, 22 Feb 2021 11:10:58 -0800
From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
To: Madsen, Laura <Laura.Madsen@arcadis.com>
CC:maryann.balilu@assetlaboratoriesph.com <maryann.balilu@assetlaboratoriesph.com>, rustico.aquino@assetlaboratoriesph.com <rustico.aquino@assetlaboratoriesph.com>

Hi Laura,

Please kindly advise on the following discrepancy for the attached COC:

- Sample 5: ID is MW-67-260-0221 on COC and MW-67-260-Q121 on labels.

--

Subject: RE: PG&E Topock - GMP, 30035275 (ASSET Labs N044237)
From: "Madsen, Laura" <Laura.Madsen@arcadis.com>
Date: 2/22/2021, 2:50 PM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>
CC: "marlon@assetlaboratories.com" <marlon@assetlaboratories.com>, "maryann.balilu@assetlaboratoriesph.com" <maryann.balilu@assetlaboratoriesph.com>, "sdoolittle@blainetech.com" <sdoolittle@blainetech.com>, Nara Tep <Ntep@blainetech.com>, "rustico.aquino@assetlaboratoriesph.com" <rustico.aquino@assetlaboratoriesph.com>

Hi Yoandra,
Please proceed with analysis.

Thanks,
Laura

From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Monday, February 22, 2021 4:51 PM
To: Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: marlon@assetlaboratories.com; maryann.balilu@assetlaboratoriesph.com; sdoolittle@blainetech.com; Nara Tep <Ntep@blainetech.com>; rustico.aquino@assetlaboratoriesph.com
Subject: PG&E Topock - GMP, 30035275 (ASSET Labs N044237)

Hi Laura,

We received this sample again last Friday under WO # N044237 (sample 5). pH for Hex Cr is 12.05. The bottle indicates the correct preservative.

Please confirm if it is OK to proceed.

COC is attached for reference.

Thanks,

On 2/17/2021 12:40 PM, Madsen, Laura wrote:

> Hi Yoandra,
> Can you tell if the sample was put in a bottle with the wrong preservative? Do you have any photos?
>
> Please place all samples for the well on hold. We will have to resample.
>
> Thanks,
> Laura
>
> ---
>
> **From:** Yoandra Rodriguez <yoandra@assetlaboratories.com>
> **Sent:** Wednesday, February 17, 2021 1:02 PM
> **To:** Madsen, Laura <Laura.Madsen@arcadis.com>
> **Cc:** marlon@assetlaboratories.com; maryann.balilu@assetlaboratoriesph.com

Subject: PG&E Topock - GMP, 30035275 (ASSET Labs N044193)

Hi Laura,

I'd like to inform you that sample 8 (MW-67-260-0221) for Hex Cr was received at pH 12.33.

Please advise how to proceed.

COC is attached for reference.

--
Thanks,

Yoandra Rodriguez
Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 | F: 702.307.2691
California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436

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--
Thanks,

Yoandra Rodriguez
Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 | F: 702.307.2691
California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436

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ASSET Laboratories

WORK ORDER Summary

22-Feb-21

WorkOrder: N044237

Client ID: ARCUS02

Project: PG&E Topock - GMP, 30035275 **QC Level:** Level IV **Date Received:** 2/19/2021

Comments: Title 22 Metals Dissolved- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044237-001A	MW-68BR-280-0221	2/19/2021 8:24:00 AM	3/3/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044237-001B			3/3/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044237-001C			3/3/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/3/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/3/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044237-002A	MW-68-180-Q121	2/19/2021 10:14:00 AM	3/3/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044237-002B			3/3/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N044237-002C			3/3/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044237-002D			3/3/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/3/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/3/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044237-003A	MW-68-240-0221	2/19/2021 9:22:00 AM	3/3/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044237-003B			3/3/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044237-003C			3/3/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/3/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/3/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044237-004A	MW-922-Q121	2/19/2021 9:32:00 AM	3/3/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044237-004B			3/3/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044237-004C			3/3/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/3/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/3/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI

ASSET Laboratories

WORK ORDER Summary

22-Feb-21

WorkOrder: N044237

Client ID: ARCUS02

Project: PG&E Topock - GMP, 30035275 **QC Level:** Level IV **Date Received:** 2/19/2021

Comments: Title 22 Metals Dissolved- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044237-005A	MW-67-260-Q121	2/19/2021 11:34:00 AM	3/3/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044237-005B			3/3/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044237-005C			3/3/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	CEI
			3/3/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
			3/3/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	CEI
N044237-006A	EB-794-Q121	2/19/2021 11:55:00 AM	3/3/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044237-007A	FOLDER	3/5/2021	3/3/2021		EDD	Client specific project	☐	☐	☐	LAB
			3/3/2021		Folder	Level IV Report	☐	☐	☐	LAB
			3/3/2021		Folder	Folder	☐	☐	☐	LAB
			3/5/2021		Folder	Folder	☐	☐	☐	LAB

March 05, 2021

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N044267

RE: PG&E Topock - TMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on February 22, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

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

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - TMP, RC000753.801D
Lab Order: N044267

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time.

ASSET Laboratories

Date: *05-Mar-21*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - TMP, RC000753.801D
Lab Order: N044267
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044267-001A	MW-94-030-0221	Groundwater	2/22/2021 1:09:00 PM	2/22/2021	3/5/2021
N044267-002A	MW-94-100-0221	Groundwater	2/22/2021 12:29:00 PM	2/22/2021	3/5/2021
N044267-003A	MW-94-175-0221	Groundwater	2/22/2021 11:56:00 AM	2/22/2021	3/5/2021
N044267-004A	MW-85-129-0221	Groundwater	2/22/2021 12:53:00 PM	2/22/2021	3/5/2021
N044267-005A	MW-85-217-0221	Groundwater	2/22/2021 1:36:00 PM	2/22/2021	3/5/2021
N044267-006A	MW-85-237-0221	Groundwater	2/22/2021 2:26:00 PM	2/22/2021	3/5/2021
N044267-007A	EB-797-Q121	Groundwater	2/22/2021 2:40:00 PM	2/22/2021	3/5/2021
N044267-008A	EB-796-Q121	Groundwater	2/22/2021 2:00:00 PM	2/22/2021	3/5/2021

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-94-030-0221
Lab Order:	N044267	**Collection Date:**	2/22/2021 1:09:00 PM
Project:	PG&E Topock - TMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044267-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210223A** QC Batch: **R150916** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	21	0.17	1.0		µg/L	5	2/23/2021 12:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-94-100-0221
Lab Order:	N044267	**Collection Date:**	2/22/2021 12:29:00 PM
Project:	PG&E Topock - TMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044267-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210223A** QC Batch: **R150916** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	9.5	0.033	0.20		µg/L	1	2/23/2021 12:26 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-94-175-0221
Lab Order:	N044267	**Collection Date:**	2/22/2021 11:56:00 AM
Project:	PG&E Topock - TMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044267-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210223A** QC Batch: **R150916** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	14	0.066	0.40		µg/L	2	2/23/2021 12:35 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-85-129-0221
Lab Order:	N044267	**Collection Date:**	2/22/2021 12:53:00 PM
Project:	PG&E Topock - TMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044267-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210223A** QC Batch: **R150916** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	130	0.66	4.0		µg/L	20	2/23/2021 12:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-85-217-0221
Lab Order:	N044267	**Collection Date:**	2/22/2021 1:36:00 PM
Project:	PG&E Topock - TMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044267-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210223A** QC Batch: **R150916** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	1100	3.3	20		µg/L	100	2/23/2021 12:54 PM

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-85-237-0221
Lab Order:	N044267	**Collection Date:**	2/22/2021 2:26:00 PM
Project:	PG&E Topock - TMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044267-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210223A** QC Batch: **R150916** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	2100	17	100		µg/L	500	2/23/2021 01:04 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	EB-797-Q121
Lab Order:	N044267	**Collection Date:**	2/22/2021 2:40:00 PM
Project:	PG&E Topock - TMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044267-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210223A** QC Batch: **R150916** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/23/2021 03:44 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *05-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	EB-796-Q121
Lab Order:	N044267	**Collection Date:**	2/22/2021 2:00:00 PM
Project:	PG&E Topock - TMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044267-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210223A** QC Batch: **R150916** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/23/2021 04:03 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044267
Project: PG&E Topock - TMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **MB-R150916** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **PBW** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116189**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID **LCS-R150916** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **LCSW** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116190**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.847	0.20	5.000	0	96.9	90	110				

Sample ID **N044237-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116195**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.958	1.0	5.000	0	99.2	90	110				

Sample ID **N044237-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116199**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	110663.000	2000	50000	62820	95.7	90	110				

Sample ID **N044267-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	46.203	1.0	25.00	21.50	98.8	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044267
Project: PG&E Topock - TMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044267-001AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116207**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	46.134	1.0	25.00	21.50	98.6	90	110	46.20	0.149	20	

Sample ID **N044237-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116210**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2869.300	40	1000	1877	99.2	90	110				

Sample ID **N044237-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116211**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2871.460	40	1000	1865	101	90	110				

Sample ID **N044237-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116212**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	605.430	10	250.0	351.9	101	90	110				

Sample ID **N044267-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116213**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	14.612	0.20	5.000	9.519	102	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044267
Project: PG&E Topock - TMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044267-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116214**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	23.908	0.40	10.00	14.07	98.4	90	110				

Sample ID **N044267-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116215**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	221.608	4.0	100.0	127.4	94.2	90	110				

Sample ID **N044267-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116216**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1588.920	20	500.0	1118	94.1	90	110				

Sample ID **N044267-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116217**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4498.900	100	2500	2075	97.0	90	110				

Sample ID **N044235-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4116219**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.933	0.20	1.000	0	93.3	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044267
Project: PG&E Topock - TMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044267-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4117585**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.961	0.20	1.000	0	96.1	90	110				

Sample ID **N044267-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4117587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.983	0.20	1.000	0	98.3	90	110				

Sample ID **N044237-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4117589**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.965	0.20	1.000	0	96.5	90	110				

Sample ID **N044267-002ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4117590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.583	0.20						9.519	0.670	20	

Sample ID **N044227-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150916**
Client ID: **ZZZZZZ** Batch ID: **R150916** TestNo: **EPA 218.6** Analysis Date: **2/23/2021** SeqNo: **4117592**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.948	0.20	1.000	0	94.8	90	110				

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

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California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis
Address: 1410 Rocky Ridge Dr # 330
Address: Roseville, CA 95661
Phone: 916-786-3302 Fax:
Submitted By: Riggie Tep
Title: Field Technician
Signature: Date: 2/22/2021

I hereby authorize ASSET Labs to perform the tests indicated below.

Project Name: PG&E Topock - TMP
Project Number: RC000753.801D

Report to: Dan Bush
Company: Arcadis
Email: dan.bush@arcadis.com
daniel.moore@critigen.com
Address: 1410 Rocky Ridge Dr # 330
Roseville, CA 95661
Phone: 916-786-3302 Fax:
Sampled By: Matt Trainotti

I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Signature: Date: 2/22/2021

Bill to: Marty Bloes
Address:
Address:
Email to: mbloes@pivox.com
P.O.# SWA-ASSET-C9817-051
Phone: 949-727-1400, ext 200
Fax:

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

EDD Requirement	
Excel EDD	
Geotracker	
Labspec	
Others	✓
Specify: RWQCB	
Global ID:	

QA/QC	
RTNE	
RWQCB	✓
CalTrans	
LEVEL III	
LEVEL IV	
Regulatory	
Specify State:	

Sample Receipt Condition	Y	N
1. Chilled	✓	
2. Headspace		
3. Container Intact	✓	
4. Seal Present		✓
5. IR number	2	
6. Method of Cooling: ICE		
Sample Temp: 1.8/2.4°C		
Courier: ASSET		
Tracking No.:		

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 mL poly)	Oxygen and Deuterium Isotopes (CFIRM), Ice (250 mL poly)	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (2x250 mL poly)	Alkalinity, Total as CaCO3 (SM2320B) (1 liter poly)	Bromide, Sulfate, Fluoride, Chloride (EPA 300.0) (1 liter poly)	Fluoride (EPA 300.0) (1 liter poly)	Specific Conductance (EPA 120.1) (1 liter poly)	Total Dissolved Solids (SM92540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrogen; H2SO4 (125 mL poly)	Total Organic Carbon (SM5310C); H2SO4 (3x40 mL poly)	Dissolved metals Title 22 (SW 6020), HNO3 (500 mL poly)	Dissolved Metals (SW 6010B); HNO3 B, Ca, Fe, Na (500 mL poly)	Dissolved metals (SW 6020), HNO3 Ag, As, Ba, Be, Cd, Co, Cr, Mg, Mn, Mo, Pb, Sb, Se, Tl, V, Zn (500 mL poly)	Dissolved Metals (SW 6010B); HNO3 B, Ca, Cu, Fe, Na, Ni, (500 mL poly)	Metals Dissolved (EPA7470A FF) Hg; HNO3 (500 mL poly)	Dissolved Metals (SW 6010B); HNO3 Potassium (500 mL poly)	Total metals, Title 22 (non-filter) (SW6010B/SW7471A), HNO3 (500 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N044267-01	MW-94-030-0221	2/22/2021	13:09		X																E	1	P	B	MS/MSD
2	-02	MW-94-100-0221	2/22/2021	12:29		X																E	1	P	B	
3	-03	MW-94-175-0221	2/22/2021	11:56		X																E	1	P	B	
4	-04	MW-85-129-0221	2/22/2021	12:53		X																E	1	P	B	
5	-05	MW-85-217-0221	2/22/2021	13:36		X																E	1	P	B	
6	-06	MW-85-237-0221	2/22/2021	14:26		X																E	1	P	B	
7	-07	EB-797-Q121	2/22/2021	14:40		X																E	1	P	B	
8	-08	EB-796-Q121	2/22/2021	14:00		X																E	1	P	B	
9																										
10																										
11																										
12																										
13																										
14																										
15																										

Relinquished by (Signature and Printed Name):	Date/Time:	Received by (Signature and Printed Name):	Date/Time:
Riggie Tep	1540 ## 2/22/21	RUA ROMEO ALCANTARA	2/22/21 1540
Relinquished by (Signature and Printed Name):	Date/Time:	Received by (Signature and Printed Name):	Date/Time:
REC / REC RUA ROMEO		ALCANTARA	2/22/21 1826
Relinquished by (Signature and Printed Name):	Date/Time:	Received by (Signature and Printed Name):	Date/Time:

Turn Around Time (TAT)

- [ ] A < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
- [ ] D = 3 Workdays
- [X] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:

Title 22 Metals Dissolved- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Title 22 Metals TOTAL- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn

Preservatives:

H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=$Zn(AC)_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B	(NH4)2SO4/NH4OH	

Container Type:

T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	2/22/2021	Workorder:	N044267
Rep sample Temp (Deg C):	1.8/2.4	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments:

Checklist Completed By: BHN BHdez 2/23/2021

Reviewed By: MBC 2/24/2021

ASSET Laboratories

WORK ORDER Summary

23-Feb-21

WorkOrder: N044267

Client ID: ARCUS02

Project: PG&E Topock - TMP, RC000753.801D **QC Level:** Level IV **Date Received:** 2/22/2021

Comments: Title 22 Metals Dissolved- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044267-001A	MW-94-030-0221	2/22/2021 1:09:00 PM	3/8/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☑	☐	WW
N044267-002A	MW-94-100-0221	2/22/2021 12:29:00 PM	3/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044267-003A	MW-94-175-0221	2/22/2021 11:56:00 AM	3/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044267-004A	MW-85-129-0221	2/22/2021 12:53:00 PM	3/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044267-005A	MW-85-217-0221	2/22/2021 1:36:00 PM	3/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044267-006A	MW-85-237-0221	2/22/2021 2:26:00 PM	3/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044267-007A	EB-797-Q121	2/22/2021 2:40:00 PM	3/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044267-008A	EB-796-Q121	2/22/2021 2:00:00 PM	3/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044267-009A	FOLDER	3/8/2021	3/8/2021		EDD	Client specific project	☐	☐	☐	LAB
			3/8/2021		Folder	Folder	☐	☐	☐	LAB
			3/8/2021		Folder	Level IV Report	☐	☐	☐	LAB
			3/8/2021		Folder	Folder	☐	☐	☐	LAB

March 12, 2021

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N044337

RE: PG&E Topock - GMP, 30035275

Attention: Dan Bush

Enclosed are the results for sample(s) received on February 25, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

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

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for some samples due to matrix interference. Samples were analyzed at lower dilution however matrix spike recovery and/or retention time criteria were not met indicating possible matrix interference. Samples were reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Because the results for total dissolved chromium (7.6 ug/L) and hexavalent chromium (5.1 ug/L) for sample N044337-001 (MW-46-175-Q121) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (1.7 ug/L) and hexavalent chromium (0 ug/L) for sample N044337-002 (MW-34-100-Q121) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Analytical Comments for EPA 6020_Dissolved:

Because the results for total dissolved chromium (7.6 ug/L) and hexavalent chromium (5.1 ug/L) for sample N044337-001 (MW-46-175-Q121) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 7.2 and 5.8 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

Because the results for total dissolved chromium (1.7 ug/L) and hexavalent chromium (0 ug/L) for sample N044337-002 (MW-34-100-Q121) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 1.6 and 0.49 ug/L, respectively. Since these

data confirmed the original result for total dissolved chromium, the original result is reported.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Chromium in QC samples N044321- 001C-MS and N044321-001C-MSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *12-Mar-21*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - GMP, 30035275
Lab Order: N044337
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044337-001A	MW-46-175-Q121	Groundwater	2/25/2021 1:31:00 PM	2/25/2021	3/12/2021
N044337-001B	MW-46-175-Q121	Groundwater	2/25/2021 1:31:00 PM	2/25/2021	3/12/2021
N044337-001C	MW-46-175-Q121	Groundwater	2/25/2021 1:31:00 PM	2/25/2021	3/12/2021
N044337-001D	MW-46-175-Q121	Groundwater	2/25/2021 1:31:00 PM	2/25/2021	3/12/2021
N044337-002A	MW-34-100-Q121	Groundwater	2/25/2021 12:32:00 PM	2/25/2021	3/12/2021
N044337-002B	MW-34-100-Q121	Groundwater	2/25/2021 12:32:00 PM	2/25/2021	3/12/2021
N044337-002C	MW-34-100-Q121	Groundwater	2/25/2021 12:32:00 PM	2/25/2021	3/12/2021
N044337-002D	MW-34-100-Q121	Groundwater	2/25/2021 12:32:00 PM	2/25/2021	3/12/2021
N044337-003A	MW-38S-Q121	Groundwater	2/25/2021 12:09:00 PM	2/25/2021	3/12/2021
N044337-003B	MW-38S-Q121	Groundwater	2/25/2021 12:09:00 PM	2/25/2021	3/12/2021
N044337-003C	MW-38S-Q121	Groundwater	2/25/2021 12:09:00 PM	2/25/2021	3/12/2021
N044337-003D	MW-38S-Q121	Groundwater	2/25/2021 12:09:00 PM	2/25/2021	3/12/2021
N044337-004A	MW-38D-0221	Groundwater	2/25/2021 12:52:00 PM	2/25/2021	3/12/2021
N044337-004B	MW-38D-0221	Groundwater	2/25/2021 12:52:00 PM	2/25/2021	3/12/2021
N044337-004C	MW-38D-0221	Groundwater	2/25/2021 12:52:00 PM	2/25/2021	3/12/2021

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-46-175-Q121
Lab Order:	N044337	**Collection Date:**	2/25/2021 1:31:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044337-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210226B**	QC Batch: **R151016**			PrepDate:			Analyst: **LR**
Specific Conductance	19000	0.10	0.10		umhos/cm	1	2/26/2021 12:05 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-34-100-Q121
Lab Order:	N044337	**Collection Date:**	2/25/2021 12:32:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044337-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210226B**	QC Batch: **R151016**			PrepDate:			Analyst: **LR**
Specific Conductance	11000	0.10	0.10		umhos/cm	1	2/26/2021 12:05 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044337
Project: PG&E Topock - GMP, 30035275
Lab ID: N044337-003

Client Sample ID: MW-38S-Q121
Collection Date: 2/25/2021 12:09:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
EPA 120.1							
RunID: **NV00922-WC_210226B** QC Batch: **R151016** PrepDate: Analyst: **LR**							
Specific Conductance	1700	0.10	0.10		umhos/cm	1	2/26/2021 12:05 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044337
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N044337-001BDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **151016**
Client ID: **ZZZZZZ** Batch ID: **R151016** TestNo: **EPA 120.1** Analysis Date: **2/26/2021** SeqNo: **4121150**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	18940.000	0.10						18910	0.159	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-46-175-Q121
Lab Order:	N044337	**Collection Date:**	2/25/2021 1:31:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044337-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210226A** QC Batch: **R151063** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	5.1	0.17	1.0		µg/L	5	2/26/2021 03:12 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210308E** QC Batch: **85435** PrepDate: **2/26/2021** Analyst: **CEI**							
Chromium	7.6	0.13	1.0		µg/L	1	3/8/2021 05:52 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-34-100-Q121
Lab Order:	N044337	**Collection Date:**	2/25/2021 12:32:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044337-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210226A** QC Batch: **R151063** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.17	1.0		µg/L	5	2/26/2021 03:32 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210308E** QC Batch: **85435** PrepDate: **2/26/2021** Analyst: **CEI**							
Chromium	1.7	0.13	1.0		µg/L	1	3/8/2021 06:04 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-38S-Q121
Lab Order:	N044337	**Collection Date:**	2/25/2021 12:09:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044337-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210226A** QC Batch: **R151063** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	8.4	0.033	0.20		µg/L	1	2/26/2021 11:22 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210308E** QC Batch: **85435** PrepDate: **2/26/2021** Analyst: **CEI**							
Chromium	9.1	0.13	1.0		µg/L	1	3/8/2021 06:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-38D-0221
Lab Order:	N044337	**Collection Date:**	2/25/2021 12:52:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044337-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210226A** QC Batch: **R151063** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	25	0.17	1.0		µg/L	5	2/26/2021 11:41 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210308E** QC Batch: **85435** PrepDate: **2/26/2021** Analyst: **CEI**							
Chromium	22	0.13	1.0		µg/L	1	3/8/2021 06:27 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044337
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R151063** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **PBW** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R151063** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **LCSW** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.814	0.20	5.000	0	96.3	90	110				

Sample ID: **N044337-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124307**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	13.547	0.20	5.000	8.388	103	90	110				

Sample ID: **N044337-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124309**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	49.682	1.0	25.00	24.97	98.9	90	110				

Sample ID: **N044338-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124313**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.782	1.0	5.000	0	95.6	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044337
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044338-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124315**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.391	0.20	1.000	0.3692	102	90	110				

Sample ID: **N044338-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124317**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.660	0.20	1.000	1.645	101	90	110				

Sample ID: **N044338-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124321**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	13.028	0.20	5.000	7.787	105	90	110				

Sample ID: **N044338-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124323**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	48.230	1.0	25.00	23.66	98.3	90	110				

Sample ID: **N044338-005AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124324**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.649	0.20	1.000	1.645	100	90	110	2.660	0.380	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044337
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044337-003ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124325**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.423	0.20						8.388	0.418	20	

Sample ID: **N044337-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124327**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.915	1.0	5.000	5.110	96.1	90	110				

Sample ID: **N044337-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124329**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.739	1.0	5.000	0	94.8	90	110				

Sample ID: **N044338-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124333**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.235	1.0	5.000	3.509	94.5	90	110				

Sample ID: **N044338-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124335**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.941	1.0	5.000	0	98.8	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044337
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044338-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124337**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.977	0.20	1.000	0	97.7	90	110				

Sample ID: **N044338-009AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151063**
Client ID: **ZZZZZZ** Batch ID: **R151063** TestNo: **EPA 218.6** Analysis Date: **2/26/2021** SeqNo: **4124339**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.969	0.20	1.000	0	96.9	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044337
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **MB-85435** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/26/2021** RunNo: **151242**
Client ID: **PBW** Batch ID: **85435** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/8/2021** SeqNo: **4137065**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: **LCS-85435** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/26/2021** RunNo: **151242**
Client ID: **LCSW** Batch ID: **85435** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/8/2021** SeqNo: **4137066**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.931	1.0	10.00	0	99.3	85	115				

Sample ID: **N044321-001C-MS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/26/2021** RunNo: **151242**
Client ID: **ZZZZZZ** Batch ID: **85435** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/8/2021** SeqNo: **4137076**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	123.693	1.0	10.00	117.3	63.7	75	125				S

Sample ID: **N044321-001C-MSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/26/2021** RunNo: **151242**
Client ID: **ZZZZZZ** Batch ID: **85435** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/8/2021** SeqNo: **4137078**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	124.768	1.0	10.00	117.3	74.4	75	125	123.7	0.865	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044337
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **N044321-001C-PS** SampType: **PS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: RunNo: **151242**
Client ID: **ZZZZZZ** Batch ID: **85435** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/8/2021** SeqNo: **4137074**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	124.822	1.0	10.00	117.3	75.0	80	120				S

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-46-175-Q121
Lab Order:	N044337	**Collection Date:**	2/25/2021 1:31:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044337-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210305A** QC Batch: **R151199** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	1.1	0.032	0.050		mg/L	1	3/5/2021 02:48 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-34-100-Q121
Lab Order:	N044337	**Collection Date:**	2/25/2021 12:32:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044337-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210305A** QC Batch: **R151199** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	ND	0.032	0.050		mg/L	1	3/5/2021 04:17 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-38S-Q121
Lab Order:	N044337	**Collection Date:**	2/25/2021 12:09:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044337-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210305A** QC Batch: **R151199** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	5.3	0.16	0.25		mg/L	5	3/5/2021 04:36 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-38D-0221
Lab Order:	N044337	**Collection Date:**	2/25/2021 12:52:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044337-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210309B** QC Batch: **R151282** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.12	0.032	0.050		mg/L	1	3/9/2021 10:09 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044337
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R151199** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151199**
Client ID: **PBW** Batch ID: **R151199** TestNo: **SM4500-NO3** Analysis Date: **3/5/2021** SeqNo: **4132118**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R151199** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151199**
Client ID: **LCSW** Batch ID: **R151199** TestNo: **SM4500-NO3** Analysis Date: **3/5/2021** SeqNo: **4132119**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.476	0.050	0.5000	0	95.2	85	115				

Sample ID: **N044322-011BDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151199**
Client ID: **ZZZZZZ** Batch ID: **R151199** TestNo: **SM4500-NO3** Analysis Date: **3/5/2021** SeqNo: **4132121**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	2.713	0.25						2.582	4.97	20	

Sample ID: **N044322-011BMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151199**
Client ID: **ZZZZZZ** Batch ID: **R151199** TestNo: **SM4500-NO3** Analysis Date: **3/5/2021** SeqNo: **4132122**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	5.369	0.25	2.500	2.582	112	75	125				

Sample ID: **N044322-011BMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151199**
Client ID: **ZZZZZZ** Batch ID: **R151199** TestNo: **SM4500-NO3** Analysis Date: **3/5/2021** SeqNo: **4132123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	5.114	0.25	2.500	2.582	101	75	125	5.369	4.87	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044337
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R151282** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151282**
Client ID: **PBW** Batch ID: **R151282** TestNo: **SM4500-NO3** Analysis Date: **3/9/2021** SeqNo: **4140145**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R151282** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151282**
Client ID: **LCSW** Batch ID: **R151282** TestNo: **SM4500-NO3** Analysis Date: **3/9/2021** SeqNo: **4140146**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.497	0.050	0.5000	0	99.4	85	115				

Sample ID: **N044351-001CDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151282**
Client ID: **ZZZZZZ** Batch ID: **R151282** TestNo: **SM4500-NO3** Analysis Date: **3/9/2021** SeqNo: **4140148**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.037	0.050						0.05490	0	20	

Sample ID: **N044351-001CMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151282**
Client ID: **ZZZZZZ** Batch ID: **R151282** TestNo: **SM4500-NO3** Analysis Date: **3/9/2021** SeqNo: **4140149**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.564	0.050	0.5000	0.05490	102	75	125				

Sample ID: **N044351-001CMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151282**
Client ID: **ZZZZZZ** Batch ID: **R151282** TestNo: **SM4500-NO3** Analysis Date: **3/9/2021** SeqNo: **4140150**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.568	0.050	0.5000	0.05490	103	75	125	0.5639	0.636	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-46-175-Q121
Lab Order:	N044337	**Collection Date:**	2/25/2021 1:31:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044337-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210308E**	QC Batch: **85435**				PrepDate:	**2/26/2021**	Analyst: **CEI**
Molybdenum	180	1.1	2.5		µg/L	5	3/8/2021 05:58 PM
Selenium	0.62	0.36	0.50		µg/L	1	3/8/2021 05:52 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-34-100-Q121
Lab Order:	N044337	**Collection Date:**	2/25/2021 12:32:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044337-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210308E**	QC Batch: **85435**				PrepDate:	**2/26/2021**	Analyst: **CEI**
Arsenic	ND	0.081	0.10		µg/L	1	3/8/2021 06:04 PM
Manganese	160	0.26	0.50		µg/L	1	3/8/2021 06:04 PM
Molybdenum	55	0.21	0.50		µg/L	1	3/8/2021 06:04 PM
Selenium	ND	0.36	0.50		µg/L	1	3/8/2021 06:04 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-38S-Q121
Lab Order:	N044337	**Collection Date:**	2/25/2021 12:09:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044337-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210308E**	QC Batch: **85435**				PrepDate:	**2/26/2021**	Analyst: **CEI**
Arsenic	5.1	0.081	0.10		µg/L	1	3/8/2021 06:15 PM
Manganese	74	0.26	0.50		µg/L	1	3/8/2021 06:15 PM
Molybdenum	17	0.21	0.50		µg/L	1	3/8/2021 06:15 PM
Selenium	3.3	0.36	0.50		µg/L	1	3/8/2021 06:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-38D-0221
Lab Order:	N044337	**Collection Date:**	2/25/2021 12:52:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044337-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210308E**	QC Batch: **85435**				PrepDate:	**2/26/2021**	Analyst: **CEI**
Arsenic	ND	0.081	0.10		µg/L	1	3/9/2021 07:18 AM
Manganese	40	0.26	0.50		µg/L	1	3/8/2021 06:27 PM
Molybdenum	78	0.21	0.50		µg/L	1	3/8/2021 06:27 PM
Selenium	ND	0.36	0.50		µg/L	1	3/8/2021 06:27 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044337
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **MB-85435** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/26/2021** RunNo: **151242**
Client ID: **PBW** Batch ID: **85435** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/8/2021** SeqNo: **4137294**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: **LCS-85435** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/26/2021** RunNo: **151242**
Client ID: **LCSW** Batch ID: **85435** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/8/2021** SeqNo: **4137295**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.296	0.10	10.00	0	103	85	115				
Manganese	99.819	0.50	100.0	0	99.8	85	115				
Molybdenum	9.825	0.50	10.00	0	98.2	85	115				
Selenium	10.598	0.50	10.00	0	106	85	115				

Sample ID: **N044321-001C-MS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/26/2021** RunNo: **151242**
Client ID: **ZZZZZZ** Batch ID: **85435** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/8/2021** SeqNo: **4137305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.789	0.10	10.00	0.8978	98.9	75	125				
Manganese	91.316	0.50	100.0	0.4825	90.8	75	125				
Molybdenum	15.317	0.50	10.00	4.740	106	75	125				
Selenium	15.599	0.50	10.00	5.849	97.5	75	125				

Sample ID: **N044321-001C-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/26/2021** RunNo: **151242**
Client ID: **ZZZZZZ** Batch ID: **85435** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/8/2021** SeqNo: **4137307**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.699	0.10	10.00	0.8978	98.0	75	125	10.79	0.839	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044337
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **N044321-001C-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/26/2021** RunNo: **151242**
Client ID: **ZZZZZZ** Batch ID: **85435** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/8/2021** SeqNo: **4137307**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	91.835	0.50	100.0	0.4825	91.4	75	125	91.32	0.566	20	
Molybdenum	15.293	0.50	10.00	4.740	106	75	125	15.32	0.154	20	
Selenium	15.620	0.50	10.00	5.849	97.7	75	125	15.60	0.137	20	

Qualifiers:

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

N 044337

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes	
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:	
Address: Roseville, CA 95661	Email: dan.bush@arcadis.com, daniel.moore@critigen.com	Address:	
Phone: 916-786-3302 / Fax:	Address: 1410 Rocky Ridge Dr # 330, Roseville, CA 95661	Email to: mbloes@pivox.com	P.O.# SWA-ASSET-C9817-057
Submitted By: Riggie Tep		Phone: 949-727-1400, ext 200	Fax:
Title: Field Technician	Phone: 916-786-3302 / Fax:		
Signature: Date: 2/25/2021	Sampled By: Matt Trainotti		
I hereby authorize ASSET Labs to perform the tests indicated below.	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.		
Project Name: PG&E Topock - GMP	Signature: / Date: 2/25/21		
Project Number: 30035275			

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

EDD Requirement		QA/QC		Sample Receipt Condition	Y	N
Excel EDD		RTNE		1. Chilled	✓	
Geotracker		RWQCB	✓	2. Headspace		
Labspec		CalTrans		3. Container Intact	✓	
Others	✓	LEVEL III		4. Seal Present		✓
Specify: RWQCB		LEVEL IV		5. IR number	2	
Global ID:		Regulatory		6. Method of Cooling: ICE		
		Specify State:		Sample Temp: 2.1C / 2.1C		

Courier: ASSET
Tracking No.:

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 mL poly)	Oxygen and Deuterium Isotopes (CFIRM), Ice (250 mL poly)	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (2x250 mL poly)	Alkalinity, Total as CaCO3 (SM2320B) (1 liter poly)	Bromide, Sulfate, Chloride (EPA 300.0) (1 liter poly)	Fluoride (EPA 300.0) (1 liter poly)	Specific Conductance (EPA 120.1) (1 liter poly)	Total Dissolved Solids (SM92540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4 (125 mL poly)	Total Organic Carbon (SM5310C); H2SO4 (3x40 mL poly)	Metals Dissolved (EPA7470A FF) Hg; HNO3 (500 mL poly)	Dissolved Metals (SW 6010B); HNO3 Potassium (500 mL poly)	Dissolved metals (SW 6010B), HNO3 B, Ca, Fe, Na (500 mL poly)	Dissolved metals (SW 6020), HNO3 As, Cr, Mn, Mo, Se (500 mL poly)	Dissolved metals (SW 6010B), HNO3 B, Ca, Cu, Fe, Na, Ni (500 mL poly)	Dissolved metals (SW 6020), HNO3 Ag, As, Ba, Be, Cd, Co, Cr, Mg, Mn, Mo, Pb, Sb, Se, Tl, V, Zn (500 mL poly)	Dissolved metals (SW 6010B), HNO3 Cr, Mo, Se (500 mL poly)	Dissolved metals (SW 6020), HNO3 Cr (500 mL poly)	Total metals, Chromium (non-filter) (EPA 200.8), HNO3 (500 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N044337-01	MW-46-175-Q121	2/25/2021	13:31		X						X		X								X			E	4	P	BNS	
2	-02	MW-34-100-Q121	2/25/2021	12:32		X						X		X					X						E	4	P	BNS	
3	-03	MW-38S-Q121	2/25/2021	12:09		X						X		X					X						E	4	P	BNS	
4	-04	MW-38D-0221	2/25/2021	12:53		X								X					X						E	3	P	BNS	
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Reliquished by (Signature and Printed Name):	Date/Time:	Received by (Signature and Printed Name):	Date/Time:
Riggie Tep	1505 2/25/21	ROMEO ALCANTARA	2/25/21 1805
Reliquished by (Signature and Printed Name): REC / REC ROMEO ALCANTARA	Date/Time: 2/25/21 2100	Received by (Signature and Printed Name):	Date/Time:
Reliquished by (Signature and Printed Name):	Date/Time:	Received by (Signature and Printed Name):	Date/Time:

Turn Around Time (TAT)

- [ ] A < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
- [ ] D = 3 Workdays
- [X] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Tittle 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
   Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:			
H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=Zn(AC)$_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B	(NH4)2SO4/NH4OH	

Container Type:		
T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	2/25/2021	Workorder:	N044337
Rep sample Temp (Deg C):	2.1/2.1	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: See Correspondence.

Checklist Completed By: BHN BHdez 2/26/2021

Reviewed By: MBC 3/1/2021

Subject: RE: PG&E Topock - GMP, 300035275 (ASSET Labs No. N044337)
From: "Madsen, Laura" <Laura.Madsen@arcadis.com>
Date: 3/1/2021, 7:03 AM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>
CC: "rustico.aquino@assetlaboratoriesph.com" <rustico.aquino@assetlaboratoriesph.com>, "maryann.balilu@assetlaboratoriesph.com" <maryann.balilu@assetlaboratoriesph.com>, Tina Rice <Tina.Rice@critigen.com>

Please use the time o 12:52.

Thanks!
Laura

From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Friday, February 26, 2021 5:51 PM
To: Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: rustico.aquino@assetlaboratoriesph.com; maryann.balilu@assetlaboratoriesph.com; Tina Rice <Tina.Rice@critigen.com>
Subject: PG&E Topock - GMP, 300035275 (ASSET Labs No. N044337)

Hi Laura,

Please kindly advise on the following discrepancy for the attached COC:

- Sample 4 (MW-38D-0221): Collection time is 12:53 on COC and 12:52 on labels.

Thanks,

--
Thanks,

Yoandra Rodriguez
Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 | F: 702.307.2691
California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436

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ASSET Laboratories

WORK ORDER Summary

01-Mar-21

WorkOrder: N044337

Client ID: ARCUS02

Project: PG&E Topock - GMP, 30035275 **QC Level:** Level IV **Date Received:** 2/25/2021

Comments: Title 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044337-001A	MW-46-175-Q121	2/25/2021 1:31:00 PM	3/11/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044337-001B			3/11/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N044337-001C			3/11/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044337-001D			3/11/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			3/11/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			3/11/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N044337-002A	MW-34-100-Q121	2/25/2021 12:32:00 PM	3/11/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044337-002B			3/11/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N044337-002C			3/11/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044337-002D			3/11/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			3/11/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			3/11/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N044337-003A	MW-38S-Q121	2/25/2021 12:09:00 PM	3/11/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044337-003B			3/11/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N044337-003C			3/11/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044337-003D			3/11/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			3/11/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			3/11/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N044337-004A	MW-38D-0221	2/25/2021 12:52:00 PM	3/11/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044337-004B			3/11/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044337-004C			3/11/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

01-Mar-21

WorkOrder: N044337

Client ID: ARCUS02

Project: PG&E Topock - GMP, 30035275 **QC Level:** Level IV **Date Received:** 2/25/2021

Comments: Title 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044337-004C	MW-38D-0221	2/25/2021 12:52:00 PM	3/11/2021	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			3/11/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N044337-005A	FOLDER	3/11/2021	3/11/2021		EDD	Client specific project	☐	☐	☐	
			3/11/2021		Folder	Folder	☐	☐	☐	
			3/11/2021		Folder	Level IV Report	☐	☐	☐	
			3/11/2021		Folder	Folder	☐	☐	☐	

March 15, 2021

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N044351

RE: PG&E Topock - GMP, 30035275

Attention: Dan Bush

Enclosed are the results for sample(s) received on February 26, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

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

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Dilution was necessary for some samples due to matrix interference. Samples were analyzed at lower dilution however matrix spike recovery and retention time criteria were not met indicating possible matrix interference. Samples were reported at dilution that meets matrix spike recovery limit and the detected peak within retention time window.

Because the results for total dissolved chromium (4.9 ug/L) and hexavalent chromium (2.5 ug/L) for sample N044351-001 (MW-44-115-Q121) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Analytical Comments for EPA 6020_Dissolved:

Because the results for total dissolved chromium (4.9 ug/L) and hexavalent chromium (2.5 ug/L) for sample N044351-001 (MW-44-115-Q121) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 4.7 and 2.8 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

ASSET Laboratories

Date: *15-Mar-21*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - GMP, 30035275
Lab Order: N044351
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044351-001A	MW-44-115-Q121	Groundwater	2/26/2021 7:40:00 AM	2/26/2021	3/15/2021
N044351-001B	MW-44-115-Q121	Groundwater	2/26/2021 7:40:00 AM	2/26/2021	3/15/2021
N044351-001C	MW-44-115-Q121	Groundwater	2/26/2021 7:40:00 AM	2/26/2021	3/15/2021
N044351-001D	MW-44-115-Q121	Groundwater	2/26/2021 7:40:00 AM	2/26/2021	3/15/2021
N044351-002A	MW-66BR-270-0221	Groundwater	2/26/2021 8:30:00 AM	2/26/2021	3/15/2021
N044351-002B	MW-66BR-270-0221	Groundwater	2/26/2021 8:30:00 AM	2/26/2021	3/15/2021
N044351-002C	MW-66BR-270-0221	Groundwater	2/26/2021 8:30:00 AM	2/26/2021	3/15/2021
N044351-003A	EB-705-Q121	Groundwater	2/26/2021 9:00:00 AM	2/26/2021	3/15/2021

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *15-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-44-115-Q121
Lab Order:	N044351	**Collection Date:**	2/26/2021 7:40:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044351-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210226E**	QC Batch: **R151026**			PrepDate:			Analyst: **LR**
Specific Conductance	11000	0.10	0.10		umhos/cm	1	2/26/2021 04:50 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044351
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID **N044351-001BDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **151026**
Client ID: **ZZZZZZ** Batch ID: **R151026** TestNo: **EPA 120.1** Analysis Date: **2/26/2021** SeqNo: **4121549**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	10940.000	0.10						10960	0.183	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *15-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-44-115-Q121
Lab Order:	N044351	**Collection Date:**	2/26/2021 7:40:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044351-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210301A** QC Batch: **R151064** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	2.5	0.17	1.0		µg/L	5	3/1/2021 01:52 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210310C** QC Batch: **85533** PrepDate: **3/4/2021** Analyst: **CEI**							
Chromium	4.9	0.13	1.0		µg/L	1	3/10/2021 04:44 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *15-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-66BR-270-0221
Lab Order:	N044351	**Collection Date:**	2/26/2021 8:30:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044351-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **NV00922-IC7_210301A**	QC Batch: **R151064**			PrepDate:			Analyst: **RAB**
Hexavalent Chromium	ND	0.17	1.0		µg/L	5	3/1/2021 02:11 PM
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210310C**	QC Batch: **85533**			PrepDate:		**3/4/2021**	Analyst: **CEI**
Chromium	ND	0.13	1.0		µg/L	1	3/10/2021 05:54 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *15-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	EB-705-Q121
Lab Order:	N044351	**Collection Date:**	2/26/2021 9:00:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044351-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210301A** QC Batch: **R151064** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	3/1/2021 03:17 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044351
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **MB-R151064** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151064**
Client ID: **PBW** Batch ID: **R151064** TestNo: **EPA 218.6** Analysis Date: **3/1/2021** SeqNo: **4124349**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID **LCS-R151064** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151064**
Client ID: **LCSW** Batch ID: **R151064** TestNo: **EPA 218.6** Analysis Date: **3/1/2021** SeqNo: **4124350**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.830	0.20	5.000	0	96.6	90	110				

Sample ID **N044350-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151064**
Client ID: **ZZZZZZ** Batch ID: **R151064** TestNo: **EPA 218.6** Analysis Date: **3/1/2021** SeqNo: **4124353**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	14.715	0.20	5.000	9.490	105	90	110				

Sample ID **N044350-001AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151064**
Client ID: **ZZZZZZ** Batch ID: **R151064** TestNo: **EPA 218.6** Analysis Date: **3/1/2021** SeqNo: **4124354**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	14.612	0.20	5.000	9.490	102	90	110	14.72	0.706	20	

Sample ID **N044350-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151064**
Client ID: **ZZZZZZ** Batch ID: **R151064** TestNo: **EPA 218.6** Analysis Date: **3/1/2021** SeqNo: **4124355**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	2.109	0.20	1.000	1.080	103	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044351
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N044350-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151064**
Client ID: **ZZZZZZ** Batch ID: **R151064** TestNo: **EPA 218.6** Analysis Date: **3/1/2021** SeqNo: **4124359**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	5.701	1.0	5.000	1.032	93.4	90	110				

Sample ID **N044351-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151064**
Client ID: **ZZZZZZ** Batch ID: **R151064** TestNo: **EPA 218.6** Analysis Date: **3/1/2021** SeqNo: **4124361**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	7.392	1.0	5.000	2.506	97.7	90	110				

Sample ID **N044351-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151064**
Client ID: **ZZZZZZ** Batch ID: **R151064** TestNo: **EPA 218.6** Analysis Date: **3/1/2021** SeqNo: **4124363**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.811	1.0	5.000	0	96.2	90	110				

Sample ID **N044350-002ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151064**
Client ID: **ZZZZZZ** Batch ID: **R151064** TestNo: **EPA 218.6** Analysis Date: **3/1/2021** SeqNo: **4124364**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.089	0.20						1.080	0.812	20	

Sample ID **N044350-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151064**
Client ID: **ZZZZZZ** Batch ID: **R151064** TestNo: **EPA 218.6** Analysis Date: **3/1/2021** SeqNo: **4124368**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.977	0.20	1.000	0	97.7	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044351
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID	**N044351-003AMS**	SampType:	**MS**	TestCode:	**218.6_WPGE**	Units:	**µg/L**	Prep Date:				RunNo:	**151064**
Client ID:	**ZZZZZZ**	Batch ID:	**R151064**	TestNo:	**EPA 218.6**			Analysis Date:	**3/1/2021**			SeqNo:	**4124370**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.981	0.20	1.000	0	98.1	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044351
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID **MB-85533** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151344**
Client ID: **PBW** Batch ID: **85533** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/10/2021** SeqNo: **4142877**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID **LCS-85533** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151344**
Client ID: **LCSW** Batch ID: **85533** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/10/2021** SeqNo: **4142878**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.028	1.0	10.00	0	100	85	115				

Sample ID **N044351-001D-MS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151344**
Client ID: **ZZZZZZ** Batch ID: **85533** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/10/2021** SeqNo: **4142884**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	13.658	1.0	10.00	4.874	87.8	75	125				

Sample ID **N044351-001D-MSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151344**
Client ID: **ZZZZZZ** Batch ID: **85533** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/10/2021** SeqNo: **4142888**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	13.824	1.0	10.00	4.874	89.5	75	125	13.66	1.21	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *15-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-44-115-Q121
Lab Order:	N044351	**Collection Date:**	2/26/2021 7:40:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044351-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210309B** QC Batch: **R151282** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.055	0.032	0.050		mg/L	1	3/9/2021 09:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *15-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-66BR-270-0221
Lab Order:	N044351	**Collection Date:**	2/26/2021 8:30:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044351-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
			SM4500-NO3F				
RunID: **NV00922-FA1_210309B**	QC Batch: **R151282**			PrepDate:			Analyst: **JBB**
Nitrate/Nitrite as N	ND	0.032	0.050		mg/L	1	3/9/2021 10:04 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044351
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID **MB-R151282** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151282**
Client ID: **PBW** Batch ID: **R151282** TestNo: **SM4500-NO3** Analysis Date: **3/9/2021** SeqNo: **4140145**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID **LCS-R151282** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151282**
Client ID: **LCSW** Batch ID: **R151282** TestNo: **SM4500-NO3** Analysis Date: **3/9/2021** SeqNo: **4140146**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.497	0.050	0.5000	0	99.4	85	115				

Sample ID **N044351-001CDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151282**
Client ID: **ZZZZZZ** Batch ID: **R151282** TestNo: **SM4500-NO3** Analysis Date: **3/9/2021** SeqNo: **4140148**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.037	0.050						0.05490	0	20	

Sample ID **N044351-001CMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151282**
Client ID: **ZZZZZZ** Batch ID: **R151282** TestNo: **SM4500-NO3** Analysis Date: **3/9/2021** SeqNo: **4140149**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.564	0.050	0.5000	0.05490	102	75	125				

Sample ID **N044351-001CMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151282**
Client ID: **ZZZZZZ** Batch ID: **R151282** TestNo: **SM4500-NO3** Analysis Date: **3/9/2021** SeqNo: **4140150**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.568	0.050	0.5000	0.05490	103	75	125	0.5639	0.636	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *15-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-44-115-Q121
Lab Order:	N044351	**Collection Date:**	2/26/2021 7:40:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044351-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210310C**	QC Batch: **85533**				PrepDate:	**3/4/2021**	Analyst: **CEI**
Arsenic	1.2	0.081	0.10		µg/L	1	3/10/2021 04:44 PM
Manganese	13	0.26	0.50		µg/L	1	3/10/2021 04:44 PM
Molybdenum	71	0.21	0.50		µg/L	1	3/10/2021 04:44 PM
Selenium	ND	0.36	0.50		µg/L	1	3/10/2021 04:44 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *15-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-66BR-270-0221
Lab Order:	N044351	**Collection Date:**	2/26/2021 8:30:00 AM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044351-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210310C**	QC Batch: **85533**				PrepDate:	**3/4/2021**	Analyst: **CEI**
Molybdenum	3.9	0.21	0.50		µg/L	1	3/10/2021 05:54 PM
Selenium	ND	0.36	0.50		µg/L	1	3/10/2021 05:54 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044351
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **MB-85533** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151344**
Client ID: **PBW** Batch ID: **85533** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/10/2021** SeqNo: **4142976**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID **LCS-85533** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151344**
Client ID: **LCSW** Batch ID: **85533** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/10/2021** SeqNo: **4142977**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.013	0.10	10.00	0	100	85	115				
Manganese	100.556	0.50	100.0	0	101	85	115				
Molybdenum	10.008	0.50	10.00	0	100	85	115				
Selenium	10.322	0.50	10.00	0	103	85	115				

Sample ID **N044351-001D-MS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151344**
Client ID: **ZZZZZZ** Batch ID: **85533** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/10/2021** SeqNo: **4142983**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.133	0.10	10.00	1.217	99.2	75	125				
Manganese	103.482	0.50	100.0	13.14	90.3	75	125				
Molybdenum	81.177	0.50	10.00	71.41	97.7	75	125				
Selenium	10.461	0.50	10.00	0	105	75	125				

Sample ID **N044351-001D-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151344**
Client ID: **ZZZZZZ** Batch ID: **85533** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **3/10/2021** SeqNo: **4142987**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.308	0.10	10.00	1.217	101	75	125	11.13	1.56	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044351
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID	**N044351-001D-MSD**	SampType:	**MSD**	TestCode:	**6020_DIS_TP**	Units:	**µg/L**	Prep Date:	**3/4/2021**	RunNo:	**151344**		
Client ID:	**ZZZZZZ**	Batch ID:	**85533**	TestNo:	**EPA 6020**	**EPA 3010A**		Analysis Date:	**3/10/2021**	SeqNo:	**4142987**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	104.667	0.50	100.0	13.14	91.5	75	125	103.5	1.14	20	
Molybdenum	81.259	0.50	10.00	71.41	98.5	75	125	81.18	0.101	20	
Selenium	10.215	0.50	10.00	0	102	75	125	10.46	2.38	20	

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Page 1 of 1

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes	EDD Requirement: Excel EDD; Geotracker; Labspec; Others ✓; Specify: RWQCB; Global ID:
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:	QA/QC: RTNE; RWQCB ✓; CalTrans; LEVEL III; LEVEL IV; Regulatory; Specify State:
Address: Roseville, CA 95661	Email: dan.bush@arcadis.com; daniel.moore@critigen.com	Address:	Sample Receipt Condition (Y / N): 1. Chilled ✓; 2. Headspace; 3. Container Intact ✓; 4. Seal Present ✓; 5. IR number 2
Phone: 916-786-3302 / Fax:	Address: 1410 Rocky Ridge Dr # 330, Roseville, CA 95661	Email to: mbloes@pivox.com	P.O.#: SWA-ASSET-C9817-057
Submitted By: Riggie Tep		Phone: 949-727-1400, ext 200	Fax:
Title: Field Technician	Phone: 916-786-3302 / Fax:		6. Method of Cooling: ICE
Signature: Date: 2/26/2021	Sampled By: Matt Trainotti		Sample Temp: 2.1°C
I hereby authorize ASSET Labs to perform the tests indicated below.	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.		Courier: ASSET
Project Name: PG&E Topock - GMP	Signature: / Date: 2/26/21		Tracking No.:
Project Number: 30035275			

Matrix: Ground x; Sediment; Potable; Soil; NPDES; Other Solid; Surface

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH 250 mL poly	Oxygen and Deuterium Isotopes (CFIRM), Ice 250 mL poly	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH 2x250 mL poly	Alkalinity, Total as CaCO3 (SM2320B) 1 liter poly	Bromide, Sulfate, Chloride (EPA 300.0) 1 liter poly	Fluoride (EPA 300.0) 1 liter poly	Specific Conductance (EPA 120.1) 1 liter poly	Total Dissolved Solids (SM92540) 1 liter poly	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4 125 mL poly	Total Organic Carbon (SM5310C); H2SO4 3x40 mL poly	Metals Dissolved (EPA7470A FF) Hg; HNO3 500 mL poly	Dissolved Metals (SW 6010B); HNO3 Potassium 500 mL poly	Dissolved metals (SW 6010B), HNO3 B, Ca, Fe, Na 500 mL poly	Dissolved metals (SW 6020), HNO3 As, Cr, Mn, Mo, Se 600 mL poly	Dissolved metals (SW 6010B), HNO3 B, Ca, Cu, Fe, Na, Ni 600 mL poly	Dissolved metals (SW 6020), HNO3 Ag, As, Ba, Be, Cd, Co, Cr, Mg, Mn, Mo, Pb, Sb, Se, Tl, V, Zn 500 mL poly	Dissolved metals (SW 6010B), HNO3 Cr, Mo, Se 600 mL poly	Dissolved metals (SW 6020), HNO3 Cr 600 mL poly	Total metals, Chromium (non-filter) (EPA 200.8), HNO3 600 mL poly	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N044351-01	MW-44-115-Q121	2/26/2021	7:40		X						X		X					X						E	4	P	BNS	
2	-02	MW-66BR-270-0221	2/26/2021	8:30		X								X									X		E	3	P	BNS	
3	-03	EB-705-Q121	2/26/2021	9:00		X																			E	1	P	BNS	
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Relinquished by (Signature and Printed Name)	Date/Time	Received by (Signature and Printed Name)	Date/Time
Riggie Tep	2/26/21 1150		2/26/21 1150
	2/26/21 1414	Beikys Hernandez	2/26/21 1414

Turn Around Time (TAT):
- A = < 24 Hrs or Same Day TAT
- B = Next Workday
- C = 2 Workdays
- D = 3 Workdays
- X E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Tittle 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
   Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:			
H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=$Zn(AC)_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B	(NH4)2SO4/NH4OH	

Container Type:		
T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

White=Laboratory Copy Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	2/26/2021	Workorder:	N044351
Rep sample Temp (Deg C):	2.1	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	Other
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments:

Checklist Completed By: BHN BHdez 2/26/2021

Reviewed By: MBC 3/2/2021

ASSET Laboratories

WORK ORDER Summary

01-Mar-21

WorkOrder: N044351

Client ID: ARCUS02

Project: PG&E Topock - GMP, 30035275 **QC Level:** Level IV **Date Received:** 2/26/2021

Comments: Title 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044351-001A	MW-44-115-Q121	2/26/2021 7:40:00 AM	3/12/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044351-001B			3/12/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
N044351-001C			3/12/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044351-001D			3/12/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			3/12/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			3/12/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N044351-002A	MW-66BR-270-0221	2/26/2021 8:30:00 AM	3/12/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044351-002B			3/12/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044351-002C			3/12/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			3/12/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			3/12/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N044351-003A	EB-705-Q121	2/26/2021 9:00:00 AM	3/12/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044351-004A	FOLDER	3/12/2021	3/12/2021		EDD	Client specific project	☐	☐	☐	
			3/12/2021		Folder	Folder	☐	☐	☐	
			3/12/2021		Folder	Level IV Report	☐	☐	☐	
			3/12/2021		Folder	Folder	☐	☐	☐	

March 17, 2021

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N044432

RE: PG&E Topock- PMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on March 03, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

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

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time except for pH. pH testing is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Analytical Comments for EPA 200.7_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N044410-001C-MS1 and N044410-001C-MSD1 possibly due to matrix interference. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Sodium in QC samples N044432-001B-MS2 and N044432-001B-MSD2 since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 200.8_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Chromium in QC samples N044432-001B-MS and N044432-001B-MSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *17-Mar-21*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock- PMP, RC000753.801D
Lab Order: N044432
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044432-001A	TW-03D-0321	Groundwater	3/3/2021 6:15:00 AM	3/3/2021	3/17/2021
N044432-001B	TW-03D-0321	Groundwater	3/3/2021 6:15:00 AM	3/3/2021	3/17/2021
N044432-001C	TW-03D-0321	Groundwater	3/3/2021 6:15:00 AM	3/3/2021	3/17/2021
N044432-001D	TW-03D-0321	Groundwater	3/3/2021 6:15:00 AM	3/3/2021	3/17/2021

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0321
Lab Order:	N044432	**Collection Date:**	3/3/2021 6:15:00 AM
Project:	PG&E Topock- PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044432-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210303G**	QC Batch: **R151165**			PrepDate:			Analyst: **LR**
Specific Conductance	7700	0.10	0.10		umhos/cm	1	3/3/2021 05:15 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N044432-001CDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **151165**
Client ID: **ZZZZZZ** Batch ID: **R151165** TestNo: **EPA 120.1** Analysis Date: **3/3/2021** SeqNo: **4129890**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	7700.000	0.10						7660	0.521	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0321
Lab Order:	N044432	**Collection Date:**	3/3/2021 6:15:00 AM
Project:	PG&E Topock- PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044432-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210303H**	QC Batch: **R151166**			PrepDate:			Analyst: **LR**
pH	7.2	0.10	0.10	H	pH Units	1	3/3/2021 05:10 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	3/3/2021 05:10 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID: **N044432-001CDUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **151166**
Client ID: **ZZZZZZ** Batch ID: **R151166** TestNo: **SM4500-H+B** Analysis Date: **3/3/2021** SeqNo: **4129892**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.150	0.10						7.150	0	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0321
Lab Order:	N044432	**Collection Date:**	3/3/2021 6:15:00 AM
Project:	PG&E Topock- PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044432-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE							
SM2540C							
RunID: **NV00922-WC_210303I** QC Batch: **85528** PrepDate: **3/3/2021** Analyst: **LR**							
Total Dissolved Solids (Residue, Filterable)	4400	50	50		mg/L	1	3/3/2021 05:15 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **LCS-85528** SampType: **LCS** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **3/3/2021** RunNo: **151185**
Client ID: **LCSW** Batch ID: **85528** TestNo: **SM2540C** Analysis Date: **3/3/2021** SeqNo: **4131834**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	960.000	10	1000	0	96.0	80	120				

Sample ID: **MB-85528** SampType: **MBLK** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **3/3/2021** RunNo: **151185**
Client ID: **PBW** Batch ID: **85528** TestNo: **SM2540C** Analysis Date: **3/3/2021** SeqNo: **4131835**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Sample ID: **N044410-001ADUP** SampType: **DUP** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **3/3/2021** RunNo: **151185**
Client ID: **ZZZZZZ** Batch ID: **85528** TestNo: **SM2540C** Analysis Date: **3/3/2021** SeqNo: **4131839**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	4320.000	50						4340	0.462	5	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0321
Lab Order:	N044432	**Collection Date:**	3/3/2021 6:15:00 AM
Project:	PG&E Topock- PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044432-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
			EPA 200.7				
RunID: **NV00922-ICP2_210311A**	QC Batch: **85553**			PrepDate:		**3/5/2021**	Analyst: **DJ**
Calcium	170000	85	500		µg/L	1	3/11/2021 02:50 PM
Iron	120	18	20		µg/L	1	3/11/2021 02:50 PM
Magnesium	36000	48	100		µg/L	1	3/11/2021 02:50 PM
Sodium	1500000	24000	120000		µg/L	250	3/9/2021 01:44 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **MB-85553** SampType: **MBLK** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **3/5/2021** RunNo: **151270**
Client ID: **PBW** Batch ID: **85553** TestNo: **EPA 200.7** Analysis Date: **3/9/2021** SeqNo: **4138254**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	500									

Sample ID: **LCS2-85553** SampType: **LCS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **3/5/2021** RunNo: **151270**
Client ID: **LCSW** Batch ID: **85553** TestNo: **EPA 200.7** Analysis Date: **3/9/2021** SeqNo: **4138255**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	18616.871	500	20000	0	93.1	85	115				

Sample ID: **N044432-001B-MS2** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **3/5/2021** RunNo: **151270**
Client ID: **ZZZZZZ** Batch ID: **85553** TestNo: **EPA 200.7** Analysis Date: **3/9/2021** SeqNo: **4138261**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1694767.488	120000	20000	1522000	862	75	125				S

Sample ID: **N044432-001B-MSD** SampType: **MSD** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **3/5/2021** RunNo: **151270**
Client ID: **ZZZZZZ** Batch ID: **85553** TestNo: **EPA 200.7** Analysis Date: **3/9/2021** SeqNo: **4138262**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1725618.227	120000	20000	1522000	1020	75	125	1695000	1.80	20	S

Sample ID: **LCS1-85553** SampType: **LCS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **3/5/2021** RunNo: **151318**
Client ID: **LCSW** Batch ID: **85553** TestNo: **EPA 200.7** Analysis Date: **3/11/2021** SeqNo: **4141691**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9751.842	500	10000	0	97.5	85	115				
Iron	92.178	20	100.0	0	92.2	85	115				
Magnesium	9346.408	100	10000	0	93.5	85	115				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **N044410-001C-MS1** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **3/5/2021** RunNo: **151318**
Client ID: **ZZZZZZ** Batch ID: **85553** TestNo: **EPA 200.7** Analysis Date: **3/11/2021** SeqNo: **4141695**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	173095.742	500	10000	158700	144	75	125				S
Iron	137.914	20	100.0	222.3	-84.3	75	125				S
Magnesium	47439.592	100	10000	33260	142	75	125				S

Sample ID: **N044410-001C-MSD** SampType: **MSD** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **3/5/2021** RunNo: **151318**
Client ID: **ZZZZZZ** Batch ID: **85553** TestNo: **EPA 200.7** Analysis Date: **3/11/2021** SeqNo: **4141696**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	173122.419	500	10000	158700	144	75	125	173100	0.0154	20	S
Iron	154.046	20	100.0	222.3	-68.2	75	125	137.9	11.1	20	S
Magnesium	46589.799	100	10000	33260	133	75	125	47440	1.81	20	S

Sample ID: **MB-85553** SampType: **MBLK** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **3/5/2021** RunNo: **151318**
Client ID: **PBW** Batch ID: **85553** TestNo: **EPA 200.7** Analysis Date: **3/11/2021** SeqNo: **4141700**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	170.919	500									
Iron	ND	20									
Magnesium	ND	100									

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **N044432-001B-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **151270**
Client ID: **ZZZZZZ** Batch ID: **85553** TestNo: **EPA 200.7** Analysis Date: **3/9/2021** SeqNo: **4138260**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	7051410.800	120000	5000000	1522000	111	80	120				

Sample ID: **N044410-001C-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **151318**
Client ID: **ZZZZZZ** Batch ID: **85553** TestNo: **EPA 200.7** Analysis Date: **3/11/2021** SeqNo: **4141694**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	170784.713	500	10000	158700	121	80	120				S
Iron	147.051	20	100.0	222.3	-75.2	80	120				S
Magnesium	47150.840	100	10000	33260	139	80	120				S

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0321
Lab Order:	N044432	**Collection Date:**	3/3/2021 6:15:00 AM
Project:	PG&E Topock- PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044432-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICPMS							
EPA 200.8							
RunID: **NV00922-ICP8_210305D** QC Batch: **85536** PrepDate: **3/4/2021** Analyst: **CEI**							
Manganese	19	0.26	0.50		µg/L	1	3/5/2021 04:06 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_WDISS_TPK

Sample ID: **MB-85536** SampType: **MBLK** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151222**
Client ID: **PBW** Batch ID: **85536** TestNo: **EPA 200.8** Analysis Date: **3/5/2021** SeqNo: **4134391**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID: **LCS-85536** SampType: **LCS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151222**
Client ID: **LCSW** Batch ID: **85536** TestNo: **EPA 200.8** Analysis Date: **3/5/2021** SeqNo: **4134392**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	102.494	0.50	100.0	0	102	85	115				

Sample ID: **N044432-001B-MS** SampType: **MS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151222**
Client ID: **ZZZZZZ** Batch ID: **85536** TestNo: **EPA 200.8** Analysis Date: **3/5/2021** SeqNo: **4134398**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	110.272	0.50	100.0	18.75	91.5	75	125				

Sample ID: **N044432-001B-MSD** SampType: **MSD** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151222**
Client ID: **ZZZZZZ** Batch ID: **85536** TestNo: **EPA 200.8** Analysis Date: **3/5/2021** SeqNo: **4134402**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	110.151	0.50	100.0	18.75	91.4	75	125	110.3	0.110	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0321
Lab Order:	N044432	**Collection Date:**	3/3/2021 6:15:00 AM
Project:	PG&E Topock- PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044432-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210304A** QC Batch: **R151170** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	400	1.7	10		µg/L	50	3/4/2021 10:16 AM
DISSOLVED METALS BY ICP-MS							
EPA 200.8							
RunID: **NV00922-ICP8_210305D** QC Batch: **85536** PrepDate: **3/4/2021** Analyst: **CEI**							
Chromium	420	0.65	5.0		µg/L	5	3/5/2021 04:12 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8Dis_CrPGE_TPK

Sample ID: **MB-85536** SampType: **MBLK** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151222**
Client ID: **PBW** Batch ID: **85536** TestNo: **EPA 200.8** Analysis Date: **3/5/2021** SeqNo: **4134493**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: **LCS-85536** SampType: **LCS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151222**
Client ID: **LCSW** Batch ID: **85536** TestNo: **EPA 200.8** Analysis Date: **3/5/2021** SeqNo: **4134494**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.999	1.0	10.00	0	100	85	115				

Sample ID: **N044432-001B-MS** SampType: **MS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151222**
Client ID: **ZZZZZZ** Batch ID: **85536** TestNo: **EPA 200.8** Analysis Date: **3/5/2021** SeqNo: **4134501**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	419.146	5.0	10.00	421.8	-26.2	75	125				S

Sample ID: **N044432-001B-MSD** SampType: **MSD** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **3/4/2021** RunNo: **151222**
Client ID: **ZZZZZZ** Batch ID: **85536** TestNo: **EPA 200.8** Analysis Date: **3/5/2021** SeqNo: **4134505**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	413.089	5.0	10.00	421.8	-86.8	75	125	419.1	1.46	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R151170** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151170**
Client ID: **PBW** Batch ID: **R151170** TestNo: **EPA 218.6** Analysis Date: **3/4/2021** SeqNo: **4130093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R151170** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151170**
Client ID: **LCSW** Batch ID: **R151170** TestNo: **EPA 218.6** Analysis Date: **3/4/2021** SeqNo: **4130094**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.786	0.20	5.000	0	95.7	90	110				

Sample ID: **N044432-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151170**
Client ID: **ZZZZZZ** Batch ID: **R151170** TestNo: **EPA 218.6** Analysis Date: **3/4/2021** SeqNo: **4130096**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	648.110	10	250.0	399.7	99.4	90	110				

Sample ID: **N044439-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151170**
Client ID: **ZZZZZZ** Batch ID: **R151170** TestNo: **EPA 218.6** Analysis Date: **3/4/2021** SeqNo: **4130104**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.630	0.20	5.000	4.484	103	90	110				

Sample ID: **N044439-001AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151170**
Client ID: **ZZZZZZ** Batch ID: **R151170** TestNo: **EPA 218.6** Analysis Date: **3/4/2021** SeqNo: **4130105**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.676	0.20	5.000	4.484	104	90	110	9.630	0.477	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044438-002ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **151170**
Client ID: **ZZZZZZ** Batch ID: **R151170** TestNo: **EPA 218.6** Analysis Date: **3/4/2021** SeqNo: **4130106**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.003	0.20						1.006	0.309	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8Dis_CrPGE_TPK

Sample ID: **N044432-001B-PS** SampType: **PS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: RunNo: **151222**
Client ID: **ZZZZZZ** Batch ID: **85536** TestNo: **EPA 200.8** Analysis Date: **3/5/2021** SeqNo: **4134499**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	425.957	5.0	10.00	421.8	41.9	80	120				S

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0321
Lab Order:	N044432	**Collection Date:**	3/3/2021 6:15:00 AM
Project:	PG&E Topock- PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044432-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ALKALINITY, SPECIATED							
			SM 2320 B				
RunID: **NV00922-WC_210308C**	QC Batch: **R151317**			PrepDate:			Analyst: **LR**
Alkalinity, Total (As CaCO3)	140	1.2	5.0		mg/L	1	3/8/2021 03:00 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 2320_W_SP

Sample ID: **LCS-R151317** SampType: **LCS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **151317**
Client ID: **LCSW** Batch ID: **R151317** TestNo: **SM 2320 B** Analysis Date: **3/8/2021** SeqNo: **4141649**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	91.463	5.0	100.0	0	91.5	85	115				

Sample ID: **MB-R151317** SampType: **MBLK** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **151317**
Client ID: **PBW** Batch ID: **R151317** TestNo: **SM 2320 B** Analysis Date: **3/8/2021** SeqNo: **4141650**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	5.0									

Sample ID: **N044432-001CDUP** SampType: **DUP** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **151317**
Client ID: **ZZZZZZ** Batch ID: **R151317** TestNo: **SM 2320 B** Analysis Date: **3/8/2021** SeqNo: **4141652**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	137.195	5.0						135.2	1.49	30	

Sample ID: **N044432-001CMS** SampType: **MS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **151317**
Client ID: **ZZZZZZ** Batch ID: **R151317** TestNo: **SM 2320 B** Analysis Date: **3/8/2021** SeqNo: **4141653**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	239.837	5.0	100.0	135.2	105	75	125				

Sample ID: **N044432-001CMSD** SampType: **MSD** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **151317**
Client ID: **ZZZZZZ** Batch ID: **R151317** TestNo: **SM 2320 B** Analysis Date: **3/8/2021** SeqNo: **4141654**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	241.870	5.0	100.0	135.2	107	75	125	239.8	0.844	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044432
Project: PG&E Topock- PMP, RC000753.801D
Lab ID: N044432-001

Client Sample ID: TW-03D-0321
Collection Date: 3/3/2021 6:15:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_210303A** QC Batch: **R151147** PrepDate: Analyst: **admin**							
Chloride	2100	17	250		mg/L	500	3/3/2021 08:42 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_210303A** QC Batch: **R151147** PrepDate: Analyst: **admin**							
Sulfate	480	2.0	25		mg/L	50	3/3/2021 08:26 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: **MB-R151147_CL** SampType: **MBLK** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **151147**
Client ID: **PBW** Batch ID: **R151147** TestNo: **EPA 300.0** Analysis Date: **3/3/2021** SeqNo: **4128784**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.50									

Sample ID: **LCS-R151147_CL** SampType: **LCS** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **151147**
Client ID: **LCSW** Batch ID: **R151147** TestNo: **EPA 300.0** Analysis Date: **3/3/2021** SeqNo: **4128785**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2.019	0.50	2.000	0	101	90	110				

Sample ID: **N044432-001CDUP** SampType: **DUP** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **151147**
Client ID: **ZZZZZZ** Batch ID: **R151147** TestNo: **EPA 300.0** Analysis Date: **3/3/2021** SeqNo: **4128793**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2114.450	250						2122	0.368	20	

Sample ID: **N044432-001CMS** SampType: **MS** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **151147**
Client ID: **ZZZZZZ** Batch ID: **R151147** TestNo: **EPA 300.0** Analysis Date: **3/3/2021** SeqNo: **4128794**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3127.750	250	1000	2122	101	80	120				

Sample ID: **N044432-001CMSD** SampType: **MSD** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **151147**
Client ID: **ZZZZZZ** Batch ID: **R151147** TestNo: **EPA 300.0** Analysis Date: **3/3/2021** SeqNo: **4128795**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3129.350	250	1000	2122	101	80	120	3128	0.0511	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: **MB-R151147_SO4** SampType: **MBLK** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **151147**
Client ID: **PBW** Batch ID: **R151147** TestNo: **EPA 300.0** Analysis Date: **3/3/2021** SeqNo: **4128839**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	0.249	0.50									

Sample ID: **LCS-R151147_SO4** SampType: **LCS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **151147**
Client ID: **LCSW** Batch ID: **R151147** TestNo: **EPA 300.0** Analysis Date: **3/3/2021** SeqNo: **4128840**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	4.038	0.50	4.000	0	101	90	110				

Sample ID: **N044410-002BDUP** SampType: **DUP** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **151147**
Client ID: **ZZZZZZ** Batch ID: **R151147** TestNo: **EPA 300.0** Analysis Date: **3/3/2021** SeqNo: **4128848**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	470.480	25						474.2	0.787	20	

Sample ID: **N044410-002BMS** SampType: **MS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **151147**
Client ID: **ZZZZZZ** Batch ID: **R151147** TestNo: **EPA 300.0** Analysis Date: **3/3/2021** SeqNo: **4128849**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	674.445	25	200.0	474.2	100	80	120				

Sample ID: **N044410-002BMSD** SampType: **MSD** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **151147**
Client ID: **ZZZZZZ** Batch ID: **R151147** TestNo: **EPA 300.0** Analysis Date: **3/3/2021** SeqNo: **4128850**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	676.265	25	200.0	474.2	101	80	120	674.4	0.269	20	

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0321
Lab Order:	N044432	**Collection Date:**	3/3/2021 6:15:00 AM
Project:	PG&E Topock- PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044432-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210310B** QC Batch: **R151307** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	2.6	0.16	0.25		mg/L	5	3/10/2021 10:34 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044432
Project: PG&E Topock- PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R151307** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151307**
Client ID: **PBW** Batch ID: **R151307** TestNo: **SM4500-NO3** Analysis Date: **3/10/2021** SeqNo: **4141456**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R151307** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151307**
Client ID: **LCSW** Batch ID: **R151307** TestNo: **SM4500-NO3** Analysis Date: **3/10/2021** SeqNo: **4141457**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.479	0.050	0.5000	0	95.7	85	115				

Sample ID: **N044352-003BDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151307**
Client ID: **ZZZZZZ** Batch ID: **R151307** TestNo: **SM4500-NO3** Analysis Date: **3/10/2021** SeqNo: **4141459**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.794	0.050						0.7984	0.603	20	

Sample ID: **N044352-003BMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151307**
Client ID: **ZZZZZZ** Batch ID: **R151307** TestNo: **SM4500-NO3** Analysis Date: **3/10/2021** SeqNo: **4141460**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	1.292	0.050	0.5000	0.7984	98.7	75	125				

Sample ID: **N044352-003BMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **151307**
Client ID: **ZZZZZZ** Batch ID: **R151307** TestNo: **SM4500-NO3** Analysis Date: **3/10/2021** SeqNo: **4141461**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	1.295	0.050	0.5000	0.7984	99.4	75	125	1.292	0.263	20	

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Page 1 of 1

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes	
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:	
Address: Roseville, CA 95661	Email: dan.bush@arcadis.com; grady.cowan@arcadis.com	Address:	
Phone: 916-786-3302 / Fax:	Address: 1410 Rocky Ridge Dr # 330 Roseville, CA 95661	Email to: mbloes@pivox.com	P.O.# SWA-ASSET-C9617-051
Submitted By: Zac White		Phone: 949-727-1400, ext 200	Fax:
Title: Field Technician	Phone: 916-786-3302 / Fax:		
Signature: ZW / Date: 3/3/21	Sampled By		
I hereby authorize ASSET Labs to perform the tests indicated below	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		
Project Name: PG&E Topock - PMP	Signature / Date		
Project Number: RC000753.801D			

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

EDD Requirement		QA/QC	
Excel EDD		RTNE	
Geotracker		RWQCB	✓
Labspec		CalTrans	
Others	✓	LEVEL III	
Specify: RWQCB		LEVEL IV	
		Regulatory	
Global ID:		Specify State:	

Sample Receipt Condition	Y	N
1. Chilled	✓	
2. Headspace		
3. Container Intact	✓	
4. Seal Present		✓
5. IR number	2	
6. Method of Cooling: ICE		
Sample Temp: 1.8°C		
Courier: ASSET		
Tracking No.:		

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 mL poly)	Dissolved metals (EPA 200.8) FF; HNO3, 500 mL poly Cr, Mn (1 L poly)	Dissolved metals (EPA200.7) FF; HNO3 Ca, Mg, Fe, Na, (1 L poly)	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 As, Mn, Fe, Se, Mo, Ba (1 L poly)	Total metals (SW6010B); HNO3 Fe (500 mL poly)	Anions (E300.0); Cl, SO4 (1 liter poly)	Specific Conductance (E120.1) (1 liter poly)	pH (SM4500HB) (1 liter poly)	TDS (SM2540C) (1 liter poly)	Alkalinity (Total, reported as CaCO3) (SM2320B) (1 liter poly)	TSS (SM2540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4 (125 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1																						
2	N044432-01	TW-03D-0321				X		X	X			X	X	X	X	X		X	E	4	P	BN
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by (Signature and Printed Name):	Date/Time:	Relinquished by (Signature and Printed Name):	Date/Time:
ZW	3/3/21 @ 1330	ROMEO MONTAÑA	3/3/21 1330
Romeo Montaña	3/3/21 1548	Belkys Hernandez Bldz	3/3/21 1548

Turn Around Time (TAT)

- [ ] A < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
- [ ] D = 3 Workdays
- [x] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Tittle 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Preservatives:

H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=$Zn(AC)_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B	(NH4)2SO4/NH4OH	

Container Type:

T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

White=Laboratory Copy
Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	3/3/2021	Workorder:	N044432
Rep sample Temp (Deg C):	1.8	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: Collection date and time taken from labels. See Correspondence.
Sample for pH received past holding time.

For:

Checklist Completed By: BHN YRJ 3/5/2021

Reviewed By: MBC 3/5/2021

Subject: Re: Merced PG&E, D31111DW (ASSET Labs No. N044432)
From: "Madsen, Laura" <Laura.Madsen@arcadis.com>
Date: 3/5/2021, 5:02 PM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>, "sdoolittle@blainetech.com" <sdoolittle@blainetech.com>
CC: "maryann.balilu@assetlaboratoriesph.com" <maryann.balilu@assetlaboratoriesph.com>, "rustico.aquino@assetlaboratoriesph.com" <rustico.aquino@assetlaboratoriesph.com>

Hi Yoandra
Noted. Sampler is Zac White.

Thanks
Laura

Get Outlook for iOS

From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Friday, March 5, 2021 5:27:25 PM
To: Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: maryann.balilu@assetlaboratoriesph.com <maryann.balilu@assetlaboratoriesph.com>; rustico.aquino@assetlaboratoriesph.com <rustico.aquino@assetlaboratoriesph.com>
Subject: Merced PG&E, D31111DW (ASSET Labs No. N044432)

Hi Laura,

Please kindly inform sampler's name for the attached COC.

In addition be informed that collection date and time were taken form labels.

--
Thanks,

Yoandra Rodriguez
Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 | F: 702.307.2691
California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436

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ASSET Laboratories

WORK ORDER Summary

04-Mar-21

WorkOrder: N044432

Client ID: ARCUS02

Project: PG&E Topock- PMP, RC000753.801D **QC Level:** Level IV **Date Received:** 3/3/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044432-001A	TW-03D-0321	3/3/2021 6:15:00 AM	3/17/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044432-001B			3/17/2021			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			3/17/2021		EPA 200.7	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			3/17/2021			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			3/17/2021		EPA 200.8	DISSOLVED METALS BY ICPMS	☐	☐	☐	WW
			3/17/2021		EPA 200.8	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N044432-001C			3/17/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			3/17/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			3/17/2021		SM2540C	TOTAL FILTERABLE RESIDUE	☐	☐	☐	LSR
			3/17/2021			Total Dissolved Solids Prep	☐	☐	☐	LSR
			3/17/2021		SM 2320 B	ALKALINITY, SPECIATED	☐	☐	☐	LSR
			3/17/2021		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	LSR
			3/17/2021		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	LSR
			3/17/2021		SM 1030F1	Cation-Anion Balance Calculation	☐	☐	☐	LSR
N044432-001D			3/17/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044432-002A	FOLDER	3/17/2021	3/17/2021		EDD	Client specific project	☐	☐	☐	LAB
			3/17/2021		Folder	Folder	☐	☐	☐	LAB
			3/17/2021		Folder	Level IV Report	☐	☐	☐	LAB
			3/17/2021		Folder	Folder	☐	☐	☐	LAB

January 19, 2021

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N043672

RE: PG&E Topock - PMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on January 06, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

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

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time except for pH. pH testing is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Subcontracted Analyses:

SM 4500-NO3F was subcontracted to BC Labs- Bakersfield,CA.

Analytical Comments for EPA 200.7:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Calcium and Sodium in QC samples N043659-001D-MSD1, N043672-001B-MS2 and N043672-001B-MSD2 since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 200.8:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Chromium in QC samples N043659-001D-MS and N043659-001D-MSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *19-Jan-21*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PMP, RC000753.801D
Lab Order: N043672
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N043672-001A	TW-03D-0121	Groundwater	1/6/2021 8:37:00 AM	1/6/2021	1/19/2021
N043672-001B	TW-03D-0121	Groundwater	1/6/2021 8:37:00 AM	1/6/2021	1/19/2021
N043672-001C	TW-03D-0121	Groundwater	1/6/2021 8:37:00 AM	1/6/2021	1/19/2021
N043672-001D	TW-03D-0121	Groundwater	1/6/2021 8:37:00 AM	1/6/2021	1/19/2021

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *19-Jan-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0121
Lab Order:	N043672	**Collection Date:**	1/6/2021 8:37:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210106H**	QC Batch: **R149879**			PrepDate:			Analyst: **LR**
Specific Conductance	7200	0.10	0.10		umhos/cm	1	1/6/2021 05:40 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N043672-001CDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **149879**
Client ID: **ZZZZZZ** Batch ID: **R149879** TestNo: **EPA 120.1** Analysis Date: **1/6/2021** SeqNo: **4068491**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	7250.000	0.10						7220	0.415	2	

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0121
Lab Order:	N043672	**Collection Date:**	1/6/2021 8:37:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210106I**	QC Batch: **R149880**			PrepDate:			Analyst: **LR**
pH	7.3	0.10	0.10	H	pH Units	1	1/6/2021 05:35 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/6/2021 05:35 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID: **N043672-001CDUP** SampType: **DUP** TestCode: **150.1_4500H+** Units: **pH Units** Prep Date: RunNo: **149880**
Client ID: **ZZZZZZ** Batch ID: **R149880** TestNo: **SM4500-H+B** Analysis Date: **1/6/2021** SeqNo: **4068493**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.320	0.10						7.310	0.137	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *19-Jan-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0121
Lab Order:	N043672	**Collection Date:**	1/6/2021 8:37:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE							
			SM2540C				
RunID: **NV00922-WC_210111G**	QC Batch: **83806**			PrepDate:		**1/11/2021**	Analyst: **LR**
Total Dissolved Solids (Residue, Filterable)	4400	50	50		mg/L	1	1/11/2021 02:56 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **LCS-83806** SampType: **LCS** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **1/11/2021** RunNo: **150015**
Client ID: **LCSW** Batch ID: **83806** TestNo: **SM2540C** Analysis Date: **1/11/2021** SeqNo: **4074903**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterat	973.000	10	1000	0	97.3	80	120				

Sample ID: **MB-83806** SampType: **MBLK** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **1/11/2021** RunNo: **150015**
Client ID: **PBW** Batch ID: **83806** TestNo: **SM2540C** Analysis Date: **1/11/2021** SeqNo: **4074904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterat	ND	10									

Sample ID: **N043672-001CDUP** SampType: **DUP** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **1/11/2021** RunNo: **150015**
Client ID: **ZZZZZZ** Batch ID: **83806** TestNo: **SM2540C** Analysis Date: **1/11/2021** SeqNo: **4074906**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterat	4385.000	50						4440	1.25	5	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *19-Jan-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0121
Lab Order:	N043672	**Collection Date:**	1/6/2021 8:37:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
			EPA 200.7				
RunID: **NV00922-ICP2_210107E**	QC Batch: **83758**				PrepDate:	**1/7/2021**	Analyst: **DJ**
Calcium	180000	85	500		µg/L	1	1/7/2021 04:42 PM
Iron	ND	18	20		µg/L	1	1/7/2021 04:42 PM
Magnesium	29000	48	100		µg/L	1	1/7/2021 04:42 PM
Sodium	1500000	9600	50000		µg/L	100	1/12/2021 07:08 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **MB-83758** SampType: **MBLK** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **149903**
Client ID: **PBW** Batch ID: **83758** TestNo: **EPA 200.7** Analysis Date: **1/7/2021** SeqNo: **4069058**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	87.421	500									
Iron	ND	20									
Magnesium	ND	100									

Sample ID: **LCS1-83758** SampType: **LCS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **149903**
Client ID: **LCSW** Batch ID: **83758** TestNo: **EPA 200.7** Analysis Date: **1/7/2021** SeqNo: **4069059**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9583.866	500	10000	0	95.8	85	115				
Iron	96.578	20	100.0	0	96.6	85	115				
Magnesium	9745.857	100	10000	0	97.5	85	115				

Sample ID: **N043659-001D-MS1** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **149903**
Client ID: **ZZZZZZ** Batch ID: **83758** TestNo: **EPA 200.7** Analysis Date: **1/7/2021** SeqNo: **4069063**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	193173.330	500	10000	182500	107	75	125				
Iron	100.798	20	100.0	0	101	75	125				
Magnesium	40943.397	100	10000	29260	117	75	125				

Sample ID: **N043659-001D-MSD1** SampType: **MSD** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **149903**
Client ID: **ZZZZZZ** Batch ID: **83758** TestNo: **EPA 200.7** Analysis Date: **1/7/2021** SeqNo: **4069064**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	189392.758	500	10000	182500	69.3	75	125	193200	1.98	20	S
Iron	100.292	20	100.0	0	100	75	125	100.8	0.503	20	
Magnesium	40078.668	100	10000	29260	108	75	125	40940	2.13	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **MB-83758** SampType: **MBLK** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **150009**
Client ID: **PBW** Batch ID: **83758** TestNo: **EPA 200.7** Analysis Date: **1/12/2021** SeqNo: **4074434**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	500									

Sample ID: **LCS2-83758** SampType: **LCS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **150009**
Client ID: **LCSW** Batch ID: **83758** TestNo: **EPA 200.7** Analysis Date: **1/12/2021** SeqNo: **4074435**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	18691.172	500	20000	0	93.5	85	115				

Sample ID: **N043672-001B-MS2** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **150009**
Client ID: **ZZZZZZ** Batch ID: **83758** TestNo: **EPA 200.7** Analysis Date: **1/12/2021** SeqNo: **4074440**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1412952.439	50000	20000	1490000	-384	75	125				S

Sample ID: **N043672-001B-MSD2** SampType: **MSD** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **150009**
Client ID: **ZZZZZZ** Batch ID: **83758** TestNo: **EPA 200.7** Analysis Date: **1/12/2021** SeqNo: **4074441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1410574.367	50000	20000	1490000	-396	75	125	1413000	0.168	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **N043659-001D-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **149903**
Client ID: **ZZZZZZ** Batch ID: **83758** TestNo: **EPA 200.7** Analysis Date: **1/7/2021** SeqNo: **4069062**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	190603.702	500	10000	182500	81.4	80	120				
Iron	98.761	20	100.0	0	98.8	80	120				
Magnesium	40082.697	100	10000	29260	108	80	120				

Sample ID: **N043672-001B-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **150009**
Client ID: **ZZZZZZ** Batch ID: **83758** TestNo: **EPA 200.7** Analysis Date: **1/12/2021** SeqNo: **4074439**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1437645.173	50000	20000	1490000	-260	80	120				S

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *19-Jan-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0121
Lab Order:	N043672	**Collection Date:**	1/6/2021 8:37:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICPMS							
EPA 200.8							
RunID: **NV00922-ICP8_210107C** QC Batch: **83757** PrepDate: **1/7/2021** Analyst: **CEI**							
Manganese	18	0.26	0.50		µg/L	1	1/7/2021 11:32 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_WDISS_TPK

Sample ID: **MB-83757** SampType: **MBLK** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **149927**
Client ID: **PBW** Batch ID: **83757** TestNo: **EPA 200.8** Analysis Date: **1/7/2021** SeqNo: **4070680**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID: **LCS-83757** SampType: **LCS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **149927**
Client ID: **LCSW** Batch ID: **83757** TestNo: **EPA 200.8** Analysis Date: **1/7/2021** SeqNo: **4070681**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	99.047	0.50	100.0	0	99.0	85	115				

Sample ID: **N043659-001D-MS** SampType: **MS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **149927**
Client ID: **ZZZZZZ** Batch ID: **83757** TestNo: **EPA 200.8** Analysis Date: **1/7/2021** SeqNo: **4070691**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	97.398	0.50	100.0	7.021	90.4	75	125				

Sample ID: **N043659-001D-MSD** SampType: **MSD** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **149927**
Client ID: **ZZZZZZ** Batch ID: **83757** TestNo: **EPA 200.8** Analysis Date: **1/7/2021** SeqNo: **4070694**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	97.061	0.50	100.0	7.021	90.0	75	125	97.40	0.346	20	

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0121
Lab Order:	N043672	**Collection Date:**	1/6/2021 8:37:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210107A** QC Batch: **R149930** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	440	1.7	10		µg/L	50	1/7/2021 07:54 AM
DISSOLVED METALS BY ICP-MS							
EPA 200.8							
RunID: **NV00922-ICP8_210107C** QC Batch: **83757** PrepDate: **1/7/2021** Analyst: **CEI**							
Chromium	410	0.65	5.0		µg/L	5	1/7/2021 11:38 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8Dis_CrPGE_TPK

Sample ID: **MB-83757** SampType: **MBLK** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **149927**
Client ID: **PBW** Batch ID: **83757** TestNo: **EPA 200.8** Analysis Date: **1/7/2021** SeqNo: **4070529**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: **LCS-83757** SampType: **LCS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **149927**
Client ID: **LCSW** Batch ID: **83757** TestNo: **EPA 200.8** Analysis Date: **1/7/2021** SeqNo: **4070530**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.422	1.0	10.00	0	94.2	85	115				

Sample ID: **N043659-001D-MS** SampType: **MS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **149927**
Client ID: **ZZZZZZ** Batch ID: **83757** TestNo: **EPA 200.8** Analysis Date: **1/7/2021** SeqNo: **4070541**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	433.898	5.0	10.00	406.3	276	75	125				S

Sample ID: **N043659-001D-MSD** SampType: **MSD** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **1/7/2021** RunNo: **149927**
Client ID: **ZZZZZZ** Batch ID: **83757** TestNo: **EPA 200.8** Analysis Date: **1/7/2021** SeqNo: **4070544**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	429.570	5.0	10.00	406.3	232	75	125	433.9	1.00	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R149930** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **149930**
Client ID: **PBW** Batch ID: **R149930** TestNo: **EPA 218.6** Analysis Date: **1/7/2021** SeqNo: **4071374**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R149930** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **149930**
Client ID: **LCSW** Batch ID: **R149930** TestNo: **EPA 218.6** Analysis Date: **1/7/2021** SeqNo: **4071375**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.875	0.20	5.000	0	97.5	90	110				

Sample ID: **N043672-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **149930**
Client ID: **ZZZZZZ** Batch ID: **R149930** TestNo: **EPA 218.6** Analysis Date: **1/7/2021** SeqNo: **4071377**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	688.385	10	250.0	435.5	101	90	110				

Sample ID: **N043673-017AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **149930**
Client ID: **ZZZZZZ** Batch ID: **R149930** TestNo: **EPA 218.6** Analysis Date: **1/7/2021** SeqNo: **4071387**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	97.873	2.0	50.00	48.09	99.6	90	110				

Sample ID: **N043673-017AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **149930**
Client ID: **ZZZZZZ** Batch ID: **R149930** TestNo: **EPA 218.6** Analysis Date: **1/7/2021** SeqNo: **4071388**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	98.273	2.0	50.00	48.09	100	90	110	97.87	0.408	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N043673-012ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **149930**
Client ID: **ZZZZZZ** Batch ID: **R149930** TestNo: **EPA 218.6** Analysis Date: **1/7/2021** SeqNo: **4071402**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	567.155	10						573.7	1.15	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8Dis_CrPGE_TPK

Sample ID: **N043659-001D-PS** SampType: **PS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: RunNo: **149927**
Client ID: **ZZZZZZ** Batch ID: **83757** TestNo: **EPA 200.8** Analysis Date: **1/7/2021** SeqNo: **4070536**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	426.505	5.0	10.00	406.3	202	80	120				S

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0121
Lab Order:	N043672	**Collection Date:**	1/6/2021 8:37:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043672-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ALKALINITY, SPECIATED							
			SM 2320 B				
RunID: **NV00922-WC_210108B**	QC Batch: **R149938**			PrepDate:			Analyst: **LR**
Alkalinity, Total (As CaCO3)	150	1.2	5.0		mg/L	1	1/8/2021 01:50 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 2320_W_SP

Sample ID: **LCS-R149938** SampType: **LCS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **149938**
Client ID: **LCSW** Batch ID: **R149938** TestNo: **SM 2320 B** Analysis Date: **1/8/2021** SeqNo: **4071543**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	99.359	5.0	100.0	0	99.4	85	115				

Sample ID: **MB-R149938** SampType: **MBLK** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **149938**
Client ID: **PBW** Batch ID: **R149938** TestNo: **SM 2320 B** Analysis Date: **1/8/2021** SeqNo: **4071544**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	5.0									

Sample ID: **N043672-001CDUP** SampType: **DUP** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **149938**
Client ID: **ZZZZZZ** Batch ID: **R149938** TestNo: **SM 2320 B** Analysis Date: **1/8/2021** SeqNo: **4071546**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	147.436	5.0						145.3	1.46	30	

Sample ID: **N043672-001CMS** SampType: **MS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **149938**
Client ID: **ZZZZZZ** Batch ID: **R149938** TestNo: **SM 2320 B** Analysis Date: **1/8/2021** SeqNo: **4071547**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	252.137	5.0	100.0	145.3	107	75	125				

Sample ID: **N043672-001CMSD** SampType: **MSD** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **149938**
Client ID: **ZZZZZZ** Batch ID: **R149938** TestNo: **SM 2320 B** Analysis Date: **1/8/2021** SeqNo: **4071548**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	251.068	5.0	100.0	145.3	106	75	125	252.1	0.425	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N043672
Project: PG&E Topock - PMP, RC000753.801D
Lab ID: N043672-001

Client Sample ID: TW-03D-0121
Collection Date: 1/6/2021 8:37:00 AM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_210109B** QC Batch: **R149962** PrepDate: Analyst: **RAB**							
Chloride	2100	17	250		mg/L	500	1/10/2021 07:47 AM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_210109B** QC Batch: **R149962** PrepDate: Analyst: **RAB**							
Sulfate	470	2.0	25		mg/L	50	1/10/2021 07:31 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: **LCS-R149962_CL** SampType: **LCS** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **149962**
Client ID: **LCSW** Batch ID: **R149962** TestNo: **EPA 300.0** Analysis Date: **1/9/2021** SeqNo: **4076982**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.989	0.50	2.000	0	99.5	90	110				

Sample ID: **MB-R149962_CL** SampType: **MBLK** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **149962**
Client ID: **PBW** Batch ID: **R149962** TestNo: **EPA 300.0** Analysis Date: **1/9/2021** SeqNo: **4076983**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.50									

Sample ID: **N043672-001CDUP** SampType: **DUP** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **149962**
Client ID: **ZZZZZZ** Batch ID: **R149962** TestNo: **EPA 300.0** Analysis Date: **1/10/2021** SeqNo: **4076993**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	2103.000	250						2084	0.886	20	

Sample ID: **N043672-001CMS** SampType: **MS** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **149962**
Client ID: **ZZZZZZ** Batch ID: **R149962** TestNo: **EPA 300.0** Analysis Date: **1/10/2021** SeqNo: **4076994**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3110.150	250	1000	2084	103	80	120				

Sample ID: **N043672-001CMSD** SampType: **MSD** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **149962**
Client ID: **ZZZZZZ** Batch ID: **R149962** TestNo: **EPA 300.0** Analysis Date: **1/10/2021** SeqNo: **4076995**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3128.100	250	1000	2084	104	80	120	3110	0.575	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043672
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: **LCS-R149962_SO4** SampType: **LCS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **149962**
Client ID: **LCSW** Batch ID: **R149962** TestNo: **EPA 300.0** Analysis Date: **1/9/2021** SeqNo: **4077002**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.933	0.50	4.000	0	98.3	90	110				

Sample ID: **MB-R149962_SO4** SampType: **MBLK** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **149962**
Client ID: **PBW** Batch ID: **R149962** TestNo: **EPA 300.0** Analysis Date: **1/9/2021** SeqNo: **4077003**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	0.246	0.50									

Sample ID: **N043681-011BMS** SampType: **MS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **149962**
Client ID: **ZZZZZZ** Batch ID: **R149962** TestNo: **EPA 300.0** Analysis Date: **1/10/2021** SeqNo: **4077012**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	52.035	2.5	20.00	32.16	99.4	80	120				

Sample ID: **N043681-011BMSD** SampType: **MSD** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **149962**
Client ID: **ZZZZZZ** Batch ID: **R149962** TestNo: **EPA 300.0** Analysis Date: **1/10/2021** SeqNo: **4077013**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	51.902	2.5	20.00	32.16	98.7	80	120	52.04	0.257	20	

Sample ID: **N043681-012BDUP** SampType: **DUP** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **149962**
Client ID: **ZZZZZZ** Batch ID: **R149962** TestNo: **EPA 300.0** Analysis Date: **1/10/2021** SeqNo: **4077014**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	32.122	2.5						32.30	0.542	20	

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

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P: 702.307.2659 F: 702.307.2691
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www.assetlaboratories.com

Client: Arcadis
Address: 1410 Rocky Ridge Dr # 330
Address: Roseville, CA 95661
Phone: 916-786-3302 Fax:
Submitted By: Luke Baumgarte
Title: Sampling Technician
Signature: Date: 01/06/21
I hereby authorize ASSET Labs to perform the tests indicated below.
Project Name: PG&E Topock - PMP
Project Number: RC000753.801D

Report to: Dan Bush
Company: Arcadis
Email: dan.bush@arcadis.com
daniel.moore@critigen.com
Address: 1410 Rocky Ridge Dr # 330
Roseville, CA 95661
Phone: 916-786-3302 Fax:
Sampled By: Luke Baumgarte
I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for
Signature: Date: 01/06/21

Bill to: Marty Bloes
Address:
Address:
Email to: mbloes@pivox.com
P.O.# SWA-ASSET-C9817-051
Phone: 949-727-1400, ext 200
Fax:

Matrix		
Ground	x	Sediment
Potable		Soil
NPDES		Other Solid
Surface		

EDD Requirement
Excel EDD
Geotracker
Labspec
Others ✓
Specify: RWQCB
Global ID

QA/QC
RTNE
RWQCB ✓
CalTrans
LEVEL
LEVEL
Regulatory
Specify State:

Sample Receipt Condition Y N
1. Chilled ✓
2. Headspace ✓
3. Container Intact ✓
4. Seal Present ✓
5. IR number
6. Method of Cooling: Ice
Sample Temp: 2.0
Courier:
Tracking No.:

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 mL poly)	Dissolved metals (EPA 200.8) FF; HNO3, 500 mL poly (1 L poly)	Dissolved metals (EPA200.7) FF; HNO3 Ca, Mg, Fe, Na, (1 L poly)	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 As, Mn, Fe, Se, Mo, Ba (1 L poly)	Total metals (SW6010B); HNO3 Fe (500 mL poly)	Anions (E300.0); Cl, SO4 (1 liter poly)	Specific Conductance (E120.1) (1 liter poly)	pH (SM4500HB) (1 liter poly)	TDS (SM2540C) (1 liter poly)	Alkalinity (Total, reported as CaCO3) (SM2320B) (1 liter poly)	TSS (SM2540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4 (125 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1	N043672-01	TW-03D-0121	1/6/21	0837		X		X	X			X	X	X	X	X		X		4	P	BN
2		~~TW-04-0121~~						X	X			X						X		4	P	BN
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

46

N/A

Reliquished by (Signature and Printed Name): Luke Baumgarte Date/Time: 1/6/21
Reliquished by (Signature and Printed Name): Date/Time: 1/6/21 1445
Reliquished by (Signature and Printed Name): Date/Time: 1/6/21 1641
Reliquished by (Signature and Printed Name): Noandra Rodriguez Date/Time: 1/6/21 1641
Reliquished by (Signature and Printed Name): Date/Time:
Reliquished by (Signature and Printed Name): Date/Time:

Turn Around Time (TAT)
- A < 24 Hrs or Same Day TAT
- B = Next Workday
- C = 2 Workdays
- D = 3 Workdays
- X E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instructions
Title 22 Metals - Ag, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:
H=HCL N=HNO3 S=H_2SO_4 C=4°C
Z=Zn(AC)$_2$ O=NaOH T=$Na_2S_2O_3$
Others/Specify: B (NH4)2SO4/NH4OH

Container Type:
T=Tube V=VOA P=Pint
J=Jar B=Tedlar G=Glass
M=Metal M=Metal C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	1/6/2021	Workorder:	N043672
Rep sample Temp (Deg C):	2.8	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: Sample for pH received past holding time.

Checklist Completed By: YR YRJ 1/6/2021

Reviewed By: MBC 01/07/2021

ASSET Laboratories

WORK ORDER Summary

07-Jan-21

WorkOrder: N043672

Client ID: ARCUS02

Project: PG&E Topock - PMP, RC000753.801D **QC Level:** Level IV **Date Received:** 1/6/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043672-001A	TW-03D-0121	1/6/2021 8:37:00 AM	1/20/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043672-001B			1/20/2021			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			1/20/2021		EPA 200.7	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			1/20/2021			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			1/20/2021		EPA 200.8	DISSOLVED METALS BY ICPMS	☐	☐	☐	WW
			1/20/2021		EPA 200.8	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043672-001C			1/20/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			1/20/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			1/20/2021		SM2540C	TOTAL FILTERABLE RESIDUE	☐	☐	☐	LSR
			1/20/2021			Total Dissolved Solids Prep	☐	☐	☐	LSR
			1/20/2021		SM 2320 B	ALKALINITY, SPECIATED	☐	☐	☐	LSR
			1/20/2021		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	LSR
			1/20/2021		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	LSR
			1/20/2021		SM 1030F1	Cation-Anion Balance Calculation	☐	☐	☐	LSR
N043672-001D			1/20/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043672-002A	FOLDER	1/20/2021	1/20/2021		EDD	Client specific project	☐	☐	☐	LAB
			1/20/2021		Folder	Folder	☐	☐	☐	LAB
			1/20/2021		Folder	Level IV Report	☐	☐	☐	LAB
			1/20/2021		Folder	Folder	☐	☐	☐	LAB

February 10, 2021

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N043920

RE: PG&E Topock - RMP, RC000753.0801

Attention: Dan Bush

Enclosed are the results for sample(s) received on January 27, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

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

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time except for pH. pH testing is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Analytical Comments for EPA 6010B_Dissolved:

Matrix Spike (MS) is outside recovery criteria for Iron in QC sample N043920-001BMS possibly due to matrix interference. Post Spike (PS) passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

RPD for Matrix Spike (MS) and Matrix Spike Duplicate (MSD) is outside criteria; however, the associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 6020_Dissolved:

Matrix Spike Duplicate (MSD) is outside recovery criteria for Barium in QC sample N043920-001BMSD possibly due to matrix interference. Post Spike (PS) passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *10-Feb-21*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.0801
Lab Order: N043920
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N043920-001A	C-R22A-D-0121LL	Groundwater	1/27/2021 9:18:00 AM	1/27/2021	2/10/2021
N043920-001B	C-R22A-D-0121LL	Groundwater	1/27/2021 9:18:00 AM	1/27/2021	2/10/2021
N043920-001C	C-R22A-D-0121LL	Groundwater	1/27/2021 9:18:00 AM	1/27/2021	2/10/2021
N043920-001D	C-R22A-D-0121LL	Groundwater	1/27/2021 9:18:00 AM	1/27/2021	2/10/2021
N043920-001E	C-R22A-D-0121LL	Groundwater	1/27/2021 9:18:00 AM	1/27/2021	2/10/2021
N043920-002A	C-R22A-S-0121LL	Groundwater	1/27/2021 9:30:00 AM	1/27/2021	2/10/2021
N043920-002B	C-R22A-S-0121LL	Groundwater	1/27/2021 9:30:00 AM	1/27/2021	2/10/2021
N043920-002C	C-R22A-S-0121LL	Groundwater	1/27/2021 9:30:00 AM	1/27/2021	2/10/2021
N043920-002D	C-R22A-S-0121LL	Groundwater	1/27/2021 9:30:00 AM	1/27/2021	2/10/2021
N043920-002E	C-R22A-S-0121LL	Groundwater	1/27/2021 9:30:00 AM	1/27/2021	2/10/2021
N043920-003A	C-R27-D-0121LL	Groundwater	1/27/2021 10:08:00 AM	1/27/2021	2/10/2021
N043920-003B	C-R27-D-0121LL	Groundwater	1/27/2021 10:08:00 AM	1/27/2021	2/10/2021
N043920-003C	C-R27-D-0121LL	Groundwater	1/27/2021 10:08:00 AM	1/27/2021	2/10/2021
N043920-003D	C-R27-D-0121LL	Groundwater	1/27/2021 10:08:00 AM	1/27/2021	2/10/2021
N043920-003E	C-R27-D-0121LL	Groundwater	1/27/2021 10:08:00 AM	1/27/2021	2/10/2021
N043920-004A	C-R27-S-0121LL	Groundwater	1/27/2021 10:21:00 AM	1/27/2021	2/10/2021
N043920-004B	C-R27-S-0121LL	Groundwater	1/27/2021 10:21:00 AM	1/27/2021	2/10/2021
N043920-004C	C-R27-S-0121LL	Groundwater	1/27/2021 10:21:00 AM	1/27/2021	2/10/2021
N043920-004D	C-R27-S-0121LL	Groundwater	1/27/2021 10:21:00 AM	1/27/2021	2/10/2021
N043920-004E	C-R27-S-0121LL	Groundwater	1/27/2021 10:21:00 AM	1/27/2021	2/10/2021
N043920-005A	C-TAZ-D-0121LL	Groundwater	1/27/2021 7:56:00 AM	1/27/2021	2/10/2021
N043920-005B	C-TAZ-D-0121LL	Groundwater	1/27/2021 7:56:00 AM	1/27/2021	2/10/2021
N043920-005C	C-TAZ-D-0121LL	Groundwater	1/27/2021 7:56:00 AM	1/27/2021	2/10/2021
N043920-005D	C-TAZ-D-0121LL	Groundwater	1/27/2021 7:56:00 AM	1/27/2021	2/10/2021
N043920-005E	C-TAZ-D-0121LL	Groundwater	1/27/2021 7:56:00 AM	1/27/2021	2/10/2021
N043920-006A	AmbientBlank-1-0121LL	Groundwater	1/27/2021 10:25:00 AM	1/27/2021	2/10/2021
N043920-007A	C-TAZ-S-0121LL	Groundwater	1/27/2021 8:11:00 AM	1/27/2021	2/10/2021
N043920-007B	C-TAZ-S-0121LL	Groundwater	1/27/2021 8:11:00 AM	1/27/2021	2/10/2021
N043920-007C	C-TAZ-S-0121LL	Groundwater	1/27/2021 8:11:00 AM	1/27/2021	2/10/2021

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.0801
Lab Order: N043920
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N043920-007D	C-TAZ-S-0121LL	Groundwater	1/27/2021 8:11:00 AM	1/27/2021	2/10/2021
N043920-007E	C-TAZ-S-0121LL	Groundwater	1/27/2021 8:11:00 AM	1/27/2021	2/10/2021
N043920-008A	AmbientBlank-2-0121LL	Groundwater	1/27/2021 10:43:00 AM	1/27/2021	2/10/2021
N043920-009A	R-28-0121LL	Groundwater	1/27/2021 10:38:00 AM	1/27/2021	2/10/2021
N043920-009B	R-28-0121LL	Groundwater	1/27/2021 10:38:00 AM	1/27/2021	2/10/2021
N043920-009C	R-28-0121LL	Groundwater	1/27/2021 10:38:00 AM	1/27/2021	2/10/2021
N043920-009D	R-28-0121LL	Groundwater	1/27/2021 10:38:00 AM	1/27/2021	2/10/2021
N043920-009E	R-28-0121LL	Groundwater	1/27/2021 10:38:00 AM	1/27/2021	2/10/2021
N043920-010A	R63-0121LL	Groundwater	1/27/2021 9:00:00 AM	1/27/2021	2/10/2021
N043920-010B	R63-0121LL	Groundwater	1/27/2021 9:00:00 AM	1/27/2021	2/10/2021
N043920-010C	R63-0121LL	Groundwater	1/27/2021 9:00:00 AM	1/27/2021	2/10/2021
N043920-010D	R63-0121LL	Groundwater	1/27/2021 9:00:00 AM	1/27/2021	2/10/2021
N043920-010E	R63-0121LL	Groundwater	1/27/2021 9:00:00 AM	1/27/2021	2/10/2021
N043920-011A	C-BNS-0121LL	Groundwater	1/27/2021 9:51:00 AM	1/27/2021	2/10/2021
N043920-011B	C-BNS-0121LL	Groundwater	1/27/2021 9:51:00 AM	1/27/2021	2/10/2021
N043920-011C	C-BNS-0121LL	Groundwater	1/27/2021 9:51:00 AM	1/27/2021	2/10/2021
N043920-011D	C-BNS-0121LL	Groundwater	1/27/2021 9:51:00 AM	1/27/2021	2/10/2021
N043920-011E	C-BNS-0121LL	Groundwater	1/27/2021 9:51:00 AM	1/27/2021	2/10/2021
N043920-012A	C-I-3-D-0121LL	Groundwater	1/27/2021 8:30:00 AM	1/27/2021	2/10/2021
N043920-012B	C-I-3-D-0121LL	Groundwater	1/27/2021 8:30:00 AM	1/27/2021	2/10/2021
N043920-012C	C-I-3-D-0121LL	Groundwater	1/27/2021 8:30:00 AM	1/27/2021	2/10/2021
N043920-012D	C-I-3-D-0121LL	Groundwater	1/27/2021 8:30:00 AM	1/27/2021	2/10/2021
N043920-012E	C-I-3-D-0121LL	Groundwater	1/27/2021 8:30:00 AM	1/27/2021	2/10/2021
N043920-013A	C-I-3-S-0121LL	Groundwater	1/27/2021 8:44:00 AM	1/27/2021	2/10/2021
N043920-013B	C-I-3-S-0121LL	Groundwater	1/27/2021 8:44:00 AM	1/27/2021	2/10/2021
N043920-013C	C-I-3-S-0121LL	Groundwater	1/27/2021 8:44:00 AM	1/27/2021	2/10/2021
N043920-013D	C-I-3-S-0121LL	Groundwater	1/27/2021 8:44:00 AM	1/27/2021	2/10/2021
N043920-013E	C-I-3-S-0121LL	Groundwater	1/27/2021 8:44:00 AM	1/27/2021	2/10/2021
N043920-014A	SW1-0121LL	Groundwater	1/27/2021 11:35:00 AM	1/27/2021	2/10/2021
N043920-014B	SW1-0121LL	Groundwater	1/27/2021 11:35:00 AM	1/27/2021	2/10/2021

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.0801
Lab Order: N043920
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N043920-014C	SW1-0121LL	Groundwater	1/27/2021 11:35:00 AM	1/27/2021	2/10/2021
N043920-015A	SW2-0121LL	Groundwater	1/27/2021 11:55:00 AM	1/27/2021	2/10/2021
N043920-015B	SW2-0121LL	Groundwater	1/27/2021 11:55:00 AM	1/27/2021	2/10/2021
N043920-015C	SW2-0121LL	Groundwater	1/27/2021 11:55:00 AM	1/27/2021	2/10/2021

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:18:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210128C**	QC Batch: **R150373**			PrepDate:			Analyst: **LR**
Specific Conductance	860	0.10	0.10		umhos/cm	1	1/28/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210128C**	QC Batch: **R150373**			PrepDate:			Analyst: **LR**
Specific Conductance	840	0.10	0.10		umhos/cm	1	1/28/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:08:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210128C**	QC Batch: **R150373**			PrepDate:			Analyst: **LR**
Specific Conductance	810	0.10	0.10		umhos/cm	1	1/28/2021 11:30 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:21:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210128C**	QC Batch: **R150373**			PrepDate:			Analyst: **LR**
Specific Conductance	820	0.10	0.10		umhos/cm	1	1/28/2021 11:30 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 7:56:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210128C**	QC Batch: **R150373**			PrepDate:			Analyst: **LR**
Specific Conductance	810	0.10	0.10		umhos/cm	1	1/28/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:11:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210128C**	QC Batch: **R150373**			PrepDate:			Analyst: **LR**
Specific Conductance	820	0.10	0.10		umhos/cm	1	1/28/2021 11:30 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:38:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210128C**	QC Batch: **R150373**			PrepDate:			Analyst: **LR**
Specific Conductance	830	0.10	0.10		umhos/cm	1	1/28/2021 11:30 AM

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:00:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210128C**	QC Batch: **R150373**			PrepDate:			Analyst: **LR**
Specific Conductance	810	0.10	0.10		umhos/cm	1	1/28/2021 11:30 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:51:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210128C**	QC Batch: **R150373**			PrepDate:			Analyst: **LR**
Specific Conductance	820	0.10	0.10		umhos/cm	1	1/28/2021 11:30 AM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210128C**	QC Batch: **R150373**			PrepDate:			Analyst: **LR**
Specific Conductance	830	0.10	0.10		umhos/cm	1	1/28/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:44:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210128C**	QC Batch: **R150373**			PrepDate:			Analyst: **LR**
Specific Conductance	850	0.10	0.10		umhos/cm	1	1/28/2021 11:30 AM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW1-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 11:35:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210128C**	QC Batch: **R150373**			PrepDate:			Analyst: **LR**
Specific Conductance	1100	0.10	0.10		umhos/cm	1	1/28/2021 11:30 AM

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW2-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 11:55:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210128C**	QC Batch: **R150373**			PrepDate:			Analyst: **LR**
Specific Conductance	1200	0.10	0.10		umhos/cm	1	1/28/2021 11:30 AM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N043920-001DDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150373**
Client ID: **ZZZZZZ** Batch ID: **R150373** TestNo: **EPA 120.1** Analysis Date: **1/28/2021** SeqNo: **4089218**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	861.000	0.10						856.0	0.582	2	

Sample ID: **N043920-013DDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150373**
Client ID: **ZZZZZZ** Batch ID: **R150373** TestNo: **EPA 120.1** Analysis Date: **1/28/2021** SeqNo: **4089230**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	845.000	0.10						848.0	0.354	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:18:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210128B** QC Batch: **R150372**				PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	1/28/2021 11:00 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/28/2021 11:00 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210128B** QC Batch: **R150372**				PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	1/28/2021 11:00 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/28/2021 11:00 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:08:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210128B** QC Batch: **R150372**				PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	1/28/2021 11:00 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/28/2021 11:00 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:21:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210128B** QC Batch: **R150372**				PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	1/28/2021 11:00 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/28/2021 11:00 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 7:56:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210128B** QC Batch: **R150372**				PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	1/28/2021 11:00 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/28/2021 11:00 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:11:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210128B** QC Batch: **R150372**				PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	1/28/2021 11:00 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/28/2021 11:00 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:38:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210128B** QC Batch: **R150372**				PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	1/28/2021 11:00 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/28/2021 11:00 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:00:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210128B** QC Batch: **R150372**				PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	1/28/2021 11:00 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/28/2021 11:00 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:51:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210128B** QC Batch: **R150372**				PrepDate:			Analyst: **LR**
pH	8.0	0.10	0.10	H	pH Units	1	1/28/2021 11:00 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/28/2021 11:00 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210128B** QC Batch: **R150372**				PrepDate:			Analyst: **LR**
pH	8.1	0.10	0.10	H	pH Units	1	1/28/2021 11:00 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/28/2021 11:00 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:44:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210128B** QC Batch: **R150372**				PrepDate:			Analyst: **LR**
pH	8.1	0.10	0.10	H	pH Units	1	1/28/2021 11:00 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/28/2021 11:00 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW1-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 11:35:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210128B** QC Batch: **R150372**				PrepDate:			Analyst: **LR**
pH	7.5	0.10	0.10	H	pH Units	1	1/28/2021 11:00 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/28/2021 11:00 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW2-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 11:55:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
SM4500-H+B							
RunID: **NV00922-WC_210128B** QC Batch: **R150372** PrepDate: Analyst: **LR**							
pH	7.1	0.10	0.10	H	pH Units	1	1/28/2021 11:00 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/28/2021 11:00 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID: **N043920-001DDUP** SampType: **DUP** TestCode: **150.1_4500H+** Units: **pH Units** Prep Date: RunNo: **150372**
Client ID: **ZZZZZZ** Batch ID: **R150372** TestNo: **SM4500-H+B** Analysis Date: **1/28/2021** SeqNo: **4089201**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.990	0.10						7.980	0.125	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Sample ID: **N043920-013DDUP** SampType: **DUP** TestCode: **150.1_4500H+** Units: **pH Units** Prep Date: RunNo: **150372**
Client ID: **ZZZZZZ** Batch ID: **R150372** TestNo: **SM4500-H+B** Analysis Date: **1/28/2021** SeqNo: **4089212**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.090	0.10						8.070	0.248	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:18:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210128E**	QC Batch: **84023**				PrepDate:	**1/28/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	1/28/2021 12:03 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210128E**	QC Batch: **84023**				PrepDate:	**1/28/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	1/28/2021 12:03 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:08:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210129D** QC Batch: **84059** PrepDate: **1/29/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	1/29/2021 12:32 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:21:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210129D**	QC Batch: **84059**				PrepDate:	**1/29/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	1/29/2021 12:32 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 7:56:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210129D**	QC Batch: **84059**				PrepDate:	**1/29/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	1/29/2021 12:32 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:11:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210129D**	QC Batch: **84059**				PrepDate:	**1/29/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	1/29/2021 12:32 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:38:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210129D** QC Batch: **84059** PrepDate: **1/29/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	1/29/2021 12:32 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:00:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210129D** QC Batch: **84059** PrepDate: **1/29/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	1/29/2021 12:32 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:51:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210129D**	QC Batch: **84059**				PrepDate:	**1/29/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	1/29/2021 12:32 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210129D**	QC Batch: **84059**				PrepDate:	**1/29/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	1/29/2021 12:32 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:44:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210129D**	QC Batch: **84059**				PrepDate:	**1/29/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	1/29/2021 12:32 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **LCS-84023** SampType: **LCS** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **1/28/2021** RunNo: **150376**
Client ID: **LCSW** Batch ID: **84023** TestNo: **SM2540D** Analysis Date: **1/28/2021** SeqNo: **4089384**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filtera	963.000	10	1000	0	96.3	80	120				

Sample ID: **MB-84023** SampType: **MBLK** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **1/28/2021** RunNo: **150376**
Client ID: **PBW** Batch ID: **84023** TestNo: **SM2540D** Analysis Date: **1/28/2021** SeqNo: **4089385**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filtera	ND	10									

Sample ID: **N043896-001DDUP** SampType: **DUP** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **1/28/2021** RunNo: **150376**
Client ID: **ZZZZZZ** Batch ID: **84023** TestNo: **SM2540D** Analysis Date: **1/28/2021** SeqNo: **4089387**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filtera	27.500	5.0						27.50	0	5	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID: **LCS-84059** SampType: **LCS** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **1/29/2021** RunNo: **150398**
Client ID: **LCSW** Batch ID: **84059** TestNo: **SM2540D** Analysis Date: **1/29/2021** SeqNo: **4091019**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filtera	953.000	10	1000	0	95.3	80	120				

Sample ID: **MB-84059** SampType: **MBLK** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **1/29/2021** RunNo: **150398**
Client ID: **PBW** Batch ID: **84059** TestNo: **SM2540D** Analysis Date: **1/29/2021** SeqNo: **4091020**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filtera	ND	10									

Sample ID: **N043920-003DDUP** SampType: **DUP** TestCode: **160.2_2540D_** Units: **mg/L** Prep Date: **1/29/2021** RunNo: **150398**
Client ID: **ZZZZZZ** Batch ID: **84059** TestNo: **SM2540D** Analysis Date: **1/29/2021** SeqNo: **4091022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filtera	ND	5.0						0	0	5	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:18:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210128A** QC Batch: **R150363** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/28/2021 10:03 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210128C** QC Batch: **84019** PrepDate: **1/28/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	1/28/2021 04:42 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210128A** QC Batch: **R150363** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/28/2021 10:22 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210128C** QC Batch: **84019** PrepDate: **1/28/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	1/28/2021 05:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:08:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210128A** QC Batch: **R150363** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/28/2021 10:41 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210128C** QC Batch: **84019** PrepDate: **1/28/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	1/28/2021 05:16 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:21:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210128A** QC Batch: **R150363** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/28/2021 11:00 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210128C** QC Batch: **84019** PrepDate: **1/28/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	1/28/2021 05:22 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 7:56:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210128A** QC Batch: **R150363** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/28/2021 11:47 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210128C** QC Batch: **84019** PrepDate: **1/28/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	1/28/2021 05:39 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:11:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210128A** QC Batch: **R150363** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/28/2021 12:06 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210128C** QC Batch: **84019** PrepDate: **1/28/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	1/28/2021 05:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:38:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210128A** QC Batch: **R150363** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/28/2021 12:25 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210128C** QC Batch: **84019** PrepDate: **1/28/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	1/28/2021 05:51 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:00:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210128A** QC Batch: **R150363** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/28/2021 12:44 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210128C** QC Batch: **84019** PrepDate: **1/28/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	1/28/2021 05:57 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:51:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210128A** QC Batch: **R150363** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/28/2021 01:32 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210128C** QC Batch: **84019** PrepDate: **1/28/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	1/28/2021 06:03 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210128A** QC Batch: **R150363** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/28/2021 01:50 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210128C** QC Batch: **84019** PrepDate: **1/28/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	1/28/2021 06:08 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:44:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210128A** QC Batch: **R150363** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/28/2021 02:09 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210128C** QC Batch: **84019** PrepDate: **1/28/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	1/28/2021 06:14 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW1-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 11:35:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210128A** QC Batch: **R150363** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/28/2021 02:28 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210128C** QC Batch: **84019** PrepDate: **1/28/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	1/28/2021 06:20 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	SW2-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 11:55:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210128A** QC Batch: **R150363** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/28/2021 02:47 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210128C** QC Batch: **84019** PrepDate: **1/28/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	1/28/2021 06:26 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R150363** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **PBW** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089022**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R150363** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **LCSW** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089023**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.952	0.20	5.000	0	99.0	90	110				

Sample ID: **N043920-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089025**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.016	0.20	1.000	0	102	90	110				

Sample ID: **N043920-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089027**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.029	0.20	1.000	0	103	90	110				

Sample ID: **N043920-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.021	0.20	1.000	0	102	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N043920-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089031**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.064	0.20	1.000	0	106	90	110				

Sample ID: **N043920-001AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089034**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.023	0.20	1.000	0	102	90	110	1.016	0.657	20	

Sample ID: **N043920-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089036**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.017	0.20	1.000	0	102	90	110				

Sample ID: **N043920-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089038**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.999	0.20	1.000	0	99.9	90	110				

Sample ID: **N043920-009AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089040**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.023	0.20	1.000	0	102	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N043920-010AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089042**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.020	0.20	1.000	0	102	90	110				

Sample ID: **N043920-005ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089043**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID: **N043920-011AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089047**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.005	0.20	1.000	0	101	90	110				

Sample ID: **N043920-012AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089049**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.994	0.20	1.000	0	99.4	90	110				

Sample ID: **N043920-013AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089051**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.057	0.20	1.000	0	106	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N043920-014AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089053**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.008	0.20	1.000	0	101	90	110				

Sample ID: **N043920-015AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150363**
Client ID: **ZZZZZZ** Batch ID: **R150363** TestNo: **EPA 218.6** Analysis Date: **1/28/2021** SeqNo: **4089055**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.090	0.20	1.000	0	109	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **MB-84019** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **1/28/2021** RunNo: **150390**
Client ID: **PBW** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/28/2021** SeqNo: **4090130**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: **LCS-84019** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **1/28/2021** RunNo: **150390**
Client ID: **LCSW** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/28/2021** SeqNo: **4090131**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.173	1.0	10.00	0	102	85	115				

Sample ID: **N043920-001BMS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **1/28/2021** RunNo: **150390**
Client ID: **ZZZZZZ** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/28/2021** SeqNo: **4090135**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.650	1.0	10.00	0	96.5	75	125				

Sample ID: **N043920-001BMSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **1/28/2021** RunNo: **150390**
Client ID: **ZZZZZZ** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/28/2021** SeqNo: **4090136**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.711	1.0	10.00	0	97.1	75	125	9.650	0.630	20	

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:18:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210131A** QC Batch: **R150428** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.30	0.032	0.050		mg/L	1	1/31/2021 06:36 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210130E** QC Batch: **R150406** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.39	0.032	0.050		mg/L	1	1/30/2021 06:52 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:08:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210130E** QC Batch: **R150406** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.40	0.032	0.050		mg/L	1	1/30/2021 06:56 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:21:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210131A** QC Batch: **R150428** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.28	0.032	0.050		mg/L	1	1/31/2021 06:58 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 7:56:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210131A** QC Batch: **R150428** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.29	0.032	0.050		mg/L	1	1/31/2021 07:03 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:11:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210131A** QC Batch: **R150428** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.26	0.032	0.050		mg/L	1	1/31/2021 08:18 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:38:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210131A** QC Batch: **R150428** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.27	0.032	0.050		mg/L	1	1/31/2021 08:22 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:00:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210131A** QC Batch: **R150428** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.28	0.032	0.050		mg/L	1	1/31/2021 08:27 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:51:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210131A** QC Batch: **R150428** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.27	0.032	0.050		mg/L	1	1/31/2021 08:31 PM

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210131A** QC Batch: **R150428** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.28	0.032	0.050		mg/L	1	1/31/2021 08:36 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:44:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210131A** QC Batch: **R150428** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.29	0.032	0.050		mg/L	1	1/31/2021 08:40 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R150406** SampType: **MBLK** TestCode: **4500N03F_W_** Units: **mg/L** Prep Date: RunNo: **150406**
Client ID: **PBW** Batch ID: **R150406** TestNo: **SM4500-NO3F** Analysis Date: **1/30/2021** SeqNo: **4091644**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R150406** SampType: **LCS** TestCode: **4500N03F_W_** Units: **mg/L** Prep Date: RunNo: **150406**
Client ID: **LCSW** Batch ID: **R150406** TestNo: **SM4500-NO3F** Analysis Date: **1/30/2021** SeqNo: **4091645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.492	0.050	0.5000	0	98.4	85	115				

Sample ID: **N043905-004BDUP** SampType: **DUP** TestCode: **4500N03F_W_** Units: **mg/L** Prep Date: RunNo: **150406**
Client ID: **ZZZZZZ** Batch ID: **R150406** TestNo: **SM4500-NO3F** Analysis Date: **1/30/2021** SeqNo: **4091647**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	1.003	0.10						1.004	0.159	20	

Sample ID: **N043905-004BMS** SampType: **MS** TestCode: **4500N03F_W_** Units: **mg/L** Prep Date: RunNo: **150406**
Client ID: **ZZZZZZ** Batch ID: **R150406** TestNo: **SM4500-NO3F** Analysis Date: **1/30/2021** SeqNo: **4091648**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	2.016	0.10	1.000	1.004	101	75	125				

Sample ID: **N043905-004BMSD** SampType: **MSD** TestCode: **4500N03F_W_** Units: **mg/L** Prep Date: RunNo: **150406**
Client ID: **ZZZZZZ** Batch ID: **R150406** TestNo: **SM4500-NO3F** Analysis Date: **1/30/2021** SeqNo: **4091649**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	2.032	0.10	1.000	1.004	103	75	125	2.016	0.751	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R150428** SampType: **MBLK** TestCode: **4500N03F_W_** Units: **mg/L** Prep Date: RunNo: **150428**
Client ID: **PBW** Batch ID: **R150428** TestNo: **SM4500-NO3F** Analysis Date: **1/31/2021** SeqNo: **4094067**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R150428** SampType: **LCS** TestCode: **4500N03F_W_** Units: **mg/L** Prep Date: RunNo: **150428**
Client ID: **LCSW** Batch ID: **R150428** TestNo: **SM4500-NO3F** Analysis Date: **1/31/2021** SeqNo: **4094068**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.494	0.050	0.5000	0	98.9	85	115				

Sample ID: **N043920-001EDUP** SampType: **DUP** TestCode: **4500N03F_W_** Units: **mg/L** Prep Date: RunNo: **150428**
Client ID: **ZZZZZZ** Batch ID: **R150428** TestNo: **SM4500-NO3F** Analysis Date: **1/31/2021** SeqNo: **4094070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.287	0.050						0.3035	5.59	20	

Sample ID: **N043920-001EMS** SampType: **MS** TestCode: **4500N03F_W_** Units: **mg/L** Prep Date: RunNo: **150428**
Client ID: **ZZZZZZ** Batch ID: **R150428** TestNo: **SM4500-NO3F** Analysis Date: **1/31/2021** SeqNo: **4094071**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.749	0.050	0.5000	0.3035	89.1	75	125				

Sample ID: **N043920-001EMSD** SampType: **MSD** TestCode: **4500N03F_W_** Units: **mg/L** Prep Date: RunNo: **150428**
Client ID: **ZZZZZZ** Batch ID: **R150428** TestNo: **SM4500-NO3F** Analysis Date: **1/31/2021** SeqNo: **4094072**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.767	0.050	0.5000	0.3035	92.7	75	125	0.7492	2.37	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:18:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A** QC Batch: **84020**				PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	24	18	20		ug/L	1	2/2/2021 09:14 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A** QC Batch: **84021**				PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	29	18	20		ug/L	1	2/2/2021 12:47 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84020**			PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/2/2021 09:39 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84021**			PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	32	18	20		ug/L	1	2/2/2021 11:20 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:08:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84020**			PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/2/2021 09:53 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84021**			PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	28	18	20		ug/L	1	2/2/2021 11:24 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:21:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84020**			PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/2/2021 09:57 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84021**			PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	31	18	20		ug/L	1	2/2/2021 11:29 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 7:56:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A** QC Batch: **84020**				PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	25	18	20		ug/L	1	2/2/2021 10:02 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A** QC Batch: **84021**				PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	34	18	20		ug/L	1	2/2/2021 12:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:11:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_210202A**	QC Batch: **84020**				PrepDate:	**1/28/2021**	Analyst: **DJ**
Iron	22	18	20		ug/L	1	2/2/2021 10:06 AM
TOTAL METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_210202A**	QC Batch: **84021**				PrepDate:	**1/28/2021**	Analyst: **DJ**
Iron	61	18	20		ug/L	1	2/2/2021 12:18 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:38:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A** QC Batch: **84020**				PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	20	18	20		ug/L	1	2/2/2021 10:10 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A** QC Batch: **84021**				PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	25	18	20		ug/L	1	2/2/2021 12:21 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:00:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84020**				PrepDate:	**1/28/2021**	Analyst: **DJ**
Iron	27	18	20		ug/L	1	2/2/2021 10:13 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84021**				PrepDate:	**1/28/2021**	Analyst: **DJ**
Iron	43	18	20		ug/L	1	2/2/2021 12:25 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:51:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84020**			PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/2/2021 10:17 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84021**			PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	33	18	20		ug/L	1	2/2/2021 12:29 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84020**				PrepDate:	**1/28/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/2/2021 10:22 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84021**				PrepDate:	**1/28/2021**	Analyst: **DJ**
Iron	23	18	20		ug/L	1	2/2/2021 12:42 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:44:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A** QC Batch: **84020**				PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	26	18	20		ug/L	1	2/2/2021 10:26 AM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A** QC Batch: **84021**				PrepDate:		**1/28/2021**	Analyst: **DJ**
Iron	29	18	20		ug/L	1	2/2/2021 12:38 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: **MB-84020** SampType: **MBLK** TestCode: **6010_WDPGE** Units: **ug/L** Prep Date: **1/28/2021** RunNo: **150474**
Client ID: **PBW** Batch ID: **84020** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/2/2021** SeqNo: **4096088**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	20									

Sample ID: **N043920-001BMS** SampType: **MS** TestCode: **6010_WDPGE** Units: **ug/L** Prep Date: **1/28/2021** RunNo: **150474**
Client ID: **ZZZZZZ** Batch ID: **84020** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/2/2021** SeqNo: **4096093**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	153.064	20	100.0	24.14	129	75	125				S

Sample ID: **N043920-001BMSD** SampType: **MSD** TestCode: **6010_WDPGE** Units: **ug/L** Prep Date: **1/28/2021** RunNo: **150474**
Client ID: **ZZZZZZ** Batch ID: **84020** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/2/2021** SeqNo: **4096094**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	116.037	20	100.0	24.14	91.9	75	125	153.1	27.5	20	R

Sample ID: **LCS-84020** SampType: **LCS** TestCode: **6010_WDPGE** Units: **ug/L** Prep Date: **1/28/2021** RunNo: **150474**
Client ID: **LCSW** Batch ID: **84020** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/2/2021** SeqNo: **4096107**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	93.218	20	100.0	0	93.2	85	115				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: **MB-84021** SampType: **MBLK** TestCode: **6010_WPGEP** Units: **ug/L** Prep Date: **1/28/2021** RunNo: **150474**
Client ID: **PBW** Batch ID: **84021** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/2/2021** SeqNo: **4096224**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	20									

Sample ID: **LCS-84021** SampType: **LCS** TestCode: **6010_WPGEP** Units: **ug/L** Prep Date: **1/28/2021** RunNo: **150474**
Client ID: **LCSW** Batch ID: **84021** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/2/2021** SeqNo: **4096225**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	107.370	20	100.0	0	107	85	115				

Sample ID: **N043920-001CMS** SampType: **MS** TestCode: **6010_WPGEP** Units: **ug/L** Prep Date: **1/28/2021** RunNo: **150474**
Client ID: **ZZZZZZ** Batch ID: **84021** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/2/2021** SeqNo: **4096229**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	123.974	20	100.0	28.62	95.3	75	125				

Sample ID: **N043920-001CMSD** SampType: **MSD** TestCode: **6010_WPGEP** Units: **ug/L** Prep Date: **1/28/2021** RunNo: **150474**
Client ID: **ZZZZZZ** Batch ID: **84021** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/2/2021** SeqNo: **4096230**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	124.704	20	100.0	28.62	96.1	75	125	124.0	0.587	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID: **N043920-001B-PS** SampType: **PS** TestCode: **6010_WDPGE** Units: **ug/L** Prep Date: RunNo: **150474**
Client ID: **ZZZZZZ** Batch ID: **84020** TestNo: **EPA 6010B EPA 3010A** Analysis Date: **2/2/2021** SeqNo: **4096092**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	127.258	20	100.0	24.14	103	80	120				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID: **N043920-001C-PS** SampType: **PS** TestCode: **6010_WPGEP** Units: **ug/L** Prep Date: RunNo: **150474**
Client ID: **ZZZZZZ** Batch ID: **84021** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/2/2021** SeqNo: **4096228**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	120.991	20	100.0	28.62	92.4	80	120				

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:18:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210128C**	QC Batch: **84019**				PrepDate:	**1/28/2021**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	1/28/2021 04:42 PM
Barium	110	0.15	1.0		µg/L	1	1/29/2021 01:57 PM
Manganese	2.3	0.26	0.50		µg/L	1	1/28/2021 04:42 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	1/28/2021 04:42 PM
Selenium	1.6	0.36	0.50		µg/L	1	1/28/2021 04:42 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R22A-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210128C**	QC Batch: **84019**				PrepDate:	**1/28/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	1/28/2021 05:10 PM
Barium	120	0.15	1.0		µg/L	1	1/29/2021 02:26 PM
Manganese	2.2	0.26	0.50		µg/L	1	1/28/2021 05:10 PM
Molybdenum	4.9	0.21	0.50		µg/L	1	1/28/2021 05:10 PM
Selenium	1.5	0.36	0.50		µg/L	1	1/28/2021 05:10 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:08:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210128C**	QC Batch: **84019**			PrepDate:		**1/28/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	1/28/2021 05:16 PM
Barium	120	0.15	1.0		µg/L	1	1/29/2021 02:31 PM
Manganese	1.4	0.26	0.50		µg/L	1	1/28/2021 05:16 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	1/28/2021 05:16 PM
Selenium	1.6	0.36	0.50		µg/L	1	1/28/2021 05:16 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-R27-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:21:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210128C**	QC Batch: **84019**				PrepDate:	**1/28/2021**	Analyst: **CEI**
Arsenic	2.1	0.081	0.10		µg/L	1	1/28/2021 05:22 PM
Barium	120	0.15	1.0		µg/L	1	1/29/2021 02:37 PM
Manganese	1.5	0.26	0.50		µg/L	1	1/28/2021 05:22 PM
Molybdenum	4.6	0.21	0.50		µg/L	1	1/28/2021 05:22 PM
Selenium	1.6	0.36	0.50		µg/L	1	1/28/2021 05:22 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 7:56:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210128C**	QC Batch: **84019**				PrepDate:	**1/28/2021**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	1/28/2021 05:39 PM
Barium	120	0.15	1.0		µg/L	1	1/29/2021 02:55 PM
Manganese	0.69	0.26	0.50		µg/L	1	1/28/2021 05:39 PM
Molybdenum	4.6	0.21	0.50		µg/L	1	1/28/2021 05:39 PM
Selenium	1.5	0.36	0.50		µg/L	1	1/28/2021 05:39 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-TAZ-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:11:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210128C**	QC Batch: **84019**				PrepDate:	**1/28/2021**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	1/28/2021 05:45 PM
Barium	120	0.15	1.0		µg/L	1	1/29/2021 03:00 PM
Manganese	0.79	0.26	0.50		µg/L	1	1/28/2021 05:45 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	1/28/2021 05:45 PM
Selenium	1.5	0.36	0.50		µg/L	1	1/28/2021 05:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-28-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 10:38:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210128C**	QC Batch: **84019**			PrepDate:		**1/28/2021**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	1/28/2021 05:51 PM
Barium	120	0.15	1.0		µg/L	1	1/29/2021 03:06 PM
Manganese	2.3	0.26	0.50		µg/L	1	1/28/2021 05:51 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	1/28/2021 05:51 PM
Selenium	1.5	0.36	0.50		µg/L	1	1/28/2021 05:51 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R63-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:00:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210128C**	QC Batch: **84019**			PrepDate:		**1/28/2021**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	1/28/2021 05:57 PM
Barium	120	0.15	1.0		µg/L	1	1/29/2021 03:12 PM
Manganese	1.9	0.26	0.50		µg/L	1	1/28/2021 05:57 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	1/28/2021 05:57 PM
Selenium	1.6	0.36	0.50		µg/L	1	1/28/2021 05:57 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-BNS-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 9:51:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-011		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210128C**	QC Batch: **84019**				PrepDate:	**1/28/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	1/28/2021 06:03 PM
Barium	120	0.15	1.0		µg/L	1	1/29/2021 03:18 PM
Manganese	1.2	0.26	0.50		µg/L	1	1/28/2021 06:03 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	1/28/2021 06:03 PM
Selenium	1.7	0.36	0.50		µg/L	1	1/28/2021 06:03 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-D-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:30:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210128C**	QC Batch: **84019**				PrepDate:	**1/28/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	1/28/2021 06:08 PM
Barium	120	0.15	1.0		µg/L	1	1/29/2021 03:23 PM
Manganese	ND	0.26	0.50		µg/L	1	1/28/2021 06:08 PM
Molybdenum	4.6	0.21	0.50		µg/L	1	1/28/2021 06:08 PM
Selenium	1.6	0.36	0.50		µg/L	1	1/28/2021 06:08 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *10-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-I-3-S-0121LL
Lab Order:	N043920	**Collection Date:**	1/27/2021 8:44:00 AM
Project:	PG&E Topock - RMP, RC000753.0801	**Matrix:**	GROUNDWATER
Lab ID:	N043920-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210128C**	QC Batch: **84019**				PrepDate:	**1/28/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	1/28/2021 06:14 PM
Barium	120	0.15	1.0		µg/L	1	1/29/2021 03:29 PM
Manganese	0.51	0.26	0.50		µg/L	1	1/28/2021 06:14 PM
Molybdenum	4.9	0.21	0.50		µg/L	1	1/28/2021 06:14 PM
Selenium	1.7	0.36	0.50		µg/L	1	1/28/2021 06:14 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **MB-84019** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/28/2021** RunNo: **150390**
Client ID: **PBW** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/28/2021** SeqNo: **4090460**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: **LCS-84019** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/28/2021** RunNo: **150390**
Client ID: **LCSW** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/28/2021** SeqNo: **4090461**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.367	0.10	10.00	0	104	85	115				
Manganese	104.627	0.50	100.0	0	105	85	115				
Molybdenum	10.073	0.50	10.00	0	101	85	115				
Selenium	10.128	0.50	10.00	0	101	85	115				

Sample ID: **N043920-001BMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/28/2021** RunNo: **150390**
Client ID: **ZZZZZZ** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/28/2021** SeqNo: **4090465**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.734	0.10	10.00	2.186	105	75	125				
Manganese	102.297	0.50	100.0	2.287	100	75	125				
Molybdenum	15.365	0.50	10.00	4.705	107	75	125				
Selenium	11.337	0.50	10.00	1.613	97.2	75	125				

Sample ID: **N043920-001BMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/28/2021** RunNo: **150390**
Client ID: **ZZZZZZ** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/28/2021** SeqNo: **4090466**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.778	0.10	10.00	2.186	106	75	125	12.73	0.349	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **N043920-001BMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/28/2021** RunNo: **150390**
Client ID: **ZZZZZZ** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/28/2021** SeqNo: **4090466**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	102.678	0.50	100.0	2.287	100	75	125	102.3	0.371	20	
Molybdenum	15.376	0.50	10.00	4.705	107	75	125	15.36	0.0750	20	
Selenium	11.272	0.50	10.00	1.613	96.6	75	125	11.34	0.574	20	

Sample ID: **MB-84019** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/28/2021** RunNo: **150472**
Client ID: **PBW** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/29/2021** SeqNo: **4096633**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	ND	1.0									

Sample ID: **LCS-84019** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/28/2021** RunNo: **150472**
Client ID: **LCSW** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/29/2021** SeqNo: **4096634**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	10.325	1.0	10.00	0	103	85	115				

Sample ID: **N043920-001BMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/28/2021** RunNo: **150472**
Client ID: **ZZZZZZ** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/29/2021** SeqNo: **4096638**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	121.117	1.0	10.00	111.8	93.4	75	125				

Sample ID: **N043920-001BMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/28/2021** RunNo: **150472**
Client ID: **ZZZZZZ** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/29/2021** SeqNo: **4096639**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	118.944	1.0	10.00	111.8	71.7	75	125	121.1	1.81	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043920
Project: PG&E Topock - RMP, RC000753.0801

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **N043920-001B-PS** SampType: **PS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: RunNo: **150390**
Client ID: **ZZZZZZ** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/28/2021** SeqNo: **4090464**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.821	0.10	10.00	2.186	106	80	120				
Manganese	103.559	0.50	100.0	2.287	101	80	120				
Molybdenum	15.511	0.50	10.00	4.705	108	80	120				
Selenium	11.328	0.50	10.00	1.613	97.1	80	120				

Sample ID: **N043920-001B-PS** SampType: **PS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: RunNo: **150472**
Client ID: **ZZZZZZ** Batch ID: **84019** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **1/29/2021** SeqNo: **4096637**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	120.957	1.0	10.00	111.8	91.8	80	120				

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis
Address: 1410 Rocky Ridge Dr # 330
Address: Roseville, CA 95661
Phone: 916-786-3302 Fax:
Submitted By: Reggie Tep
Title: Field Tech
Signature: Date: 01/27/21
I hereby authorize ASSET Labs to perform the tests indicated below.
Project Name: PG&E Topeka - RMP
Project Number: RC000753.0801

Report to: Dan Bush
Company: Arcadis
Email: dan.bush@arcadis.com
daniel.moore@critigen.com
Address: 1410 Rocky Ridge Dr # 330
Roseville, CA 95661
Phone: 916-786-3302 Fax:
Sampled By: Reggie Tep
I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally misleading the sample location, date or time of collection is considered fraud and may be grounds for legal action.
Signature: Date: 01/27/21

Bill to: Marty Bloes
Address:
Address:
Email to: mbloes@pivox.com P.O.#
Phone: 949-727-1400, ext 200 Fax:

EDD Requirement: Excel EDD; Geotracker; Labspec; Others Ü; Specify: RWQCB; Global ID:

QA/QC: RTNE; RWQCB Ü; CalTrans; LEVEL III; LEVEL IV; Regulatory; Specify State:

Sample Receipt Condition (Y / N):
1. Chilled ✓
2. Headspace ✓
3. Container Intact ✓
4. Seal Present ✓
5. IR number 2
6. Method of Cooling: ICE
Sample Temp: 2.4/2.8/2.1 °C
Courier: ASSET
Tracking No.:

Matrix: Ground x; Sediment; Potable; Soil; NPDES; Other Solid; Surface

Item No.	Laboratory Work Order No.	hanks	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Field QC Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 Cr	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 Ca, Mg, K, Na, B	Dissolved metals (SW6010B/SW6020Adis) FF; HNO3 As, Mn, Fe, Se, Mo, Ba	Total metals (SW6010B); HNO3 Fe	Anions (E300.0); Br, Cl, SO4	Specific Conductance (E120.1)	pH (SM4500HB)	TDS (SM2540C)	Alkalinity (Total, reported as CaCO3) (SM2320B)	TSS (SM2540)	Nitrate/Nitrite (SM4500N03) Nitrogen; H2SO4	Oxygen and deuterium stable isotopes (CFIRM)	TRUE	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
						3x250 mL poly	TRUE	3x500mL poly	3x500mL poly	3x500mL poly	500 mL poly	1 liter poly	1 liter poly	1 liter poly	1 liter poly	1 liter poly	1 liter poly	125 mL poly	1 250 mL poly	TRUE					
1																									
2	N043920-01	C-R22A-D-Q121LL		~~8:18~~	0918	X		X		X	X		X	X			X	X			E	7	P	BNS	MS/MSD
3	-02	C-R22A-S-Q121LL		9:30		X		X		X	X		X	X			X	X			E	7	P	BNS	
4	-03	C-R27-D-Q121LL		10:08		X		X		X	X		X	X			X	X			E	7	P	BNS	
5	-04	C-R27-S-Q121LL		10:21		X		X		X	X		X	X			X	X			E	7	P	BNS	
6	-05	C-TAZ-D-Q121LL		7:56		X		X		X	X		X	X			X	X			E	7	P	BNS	
7	-06	AmbientBlank-1-Q121LL		10:25			X														E	1	P	BNS	Hold
8	-07	C-TAZ-S-Q121LL		8:11		X		X		X	X		X	X			X	X			E	7	P	BNS	
9	-08	AmbientBlank-2-Q121LL		10:43			X														E	1	P	BNS	Hold
10	-09	R-28-Q121LL		10:38		X		X		X	X		X	X			X	X			E	7	P	BNS	
11	-10	R63-Q121LL		9:00		X		X		X	X		X	X			X	X			E	7	P	BNS	
12	-11	C-BNS-Q121LL		9:51		X		X		X	X		X	X			X	X			E	7	P	BNS	
13	-12	C-I-3-D-Q121LL		8:30		X		X		X	X		X	X			X	X			E	7	P	BNS	
14	-13	C-I-3-S-Q121LL		8:44		X		X		X	X		X	X			X	X			E	7	P	BNS	

Relinquished by (Signature and Printed Name): Date/Time:
RTP Reggie Tep 01/27/21 1415
Relinquished by (Signature and Printed Name): Date/Time:
1/27/21 1415
Relinquished by (Signature and Printed Name): Date/Time:
1/27/21 1647
Relinquished by (Signature and Printed Name): Date/Time:
Belkys Hernandez BHZ 1/27/21 1647
Relinquished by (Signature and Printed Name): Date/Time:
Relinquished by (Signature and Printed Name): Date/Time:

Turn Around Time (TAT)
- A = < 24 Hrs or Same Day TAT
- B = Next Workday
- C = 2 Workdays
- D = 3 Workdays
- [x] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price
4. Add 10% surcharge for Level III Data Packages. 15% for Level IV Data Packages. Surcharge applied on total project price
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary

Preservatives:
H=HCL; N=HNO_3; S=H_2SO_4; C=4°C
Z=$Zn(AC)_2$; O=NaOH; T=$Na_2S_2O_3$
Others/Specify: B (NH4)2SO4/NH4OH

Container Type:
T=Tube; V=VOA; P=Pint
J=Jar; B=Tedlar; G=Glass
M=Metal; M=Metal; C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
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California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis
Address: 1410 Rocky Ridge Dr # 330
Address: Roseville, CA 95661
Phone: 916-786-3302 Fax:
Submitted By: Reggie Tep
Title: Field Technician
Signature: Date: ## 01/27/21
I hereby authorize ASSET Labs to perform the tests indicated below.

Report to: Dan Bush
Company: Arcadis
Email: dan.bush@arcadis.com
daniel.moore@critigen.com
Address: 1410 Rocky Ridge Dr # 330
Roseville, CA 95661
Phone: 916-786-3302 Fax:
Sampled By: Reggie Tep
I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
Signature: Date: ## 01/27/21

Bill to: Marty Bloes
Address:
Address:
Email to: mbloes@pivox.com P.O.#
Phone: 949-727-1400, ext 200 Fax:

EDD Requirement		QA/QC		Sample Receipt Condition	Y	N
Excel EDD		RTNE		1. Chilled	✓	
Geotracker		RWQCB	Ü	2. Headspace		
Labspec		CalTrans		3. Container Intact	✓	
Others	Ü	LEVEL III		4. Seal Present		✓
Specify: RWQCB		LEVEL IV		5. IR number 2		
Global ID:		Regulatory		6. Method of Cooling: ICE		
		Specify State:		Sample Temp: 2.8/2.1°		

Courier: ASSET
Tracking No.:

Project Name: PG&E Topock - RMP
Project Number: RC000753.0801

Matrix: Ground x; Sediment; Potable; Soil; NPDES; Other Solid; Surface

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (3x250 mL poly)	Field QC Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 ml Poly)	Dissolved metals (SW6010B/SW6020A-dis) FF; HNO3 Cr (3x500mL poly)	Dissolved metals (SW6010B/SW6020A-dis) FF; HNO3 Ca, Mg, K, Na, B (3x500mL poly)	Dissolved metals (SW6010B/SW6020A-dis) FF; HNO3 As, Mn, Fe, Se, Mo, Ba (3x500mL poly)	Total metals (SW6010B); HNO3 Fe (500 mL poly)	Anions (E300.0); Br, Cl, SO4 (1 liter poly)	Specific Conductance (E120.1) (1 liter poly)	pH (SM4500HB) (1 liter poly)	TDS (SM2540C) (1 liter poly)	Alkalinity (Total, reported as CaCO3) (SM2320B) (1 liter poly)	TSS (SM2540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrogen; H2SO4 (125 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
	N043920-14	SW1-Q121LL		11:35		X		X					X	X					E	5	P	BNS	
	-15	SW2-Q121LL		11:55		X		X					X	X					E	5	P	BNS	

Reliquished by (Signature and Printed Name): Reggie Tep Date/Time: 01/27/21 1415
Reliquished by (Signature and Printed Name): Julie Date/Time: 1/27/21 1415
Reliquished by (Signature and Printed Name): Julie Date/Time: 1/27/21 1647
Reliquished by (Signature and Printed Name): Belkys Hernandez Date/Time: 1/27/21 1647
Reliquished by (Signature and Printed Name): Date/Time:
Reliquished by (Signature and Printed Name): Date/Time:

Turn Around Time (TAT)

- A < 24 Hrs or Same Day TAT
- B = Next Workday
- C = 2 Workdays
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- X E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

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Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
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Preservatives:

H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=$Zn(AC)_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B (NH4)2SO4/NH4OH		

Container Type:

T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

White=Laboratory Copy Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	1/27/2021	Workorder:	N043920
Rep sample Temp (Deg C):	2.4/2.8/2.1	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments: Samples for pH received past holding time. Collection date taken from sample label.
See Correspondence.

For:

Checklist Completed By: BHN YRJ 1/29/2021

Reviewed By: MBC 2/2/2021

Sonny Lorenzo

From: Tina Rice <Tina.Rice@critigen.com>
Sent: Friday, January 29, 2021 9:12 AM
To: Yoandra Rodriguez; Madsen, Laura
Cc: maryann.balilu@assetlaboratoriesph.com; sonny.lorenzo@assetlaboratories.com; rustico.aquino@assetlaboratoriesph.com
Subject: RE: PG&E Topock - RMP, RC000753.0801 (ASSET Labs No. N043920)

Those should end in 0121LL. Thanks for checking!

From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Friday, January 29, 2021 8:41 AM
To: Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: Tina Rice <Tina.Rice@critigen.com>; maryann.balilu@assetlaboratoriesph.com; sonny.lorenzo@assetlaboratories.com; rustico.aquino@assetlaboratoriesph.com
Subject: PG&E Topock - RMP, RC000753.0801 (ASSET Labs No. N043920)

Hi Laura,

Please kindly advise if the sample IDs should be 'Q121LL' per COC or '0121LL' per labels

--
Thanks,

Yoandra Rodriguez
Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 | F: 702.307.2691
California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436

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ASSET Laboratories

WORK ORDER Summary

02-Feb-21

WorkOrder: N043920

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 1/27/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043920-001A	C-R22A-D-0121LL	1/27/2021 9:18:00 AM	2/8/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☑	☐	WW
N043920-001B			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	WW
			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	WW
			2/8/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☑	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☑	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☑	☐	WW
N043920-001C			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☑	☐	WW
			2/8/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☑	☐	WW
N043920-001D			2/8/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☑	☐	WW
			2/8/2021		SM4500-H+B	pH	☐	☑	☐	WW
			2/8/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☑	☐	WW
			2/8/2021			Total Suspended Solids Prep	☐	☑	☐	WW
N043920-001E			2/8/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☑	☐	WW
N043920-002A	C-R22A-S-0121LL	1/27/2021 9:30:00 AM	2/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043920-002B			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043920-002C			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043920-002D			2/8/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

02-Feb-21

WorkOrder: N043920

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 1/27/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043920-002D	C-R22A-S-0121LL	1/27/2021 9:30:00 AM	2/8/2021	Groundwater	SM4500-H+B	pH	☐	☐	☐	WW
			2/8/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			2/8/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N043920-002E			2/8/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043920-003A	C-R27-D-0121LL	1/27/2021 10:08:00 AM	2/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043920-003B			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043920-003C			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043920-003D			2/8/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			2/8/2021		SM4500-H+B	pH	☐	☐	☐	WW
			2/8/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			2/8/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N043920-003E			2/8/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043920-004A	C-R27-S-0121LL	1/27/2021 10:21:00 AM	2/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043920-004B			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

02-Feb-21

WorkOrder: N043920

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 1/27/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043920-004B	C-R27-S-0121LL	1/27/2021 10:21:00 AM	2/8/2021	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043920-004C			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043920-004D			2/8/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			2/8/2021		SM4500-H+B	pH	☐	☐	☐	WW
			2/8/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			2/8/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N043920-004E			2/8/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043920-005A	C-TAZ-D-0121LL	1/27/2021 7:56:00 AM	2/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043920-005B			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043920-005C			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043920-005D			2/8/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			2/8/2021		SM4500-H+B	pH	☐	☐	☐	WW
			2/8/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			2/8/2021			Total Suspended Solids Prep	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

02-Feb-21

WorkOrder: N043920

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 1/27/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043920-005E	C-TAZ-D-0121LL	1/27/2021 7:56:00 AM	2/8/2021	Groundwater	SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043920-006A	AmbientBlank-1-0121LL	1/27/2021 10:25:00 AM					☐	☐	☐	WW
N043920-007A	C-TAZ-S-0121LL	1/27/2021 8:11:00 AM	2/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043920-007B			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043920-007C			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043920-007D			2/8/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			2/8/2021		SM4500-H+B	pH	☐	☐	☐	WW
			2/8/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			2/8/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N043920-007E			2/8/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043920-008A	AmbientBlank-2-0121LL	1/27/2021 10:43:00 AM					☐	☐	☐	WW
N043920-009A	R-28-0121LL	1/27/2021 10:38:00 AM	2/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043920-009B			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

02-Feb-21

WorkOrder: N043920

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 1/27/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043920-009B	R-28-0121LL	1/27/2021 10:38:00 AM	2/8/2021	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043920-009C			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043920-009D			2/8/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			2/8/2021		SM4500-H+B	pH	☐	☐	☐	WW
			2/8/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			2/8/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N043920-009E			2/8/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043920-010A	R63-0121LL	1/27/2021 9:00:00 AM	2/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043920-010B			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043920-010C			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043920-010D			2/8/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			2/8/2021		SM4500-H+B	pH	☐	☐	☐	WW
			2/8/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			2/8/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N043920-010E			2/8/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

02-Feb-21

WorkOrder: N043920

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 1/27/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043920-011A	C-BNS-0121LL	1/27/2021 9:51:00 AM	2/8/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043920-011B			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043920-011C			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043920-011D			2/8/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			2/8/2021		SM4500-H+B	pH	☐	☐	☐	WW
			2/8/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			2/8/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N043920-011E			2/8/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043920-012A	C-I-3-D-0121LL	1/27/2021 8:30:00 AM	2/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043920-012B			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043920-012C			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043920-012D			2/8/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

02-Feb-21

WorkOrder: N043920

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 1/27/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043920-012D	C-I-3-D-0121LL	1/27/2021 8:30:00 AM	2/8/2021	Groundwater	SM4500-H+B	pH	☐	☐	☐	WW
			2/8/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			2/8/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N043920-012E			2/8/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043920-013A	C-I-3-S-0121LL	1/27/2021 8:44:00 AM	2/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043920-013B			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043920-013C			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043920-013D			2/8/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			2/8/2021		SM4500-H+B	pH	☐	☐	☐	WW
			2/8/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	WW
			2/8/2021			Total Suspended Solids Prep	☐	☐	☐	WW
N043920-013E			2/8/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043920-014A	SW1-0121LL	1/27/2021 11:35:00 AM	2/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043920-014B			2/10/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/10/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043920-014C			2/8/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

02-Feb-21

WorkOrder: N043920

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.0801 **QC Level:** Level IV **Date Received:** 1/27/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043920-014C	SW1-0121LL	1/27/2021 11:35:00 AM	2/8/2021	Groundwater	SM4500-H+B	pH	☐	☐	☐	WW
N043920-015A	SW2-0121LL	1/27/2021 11:55:00 AM	2/8/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043920-015B			2/8/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/8/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043920-015C			2/8/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	WW
			2/8/2021		SM4500-H+B	pH	☐	☐	☐	WW
N043920-016A	FOLDER	2/10/2021	2/8/2021		EDD	Client specific project	☐	☐	☐	LAB
			2/8/2021		Folder	Level IV Report	☐	☐	☐	LAB
			2/8/2021		Folder	Folder	☐	☐	☐	LAB
			2/10/2021		Folder	Folder	☐	☐	☐	LAB

February 11, 2021

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N043939

RE: PG&E Topock - RMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on January 28, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

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

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time except for pH. pH testing is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Sample N043939-011(AmbientBlank-3-0121LL) was not analyzed as per COC.

Analytical Comments for EPA 6010B_Dissolved:

RPD for Matrix Spike (MS) and Matrix Spike Duplicate (MSD) is outside criteria. Analyte recovery on both met acceptance criteria.

Analytical Comments for EPA 6010B_Total:

RPD for Matrix Spike (MS) and Matrix Spike Duplicate (MSD) is outside criteria. Analyte recovery on both met acceptance criteria.

Analytical Comments for EPA 6020_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Barium in QC samples N043939-001B-MS and N043939-001B-MSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *11-Feb-21*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.801D
Lab Order: N043939
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N043939-001A	C-CON-D-0121LL	Groundwater	1/28/2021 9:19:00 AM	1/28/2021	2/11/2021
N043939-001B	C-CON-D-0121LL	Groundwater	1/28/2021 9:19:00 AM	1/28/2021	2/11/2021
N043939-001C	C-CON-D-0121LL	Groundwater	1/28/2021 9:19:00 AM	1/28/2021	2/11/2021
N043939-001D	C-CON-D-0121LL	Groundwater	1/28/2021 9:19:00 AM	1/28/2021	2/11/2021
N043939-001E	C-CON-D-0121LL	Groundwater	1/28/2021 9:19:00 AM	1/28/2021	2/11/2021
N043939-002A	C-CON-S-0121LL	Groundwater	1/28/2021 9:05:00 AM	1/28/2021	2/11/2021
N043939-002B	C-CON-S-0121LL	Groundwater	1/28/2021 9:05:00 AM	1/28/2021	2/11/2021
N043939-002C	C-CON-S-0121LL	Groundwater	1/28/2021 9:05:00 AM	1/28/2021	2/11/2021
N043939-002D	C-CON-S-0121LL	Groundwater	1/28/2021 9:05:00 AM	1/28/2021	2/11/2021
N043939-002E	C-CON-S-0121LL	Groundwater	1/28/2021 9:05:00 AM	1/28/2021	2/11/2021
N043939-003A	C-NR4-S-0121LL	Groundwater	1/28/2021 11:06:00 AM	1/28/2021	2/11/2021
N043939-003B	C-NR4-S-0121LL	Groundwater	1/28/2021 11:06:00 AM	1/28/2021	2/11/2021
N043939-003C	C-NR4-S-0121LL	Groundwater	1/28/2021 11:06:00 AM	1/28/2021	2/11/2021
N043939-003D	C-NR4-S-0121LL	Groundwater	1/28/2021 11:06:00 AM	1/28/2021	2/11/2021
N043939-003E	C-NR4-S-0121LL	Groundwater	1/28/2021 11:06:00 AM	1/28/2021	2/11/2021
N043939-004A	C-NR1-D-0121LL	Groundwater	1/28/2021 9:42:00 AM	1/28/2021	2/11/2021
N043939-004B	C-NR1-D-0121LL	Groundwater	1/28/2021 9:42:00 AM	1/28/2021	2/11/2021
N043939-004C	C-NR1-D-0121LL	Groundwater	1/28/2021 9:42:00 AM	1/28/2021	2/11/2021
N043939-004D	C-NR1-D-0121LL	Groundwater	1/28/2021 9:42:00 AM	1/28/2021	2/11/2021
N043939-004E	C-NR1-D-0121LL	Groundwater	1/28/2021 9:42:00 AM	1/28/2021	2/11/2021
N043939-005A	C-NR1-S-0121LL	Groundwater	1/28/2021 9:54:00 AM	1/28/2021	2/11/2021
N043939-005B	C-NR1-S-0121LL	Groundwater	1/28/2021 9:54:00 AM	1/28/2021	2/11/2021
N043939-005C	C-NR1-S-0121LL	Groundwater	1/28/2021 9:54:00 AM	1/28/2021	2/11/2021
N043939-005D	C-NR1-S-0121LL	Groundwater	1/28/2021 9:54:00 AM	1/28/2021	2/11/2021
N043939-005E	C-NR1-S-0121LL	Groundwater	1/28/2021 9:54:00 AM	1/28/2021	2/11/2021
N043939-006A	C-NR3-D-0121LL	Groundwater	1/28/2021 10:12:00 AM	1/28/2021	2/11/2021
N043939-006B	C-NR3-D-0121LL	Groundwater	1/28/2021 10:12:00 AM	1/28/2021	2/11/2021
N043939-006C	C-NR3-D-0121LL	Groundwater	1/28/2021 10:12:00 AM	1/28/2021	2/11/2021
N043939-006D	C-NR3-D-0121LL	Groundwater	1/28/2021 10:12:00 AM	1/28/2021	2/11/2021

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.801D
Lab Order: N043939
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N043939-006E	C-NR3-D-0121LL	Groundwater	1/28/2021 10:12:00 AM	1/28/2021	2/11/2021
N043939-007A	C-MAR-D-0121LL	Groundwater	1/28/2021 7:48:00 AM	1/28/2021	2/11/2021
N043939-007B	C-MAR-D-0121LL	Groundwater	1/28/2021 7:48:00 AM	1/28/2021	2/11/2021
N043939-007C	C-MAR-D-0121LL	Groundwater	1/28/2021 7:48:00 AM	1/28/2021	2/11/2021
N043939-007D	C-MAR-D-0121LL	Groundwater	1/28/2021 7:48:00 AM	1/28/2021	2/11/2021
N043939-007E	C-MAR-D-0121LL	Groundwater	1/28/2021 7:48:00 AM	1/28/2021	2/11/2021
N043939-008A	C-MAR-S-0121LL	Groundwater	1/28/2021 7:58:00 AM	1/28/2021	2/11/2021
N043939-008B	C-MAR-S-0121LL	Groundwater	1/28/2021 7:58:00 AM	1/28/2021	2/11/2021
N043939-008C	C-MAR-S-0121LL	Groundwater	1/28/2021 7:58:00 AM	1/28/2021	2/11/2021
N043939-008D	C-MAR-S-0121LL	Groundwater	1/28/2021 7:58:00 AM	1/28/2021	2/11/2021
N043939-008E	C-MAR-S-0121LL	Groundwater	1/28/2021 7:58:00 AM	1/28/2021	2/11/2021
N043939-009A	C-NR3-S-0121LL	Groundwater	1/28/2021 10:26:00 AM	1/28/2021	2/11/2021
N043939-009B	C-NR3-S-0121LL	Groundwater	1/28/2021 10:26:00 AM	1/28/2021	2/11/2021
N043939-009C	C-NR3-S-0121LL	Groundwater	1/28/2021 10:26:00 AM	1/28/2021	2/11/2021
N043939-009D	C-NR3-S-0121LL	Groundwater	1/28/2021 10:26:00 AM	1/28/2021	2/11/2021
N043939-009E	C-NR3-S-0121LL	Groundwater	1/28/2021 10:26:00 AM	1/28/2021	2/11/2021
N043939-010A	R-19-0121LL	Groundwater	1/28/2021 8:16:00 AM	1/28/2021	2/11/2021
N043939-010B	R-19-0121LL	Groundwater	1/28/2021 8:16:00 AM	1/28/2021	2/11/2021
N043939-010C	R-19-0121LL	Groundwater	1/28/2021 8:16:00 AM	1/28/2021	2/11/2021
N043939-010D	R-19-0121LL	Groundwater	1/28/2021 8:16:00 AM	1/28/2021	2/11/2021
N043939-010E	R-19-0121LL	Groundwater	1/28/2021 8:16:00 AM	1/28/2021	2/11/2021
N043939-011A	AmbientBlank-3-0121LL	Groundwater	1/28/2021 11:10:00 AM	1/28/2021	2/11/2021
N043939-012A	RRB-0121LL	Groundwater	1/28/2021 8:43:00 AM	1/28/2021	2/11/2021
N043939-012B	RRB-0121LL	Groundwater	1/28/2021 8:43:00 AM	1/28/2021	2/11/2021
N043939-012C	RRB-0121LL	Groundwater	1/28/2021 8:43:00 AM	1/28/2021	2/11/2021
N043939-012D	RRB-0121LL	Groundwater	1/28/2021 8:43:00 AM	1/28/2021	2/11/2021
N043939-012E	RRB-0121LL	Groundwater	1/28/2021 8:43:00 AM	1/28/2021	2/11/2021
N043939-013A	MW-904-0121LL	Groundwater	1/28/2021 8:26:00 AM	1/28/2021	2/11/2021
N043939-013B	MW-904-0121LL	Groundwater	1/28/2021 8:26:00 AM	1/28/2021	2/11/2021
N043939-013C	MW-904-0121LL	Groundwater	1/28/2021 8:26:00 AM	1/28/2021	2/11/2021

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - RMP, RC000753.801D
Lab Order: N043939
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N043939-013D	MW-904-0121LL	Groundwater	1/28/2021 8:26:00 AM	1/28/2021	2/11/2021
N043939-013E	MW-904-0121LL	Groundwater	1/28/2021 8:26:00 AM	1/28/2021	2/11/2021
N043939-014A	MW-905-Q121LL	Groundwater	1/28/2021 10:36:00 AM	1/28/2021	2/11/2021
N043939-014B	MW-905-Q121LL	Groundwater	1/28/2021 10:36:00 AM	1/28/2021	2/11/2021
N043939-014C	MW-905-Q121LL	Groundwater	1/28/2021 10:36:00 AM	1/28/2021	2/11/2021
N043939-014D	MW-905-Q121LL	Groundwater	1/28/2021 10:36:00 AM	1/28/2021	2/11/2021
N043939-014E	MW-905-Q121LL	Groundwater	1/28/2021 10:36:00 AM	1/28/2021	2/11/2021
N043939-015A	MW-906-Q121LL	Groundwater	1/28/2021 11:00:00 AM	1/28/2021	2/11/2021
N043939-015B	MW-906-Q121LL	Groundwater	1/28/2021 11:00:00 AM	1/28/2021	2/11/2021
N043939-015C	MW-906-Q121LL	Groundwater	1/28/2021 11:00:00 AM	1/28/2021	2/11/2021
N043939-015D	MW-906-Q121LL	Groundwater	1/28/2021 11:00:00 AM	1/28/2021	2/11/2021
N043939-015E	MW-906-Q121LL	Groundwater	1/28/2021 11:00:00 AM	1/28/2021	2/11/2021
N043939-016A	C-NR4-D-0121LL	Groundwater	1/28/2021 10:50:00 AM	1/28/2021	2/11/2021
N043939-016B	C-NR4-D-0121LL	Groundwater	1/28/2021 10:50:00 AM	1/28/2021	2/11/2021
N043939-016C	C-NR4-D-0121LL	Groundwater	1/28/2021 10:50:00 AM	1/28/2021	2/11/2021
N043939-016D	C-NR4-D-0121LL	Groundwater	1/28/2021 10:50:00 AM	1/28/2021	2/11/2021
N043939-016E	C-NR4-D-0121LL	Groundwater	1/28/2021 10:50:00 AM	1/28/2021	2/11/2021

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:19:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210129C**	QC Batch: **R150397**			PrepDate:			Analyst: **LR**
Specific Conductance	830	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210129C**	QC Batch: **R150397**			PrepDate:			Analyst: **LR**
Specific Conductance	830	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 11:06:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210129C**	QC Batch: **R150397**			PrepDate:			Analyst: **LR**
Specific Conductance	840	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:42:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210129C**	QC Batch: **R150397**			PrepDate:			Analyst: **LR**
Specific Conductance	830	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:54:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210129C**	QC Batch: **R150397**			PrepDate:			Analyst: **LR**
Specific Conductance	840	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:12:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210129C**	QC Batch: **R150397**			PrepDate:			Analyst: **LR**
Specific Conductance	860	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 7:48:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
EPA 120.1							
RunID: **NV00922-WC_210129C** QC Batch: **R150397** PrepDate: Analyst: **LR**							
Specific Conductance	960	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 7:58:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
EPA 120.1							
RunID: **NV00922-WC_210129C**	QC Batch: **R150397**			PrepDate:			Analyst: **LR**
Specific Conductance	1000	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:26:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210129C**	QC Batch: **R150397**			PrepDate:			Analyst: **LR**
Specific Conductance	860	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:16:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210129C**	QC Batch: **R150397**			PrepDate:			Analyst: **LR**
Specific Conductance	880	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:43:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210129C**	QC Batch: **R150397**			PrepDate:			Analyst: **LR**
Specific Conductance	1200	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-904-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:26:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210129C**	QC Batch: **R150397**			PrepDate:			Analyst: **LR**
Specific Conductance	880	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-905-Q121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:36:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210129C**	QC Batch: **R150397**			PrepDate:			Analyst: **LR**
Specific Conductance	870	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-906-Q121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 11:00:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210129C**	QC Batch: **R150397**			PrepDate:			Analyst: **LR**
Specific Conductance	870	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-016		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210129C**	QC Batch: **R150397**			PrepDate:			Analyst: **LR**
Specific Conductance	880	0.10	0.10		umhos/cm	1	1/29/2021 11:45 AM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID **N043939-005DDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150397**
Client ID: **ZZZZZZ** Batch ID: **R150397** TestNo: **EPA 120.1** Analysis Date: **1/29/2021** SeqNo: **4091007**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	847.000	0.10						843.0	0.473	2	

Sample ID **N043939-016DDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150397**
Client ID: **ZZZZZZ** Batch ID: **R150397** TestNo: **EPA 120.1** Analysis Date: **1/29/2021** SeqNo: **4091018**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	886.000	0.10						882.0	0.452	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:19:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	8.3	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	8.4	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 11:06:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	8.4	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:42:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	8.4	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:54:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	8.4	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:12:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	8.3	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 7:48:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	8.2	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 7:58:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	8.1	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:26:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	8.3	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:16:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	7.7	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:43:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	7.8	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-904-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:26:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	8.2	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-905-Q121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:36:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	8.3	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-906-Q121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 11:00:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	8.3	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-016		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210129B**	QC Batch: **R150396**			PrepDate:			Analyst: **LR**
pH	8.3	0.10	0.10	H	pH Units	1	1/29/2021 11:30 AM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	1/29/2021 11:30 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID **N043939-005DDUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **150396**
Client ID: **ZZZZZZ** Batch ID: **R150396** TestNo: **SM4500-H+B** Analysis Date: **1/29/2021** SeqNo: **4090988**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.360	0.10						8.360	0	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Sample ID **N043939-016DDUP** SampType: **DUP** TestCode: **150.1_4500H** Units: **pH Units** Prep Date: RunNo: **150396**
Client ID: **ZZZZZZ** Batch ID: **R150396** TestNo: **SM4500-H+B** Analysis Date: **1/29/2021** SeqNo: **4090999**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.320	0.10						8.310	0.120	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:19:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210201B** QC Batch: **85077** PrepDate: **2/1/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/1/2021 03:45 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210201B** QC Batch: **85077** PrepDate: **2/1/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/1/2021 03:45 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 11:06:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210201B**	QC Batch: **85077**				PrepDate:	**2/1/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/1/2021 03:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:42:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210201B**	QC Batch: **85077**				PrepDate:	**2/1/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/1/2021 03:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:54:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210201B**	QC Batch: **85077**				PrepDate:	**2/1/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/1/2021 03:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:12:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210201B** QC Batch: **85077** PrepDate: **2/1/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/1/2021 03:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 7:48:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210201B**	QC Batch: **85077**				PrepDate:	**2/1/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	10	5.0	5.0		mg/L	1	2/1/2021 03:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 7:58:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210201B** QC Batch: **85077** PrepDate: **2/1/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	18	5.0	5.0		mg/L	1	2/1/2021 03:45 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:26:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210201B** QC Batch: **85077** PrepDate: **2/1/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/1/2021 03:45 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:16:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210201B** QC Batch: **85077** PrepDate: **2/1/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/1/2021 03:45 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:43:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210202A**	QC Batch: **85091**				PrepDate:	**2/2/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	2400	10	10		mg/L	1	2/2/2021 12:00 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-904-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:26:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210202A** QC Batch: **85091** PrepDate: **2/2/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/2/2021 12:00 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-905-Q121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:36:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210202A**	QC Batch: **85091**				PrepDate:	**2/2/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/2/2021 12:00 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-906-Q121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 11:00:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
SM2540D							
RunID: **NV00922-WC_210202A** QC Batch: **85091** PrepDate: **2/2/2021** Analyst: **LR**							
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/2/2021 12:00 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-016		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL NON-FILTERABLE RESIDUE							
			SM2540D				
RunID: **NV00922-WC_210202A**	QC Batch: **85091**				PrepDate:	**2/2/2021**	Analyst: **LR**
Suspended Solids (Residue, Non-Filterable)	ND	5.0	5.0		mg/L	1	2/2/2021 12:00 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID	LCS-85077	SampType:	LCS	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	2/1/2021	RunNo:	150457
Client ID:	LCSW	Batch ID:	85077	TestNo:	SM2540D			Analysis Date:	2/1/2021	SeqNo:	4095672

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	957.000	10	1000	0	95.7	80	120				

Sample ID	MB-85077	SampType:	MBLK	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	2/1/2021	RunNo:	150457
Client ID:	PBW	Batch ID:	85077	TestNo:	SM2540D			Analysis Date:	2/1/2021	SeqNo:	4095673

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Sample ID	N043939-001DDUP	SampType:	DUP	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	2/1/2021	RunNo:	150457
Client ID:	ZZZZZZ	Batch ID:	85077	TestNo:	SM2540D			Analysis Date:	2/1/2021	SeqNo:	4095675

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	5.0						0	0	5	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2_2540D_W

Sample ID	LCS-85091	SampType:	LCS	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	2/2/2021	RunNo:	150469
Client ID:	LCSW	Batch ID:	85091	TestNo:	SM2540D			Analysis Date:	2/2/2021	SeqNo:	4095960

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	960.000	10	1000	0	96.0	80	120				

Sample ID	MB-85091	SampType:	MBLK	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	2/2/2021	RunNo:	150469
Client ID:	PBW	Batch ID:	85091	TestNo:	SM2540D			Analysis Date:	2/2/2021	SeqNo:	4095961

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	ND	10									

Sample ID	N043939-012DDUP	SampType:	DUP	TestCode:	160.2_2540D	Units:	mg/L	Prep Date:	2/2/2021	RunNo:	150469
Client ID:	ZZZZZZ	Batch ID:	85091	TestNo:	SM2540D			Analysis Date:	2/2/2021	SeqNo:	4095963

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Filter	2528.000	10						2412	4.70	5	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:19:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 09:51 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 04:54 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 10:10 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 05:23 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 11:06:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 10:29 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 05:29 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:42:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 10:48 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 05:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:54:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 11:26 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 05:52 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:12:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 11:45 AM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 05:58 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 7:48:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 12:04 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 06:04 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 7:58:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 12:23 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 06:09 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:26:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 12:42 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 06:15 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:16:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 03:32 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 06:21 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:43:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 01:39 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 06:27 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-904-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:26:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 01:57 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 06:33 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-905-Q121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:36:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 02:16 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 06:39 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-906-Q121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 11:00:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 02:35 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 06:44 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-016		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210129A** QC Batch: **R150431** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	1/29/2021 03:13 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP8_210201C** QC Batch: **84039** PrepDate: **1/29/2021** Analyst: **CEI**							
Chromium	ND	0.13	1.0		µg/L	1	2/1/2021 07:02 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **MB-R150431** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **PBW** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094582**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID **LCS-R150431** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **LCSW** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094583**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.939	0.20	5.000	0	98.8	90	110				

Sample ID **N043939-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094585**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.009	0.20	1.000	0	101	90	110				

Sample ID **N043939-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094587**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.006	0.20	1.000	0	101	90	110				

Sample ID **N043939-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094589**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.009	0.20	1.000	0	101	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N043939-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094591**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.013	0.20	1.000	0	101	90	110				

Sample ID **N043939-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094595**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.054	0.20	1.000	0.03550	102	90	110				

Sample ID **N043939-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094597**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.015	0.20	1.000	0	102	90	110				

Sample ID **N043939-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.021	0.20	1.000	0	102	90	110				

Sample ID **N043939-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094601**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.019	0.20	1.000	0	102	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N043939-009AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.016	0.20	1.000	0	102	90	110				

Sample ID **N043939-009ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094606**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20						0	0	20	

Sample ID **N043939-004AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094607**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.988	0.20	1.000	0	98.8	90	110	1.013	2.46	20	

Sample ID **N043939-012AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094609**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.038	0.20	1.000	0.07520	96.3	90	110				

Sample ID **N043939-013AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.029	0.20	1.000	0.03740	99.1	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID **N043939-014AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094613**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.034	0.20	1.000	0	103	90	110				

Sample ID **N043939-015AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094615**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.035	0.20	1.000	0	104	90	110				

Sample ID **N043939-016AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094619**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.003	0.20	1.000	0	100	90	110				

Sample ID **N043939-010AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150431**
Client ID: **ZZZZZZ** Batch ID: **R150431** TestNo: **EPA 218.6** Analysis Date: **1/29/2021** SeqNo: **4094621**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.017	0.20	1.000	0	102	90	110				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID **MB-84039** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **1/29/2021** RunNo: **150514**
Client ID: **PBW** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/1/2021** SeqNo: **4097580**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID **LCS-84039** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **1/29/2021** RunNo: **150514**
Client ID: **LCSW** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/1/2021** SeqNo: **4097581**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.022	1.0	10.00	0	100	85	115				

Sample ID **N043939-001B-MS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **1/29/2021** RunNo: **150514**
Client ID: **ZZZZZZ** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/1/2021** SeqNo: **4097585**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.546	1.0	10.00	0	95.5	75	125				

Sample ID **N043939-001B-MSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **1/29/2021** RunNo: **150514**
Client ID: **ZZZZZZ** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/1/2021** SeqNo: **4097586**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.397	1.0	10.00	0	94.0	75	125	9.546	1.57	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:19:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210205D** QC Batch: **R150583** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.44	0.032	0.050		mg/L	1	2/5/2021 03:02 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210205D** QC Batch: **R150583** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.38	0.032	0.050		mg/L	1	2/5/2021 03:07 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 11:06:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210205D** QC Batch: **R150583** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.37	0.032	0.050		mg/L	1	2/5/2021 03:12 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:42:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210205D** QC Batch: **R150583** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.40	0.032	0.050		mg/L	1	2/5/2021 02:43 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:54:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210205D** QC Batch: **R150583** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.35	0.032	0.050		mg/L	1	2/5/2021 04:31 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:12:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210205D** QC Batch: **R150583** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.40	0.032	0.050		mg/L	1	2/5/2021 04:36 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 7:48:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210205D** QC Batch: **R150583** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.42	0.032	0.050		mg/L	1	2/5/2021 04:41 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 7:58:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210205D** QC Batch: **R150583** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.41	0.032	0.050		mg/L	1	2/5/2021 04:46 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:26:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-WC_210205D** QC Batch: **R150583** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.40	0.032	0.050		mg/L	1	2/5/2021 04:51 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:16:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210208A** QC Batch: **R150610** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.40	0.032	0.050		mg/L	1	2/8/2021 12:34 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:43:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210208A** QC Batch: **R150610** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.076	0.032	0.050		mg/L	1	2/8/2021 12:53 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-904-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:26:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210208A** QC Batch: **R150610** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.39	0.032	0.050		mg/L	1	2/8/2021 12:58 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-905-Q121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:36:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210208A** QC Batch: **R150610** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.40	0.032	0.050		mg/L	1	2/8/2021 01:03 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-906-Q121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 11:00:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210208A** QC Batch: **R150610** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.39	0.032	0.050		mg/L	1	2/8/2021 02:22 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-016		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210208A** QC Batch: **R150610** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.39	0.032	0.050		mg/L	1	2/8/2021 02:27 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID **MB-R150583** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150583**
Client ID: **PBW** Batch ID: **R150583** TestNo: **SM4500-NO3** Analysis Date: **2/5/2021** SeqNo: **4100745**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID **LCS-R150583** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150583**
Client ID: **LCSW** Batch ID: **R150583** TestNo: **SM4500-NO3** Analysis Date: **2/5/2021** SeqNo: **4100746**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.502	0.050	0.5000	0	100	85	115				

Sample ID **N043939-004EDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150583**
Client ID: **ZZZZZZ** Batch ID: **R150583** TestNo: **SM4500-NO3** Analysis Date: **2/5/2021** SeqNo: **4100748**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.387	0.050						0.3962	2.27	20	

Sample ID **N043939-004EMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150583**
Client ID: **ZZZZZZ** Batch ID: **R150583** TestNo: **SM4500-NO3** Analysis Date: **2/5/2021** SeqNo: **4100749**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.885	0.050	0.5000	0.3962	97.7	75	125				

Sample ID **N043939-004EMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150583**
Client ID: **ZZZZZZ** Batch ID: **R150583** TestNo: **SM4500-NO3** Analysis Date: **2/5/2021** SeqNo: **4100750**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.897	0.050	0.5000	0.3962	100	75	125	0.8845	1.45	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID **MB-R150610** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150610**
Client ID: **PBW** Batch ID: **R150610** TestNo: **SM4500-NO3** Analysis Date: **2/8/2021** SeqNo: **4103363**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID **LCS-R150610** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150610**
Client ID: **LCSW** Batch ID: **R150610** TestNo: **SM4500-NO3** Analysis Date: **2/8/2021** SeqNo: **4103364**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.504	0.050	0.5000	0	101	85	115				

Sample ID **N043939-010EDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150610**
Client ID: **ZZZZZZ** Batch ID: **R150610** TestNo: **SM4500-NO3** Analysis Date: **2/8/2021** SeqNo: **4103366**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.386	0.050						0.3964	2.66	20	

Sample ID **N043939-010EMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150610**
Client ID: **ZZZZZZ** Batch ID: **R150610** TestNo: **SM4500-NO3** Analysis Date: **2/8/2021** SeqNo: **4103367**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.931	0.050	0.5000	0.3964	107	75	125				

Sample ID **N043939-010EMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150610**
Client ID: **ZZZZZZ** Batch ID: **R150610** TestNo: **SM4500-NO3** Analysis Date: **2/8/2021** SeqNo: **4103368**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.907	0.050	0.5000	0.3964	102	75	125	0.9312	2.67	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:19:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84041**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	24	18	20		ug/L	1	2/2/2021 01:10 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84040**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	35	18	20		ug/L	1	2/2/2021 03:22 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84041**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/2/2021 01:36 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84040**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	29	18	20		ug/L	1	2/2/2021 03:47 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 11:06:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84041**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	32	18	20		ug/L	1	2/2/2021 01:40 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84040**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	32	18	20		ug/L	1	2/2/2021 03:51 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:42:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84041**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/2/2021 01:44 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84040**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	20	18	20		ug/L	1	2/2/2021 04:05 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:54:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84041**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/2/2021 01:58 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84040**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	23	18	20		ug/L	1	2/2/2021 04:09 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:12:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84041**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/2/2021 02:03 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84040**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	40	18	20		ug/L	1	2/2/2021 04:13 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 7:48:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84041**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	28	18	20		ug/L	1	2/2/2021 02:07 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84040**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	380	18	20		ug/L	1	2/2/2021 04:18 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 7:58:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84041**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	28	18	20		ug/L	1	2/2/2021 02:11 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84040**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	560	18	20		ug/L	1	2/2/2021 04:22 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:26:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210204A**	QC Batch: **84041**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	25	18	20		ug/L	1	2/4/2021 12:14 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210204A**	QC Batch: **84040**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	84	18	20		ug/L	1	2/4/2021 12:05 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:16:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210204A**	QC Batch: **84041**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	23	18	20		ug/L	1	2/4/2021 12:18 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210204A**	QC Batch: **84040**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	76	18	20		ug/L	1	2/4/2021 12:09 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:43:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_210202A**	QC Batch: **84041**				PrepDate:	**1/29/2021**	Analyst: **DJ**
Iron	41	18	20		ug/L	1	2/2/2021 02:24 PM
TOTAL METALS BY ICP							
	EPA 3010A			**EPA 6010B**			
RunID: **NV00922-ICP2_210202A**	QC Batch: **84040**				PrepDate:	**1/29/2021**	Analyst: **DJ**
Iron	35000	18	20		ug/L	1	2/2/2021 04:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-904-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:26:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84041**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	29	18	20		ug/L	1	2/2/2021 02:28 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84040**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	43	18	20		ug/L	1	2/2/2021 04:40 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-905-Q121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:36:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84041**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/2/2021 02:32 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84040**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	26	18	20		ug/L	1	2/2/2021 04:44 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-906-Q121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 11:00:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84041**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/2/2021 02:36 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84040**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/2/2021 04:58 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-016		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84041**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	ND	18	20		ug/L	1	2/2/2021 05:07 PM
TOTAL METALS BY ICP							
EPA 3010A			**EPA 6010B**				
RunID: **NV00922-ICP2_210202A**	QC Batch: **84040**			PrepDate:		**1/29/2021**	Analyst: **DJ**
Iron	58	18	20		ug/L	1	2/2/2021 05:03 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WDPGEPPB

Sample ID **MB-84041** SampType: **MBLK** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **1/29/2021** RunNo: **150474**
Client ID: **PBW** Batch ID: **84041** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/2/2021** SeqNo: **4096138**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	20									

Sample ID **LCS-84041** SampType: **LCS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **1/29/2021** RunNo: **150474**
Client ID: **LCSW** Batch ID: **84041** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/2/2021** SeqNo: **4096139**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	101.792	20	100.0	0	102	85	115				

Sample ID **N043939-001B-MS** SampType: **MS** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **1/29/2021** RunNo: **150474**
Client ID: **ZZZZZZ** Batch ID: **84041** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/2/2021** SeqNo: **4096143**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	143.783	20	100.0	24.15	120	75	125				

Sample ID **N043939-001B-MSD** SampType: **MSD** TestCode: **6010_WDPG** Units: **ug/L** Prep Date: **1/29/2021** RunNo: **150474**
Client ID: **ZZZZZZ** Batch ID: **84041** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **2/2/2021** SeqNo: **4096144**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	114.865	20	100.0	24.15	90.7	75	125	143.8	22.4	20	R

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPGEPPB

Sample ID	MB-84040	SampType:	MBLK	TestCode:	6010_WPGE	Units:	ug/L	Prep Date:	1/29/2021	RunNo:	150474
Client ID:	PBW	Batch ID:	84040	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	2/2/2021	SeqNo:	4096280

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	20									

Sample ID	LCS-84040	SampType:	LCS	TestCode:	6010_WPGE	Units:	ug/L	Prep Date:	1/29/2021	RunNo:	150474
Client ID:	LCSW	Batch ID:	84040	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	2/2/2021	SeqNo:	4096281

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	90.711	20	100.0	0	90.7	85	115				

Sample ID	N043939-001C-MS	SampType:	MS	TestCode:	6010_WPGE	Units:	ug/L	Prep Date:	1/29/2021	RunNo:	150474
Client ID:	ZZZZZZ	Batch ID:	84040	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	2/2/2021	SeqNo:	4096285

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	110.792	20	100.0	35.40	75.4	75	125				

Sample ID	N043939-001C-MSD	SampType:	MSD	TestCode:	6010_WPGE	Units:	ug/L	Prep Date:	1/29/2021	RunNo:	150474
Client ID:	ZZZZZZ	Batch ID:	84040	TestNo:	EPA 6010B	EPA 3010A		Analysis Date:	2/2/2021	SeqNo:	4096286

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	145.738	20	100.0	35.40	110	75	125	110.8	27.2	20	R

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:19:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**				PrepDate:	**1/29/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/1/2021 04:54 PM
Barium	120	0.15	1.0		µg/L	1	2/5/2021 07:59 AM
Manganese	0.69	0.26	0.50		µg/L	1	2/1/2021 04:54 PM
Molybdenum	4.6	0.21	0.50		µg/L	1	2/1/2021 04:54 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/1/2021 04:54 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-CON-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:05:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**				PrepDate:	**1/29/2021**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	2/1/2021 05:23 PM
Barium	120	0.15	1.0		µg/L	1	2/5/2021 08:27 AM
Manganese	0.74	0.26	0.50		µg/L	1	2/1/2021 05:23 PM
Molybdenum	4.6	0.21	0.50		µg/L	1	2/1/2021 05:23 PM
Selenium	1.5	0.36	0.50		µg/L	1	2/1/2021 05:23 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 11:06:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**				PrepDate:	**1/29/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/1/2021 05:29 PM
Barium	120	0.15	1.0		µg/L	1	2/5/2021 08:33 AM
Manganese	0.73	0.26	0.50		µg/L	1	2/1/2021 05:29 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	2/1/2021 05:29 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/1/2021 05:29 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:42:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**				PrepDate:	**1/29/2021**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	2/1/2021 05:35 PM
Barium	120	0.15	1.0		µg/L	1	2/5/2021 09:17 AM
Manganese	0.64	0.26	0.50		µg/L	1	2/1/2021 05:35 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	2/1/2021 05:35 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/1/2021 05:35 PM

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR1-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 9:54:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**				PrepDate:	**1/29/2021**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	2/1/2021 05:52 PM
Barium	120	0.15	1.0		µg/L	1	2/5/2021 09:23 AM
Manganese	0.62	0.26	0.50		µg/L	1	2/1/2021 05:52 PM
Molybdenum	4.6	0.21	0.50		µg/L	1	2/1/2021 05:52 PM
Selenium	1.7	0.36	0.50		µg/L	1	2/1/2021 05:52 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:12:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-006		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**				PrepDate:	**1/29/2021**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	2/1/2021 05:58 PM
Barium	120	0.15	1.0		µg/L	1	2/5/2021 09:28 AM
Manganese	0.70	0.26	0.50		µg/L	1	2/1/2021 05:58 PM
Molybdenum	4.5	0.21	0.50		µg/L	1	2/1/2021 05:58 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/1/2021 05:58 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 7:48:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-007		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**				PrepDate:	**1/29/2021**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	2/1/2021 06:04 PM
Barium	130	0.15	1.0		µg/L	1	2/5/2021 09:34 AM
Manganese	21	0.26	0.50		µg/L	1	2/1/2021 06:04 PM
Molybdenum	4.8	0.21	0.50		µg/L	1	2/1/2021 06:04 PM
Selenium	1.4	0.36	0.50		µg/L	1	2/1/2021 06:04 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-MAR-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 7:58:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-008		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**				PrepDate:	**1/29/2021**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	2/1/2021 06:09 PM
Barium	130	0.15	1.0		µg/L	1	2/5/2021 09:40 AM
Manganese	24	0.26	0.50		µg/L	1	2/1/2021 06:09 PM
Molybdenum	5.1	0.21	0.50		µg/L	1	2/1/2021 06:09 PM
Selenium	1.5	0.36	0.50		µg/L	1	2/1/2021 06:09 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR3-S-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:26:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-009		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**				PrepDate:	**1/29/2021**	Analyst: **CEI**
Arsenic	2.4	0.081	0.10		µg/L	1	2/1/2021 06:15 PM
Barium	120	0.15	1.0		µg/L	1	2/5/2021 09:46 AM
Manganese	0.84	0.26	0.50		µg/L	1	2/1/2021 06:15 PM
Molybdenum	4.6	0.21	0.50		µg/L	1	2/1/2021 06:15 PM
Selenium	1.5	0.36	0.50		µg/L	1	2/1/2021 06:15 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	R-19-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:16:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-010		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**				PrepDate:	**1/29/2021**	Analyst: **CEI**
Arsenic	2.2	0.081	0.10		µg/L	1	2/1/2021 06:21 PM
Barium	120	0.15	1.0		µg/L	1	2/5/2021 09:51 AM
Manganese	1.8	0.26	0.50		µg/L	1	2/1/2021 06:21 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	2/1/2021 06:21 PM
Selenium	1.7	0.36	0.50		µg/L	1	2/1/2021 06:21 PM

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

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ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	RRB-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:43:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-012		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
	EPA 3010A		**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**				PrepDate:	**1/29/2021**	Analyst: **CEI**
Arsenic	0.63	0.081	0.10		µg/L	1	2/1/2021 06:27 PM
Barium	98	0.15	1.0		µg/L	1	2/5/2021 09:57 AM
Manganese	10	0.26	0.50		µg/L	1	2/1/2021 06:27 PM
Molybdenum	4.4	0.21	0.50		µg/L	1	2/1/2021 06:27 PM
Selenium	0.61	0.36	0.50		µg/L	1	2/1/2021 06:27 PM

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-904-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 8:26:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-013		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**				PrepDate:	**1/29/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/1/2021 06:33 PM
Barium	120	0.15	1.0		µg/L	1	2/5/2021 10:03 AM
Manganese	1.6	0.26	0.50		µg/L	1	2/1/2021 06:33 PM
Molybdenum	4.5	0.21	0.50		µg/L	1	2/1/2021 06:33 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/1/2021 06:33 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-905-Q121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:36:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-014		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**				PrepDate:	**1/29/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/1/2021 06:39 PM
Barium	120	0.15	1.0		µg/L	1	2/5/2021 10:38 AM
Manganese	0.61	0.26	0.50		µg/L	1	2/1/2021 06:39 PM
Molybdenum	4.4	0.21	0.50		µg/L	1	2/1/2021 06:39 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/1/2021 06:39 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-906-Q121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 11:00:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-015		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**			PrepDate:		**1/29/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/1/2021 06:44 PM
Barium	120	0.15	1.0		µg/L	1	2/5/2021 10:43 AM
Manganese	0.85	0.26	0.50		µg/L	1	2/1/2021 06:44 PM
Molybdenum	4.6	0.21	0.50		µg/L	1	2/1/2021 06:44 PM
Selenium	1.5	0.36	0.50		µg/L	1	2/1/2021 06:44 PM

Qualifiers:

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

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ANALYTICAL RESULTS

Print Date: *11-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	C-NR4-D-0121LL
Lab Order:	N043939	**Collection Date:**	1/28/2021 10:50:00 AM
Project:	PG&E Topock - RMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N043939-016		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP8_210201C**	QC Batch: **84039**				PrepDate:	**1/29/2021**	Analyst: **CEI**
Arsenic	2.3	0.081	0.10		µg/L	1	2/1/2021 07:02 PM
Barium	120	0.15	1.0		µg/L	1	2/5/2021 10:49 AM
Manganese	0.73	0.26	0.50		µg/L	1	2/1/2021 07:02 PM
Molybdenum	4.7	0.21	0.50		µg/L	1	2/1/2021 07:02 PM
Selenium	1.6	0.36	0.50		µg/L	1	2/1/2021 07:02 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **MB-84039** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/29/2021** RunNo: **150514**
Client ID: **PBW** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/1/2021** SeqNo: **4097684**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID **LCS-84039** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/29/2021** RunNo: **150514**
Client ID: **LCSW** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/1/2021** SeqNo: **4097685**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.494	0.10	10.00	0	105	85	115				
Manganese	101.496	0.50	100.0	0	101	85	115				
Molybdenum	9.963	0.50	10.00	0	99.6	85	115				
Selenium	10.151	0.50	10.00	0	102	85	115				

Sample ID **N043939-001B-MS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/29/2021** RunNo: **150514**
Client ID: **ZZZZZZ** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/1/2021** SeqNo: **4097689**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.205	0.10	10.00	2.261	99.4	75	125				
Manganese	96.778	0.50	100.0	0.6907	96.1	75	125				
Molybdenum	15.464	0.50	10.00	4.602	109	75	125				
Selenium	10.718	0.50	10.00	1.616	91.0	75	125				

Sample ID **N043939-001B-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/29/2021** RunNo: **150514**
Client ID: **ZZZZZZ** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/1/2021** SeqNo: **4097690**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.682	0.10	10.00	2.261	104	75	125	12.21	3.84	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **N043939-001B-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/29/2021** RunNo: **150514**
Client ID: **ZZZZZZ** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/1/2021** SeqNo: **4097690**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	97.068	0.50	100.0	0.6907	96.4	75	125	96.78	0.300	20	
Molybdenum	15.497	0.50	10.00	4.602	109	75	125	15.46	0.214	20	
Selenium	11.013	0.50	10.00	1.616	94.0	75	125	10.72	2.71	20	

Sample ID **MB-84039** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/29/2021** RunNo: **150557**
Client ID: **PBW** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/5/2021** SeqNo: **4099849**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	ND	1.0									

Sample ID **LCS-84039** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/29/2021** RunNo: **150557**
Client ID: **LCSW** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/5/2021** SeqNo: **4099850**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	10.663	1.0	10.00	0	107	85	115				

Sample ID **N043939-001B-MS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/29/2021** RunNo: **150557**
Client ID: **ZZZZZZ** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/5/2021** SeqNo: **4099854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	121.700	1.0	10.00	115.7	59.8	75	125				S

Sample ID **N043939-001B-MSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **1/29/2021** RunNo: **150557**
Client ID: **ZZZZZZ** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/5/2021** SeqNo: **4099855**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	121.379	1.0	10.00	115.7	56.6	75	125	121.7	0.264	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N043939
Project: PG&E Topock - RMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID **N043939-001B-PS** SampType: **PS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: RunNo: **150514**
Client ID: **ZZZZZZ** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/1/2021** SeqNo: **4097688**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	12.419	0.10	10.00	2.261	102	80	120				
Manganese	97.318	0.50	100.0	0.6907	96.6	80	120				
Molybdenum	15.409	0.50	10.00	4.602	108	80	120				
Selenium	11.096	0.50	10.00	1.616	94.8	80	120				

Sample ID **N043939-001B-PS** SampType: **PS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: RunNo: **150557**
Client ID: **ZZZZZZ** Batch ID: **84039** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/5/2021** SeqNo: **4099853**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Barium	122.814	1.0	10.00	115.7	71.0	80	120				S

Qualifiers:

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

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Client: Arcadis
Address: 1410 Rocky Ridge Dr # 330
Address: Roseville, CA 95661
Phone: 916-786-3302 Fax:
Submitted By: Reggie Tep
Title: Field Tech
Signature: Date: 01/28/21
I hereby authorize ASSET Labs to perform the tests indicated below.
Project Name: PG&E Topock - RMP
Project Number: RC000753.601D

Report to: Dan Bush
Company: Arcadis
Email: dan.bush@arcadis.com; daniel.moore@critigen.com
Address: 1410 Rocky Ridge Dr # 330, Roseville, CA 95661
Phone: 916-786-3302 Fax:
Sampled By: Reggie Tep
I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
Signature: Date: 01/28/21

Bill to: Marty Bloes
Address:
Address:
Email to: mbloes@pivox.com P.O.#
Phone: 949-727-1400, ext 200 Fax:

EDD Requirement	
Excel EDD	
Geotracker	
Labspec	
Others	Ü
Specify: RWQCB	
Global ID:	

QA/QC	
RTNE	
RWQCB	Ü
CalTrans	
LEVEL III	
LEVEL IV	
Regulatory	
Specify State:	

Sample Receipt Condition	Y	N
1. Chilled	✓	
2. Headspace		✓
3. Container Intact	✓	
4. Seal Present		✓
5. IR number	2	
6. Method of Cooling: ICE		
Sample Temp: 2.1/1.7/3.3°C		
Courier: ASSET		
Tracking No.:		

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Field QC Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH	Dissolved metals (SW6010B/SW6020A/dis) FF; HNO3 Cr	Dissolved metals (SW6010B/SW6020A/dis) FF; HNO3 Ca, Mg, K, Na, B	Dissolved metals (SW6010B/SW6020A/dis) FF; HNO3 As, Mn, Fe, Sb, Mo, Ba	Total metals (SW6010B); HNO3 Fe	Anions (E300.0); Br, Cl, SO4	Specific Conductance (E120.1)	pH (SM4500H+B)	TDS (SM2540C)	Alkalinity (Total, reported as CaCO3) (SM2320B)	TSS (SM2540)	Nitrate/Nitrite (SM4500N03) Nitrogen; H2SO4	TRUE	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
						3x250 mL poly	TRUE	3x500mL poly	3x500mL poly	3x500mL poly	500 mL poly	1 liter poly	1 liter poly	1 liter poly	1 liter poly	1 liter poly	1 liter poly	125 mL poly					
1	N043939 -01	C-CON-D-Q121LL		9:19		X		X		X	X		X	X			X	X		E	7	P	BNS
2	-02	C-CON-S-Q121LL		9:05		X		X		X	X		X	X			X	X		E	7	P	BNS
3	-03	C-NR4-S-Q121LL		11:08		X		X		X	X		X	X			X	X		E	7	P	BNS
4	-04	C-NR1-D-Q121LL		9:42		X		X		X	X		X	X			X	X		E	7	P	BNS
5	-05	C-NR1-S-Q121LL		9:54		X		X		X	X		X	X			X	X		E	7	P	BNS
6	-06	C-NR3-D-Q121LL		10:12		X		X		X	X		X	X			X	X		E	7	P	BNS
7	-07	C-MAR-D-Q121LL		7:48		X		X		X	X		X	X			X	X		E	7	P	BNS
8	-08	C-MAR-S-Q121LL		7:58		X		X		X	X		X	X			X	X		E	7	P	BNS
9	-09	C-NR3-S-Q121LL		10:26		X		X		X	X		X	X			X	X		E	7	P	BNS
10	-10	R-19-Q121LL		8:16		X		X		X	X		X	X			X	X		E	7	P	BNS
11	-11	AmbientBlank-3-Q121LL		11:10			X													E	1	P	BNS Hold
12	-12	RRB-Q121LL		8:43		X		X		X	X		X	X			X	X		E	7	P	BNS
13	-13	MW-904-Q121LL		8:26		X		X		X	X		X	X			X	X		E	7	P	BNS
14	-14	MW-905-Q121LL		10:36		X		X		X	X		X	X			X	X		E	7	P	BNS
15	-15	MW-906-Q121LL		11:00		X		X		X	X		X	X			X	X		E	7	P	BNS
16	-16	C-NR4-D-Q121LL		10:50		X		X		X	X		X	X			X	X		E	7	P	BNS

Relinquished by (Signature and Printed Name)	Date/Time	Relinquished by (Signature and Printed Name)	Date/Time
Reggie Tep	01/28/21 1445	Romeo Alcantara	1/28/21 1445
Romeo Alcantara	1/28/21 1719	Yoanda Rodriguez	1/28/21 1719

Turn Around Time (TAT)
- A = < 24 Hrs or Same Day TAT
- B = Next Workday
- C = 2 Workdays
- D = 3 Workdays
- X E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs =200% Next Day= 100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price

5. Trip Blanks and Equipment Blanks are billable sample
6. Asset Laboratories is not responsible for samples collected using incorrect methodology
7. Terms are net 30 days
8. All reports are submitted as electronic format. Please inform ASSET Laboratories if hard copy of report is needed
9. For subcontract analyses, TAT and Surcharges will vary.

Preservatives:

H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=Zn(AC)$_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B	(NH4)2SO4/NH4OH	

Container Type:

T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

White=Laboratory Copy Yellow=Customer's Copy

ASSET Laboratories

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

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

Cooler Received/Opened On:	1/28/2021	Workorder:	N043939
Rep sample Temp (Deg C):	2.1/1.7/3.3	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

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

Comments:

See Correspondence.
Samples for pH received past holding time.
Collection date taken from labels
YRJ 2/11/2021

For:

Checklist Completed By: YR BHdez 1/29/2021

Reviewed By: MBC 02/03/2021

Subject: RE: PG&E Topock - RMP, RC000753.801D (ASSET Labs No. N043939)
From: Tina Rice <Tina.Rice@critigen.com>
Date: 1/29/2021, 2:52 PM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>, "Madsen, Laura" <Laura.Madsen@arcadis.com>
CC: "maryann.balilu@assetlaboratoriesph.com" <maryann.balilu@assetlaboratoriesph.com>, "rustico.aquino@assetlaboratoriesph.com" <rustico.aquino@assetlaboratoriesph.com>

Yoandra,

Actually I'm not sure that the ambient blank sample should have the LL on the end. Please go ahead and log in per the COC but we may need to update.

Thanks,
Tina

From: Tina Rice
Sent: Friday, January 29, 2021 2:48 PM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>; Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: maryann.balilu@assetlaboratoriesph.com; rustico.aquino@assetlaboratoriesph.com
Subject: RE: PG&E Topock - RMP, RC000753.801D (ASSET Labs No. N043939)

Yoandra,

These are the correct sample IDs:

1	C-CON-D-0121LL
2	C-CON-S-0121LL
3	C-NR4-S-0121LL
4	C-NR1-D-0121LL
5	C-NR1-S-0121LL
6	C-NR3-D-0121LL
7	C-MAR-D-0121LL
8	C-MAR-S-0121LL
9	C-NR3-S-0121LL
10	R-19-0121LL
11	AmbientBlank-3-0121LL
12	RRB-0121LL
13	MW-904-0121LL
14	MW-905-Q121LL
15	MW-906-Q121LL
16	C-NR4-D-0121LL

Tina

From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Friday, January 29, 2021 2:30 PM
To: Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: Tina Rice <Tina.Rice@critigen.com>; maryann.balilu@assetlaboratoriesph.com; rustico.aquino@assetlaboratoriesph.com

Subject: PG&E Topock - RMP, RC000753.801D (ASSET Labs No. N043939)

Hi Laura,

Please kindly advise on if the sample IDs should be read 'Q121LL' per COC or "0121LL' per labels.

Only samples 14 and 15 are correct, "Q121LL' on both COC and labels.

--
Thanks,

Yoandra Rodriguez
Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 | F: 702.307.2691
California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436

ASSET LABORATORIES - Serving Clients with Passion and Professionalism

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ASSET Laboratories

WORK ORDER Summary

29-Jan-21

WorkOrder: N043939

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 1/28/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043939-001A	C-CON-D-0121LL	1/28/2021 9:19:00 AM	2/9/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-001B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-001C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-001D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			2/9/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/9/2021			Total Suspended Solids Prep	☐	☐	☐	LSR
N043939-001E			2/9/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043939-002A	C-CON-S-0121LL	1/28/2021 9:05:00 AM	2/9/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-002B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-002C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-002D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR

ASSET Laboratories

WORK ORDER Summary

29-Jan-21

WorkOrder: N043939

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 1/28/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043939-002D	C-CON-S-0121LL	1/28/2021 9:05:00 AM	2/9/2021	Groundwater	SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/9/2021			Total Suspended Solids Prep	☐	☐	☐	LSR
N043939-002E			2/9/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043939-003A	C-NR4-S-0121LL	1/28/2021 11:06:00 AM	2/9/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-003B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-003C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-003D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			2/9/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/9/2021			Total Suspended Solids Prep	☐	☐	☐	LSR
N043939-003E			2/9/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043939-004A	C-NR1-D-0121LL	1/28/2021 9:42:00 AM	2/9/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-004B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

29-Jan-21

WorkOrder: N043939

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 1/28/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043939-004B	C-NR1-D-0121LL	1/28/2021 9:42:00 AM	2/9/2021	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-004C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-004D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			2/9/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/9/2021			Total Suspended Solids Prep	☐	☐	☐	LSR
N043939-004E			2/9/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043939-005A	C-NR1-S-0121LL	1/28/2021 9:54:00 AM	2/9/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-005B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-005C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-005D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			2/9/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/9/2021			Total Suspended Solids Prep	☐	☐	☐	LSR

ASSET Laboratories

WORK ORDER Summary

29-Jan-21

WorkOrder: N043939

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 1/28/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043939-005E	C-NR1-S-0121LL	1/28/2021 9:54:00 AM	2/9/2021	Groundwater	SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043939-006A	C-NR3-D-0121LL	1/28/2021 10:12:00 AM	2/9/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-006B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-006C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-006D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			2/9/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/9/2021			Total Suspended Solids Prep	☐	☐	☐	LSR
N043939-006E			2/9/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043939-007A	C-MAR-D-0121LL	1/28/2021 7:48:00 AM	2/9/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-007B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-007C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

29-Jan-21

WorkOrder: N043939

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 1/28/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043939-007C	C-MAR-D-0121LL	1/28/2021 7:48:00 AM	2/9/2021	Groundwater	EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-007D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			2/9/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/9/2021			Total Suspended Solids Prep	☐	☐	☐	LSR
N043939-007E			2/9/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043939-008A	C-MAR-S-0121LL	1/28/2021 7:58:00 AM	2/9/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-008B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-008C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-008D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			2/9/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/9/2021			Total Suspended Solids Prep	☐	☐	☐	LSR
N043939-008E			2/9/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043939-009A	C-NR3-S-0121LL	1/28/2021 10:26:00 AM	2/9/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-009B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

29-Jan-21

WorkOrder: N043939

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 1/28/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043939-009B	C-NR3-S-0121LL	1/28/2021 10:26:00 AM	2/9/2021	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-009C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-009D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			2/9/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/9/2021			Total Suspended Solids Prep	☐	☐	☐	LSR
N043939-009E			2/9/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043939-010A	R-19-0121LL	1/28/2021 8:16:00 AM	2/9/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-010B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-010C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-010D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			2/9/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR

ASSET Laboratories

WORK ORDER Summary

29-Jan-21

WorkOrder: N043939

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 1/28/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043939-010D	R-19-0121LL	1/28/2021 8:16:00 AM	2/9/2021	Groundwater		Total Suspended Solids Prep	☐	☐	☐	LSR
N043939-010E			2/9/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043939-011A	AmbientBlank-3-0121LL	1/28/2021 11:10:00 AM	2/9/2021		EPA 218.6	Hexavalent Chromium by IC	☑	☐	☐	WW
N043939-012A	RRB-0121LL	1/28/2021 8:43:00 AM	2/9/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-012B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-012C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-012D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			2/9/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/9/2021			Total Suspended Solids Prep	☐	☐	☐	LSR
N043939-012E			2/9/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043939-013A	MW-904-0121LL	1/28/2021 8:26:00 AM	2/9/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-013B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

29-Jan-21

WorkOrder: N043939

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 1/28/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043939-013B	MW-904-0121LL	1/28/2021 8:26:00 AM	2/9/2021	Groundwater	EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-013C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-013D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			2/9/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/9/2021			Total Suspended Solids Prep	☐	☐	☐	LSR
N043939-013E			2/9/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043939-014A	MW-905-Q121LL	1/28/2021 10:36:00 AM	2/9/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-014B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-014C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-014D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			2/9/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/9/2021			Total Suspended Solids Prep	☐	☐	☐	LSR
N043939-014E			2/9/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

29-Jan-21

WorkOrder: N043939

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 1/28/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043939-015A	MW-906-Q121LL	1/28/2021 11:00:00 AM	2/9/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-015B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-015C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-015D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			2/9/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/9/2021			Total Suspended Solids Prep	☐	☐	☐	LSR
N043939-015E			2/9/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043939-016A	C-NR4-D-0121LL	1/28/2021 10:50:00 AM	2/9/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N043939-016B			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/9/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N043939-016C			2/9/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/9/2021		EPA 6010B	TOTAL METALS BY ICP	☐	☐	☐	WW
N043939-016D			2/9/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR

ASSET Laboratories

WORK ORDER Summary

29-Jan-21

WorkOrder: N043939

Client ID: ARCUS02

Project: PG&E Topock - RMP, RC000753.801D **QC Level:** Level IV **Date Received:** 1/28/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N043939-016D	C-NR4-D-0121LL	1/28/2021 10:50:00 AM	2/9/2021	Groundwater	SM4500-H+B	pH	☐	☐	☐	LSR
			2/9/2021		SM2540D	TOTAL NON-FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/9/2021			Total Suspended Solids Prep	☐	☐	☐	LSR
N043939-016E			2/9/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N043939-017A	FOLDER	2/9/2021	2/9/2021		Folder	Folder	☐	☐	☐	LAB
			2/9/2021		Folder	Level IV Report	☐	☐	☐	LAB
			2/9/2021		Folder	Folder	☐	☐	☐	LAB

February 17, 2021

Dan Bush
ARCADIS U.S., Inc. - California
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TEL: (916) 786-3302
FAX:

Workorder No.: N044038

RE: PG&E Topock - PMP, RC000753.801D

Attention: Dan Bush

Enclosed are the results for sample(s) received on February 03, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

Nancy Sibucao
Laboratory Director

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

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

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

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

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

Samples were analyzed within method holding time except for pH. pH testing is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.

Analytical Comments for EPA 200.7_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N044038-001B-MS2, N044038-001B-MSD2, N044026-001CMS1 and N044026-001C-MSD1 since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Matrix Spike Duplicate (MSD) is outside recovery and RPD criteria for Iron in QC sample N044026-001C-MSD1 possibly due to matrix interference. Post Spike (PS) passed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

Analytical Comments for EPA 200.8_Dissolved:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Chromium in QC samples N044024-001EMS and N044024-001EMSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

ASSET Laboratories

Date: *17-Feb-21*

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - PMP, RC000753.801D
Lab Order: N044038
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044038-001A	TW-03D-0221	Groundwater	2/3/2021 6:50:00 AM	2/3/2021	2/17/2021
N044038-001B	TW-03D-0221	Groundwater	2/3/2021 6:50:00 AM	2/3/2021	2/17/2021
N044038-001C	TW-03D-0221	Groundwater	2/3/2021 6:50:00 AM	2/3/2021	2/17/2021
N044038-001D	TW-03D-0221	Groundwater	2/3/2021 6:50:00 AM	2/3/2021	2/17/2021

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0221
Lab Order:	N044038	**Collection Date:**	2/3/2021 6:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044038-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210203I**	QC Batch: **R150541**			PrepDate:			Analyst: **LR**
Specific Conductance	7200	0.10	0.10		umhos/cm	1	2/3/2021 05:30 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044038
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N044038-001CDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150541**
Client ID: **ZZZZZZ** Batch ID: **R150541** TestNo: **EPA 120.1** Analysis Date: **2/3/2021** SeqNo: **4098947**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	7230.000	0.10						7210	0.277	2	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0221
Lab Order:	N044038	**Collection Date:**	2/3/2021 6:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044038-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
PH							
			SM4500-H+B				
RunID: **NV00922-WC_210203H**	QC Batch: **R150540**			PrepDate:			Analyst: **LR**
pH	7.2	0.10	0.10	H	pH Units	1	2/3/2021 05:25 PM
Temp. at time of pH Analysis	25	0.10	0.10	H	°C	1	2/3/2021 05:25 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044038
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 150.1_4500H+B_W

Sample ID: **N044038-001CDUP** SampType: **DUP** TestCode: **150.1_4500H+** Units: **pH Units** Prep Date: RunNo: **150540**
Client ID: **ZZZZZZ** Batch ID: **R150540** TestNo: **SM4500-H+B** Analysis Date: **2/3/2021** SeqNo: **4098945**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.250	0.10						7.230	0.276	10	H
Temp. at time of pH Analysis	25.000	0.10						25.00	0	10	H

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0221
Lab Order:	N044038	**Collection Date:**	2/3/2021 6:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044038-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
TOTAL FILTERABLE RESIDUE							
			SM2540C				
RunID: **NV00922-WC_210204D**	QC Batch: **85120**				PrepDate:	**2/4/2021**	Analyst: **LR**
Total Dissolved Solids (Residue, Filterable)	4400	50	50		mg/L	1	2/4/2021 01:49 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044038
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.1_2540C_W

Sample ID: **LCS-85120** SampType: **LCS** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **2/4/2021** RunNo: **150565**
Client ID: **LCSW** Batch ID: **85120** TestNo: **SM2540C** Analysis Date: **2/4/2021** SeqNo: **4100121**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterat	965.000	10	1000	0	96.5	80	120				

Sample ID: **MB-85120** SampType: **MBLK** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **2/4/2021** RunNo: **150565**
Client ID: **PBW** Batch ID: **85120** TestNo: **SM2540C** Analysis Date: **2/4/2021** SeqNo: **4100122**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterat	ND	10									

Sample ID: **N044038-001CDUP** SampType: **DUP** TestCode: **160.1_2540C_** Units: **mg/L** Prep Date: **2/4/2021** RunNo: **150565**
Client ID: **ZZZZZZ** Batch ID: **85120** TestNo: **SM2540C** Analysis Date: **2/4/2021** SeqNo: **4100125**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filterat	4390.000	50						4415	0.568	5	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0221
Lab Order:	N044038	**Collection Date:**	2/3/2021 6:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044038-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP							
			EPA 200.7				
RunID: **NV00922-ICP2_210210B**	QC Batch: **85169**				PrepDate:	**2/9/2021**	Analyst: **DJ**
Calcium	150000	85	500		µg/L	1	2/10/2021 02:47 PM
Iron	93	18	20		µg/L	1	2/10/2021 02:47 PM
Magnesium	26000	48	100		µg/L	1	2/10/2021 02:47 PM
Sodium	1300000	4800	25000		µg/L	50	2/10/2021 11:51 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044038
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **MB-85169** SampType: **MBLK** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **2/9/2021** RunNo: **150639**
Client ID: **PBW** Batch ID: **85169** TestNo: **EPA 200.7** Analysis Date: **2/10/2021** SeqNo: **4104461**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	500									

Sample ID: **LCS2-85169** SampType: **LCS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **2/9/2021** RunNo: **150639**
Client ID: **LCSW** Batch ID: **85169** TestNo: **EPA 200.7** Analysis Date: **2/10/2021** SeqNo: **4104462**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	18180.196	500	20000	0	90.9	85	115				

Sample ID: **N044038-001B-MS2** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **2/9/2021** RunNo: **150639**
Client ID: **ZZZZZZ** Batch ID: **85169** TestNo: **EPA 200.7** Analysis Date: **2/10/2021** SeqNo: **4104469**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1414525.534	25000	20000	1261000	768	75	125				S

Sample ID: **N044038-001B-MSD2** SampType: **MSD** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **2/9/2021** RunNo: **150639**
Client ID: **ZZZZZZ** Batch ID: **85169** TestNo: **EPA 200.7** Analysis Date: **2/10/2021** SeqNo: **4104470**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1380900.541	25000	20000	1261000	600	75	125	1415000	2.41	20	S

Sample ID: **N044026-001C-MS1** SampType: **MS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **2/9/2021** RunNo: **150644**
Client ID: **ZZZZZZ** Batch ID: **85169** TestNo: **EPA 200.7** Analysis Date: **2/10/2021** SeqNo: **4104583**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	159985.452	500	10000	152700	72.9	75	125				S
Iron	173.618	20	100.0	57.32	116	75	125				
Magnesium	36513.818	100	10000	26830	96.8	75	125				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044038
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **N044026-001C-MSD1** SampType: **MSD** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **2/9/2021** RunNo: **150644**
Client ID: **ZZZZZZ** Batch ID: **85169** TestNo: **EPA 200.7** Analysis Date: **2/10/2021** SeqNo: **4104584**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	156024.992	500	10000	152700	33.3	75	125	160000	2.51	20	S
Iron	126.966	20	100.0	57.32	69.6	75	125	173.6	31.0	20	SR
Magnesium	35578.651	100	10000	26830	87.4	75	125	36510	2.59	20	

Sample ID: **MB-85169** SampType: **MBLK** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **2/9/2021** RunNo: **150644**
Client ID: **PBW** Batch ID: **85169** TestNo: **EPA 200.7** Analysis Date: **2/10/2021** SeqNo: **4104589**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	ND	500									
Iron	ND	20									
Magnesium	ND	100									

Sample ID: **LCS1-85169** SampType: **LCS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: **2/9/2021** RunNo: **150644**
Client ID: **LCSW** Batch ID: **85169** TestNo: **EPA 200.7** Analysis Date: **2/10/2021** SeqNo: **4104590**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	9323.923	500	10000	0	93.2	85	115				
Iron	106.618	20	100.0	0	107	85	115				
Magnesium	9292.315	100	10000	0	92.9	85	115				

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044038
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7_WDPGEPPB

Sample ID: **N044038-001B-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **150639**
Client ID: **ZZZZZZ** Batch ID: **85169** TestNo: **EPA 200.7** Analysis Date: **2/10/2021** SeqNo: **4104468**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1324854.278	25000	20000	1261000	319	80	120				S

Sample ID: **N044026-001C-PS** SampType: **PS** TestCode: **200.7_WDPG** Units: **µg/L** Prep Date: RunNo: **150644**
Client ID: **ZZZZZZ** Batch ID: **85169** TestNo: **EPA 200.7** Analysis Date: **2/10/2021** SeqNo: **4104582**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	157697.931	500	10000	152700	50.1	80	120				S
Iron	152.885	20	100.0	57.32	95.6	80	120				
Magnesium	36139.962	100	10000	26830	93.1	80	120				

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0221
Lab Order:	N044038	**Collection Date:**	2/3/2021 6:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044038-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICPMS							
EPA 200.8							
RunID: **NV00922-ICP8_210205D** QC Batch: **85115** PrepDate: **2/4/2021** Analyst: **CEI**							
Manganese	19	0.26	0.50		µg/L	1	2/6/2021 02:01 AM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044038
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_WDISS_TPK

Sample ID: **MB-85115** SampType: **MBLK** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/4/2021** RunNo: **150607**
Client ID: **PBW** Batch ID: **85115** TestNo: **EPA 200.8** Analysis Date: **2/6/2021** SeqNo: **4102906**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	0.50									

Sample ID: **LCS-85115** SampType: **LCS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/4/2021** RunNo: **150607**
Client ID: **LCSW** Batch ID: **85115** TestNo: **EPA 200.8** Analysis Date: **2/6/2021** SeqNo: **4102907**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	101.294	0.50	100.0	0	101	85	115				

Sample ID: **N044024-001EMS** SampType: **MS** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/4/2021** RunNo: **150607**
Client ID: **ZZZZZZ** Batch ID: **85115** TestNo: **EPA 200.8** Analysis Date: **2/6/2021** SeqNo: **4102914**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	503.756	2.5	100.0	424.7	79.1	75	125				

Sample ID: **N044024-001EMSD** SampType: **MSD** TestCode: **200.8_WDISS** Units: **µg/L** Prep Date: **2/4/2021** RunNo: **150607**
Client ID: **ZZZZZZ** Batch ID: **85115** TestNo: **EPA 200.8** Analysis Date: **2/6/2021** SeqNo: **4102918**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	512.395	2.5	100.0	424.7	87.7	75	125	503.8	1.70	20	

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0221
Lab Order:	N044038	**Collection Date:**	2/3/2021 6:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044038-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210204A** QC Batch: **R150531** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	420	1.7	10		µg/L	50	2/4/2021 10:32 AM
DISSOLVED METALS BY ICP-MS							
EPA 200.8							
RunID: **NV00922-ICP8_210205D** QC Batch: **85115** PrepDate: **2/4/2021** Analyst: **CEI**							
Chromium	430	0.65	5.0		µg/L	5	2/6/2021 02:06 AM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044038
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8Dis_CrPGE_TPK

Sample ID: **MB-85115** SampType: **MBLK** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **2/4/2021** RunNo: **150607**
Client ID: **PBW** Batch ID: **85115** TestNo: **EPA 200.8** Analysis Date: **2/6/2021** SeqNo: **4102606**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: **LCS-85115** SampType: **LCS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **2/4/2021** RunNo: **150607**
Client ID: **LCSW** Batch ID: **85115** TestNo: **EPA 200.8** Analysis Date: **2/6/2021** SeqNo: **4102607**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.234	1.0	10.00	0	102	85	115				

Sample ID: **N044024-001EMS** SampType: **MS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **2/4/2021** RunNo: **150607**
Client ID: **ZZZZZZ** Batch ID: **85115** TestNo: **EPA 200.8** Analysis Date: **2/6/2021** SeqNo: **4102613**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	104.311	1.0	10.00	97.44	68.7	75	125				S

Sample ID: **N044024-001EMSD** SampType: **MSD** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: **2/4/2021** RunNo: **150607**
Client ID: **ZZZZZZ** Batch ID: **85115** TestNo: **EPA 200.8** Analysis Date: **2/6/2021** SeqNo: **4102617**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	104.888	1.0	10.00	97.44	74.5	75	125	104.3	0.552	20	S

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044038
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R150531** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150531**
Client ID: **PBW** Batch ID: **R150531** TestNo: **EPA 218.6** Analysis Date: **2/4/2021** SeqNo: **4098753**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R150531** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150531**
Client ID: **LCSW** Batch ID: **R150531** TestNo: **EPA 218.6** Analysis Date: **2/4/2021** SeqNo: **4098754**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.848	0.20	5.000	0	97.0	90	110				

Sample ID: **N044038-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150531**
Client ID: **ZZZZZZ** Batch ID: **R150531** TestNo: **EPA 218.6** Analysis Date: **2/4/2021** SeqNo: **4098761**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	678.350	10	250.0	425.0	101	90	110				

Sample ID: **N044038-001AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150531**
Client ID: **ZZZZZZ** Batch ID: **R150531** TestNo: **EPA 218.6** Analysis Date: **2/4/2021** SeqNo: **4098762**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	676.310	10	250.0	425.0	101	90	110	678.4	0.301	20	

Sample ID: **N044039-001ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150531**
Client ID: **ZZZZZZ** Batch ID: **R150531** TestNo: **EPA 218.6** Analysis Date: **2/4/2021** SeqNo: **4098766**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.855	0.20						4.868	0.274	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044038
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8Dis_CrPGE_TPK

Sample ID: **N044024-001E-PS** SampType: **PS** TestCode: **200.8Dis_CrP** Units: **µg/L** Prep Date: RunNo: **150607**
Client ID: **ZZZZZZ** Batch ID: **85115** TestNo: **EPA 200.8** Analysis Date: **2/6/2021** SeqNo: **4102611**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	101.424	1.0	10.00	97.44	39.9	80	120				S

Qualifiers:

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

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0221
Lab Order:	N044038	**Collection Date:**	2/3/2021 6:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044038-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ALKALINITY, SPECIATED							
			SM 2320 B				
RunID: **NV00922-WC_210205C**	QC Batch: **R150566**			PrepDate:			Analyst: **LR**
Alkalinity, Total (As CaCO3)	150	1.2	5.0		mg/L	1	2/5/2021 03:25 PM

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044038
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 2320_W_SP

Sample ID: **LCS-R150566** SampType: **LCS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **150566**
Client ID: **LCSW** Batch ID: **R150566** TestNo: **SM 2320 B** Analysis Date: **2/5/2021** SeqNo: **4100130**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	100.427	5.0	100.0	0	100	85	115				

Sample ID: **MB-R150566** SampType: **MBLK** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **150566**
Client ID: **PBW** Batch ID: **R150566** TestNo: **SM 2320 B** Analysis Date: **2/5/2021** SeqNo: **4100131**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	5.0									

Sample ID: **N044038-001CDUP** SampType: **DUP** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **150566**
Client ID: **ZZZZZZ** Batch ID: **R150566** TestNo: **SM 2320 B** Analysis Date: **2/5/2021** SeqNo: **4100137**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	151.709	5.0						149.6	1.42	30	

Sample ID: **N044038-001CMS** SampType: **MS** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **150566**
Client ID: **ZZZZZZ** Batch ID: **R150566** TestNo: **SM 2320 B** Analysis Date: **2/5/2021** SeqNo: **4100138**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	252.137	5.0	100.0	149.6	103	75	125				

Sample ID: **N044038-001CMSD** SampType: **MSD** TestCode: **2320_W_SP** Units: **mg/L** Prep Date: RunNo: **150566**
Client ID: **ZZZZZZ** Batch ID: **R150566** TestNo: **SM 2320 B** Analysis Date: **2/5/2021** SeqNo: **4100139**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	251.068	5.0	100.0	149.6	101	75	125	252.1	0.425	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0221
Lab Order:	N044038	**Collection Date:**	2/3/2021 6:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044038-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_210204A** QC Batch: **R150547** PrepDate: Analyst: **RAB**							
Chloride	2100	17	250		mg/L	500	2/4/2021 09:07 PM
ANIONS BY ION CHROMATOGRAPHY							
EPA 300.0							
RunID: **NV00922-IC8_210204A** QC Batch: **R150547** PrepDate: Analyst: **RAB**							
Sulfate	500	2.0	25		mg/L	50	2/4/2021 09:56 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044038
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_CLPGE

Sample ID: **MB-R150547_CL** SampType: **MBLK** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **150547**
Client ID: **PBW** Batch ID: **R150547** TestNo: **EPA 300.0** Analysis Date: **2/4/2021** SeqNo: **4099158**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.50									

Sample ID: **LCS-R150547_CL** SampType: **LCS** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **150547**
Client ID: **LCSW** Batch ID: **R150547** TestNo: **EPA 300.0** Analysis Date: **2/4/2021** SeqNo: **4099159**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.927	0.50	2.000	0	96.3	90	110				

Sample ID: **N044031-004BDUP** SampType: **DUP** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **150547**
Client ID: **ZZZZZZ** Batch ID: **R150547** TestNo: **EPA 300.0** Analysis Date: **2/4/2021** SeqNo: **4099165**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	4643.400	500						4652	0.174	20	

Sample ID: **N044038-001CMS** SampType: **MS** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **150547**
Client ID: **ZZZZZZ** Batch ID: **R150547** TestNo: **EPA 300.0** Analysis Date: **2/4/2021** SeqNo: **4099169**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3133.600	250	1000	2117	102	80	120				

Sample ID: **N044038-001CMSD** SampType: **MSD** TestCode: **300_W_CLPG** Units: **mg/L** Prep Date: RunNo: **150547**
Client ID: **ZZZZZZ** Batch ID: **R150547** TestNo: **EPA 300.0** Analysis Date: **2/4/2021** SeqNo: **4099170**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3140.500	250	1000	2117	102	80	120	3134	0.220	20	

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044038
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 300_W_SO4PGE

Sample ID: **MB-R150547_SO4** SampType: **MBLK** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **150547**
Client ID: **PBW** Batch ID: **R150547** TestNo: **EPA 300.0** Analysis Date: **2/4/2021** SeqNo: **4099200**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	0.50									

Sample ID: **LCS-R150547_SO4** SampType: **LCS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **150547**
Client ID: **LCSW** Batch ID: **R150547** TestNo: **EPA 300.0** Analysis Date: **2/4/2021** SeqNo: **4099201**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	3.984	0.50	4.000	0	99.6	90	110				

Sample ID: **N044026-002BMS** SampType: **MS** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **150547**
Client ID: **ZZZZZZ** Batch ID: **R150547** TestNo: **EPA 300.0** Analysis Date: **2/4/2021** SeqNo: **4099205**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	701.010	25	200.0	491.5	105	80	120				

Sample ID: **N044026-002BMSD** SampType: **MSD** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **150547**
Client ID: **ZZZZZZ** Batch ID: **R150547** TestNo: **EPA 300.0** Analysis Date: **2/4/2021** SeqNo: **4099206**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	700.895	25	200.0	491.5	105	80	120	701.0	0.0164	20	

Sample ID: **N044031-002BDUP** SampType: **DUP** TestCode: **300_W_SO4P** Units: **mg/L** Prep Date: RunNo: **150547**
Client ID: **ZZZZZZ** Batch ID: **R150547** TestNo: **EPA 300.0** Analysis Date: **2/4/2021** SeqNo: **4099210**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	14482.000	1000						14600	0.829	20	

Qualifiers:

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

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *17-Feb-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	TW-03D-0221
Lab Order:	N044038	**Collection Date:**	2/3/2021 6:50:00 AM
Project:	PG&E Topock - PMP, RC000753.801D	**Matrix:**	GROUNDWATER
Lab ID:	N044038-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
			SM4500-NO3F				
RunID: **NV00922-FA1_210208A**	QC Batch: **R150610**			PrepDate:			Analyst: **JBB**
Nitrate/Nitrite as N	3.0	0.16	0.25		mg/L	5	2/8/2021 02:36 PM

Qualifiers:

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

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044038
Project: PG&E Topock - PMP, RC000753.801D

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R150610** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150610**
Client ID: **PBW** Batch ID: **R150610** TestNo: **SM4500-NO3** Analysis Date: **2/8/2021** SeqNo: **4103363**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R150610** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150610**
Client ID: **LCSW** Batch ID: **R150610** TestNo: **SM4500-NO3** Analysis Date: **2/8/2021** SeqNo: **4103364**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.504	0.050	0.5000	0	101	85	115				

Sample ID: **N043939-010EDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150610**
Client ID: **ZZZZZZ** Batch ID: **R150610** TestNo: **SM4500-NO3** Analysis Date: **2/8/2021** SeqNo: **4103366**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.386	0.050						0.3964	2.66	20	

Sample ID: **N043939-010EMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150610**
Client ID: **ZZZZZZ** Batch ID: **R150610** TestNo: **SM4500-NO3** Analysis Date: **2/8/2021** SeqNo: **4103367**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.931	0.050	0.5000	0.3964	107	75	125				

Sample ID: **N043939-010EMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150610**
Client ID: **ZZZZZZ** Batch ID: **R150610** TestNo: **SM4500-NO3** Analysis Date: **2/8/2021** SeqNo: **4103368**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.907	0.050	0.5000	0.3964	102	75	125	0.9312	2.67	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Page 1 of 1

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Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes	
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:	
Address: Roseville, CA 95661	Email: dan.bush@arcadis.com, daniel.moore@critigen.com	Address:	
Phone: 916-786-3302 / Fax:	Address: 1410 Rocky Ridge Dr # 330, Roseville, CA 95661	Email to: mbloes@pivox.com	P.O.# SWA-ASSET-C9817-051
Submitted By: Zachary White		Phone: 949-727-1400, ext 200	Fax:
Title: Field Technician	Phone: 916-786-3302 / Fax:		
Signature: ZW Date: 02/03/21	Sampled By: Zachary White		
I hereby authorize ASSET Labs to perform the tests indicated below.	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for		
Project Name: PG&E Topock - PMP	Signature: ZW / Date: 02/03/21		
Project Number: RC000753.801D			

EDD Requirement		QA/QC		Sample Receipt Condition	Y	N
Excel EDD		RTNE		1. Chilled	✓	
Geotracker		RWQCB	✓	2. Headspace		✓
Labspec		CalTrans		3. Container Intact	✓	
Others	✓	LEVEL III		4. Seal Present		✓
Specify: RWQCB		LEVEL IV		5. IR number	2	
Global ID:		Regulatory		6. Method of Cooling: 1 CC		
		Specify State:		Sample Temp: 3.6°C		

Courier: ASSET

Tracking No.:

Matrix			
Ground	x	Sediment	
Potable		Soil	
NPDES		Other Solid	
Surface			

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 mL poly)		Dissolved metals (EPA 200.8) FF; HNO3, 500 mL poly Cr, Mn (1 L poly)	Dissolved metals (EPA200.7) FF; HNO3 Ca, Mg, Fe, Na, (1 L poly)	Dissolved metals (SW6010B/SW6020Adie) FF; HNO3 As, Mn, Fe, Se, Mo, Ba (1 L poly)	Total metals (SW6010B); HNO3 Fe (500 mL poly)	Anions (E300.0); Cl, SO4 (1 liter poly)	Specific Conductance (E120.1) (1 liter poly)	pH (SM4500HB) (1 liter poly)	TDS (SM2540C) (1 liter poly)	Alkalinity (Total, reported as CaCO3) (SM2320B) (1 liter poly)	TSS (SM2540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4 (125 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
1																						
2	N044038-01	TW-03D-0221	2/3/21	0650		X		X	X			X	X	X	X	X		X	E	4	P	BN
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by (Signature and Printed Name):	Date/Time:	Relinquished by (Signature and Printed Name):	Date/Time:
ZW Zachary White	02/03/21 1330	JLee	2/3/21 1330
JLee	2/3/21 1551	Belkys Hernandez BHZ	2/3/21 1551

Turn Around Time (TAT)

- [ ] A = < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
- [ ] D = 3 Workdays
- [x] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Title 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Preservatives:

H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=Zn(AC)$_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B	(NH4)2SO4/NH4OH	

Container Type:

T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

White=Laboratory Copy

Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	2/3/2021	Workorder:	N044038
Rep sample Temp (Deg C):	3.6	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☑	No ☐	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☐	No ☑	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☑	No ☐	NA ☐
15. Did the bottle labels indicate correct preservatives used?	Yes ☑	No ☐	NA ☐
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☐	No ☐	NA ☑

Comments: Sample for pH received past holding time.

Checklist Completed By: BHN BHdez 2/3/2021

Reviewed By: MBC 02/04/2021

ASSET Laboratories

WORK ORDER Summary

04-Feb-21

WorkOrder: N044038

Client ID: ARCUS02

Project: PG&E Topock - PMP, RC000753.801D **QC Level:** Level IV **Date Received:** 2/3/2021

Comments: Title 22 Metals :Al, Sb, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044038-001A	TW-03D-0221	2/3/2021 6:50:00 AM	2/17/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044038-001B			2/17/2021			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/17/2021		EPA 200.7	DISSOLVED METALS BY ICP	☐	☐	☐	WW
			2/17/2021			AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/17/2021		EPA 200.8	DISSOLVED METALS BY ICPMS	☐	☐	☐	WW
			2/17/2021		EPA 200.8	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N044038-001C			2/17/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
			2/17/2021		SM4500-H+B	pH	☐	☐	☐	LSR
			2/17/2021		SM2540C	TOTAL FILTERABLE RESIDUE	☐	☐	☐	LSR
			2/17/2021			Total Dissolved Solids Prep	☐	☐	☐	LSR
			2/17/2021		SM 2320 B	ALKALINITY, SPECIATED	☐	☐	☐	LSR
			2/17/2021		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	LSR
			2/17/2021		EPA 300.0	ANIONS BY ION CHROMATOGRAPHY	☐	☐	☐	LSR
			2/17/2021		SM 1030F1	Cation-Anion Balance Calculation	☐	☐	☐	LSR
N044038-001D			2/17/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044038-002A	FOLDER	2/17/2021	2/17/2021		EDD	Client specific project	☐	☐	☐	LAB
			2/17/2021		Folder	Folder	☐	☐	☐	LAB
			2/17/2021		Folder	Level IV Report	☐	☐	☐	LAB
			2/17/2021		Folder	Folder	☐	☐	☐	LAB

March 01, 2021

Dan Bush
ARCADIS U.S., Inc. - California
1410 Rocky Ridge Dr #330
Roseville, CA 95661

TEL: (916) 786-3302
FAX:

Workorder No.: N044179

RE: PG&E Topock - GMP, 30035275

Attention: Dan Bush

Enclosed are the results for sample(s) received on February 15, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (702) 307-2659 if I can be of further assistance to your company.

Sincerely,

Nancy Sibucao
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and ASSET Laboratories - Las Vegas.

CASE NARRATIVE

SAMPLE RECEIVING/GENERAL COMMENTS:

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

Analytical Comments for EPA 218.6:

Because the results for total dissolved chromium (59 ug/L) and hexavalent chromium (29 ug/L) for sample N044179-002 (MW-69-195-Q121) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (59 ug/L) and hexavalent chromium (27 ug/L) for sample N044179-003 (MW-900-Q121) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (5.2 ug/L) and hexavalent chromium (4.2 ug/L) for sample N044179-005 (MW-58BR-Q121) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Analytical Comments for EPA 6020_Dissolved:

Because the results for total dissolved chromium (59 ug/L) and hexavalent chromium (29 ug/L) for sample N044179-002 (MW-69-195-Q121) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 58 and 30 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

Because the results for total dissolved chromium (59 ug/L) and hexavalent chromium (27 ug/L) for sample N044179-003 (MW-900-Q121) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 58 and 28 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

Because the results for total dissolved chromium (5.2 ug/L) and hexavalent chromium (4.2 ug/L) for sample N044179-005 (MW-58BR-Q121) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The results from the redigested samples were 5.2 and 4.5 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Chromium in QC samples N044193-004CMS and N044193-004CMSD since the analyte concentration in the sample is disproportionate to the spike level. Post Spike (PS) and Dilution Test (DT) were performed however, PS failed acceptance criteria. The associated Laboratory Control Sample (LCS) recovery was acceptable.

CLIENT: ARCADIS U.S., Inc. - California
Project: PG&E Topock - GMP, 30035275
Lab Order: N044179
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N044179-001A	EB-784-Q121	Groundwater	2/15/2021 1:30:00 PM	2/15/2021	3/1/2021
N044179-002A	MW-69-195-Q121	Groundwater	2/15/2021 12:54:00 PM	2/15/2021	3/1/2021
N044179-002B	MW-69-195-Q121	Groundwater	2/15/2021 12:54:00 PM	2/15/2021	3/1/2021
N044179-002C	MW-69-195-Q121	Groundwater	2/15/2021 12:54:00 PM	2/15/2021	3/1/2021
N044179-002D	MW-69-195-Q121	Groundwater	2/15/2021 12:54:00 PM	2/15/2021	3/1/2021
N044179-003A	MW-900-Q121	Groundwater	2/15/2021 1:04:00 PM	2/15/2021	3/1/2021
N044179-003B	MW-900-Q121	Groundwater	2/15/2021 1:04:00 PM	2/15/2021	3/1/2021
N044179-003C	MW-900-Q121	Groundwater	2/15/2021 1:04:00 PM	2/15/2021	3/1/2021
N044179-003D	MW-900-Q121	Groundwater	2/15/2021 1:04:00 PM	2/15/2021	3/1/2021
N044179-004A	MW-70-105-0221	Groundwater	2/15/2021 1:15:00 PM	2/15/2021	3/1/2021
N044179-004B	MW-70-105-0221	Groundwater	2/15/2021 1:15:00 PM	2/15/2021	3/1/2021
N044179-004C	MW-70-105-0221	Groundwater	2/15/2021 1:15:00 PM	2/15/2021	3/1/2021
N044179-005A	MW-58BR-Q121	Groundwater	2/15/2021 1:57:00 PM	2/15/2021	3/1/2021
N044179-005B	MW-58BR-Q121	Groundwater	2/15/2021 1:57:00 PM	2/15/2021	3/1/2021
N044179-005C	MW-58BR-Q121	Groundwater	2/15/2021 1:57:00 PM	2/15/2021	3/1/2021
N044179-005D	MW-58BR-Q121	Groundwater	2/15/2021 1:57:00 PM	2/15/2021	3/1/2021

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044179
Project: PG&E Topock - GMP, 30035275
Lab ID: N044179-002

Client Sample ID: MW-69-195-Q121
Collection Date: 2/15/2021 12:54:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
EPA 120.1							
RunID: **NV00922-WC_210216B** QC Batch: **R150754** PrepDate: Analyst: **LR**							
Specific Conductance	2800	0.10	0.10		umhos/cm	1	2/16/2021 11:25 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044179
Project: PG&E Topock - GMP, 30035275
Lab ID: N044179-003

Client Sample ID: MW-900-Q121
Collection Date: 2/15/2021 1:04:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
EPA 120.1							
RunID: **NV00922-WC_210216B** QC Batch: **R150754** PrepDate: Analyst: **LR**							
Specific Conductance	2700	0.10	0.10		umhos/cm	1	2/16/2021 11:25 AM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-58BR-Q121
Lab Order:	N044179	**Collection Date:**	2/15/2021 1:57:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044179-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
SPECIFIC CONDUCTANCE							
			EPA 120.1				
RunID: **NV00922-WC_210216B**	QC Batch: **R150754**			PrepDate:			Analyst: **LR**
Specific Conductance	7600	0.10	0.10		umhos/cm	1	2/16/2021 11:25 AM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
	DO	Surrogate Diluted Out		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044179
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1_WPGE

Sample ID: **N044179-002BDUP** SampType: **DUP** TestCode: **120.1_WPGE** Units: **umhos/cm** Prep Date: RunNo: **150754**
Client ID: **ZZZZZZ** Batch ID: **R150754** TestNo: **EPA 120.1** Analysis Date: **2/16/2021** SeqNo: **4108721**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	2770.000	0.10						2750	0.725	2	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	EB-784-Q121
Lab Order:	N044179	**Collection Date:**	2/15/2021 1:30:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044179-001		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
			EPA 218.6				
RunID: **NV00922-IC7_210216A**	QC Batch: **R150777**			PrepDate:			Analyst: **RAB**
Hexavalent Chromium	ND	0.033	0.20		µg/L	1	2/16/2021 04:31 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044179
Project: PG&E Topock - GMP, 30035275
Lab ID: N044179-002

Client Sample ID: MW-69-195-Q121
Collection Date: 2/15/2021 12:54:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210216A** QC Batch: **R150777** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	29	0.17	1.0		µg/L	5	2/16/2021 03:33 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85275** PrepDate: **2/17/2021** Analyst: **CEI**							
Chromium	59	0.13	1.0		µg/L	1	2/18/2021 03:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-900-Q121
Lab Order:	N044179	**Collection Date:**	2/15/2021 1:04:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044179-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210216A** QC Batch: **R150777** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	27	0.17	1.0		µg/L	5	2/16/2021 03:53 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85275** PrepDate: **2/17/2021** Analyst: **CEI**							
Chromium	59	0.13	1.0		µg/L	1	2/18/2021 04:05 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-70-105-0221
Lab Order:	N044179	**Collection Date:**	2/15/2021 1:15:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044179-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210216A** QC Batch: **R150777** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	140	0.66	4.0		µg/L	20	2/16/2021 12:21 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85275** PrepDate: **2/17/2021** Analyst: **CEI**							
Chromium	150	0.13	1.0		µg/L	1	2/18/2021 04:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-58BR-Q121
Lab Order:	N044179	**Collection Date:**	2/15/2021 1:57:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044179-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
HEXAVALENT CHROMIUM BY IC							
EPA 218.6							
RunID: **NV00922-IC7_210216A** QC Batch: **R150777** PrepDate: Analyst: **RAB**							
Hexavalent Chromium	4.2	0.033	0.20		µg/L	1	2/16/2021 12:31 PM
DISSOLVED METALS BY ICP-MS							
EPA 3010A **EPA 6020**							
RunID: **NV00922-ICP7_210218A** QC Batch: **85275** PrepDate: **2/17/2021** Analyst: **CEI**							
Chromium	5.2	0.13	1.0		µg/L	1	2/18/2021 04:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044179
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **MB-R150777** SampType: **MBLK** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **PBW** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109459**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	ND	0.20									

Sample ID: **LCS-R150777** SampType: **LCS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **LCSW** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109460**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.788	0.20	5.000	0	95.8	90	110				

Sample ID: **N044177-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109468**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.827	1.0	5.000	0	96.5	90	110				

Sample ID: **N044177-005AMSD** SampType: **MSD** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109469**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	4.679	1.0	5.000	0	93.6	90	110	4.826	3.10	20	

Sample ID: **N044177-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109472**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	12.953	0.20	5.000	8.275	93.5	90	110				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044179
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044177-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109473**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	1.269	0.20	1.000	0.2511	102	90	110				

Sample ID: **N044177-006AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109474**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	262.052	4.0	100.0	162.1	100	90	110				

Sample ID: **N044177-007AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109477**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	258.218	4.0	100.0	161.7	96.5	90	110				

Sample ID: **N044177-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109479**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.651	1.0	5.000	4.727	98.5	90	110				

Sample ID: **N044177-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109481**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.782	1.0	5.000	4.742	101	90	110				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044179
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044177-008AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109483**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.970	0.20	1.000	0	97.0	90	110				

Sample ID: **N044177-009AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109485**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.964	0.20	1.000	0	96.4	90	110				

Sample ID: **N044177-001ADUP** SampType: **DUP** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109486**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	8.115	0.20						8.275	1.95	20	

Sample ID: **N044179-002AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109490**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	53.917	1.0	25.00	29.21	98.8	90	110				

Sample ID: **N044179-003AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109492**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	51.790	1.0	25.00	27.41	97.5	90	110				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044179
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6_WPGE

Sample ID: **N044179-004AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109493**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	236.708	4.0	100.0	140.5	96.2	90	110				

Sample ID: **N044179-005AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109494**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	9.152	0.20	5.000	4.170	99.6	90	110				

Sample ID: **N044179-001AMS** SampType: **MS** TestCode: **218.6_WPGE** Units: **µg/L** Prep Date: RunNo: **150777**
Client ID: **ZZZZZZ** Batch ID: **R150777** TestNo: **EPA 218.6** Analysis Date: **2/16/2021** SeqNo: **4109496**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexavalent Chromium	0.949	0.20	1.000	0	94.9	90	110				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044179
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **MB-85275** SampType: **MBLK** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **PBW** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									

Sample ID: **LCS-85275** SampType: **LCS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **LCSW** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115294**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.064	1.0	10.00	0	101	85	115				

Sample ID: **N044193-001DMS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115300**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.204	1.0	10.00	0.2658	89.4	75	125				

Sample ID: **N044193-001DMSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115302**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.249	1.0	10.00	0.2658	89.8	75	125	9.204	0.485	20	

Sample ID: **N044193-004CMS** SampType: **MS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115312**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	417.820	5.0	10.00	400.7	171	75	125				S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044179
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **N044193-004CMSD** SampType: **MSD** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115314**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	420.101	5.0	10.00	400.7	194	75	125	417.8	0.545	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044179
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020DIS_CrPGE_TPK

Sample ID: **N044193-001D-PS** SampType: **PS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115298**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.123	1.0	10.00	0.2658	88.6	80	120				

Sample ID: **N044193-004C-PS** SampType: **PS** TestCode: **6020DIS_CrP** Units: **µg/L** Prep Date: RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115310**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	418.754	5.0	10.00	400.7	180	80	120				S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-69-195-Q121
Lab Order:	N044179	**Collection Date:**	2/15/2021 12:54:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044179-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210218A** QC Batch: **R150830** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	4.7	0.32	0.50		mg/L	10	2/18/2021 02:57 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: ARCADIS U.S., Inc. - California
Lab Order: N044179
Project: PG&E Topock - GMP, 30035275
Lab ID: N044179-003

Client Sample ID: MW-900-Q121
Collection Date: 2/15/2021 1:04:00 PM
Matrix: GROUNDWATER

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210218A** QC Batch: **R150830** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	4.9	0.16	0.25		mg/L	5	2/18/2021 03:16 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-70-105-0221
Lab Order:	N044179	**Collection Date:**	2/15/2021 1:15:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044179-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210218A** QC Batch: **R150830** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	2.5	0.063	0.10		mg/L	2	2/18/2021 05:04 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-58BR-Q121
Lab Order:	N044179	**Collection Date:**	2/15/2021 1:57:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044179-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
NITRATE/NITRITE-N BY CADMIUM REDUCTION							
SM4500-NO3F							
RunID: **NV00922-FA1_210218A** QC Batch: **R150830** PrepDate: Analyst: **JBB**							
Nitrate/Nitrite as N	0.46	0.032	0.050		mg/L	1	2/18/2021 05:09 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044179
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F_W_PGE

Sample ID: **MB-R150830** SampType: **MBLK** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150830**
Client ID: **PBW** Batch ID: **R150830** TestNo: **SM4500-NO3** Analysis Date: **2/18/2021** SeqNo: **4111232**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	ND	0.050									

Sample ID: **LCS-R150830** SampType: **LCS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150830**
Client ID: **LCSW** Batch ID: **R150830** TestNo: **SM4500-NO3** Analysis Date: **2/18/2021** SeqNo: **4111233**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	0.491	0.050	0.5000	0	98.2	85	115				

Sample ID: **N044179-002CDUP** SampType: **DUP** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150830**
Client ID: **ZZZZZZ** Batch ID: **R150830** TestNo: **SM4500-NO3** Analysis Date: **2/18/2021** SeqNo: **4111235**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	4.586	0.50						4.687	2.18	20	

Sample ID: **N044179-002CMS** SampType: **MS** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150830**
Client ID: **ZZZZZZ** Batch ID: **R150830** TestNo: **SM4500-NO3** Analysis Date: **2/18/2021** SeqNo: **4111236**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	10.610	0.50	5.000	4.687	118	75	125				

Sample ID: **N044179-002CMSD** SampType: **MSD** TestCode: **4500N03F_W** Units: **mg/L** Prep Date: RunNo: **150830**
Client ID: **ZZZZZZ** Batch ID: **R150830** TestNo: **SM4500-NO3** Analysis Date: **2/18/2021** SeqNo: **4111237**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate/Nitrite as N	9.946	0.50	5.000	4.687	105	75	125	10.61	6.46	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-69-195-Q121
Lab Order:	N044179	**Collection Date:**	2/15/2021 12:54:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044179-002		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85275**				PrepDate:	**2/17/2021**	Analyst: **CEI**
Arsenic	2.8	0.081	0.10		µg/L	1	2/18/2021 03:53 PM
Manganese	6.8	0.26	0.50		µg/L	1	2/18/2021 03:53 PM
Molybdenum	67	0.21	0.50		µg/L	1	2/18/2021 03:53 PM
Selenium	8.3	0.36	0.50		µg/L	1	2/18/2021 03:53 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-900-Q121
Lab Order:	N044179	**Collection Date:**	2/15/2021 1:04:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044179-003		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85275**				PrepDate:	**2/17/2021**	Analyst: **CEI**
Arsenic	2.8	0.081	0.10		µg/L	1	2/18/2021 04:05 PM
Manganese	7.0	0.26	0.50		µg/L	1	2/18/2021 04:05 PM
Molybdenum	68	0.21	0.50		µg/L	1	2/18/2021 04:05 PM
Selenium	7.8	0.36	0.50		µg/L	1	2/18/2021 04:05 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-70-105-0221
Lab Order:	N044179	**Collection Date:**	2/15/2021 1:15:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044179-004		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85275**				PrepDate:	**2/17/2021**	Analyst: **CEI**
Molybdenum	79	0.21	0.50		µg/L	1	2/18/2021 04:17 PM
Selenium	3.3	0.36	0.50		µg/L	1	2/18/2021 04:17 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

ASSET Laboratories

ANALYTICAL RESULTS

Print Date: *01-Mar-21*

CLIENT:	ARCADIS U.S., Inc. - California	**Client Sample ID:**	MW-58BR-Q121
Lab Order:	N044179	**Collection Date:**	2/15/2021 1:57:00 PM
Project:	PG&E Topock - GMP, 30035275	**Matrix:**	GROUNDWATER
Lab ID:	N044179-005		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
DISSOLVED METALS BY ICP-MS							
EPA 3010A			**EPA 6020**				
RunID: **NV00922-ICP7_210218A**	QC Batch: **85275**				PrepDate:	**2/17/2021**	Analyst: **CEI**
Arsenic	2.1	0.081	0.10		µg/L	1	2/18/2021 04:29 PM
Manganese	320	1.3	2.5		µg/L	5	2/18/2021 04:35 PM
Molybdenum	26	0.21	0.50		µg/L	1	2/18/2021 04:29 PM
Selenium	2.1	0.36	0.50		µg/L	1	2/18/2021 04:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044179
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **MB-85275** SampType: **MBLK** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **PBW** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115388**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.10									
Manganese	ND	0.50									
Molybdenum	ND	0.50									
Selenium	ND	0.50									

Sample ID: **LCS-85275** SampType: **LCS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **LCSW** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115389**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	10.216	0.10	10.00	0	102	85	115				
Manganese	100.432	0.50	100.0	0	100	85	115				
Molybdenum	10.038	0.50	10.00	0	100	85	115				
Selenium	10.305	0.50	10.00	0	103	85	115				

Sample ID: **N044193-001DMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	14.746	0.10	10.00	4.454	103	75	125				
Molybdenum	60.414	0.50	10.00	49.52	109	75	125				
Selenium	9.955	0.50	10.00	0	99.5	75	125				

Sample ID: **N044193-001DMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115396**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	227.879	2.5	100.0	134.0	93.9	75	125				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

CLIENT: ARCADIS U.S., Inc. - California
Work Order: N044179
Project: PG&E Topock - GMP, 30035275

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_DIS_TPK

Sample ID: **N044193-001DMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115397**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	15.141	0.10	10.00	4.454	107	75	125	14.75	2.64	20	
Molybdenum	60.378	0.50	10.00	49.52	109	75	125	60.41	0.0600	20	
Selenium	9.089	0.50	10.00	0	90.9	75	125	9.955	9.09	20	

Sample ID: **N044193-001DMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115400**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	224.039	2.5	100.0	134.0	90.1	75	125	227.9	1.70	20	

Sample ID: **N044193-004CMS** SampType: **MS** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.671	0.10	10.00	1.315	104	75	125				
Manganese	93.571	0.50	100.0	2.482	91.1	75	125				
Molybdenum	17.179	0.50	10.00	6.408	108	75	125				
Selenium	31.309	0.50	10.00	19.92	114	75	125				

Sample ID: **N044193-004CMSD** SampType: **MSD** TestCode: **6020_DIS_TP** Units: **µg/L** Prep Date: **2/17/2021** RunNo: **150897**
Client ID: **ZZZZZZ** Batch ID: **85275** TestNo: **EPA 6020** **EPA 3010A** Analysis Date: **2/18/2021** SeqNo: **4115408**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	11.255	0.10	10.00	1.315	99.4	75	125	11.67	3.62	20	
Manganese	93.639	0.50	100.0	2.482	91.2	75	125	93.57	0.0731	20	
Molybdenum	17.330	0.50	10.00	6.408	109	75	125	17.18	0.876	20	
Selenium	28.938	0.50	10.00	19.92	90.2	75	125	31.31	7.87	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

ASSET LABORATORIES
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

CHAIN OF CUSTODY RECORD

Contact us:
Nevada: 3151 W. Post Road, Las Vegas, NV 89118
P: 702.307.2659 F: 702.307.2691
California: 11060 Artesia Blvd., Ste C, Cerritos, CA 90703
P: 562.219.7435 F:562.219.7436
www.assetlaboratories.com

Page 1 of

Client: Arcadis	Report to: Dan Bush	Bill to: Marty Bloes	
Address: 1410 Rocky Ridge Dr # 330	Company: Arcadis	Address:	
Address: Roseville, CA 95661	Email: dan.bush@arcadis.com, daniel.moore@critigen.com	Address:	
Phone: 916-786-3302 / Fax:	Address: 1410 Rocky Ridge Dr # 330, Roseville, CA 95661	Email to: mbloes@pivox.com	P.O.# SWA-ASSET-C9817-057
Submitted By: Reggie Tap		Phone: 949-727-1400, ext 200	Fax:
Title: Field Tech	Phone: 916-786-3302 / Fax:		
Signature: Date: 2/15/21	Sampled By: Reggie Tap		
I hereby authorize ASSET Labs to perform the tests indicated below.	I attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.		
Project Name: PG&E Topock - GMP	Signature: / Date: 2/15/21		
Project Number: 30035275			

Matrix		
Ground	x	Sediment
Potable		Soil
NPDES		Other Solid
Surface		

EDD Requirement	
Excel EDD	
Geotracker	
Labspec	
Others	✓
Specify: RWQCB	
Global ID:	

QA/QC	
RTNE	
RWQCB	✓
CalTrans	
LEVEL III	
LEVEL IV	
Regulatory	
Specify State:	

Sample Receipt Condition	Y	N
1. Chilled	✓	
2. Headspace		
3. Container Intact	✓	
4. Seal Present		✓
5. IR number	2	
6. Method of Cooling: ICE		
Sample Temp: 3.6°C		

Courier:

Tracking No.:

Item No.	Laboratory Work Order No.	Sample ID/Location	Sample Date	Sample Time	Others	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (250 mL poly)	Oxygen and Deuterium Isotopes (CFIRM), Ice (250 mL poly)	Cr(VI) FF (E218.6) (NH4)2, SO4, NH4, OH (2x250 mL poly)	Alkalinity, Total as CaCO3 (SM2320B) (1 liter poly)	Bromide, Sulfate, Chloride (EPA 300.0) (1 liter poly)	Fluoride (EPA 300.0) (1 liter poly)	Specific Conductance (EPA 120.1) (1 liter poly)	Total Dissolved Solids (SM92540) (1 liter poly)	Nitrate/Nitrite (SM4500N03) Nitrate; H2SO4 (125 mL poly)	Total Organic Carbon (SM5310C); H2SO4 (3x40 mL poly)	Metals Dissolved (EPA7470A FF) Hg; HNO3 (500 mL poly)	Dissolved Metals (SW 6010B); HNO3 Potassium (500 mL poly)	Dissolved metals (SW 6010B), HNO3 B, Ca, Fe, Na (500 mL poly)	Dissolved metals (SW 6020), HNO3 As, Cr, Mn, Mo, Se (500 mL poly)	Dissolved metals (SW 6010B), HNO3 B, Ca, Cu, Fe, Na, Ni (500 mL poly)	Dissolved metals (SW 6020), HNO3 Ag, As, Ba, Be, Cd, Co, Cr, Mg, Mn, Mo, Pb, Sb, Se, Tl, V, Zn (500 mL poly)	Dissolved metals (SW 6010B), HNO3 Cr, Mo, Se (500 mL poly)	Dissolved metals (SW 6020), HNO3 Cr (500 mL poly)	Total metals, Chromium (non-filter) (EPA 200.8), HNO3 (500 mL poly)	Turn Around Time	No. of Container	Container Type	PRESERVATION	Remarks
				1330																											
1	N044179-01	EB-784-Q121	2/15/2021	~~1330~~		X																					E	1	P	B	
2	-02	MW-69-195-Q121	2/15/2021	12:54		X						X		X					X								E	4	P	BNS	
3	-03	MW-900-Q121	2/15/2021	13:04		X						X		X					X								E	4	P	BNS	
4																											E	1	P	B	
5	-04	MW-70-105-0221	2/15/2021	13:16		X								X									X				E	3	P	BNS	
6																															
7	-05	MW-58BR-Q121	2/15/2021	13:57		X						X		X					X								E	4	P	BNS	
8																															
9																															
10																															
11																															
12																															

Reliquished by (Signature and Printed Name):	Date/Time:	Received by (Signature and Printed Name):	Date/Time:
Reggie Tap	2/15/21 1650		2/15/21 1650
	2/15/21 1900		2/15/21 1900

Turn Around Time (TAT)

- [ ] A < 24 Hrs or Same Day TAT
- [ ] B = Next Workday
- [ ] C = 2 Workdays
- [ ] D = 3 Workdays
- [X] E = Routine 5-7 Workdays

TAT Starts at 8 AM the following day if samples received after 3:00PM.

Special Instruction:
Tittle 22 Metals - Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Terms
1. All samples will be disposed in 45 days and records will be destroyed in 5 years upon submission of final report.
2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis
   Less than 24 Hrs.=200% Next Day=100% 2 Workdays=50% 3 Workdays=35 % 4 Workdays=20%
3. Custom EDD formats will be an additional 3% of the total project price.
4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total project price.
5. Trip Blanks and Equipment Blanks are billable sample.
6. Asset Laboratories is not responsible for samples collected using incorrect methodology.
7. Terms are net 30 days.
8. All reports are submitted in electronic format. Please inform ASSET Laboratories if hard copy of report is needed.
9. For subcontract analysis, TAT and Surcharges will vary.

Preservatives:

H=HCL	N=HNO_3	S=H_2SO_4	C=4°C
Z=$Zn(AC)_2$	O=NaOH	T=$Na_2S_2O_3$	
Others/Specify:	B	(NH4)2SO4/NH4OH	

Container Type:

T=Tube	V=VOA	P=Pint
J=Jar	B=Tedlar	G=Glass
M=Metal	M=Metal	C=Can

White=Laboratory Copy
Yellow=Customer's Copy

ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On:	2/15/2021	Workorder:	N044179
Rep sample Temp (Deg C):	3.6	IR Gun ID:	2
Temp Blank:	☑ Yes ☐ No		
Carrier name:	ASSET		
Last 4 digits of Tracking No.:	NA	Packing Material Used:	None
Cooling process:	☑ Ice ☐ Ice Pack ☐ Dry Ice ☐ Other ☐ None		

Sample Receipt Checklist

1. Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2. Custody seals intact, signed, dated on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4. Chain of custody present?	Yes ☑	No ☐	
5. Sampler's name present in COC?	Yes ☑	No ☐	
6. Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
7. Chain of custody agrees with sample labels?	Yes ☐	No ☑	
8. Samples in proper container/bottle?	Yes ☑	No ☐	
9. Sample containers intact?	Yes ☑	No ☐	
10. Sufficient sample volume for indicated test?	Yes ☑	No ☐	
11. All samples received within holding time?	Yes ☑	No ☐	
12. Temperature of rep sample or Temp Blank within acceptable limit?	Yes ☑	No ☐	NA ☐
13. Water - VOA vials have zero headspace?	Yes ☐	No ☐	NA ☑
14. Water - pH acceptable upon receipt? Example: pH > 12 for (CN,S); pH<2 for Metals	Yes ☑	No ☐	NA ☐
15. Did the bottle labels indicate correct preservatives used?	Yes ☑	No ☐	NA ☐
16. Were there Non-Conformance issues at login?	Yes ☑	No ☐	NA ☐
Was Client notified?	Yes ☑	No ☐	NA ☐

Comments: See Correspondence.

Checklist Completed By: BHN BHdez 2/16/2021

Reviewed By: MBC 02/16/2021

Subject: RE: PG&E Topock - GMP, 30035275 (ASSET Labs No. N044179)
From: "Madsen, Laura" <Laura.Madsen@arcadis.com>
Date: 2/16/2021, 10:30 AM
To: Yoandra Rodriguez <yoandra@assetlaboratories.com>
CC: Tina Rice <Tina.Rice@critigen.com>, "maryann.balilu@assetlaboratoriesph.com" <maryann.balilu@assetlaboratoriesph.com>

Please use the time 1315.

Thanks!
Laura

From: Yoandra Rodriguez <yoandra@assetlaboratories.com>
Sent: Tuesday, February 16, 2021 11:52 AM
To: Madsen, Laura <Laura.Madsen@arcadis.com>
Cc: Tina Rice <Tina.Rice@critigen.com>; maryann.balilu@assetlaboratoriesph.com
Subject: PG&E Topock - GMP, 30035275 (ASSET Labs No. N044179)

Hi Laura,

Please kindly advise on the following discrepancy for the attached COC:

- Sample 4 (MW-70-105-0221): Collection time is 1316 on COC and 1315 on labels.

--
Thanks,

Yoandra Rodriguez
Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | P: 702.307.2659 | F: 702.307.2691
California: 11110 Artesia Blvd., Ste. B, Cerritos, CA 90703 | P: 562.219.7435 | F: 562.219.7436

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ASSET Laboratories

WORK ORDER Summary

16-Feb-21

WorkOrder: N044179

Client ID: ARCUS02

Project: PG&E Topock - GMP, 30035275 **QC Level:** Level IV **Date Received:** 2/15/2021

Comments: Title 22 Metals Dissolved- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044179-001A	EB-784-Q121	2/15/2021 1:30:00 PM	2/25/2021	Groundwater	EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044179-002A	MW-69-195-Q121	2/15/2021 12:54:00 PM	2/25/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044179-002B			2/25/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N044179-002C			2/25/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044179-002D			2/25/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/25/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/25/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N044179-003A	MW-900-Q121	2/15/2021 1:04:00 PM	2/25/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044179-003B			2/25/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N044179-003C			2/25/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044179-003D			2/25/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/25/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/25/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N044179-004A	MW-70-105-0221	2/15/2021 1:15:00 PM	2/25/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044179-004B			2/25/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW
N044179-004C			2/25/2021		EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/25/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/25/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N044179-005A	MW-58BR-Q121	2/15/2021 1:57:00 PM	2/25/2021		EPA 218.6	Hexavalent Chromium by IC	☐	☐	☐	WW
N044179-005B			2/25/2021		EPA 120.1	SPECIFIC CONDUCTANCE	☐	☐	☐	LSR
N044179-005C			2/25/2021		SM4500-NO3F	NITRATE/NITRITE-N BY CADMIUM REDUCTION	☐	☐	☐	WW

ASSET Laboratories

WORK ORDER Summary

16-Feb-21

WorkOrder: N044179

Client ID: ARCUS02

Project: PG&E Topock - GMP, 30035275 **QC Level:** Level IV **Date Received:** 2/15/2021

Comments: Title 22 Metals Dissolved- Al, Sb, As, Ba, Be, B, Ca, Cd, Co, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn, K, Na

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N044179-005D	MW-58BR-Q121	2/15/2021 1:57:00 PM	2/25/2021	Groundwater	EPA 3010A	AQPREP TOTAL METALS: ICP, FLAA	☐	☐	☐	WW
			2/25/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
			2/25/2021		EPA 6020	DISSOLVED METALS BY ICP-MS	☐	☐	☐	WW
N044179-006A	FOLDER	3/1/2021	2/25/2021		EDD	Client specific project	☐	☐	☐	LAB
			2/25/2021		Folder	Level IV Report	☐	☐	☐	LAB
			2/25/2021		Folder	Folder	☐	☐	☐	LAB
			3/1/2021		Folder	Folder	☐	☐	☐	LAB