

# **APPENDIX A**

## **Laboratory Reports, 2020**

**For additional assistance with the information provided in the appendix, please contact Emily Sheu with Arcadis ([emily.sheu@arcadis.com](mailto:emily.sheu@arcadis.com)).**

October 19, 2020

Dan Bush  
ARCADIS U.S., Inc. - California  
1410 Rocky Ridge Dr #330  
Roseville, CA 95661  
TEL: (916) 786-3302  
FAX:

Workorder No.: N042435

RE: PG&E Topock - CMP, RC000753.801D

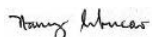
Attention: Dan Bush

Enclosed are the results for sample(s) received on October 02, 2020 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 Sibucan  
Laboratory Director

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ORELAP/NELAP Cert 4046

**CLIENT:** ARCADIS U.S., Inc. - California  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab Order:** N042435

**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.

**Subcontracted Analyses:**

Ammonia was subcontracted to BC Labs- Bakersfield,CA.

**Analytical Comments for EPA 200.7\_Dissolved:**

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Calcium and Sodium in QC samples N042435-001C-MS1, N042435-002C-MS2, and N042435-002C-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\_Dissolved:**

Because the results for total dissolved chromium (3.9 ug/L) and hexavalent chromium (0.53 ug/L) for sample N042435-001 (CW-04D-LF-Q420) 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 5.0 and 1.5 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 (4.8 ug/L) and hexavalent chromium (1.0 ug/L) for sample N042435-002 (CW-04M-LF-Q420) 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 4.4 and 2.4 ug/L, respectively. Since these data confirmed the original result for total dissolved chromium, the original result is reported.



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab Order:** N042435

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## CASE NARRATIVE

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N042435-001C-MS and N042435-001C-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.

### Analytical Comments for EPA 218.6:

Because the results for total dissolved chromium (3.9 ug/L) and hexavalent chromium (0.53 ug/L) for sample N042435-001 (CW-04D-LF-Q420) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (4.8 ug/L) and hexavalent chromium (1.0 ug/L) for sample N042435-002 (CW-04M-LF-Q420) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.



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**ASSET Laboratories**

Date: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab Order:** N042435

**Work Order Sample Summary****Contract No:**

| Lab Sample ID | Client Sample ID | Matrix      | Collection Date      | Date Received | Date Reported |
|---------------|------------------|-------------|----------------------|---------------|---------------|
| N042435-001A  | CW-04D-LF-Q420   | Groundwater | 10/2/2020 8:36:00 AM | 10/2/2020     | 10/19/2020    |
| N042435-001B  | CW-04D-LF-Q420   | Groundwater | 10/2/2020 8:36:00 AM | 10/2/2020     | 10/19/2020    |
| N042435-001C  | CW-04D-LF-Q420   | Groundwater | 10/2/2020 8:36:00 AM | 10/2/2020     | 10/19/2020    |
| N042435-001D  | CW-04D-LF-Q420   | Groundwater | 10/2/2020 8:36:00 AM | 10/2/2020     | 10/19/2020    |
| N042435-001E  | CW-04D-LF-Q420   | Groundwater | 10/2/2020 8:36:00 AM | 10/2/2020     | 10/19/2020    |
| N042435-001F  | CW-04D-LF-Q420   | Groundwater | 10/2/2020 8:36:00 AM | 10/2/2020     | 10/19/2020    |
| N042435-002A  | CW-04M-LF-Q420   | Groundwater | 10/2/2020 9:27:00 AM | 10/2/2020     | 10/19/2020    |
| N042435-002B  | CW-04M-LF-Q420   | Groundwater | 10/2/2020 9:27:00 AM | 10/2/2020     | 10/19/2020    |
| N042435-002C  | CW-04M-LF-Q420   | Groundwater | 10/2/2020 9:27:00 AM | 10/2/2020     | 10/19/2020    |
| N042435-002D  | CW-04M-LF-Q420   | Groundwater | 10/2/2020 9:27:00 AM | 10/2/2020     | 10/19/2020    |
| N042435-002E  | CW-04M-LF-Q420   | Groundwater | 10/2/2020 9:27:00 AM | 10/2/2020     | 10/19/2020    |
| N042435-002F  | CW-04M-LF-Q420   | Groundwater | 10/2/2020 9:27:00 AM | 10/2/2020     | 10/19/2020    |
| N042435-003A  | EB-702-Q420      | Groundwater | 10/2/2020 9:34:00 AM | 10/2/2020     | 10/19/2020    |



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**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-001

**Client Sample ID:** CW-04D-LF-Q420  
**Collection Date:** 10/2/2020 8:36:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**SPECIFIC CONDUCTANCE**
**EPA 120.1**

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201002H | QC Batch: R147751 |      |      | PrepDate: |   | Analyst: LR        |
| Specific Conductance      | 6900              | 0.10 | 0.10 | umhos/cm  | 1 | 10/2/2020 03:30 PM |

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



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# ANALYTICAL RESULTS

Print Date: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-002

**Client Sample ID:** CW-04M-LF-Q420  
**Collection Date:** 10/2/2020 9:27:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## SPECIFIC CONDUCTANCE

## EPA 120.1

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201002H | QC Batch: R147751 |      |      | PrepDate: |   | Analyst: LR        |
| Specific Conductance      | 6700              | 0.10 | 0.10 | umhos/cm  | 1 | 10/2/2020 03:30 PM |

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



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 120.1\_WPGE**

|                      |                        |           |                |           |                   |             |                 |                |                  |             |                    |
|----------------------|------------------------|-----------|----------------|-----------|-------------------|-------------|-----------------|----------------|------------------|-------------|--------------------|
| Sample ID            | <b>N042435-001DDUP</b> | SampType: | <b>DUP</b>     | TestCode: | <b>120.1_WPGE</b> | Units:      | <b>umhos/cm</b> | Prep Date:     |                  | RunNo:      | <b>147751</b>      |
| Client ID:           | <b>ZZZZZZ</b>          | Batch ID: | <b>R147751</b> | TestNo:   | <b>EPA 120.1</b>  |             |                 | Analysis Date: | <b>10/2/2020</b> | SeqNo:      | <b>3952607</b>     |
| Analyte              |                        | Result    |                | PQL       | SPK value         | SPK Ref Val | %REC            | LowLimit       | HighLimit        | RPD Ref Val | %RPD RPDLimit Qual |
| Specific Conductance |                        | 6910.000  |                | 0.10      |                   |             |                 |                |                  | 6880        | 0.435 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 |   |                                                              |

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**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-001

**Client Sample ID:** CW-04D-LF-Q420  
**Collection Date:** 10/2/2020 8:36:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**TOTAL FILTERABLE RESIDUE**
**SM2540C**

|                                              |                 |    |    |                     |                    |
|----------------------------------------------|-----------------|----|----|---------------------|--------------------|
| RunID: NV00922-WC_201002G                    | QC Batch: 82414 |    |    | PrepDate: 10/2/2020 | Analyst: LR        |
| Total Dissolved Solids (Residue, Filterable) | 4400            | 50 | 50 | mg/L                | 10/2/2020 03:30 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-002

**Client Sample ID:** CW-04M-LF-Q420  
**Collection Date:** 10/2/2020 9:27:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**TOTAL FILTERABLE RESIDUE**
**SM2540C**

|                                              |                 |    |    |                     |                    |
|----------------------------------------------|-----------------|----|----|---------------------|--------------------|
| RunID: NV00922-WC_201002G                    | QC Batch: 82414 |    |    | PrepDate: 10/2/2020 | Analyst: LR        |
| Total Dissolved Solids (Residue, Filterable) | 4500            | 50 | 50 | mg/L                | 10/2/2020 03:30 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 160.1\_2540C\_W**

|                                          |           |                 |                       |             |                          |                |           |             |      |          |      |
|------------------------------------------|-----------|-----------------|-----------------------|-------------|--------------------------|----------------|-----------|-------------|------|----------|------|
| Sample ID                                | LCS-82414 | SampType: LCS   | TestCode: 160.1_2540C | Units: mg/L | Prep Date: 10/2/2020     | RunNo: 147750  |           |             |      |          |      |
| Client ID:                               | LCSW      | Batch ID: 82414 | TestNo: SM2540C       |             | Analysis Date: 10/2/2020 | SeqNo: 3952595 |           |             |      |          |      |
| Analyte                                  | Result    | PQL             | SPK value             | SPK Ref Val | %REC                     | LowLimit       | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera |           | 973.000         | 10                    | 1000        | 0                        | 97.3           | 80        | 120         |      |          |      |

|                                          |          |                 |                       |             |                          |                |           |             |      |          |      |
|------------------------------------------|----------|-----------------|-----------------------|-------------|--------------------------|----------------|-----------|-------------|------|----------|------|
| Sample ID                                | MB-82414 | SampType: MBLK  | TestCode: 160.1_2540C | Units: mg/L | Prep Date: 10/2/2020     | RunNo: 147750  |           |             |      |          |      |
| Client ID:                               | PBW      | Batch ID: 82414 | TestNo: SM2540C       |             | Analysis Date: 10/2/2020 | SeqNo: 3952596 |           |             |      |          |      |
| 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                                | N042429-001BDUP | SampType: DUP   | TestCode: 160.1_2540C | Units: mg/L | Prep Date: 10/2/2020     | RunNo: 147750  |           |             |      |          |      |
| Client ID:                               | ZZZZZZ          | Batch ID: 82414 | TestNo: SM2540C       |             | Analysis Date: 10/2/2020 | SeqNo: 3952603 |           |             |      |          |      |
| Analyte                                  | Result          | PQL             | SPK value             | SPK Ref Val | %REC                     | LowLimit       | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera |                 | 6715.000        | 50                    |             |                          |                |           | 6845        | 1.92 | 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 |                                      |   |                                                              |

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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-001

**Client Sample ID:** CW-04D-LF-Q420  
**Collection Date:** 10/2/2020 8:36:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICP**
**EPA 200.7**

| RunID: NV00922-ICP2_201010A | QC Batch: 82426 | PrepDate: 10/5/2020 | Analyst: DJ |      |     |                     |
|-----------------------------|-----------------|---------------------|-------------|------|-----|---------------------|
| Aluminum                    | ND              | 40                  | 50          | µg/L | 1   | 10/10/2020 07:44 AM |
| Boron                       | 1200            | 74                  | 100         | µg/L | 1   | 10/10/2020 07:44 AM |
| Calcium                     | 100000          | 85                  | 500         | µg/L | 1   | 10/10/2020 07:44 AM |
| Iron                        | 58              | 18                  | 20          | µg/L | 1   | 10/10/2020 07:44 AM |
| Magnesium                   | 11000           | 48                  | 100         | µg/L | 1   | 10/10/2020 07:44 AM |
| Potassium                   | 11000           | 850                 | 5000        | µg/L | 10  | 10/11/2020 09:54 AM |
| Sodium                      | 1500000         | 9600                | 50000       | µg/L | 100 | 10/11/2020 09:59 AM |

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



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-002

**Client Sample ID:** CW-04M-LF-Q420  
**Collection Date:** 10/2/2020 9:27:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICP**
**EPA 200.7**

| RunID: NV00922-ICP2_201010A | QC Batch: 82426 | PrepDate: 10/5/2020 | Analyst: DJ |      |     |                     |
|-----------------------------|-----------------|---------------------|-------------|------|-----|---------------------|
| Aluminum                    | ND              | 40                  | 50          | µg/L | 1   | 10/10/2020 08:11 AM |
| Boron                       | 1200            | 74                  | 100         | µg/L | 1   | 10/10/2020 08:11 AM |
| Calcium                     | 150000          | 85                  | 500         | µg/L | 1   | 10/10/2020 08:11 AM |
| Iron                        | 60              | 18                  | 20          | µg/L | 1   | 10/10/2020 08:11 AM |
| Magnesium                   | 16000           | 48                  | 100         | µg/L | 1   | 10/10/2020 08:11 AM |
| Potassium                   | 13000           | 850                 | 5000        | µg/L | 10  | 10/11/2020 09:09 AM |
| Sodium                      | 1400000         | 9600                | 50000       | µg/L | 100 | 10/11/2020 09:17 AM |

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



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“Serving Clients with Passion and Professionalism”

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 200.7\_WDPGEPPB**

|            |          |           |       |           |            |             |      |                |            |             |         |          |      |
|------------|----------|-----------|-------|-----------|------------|-------------|------|----------------|------------|-------------|---------|----------|------|
| Sample ID  | MB-82426 | SampType: | MBLK  | TestCode: | 200.7_WDPG | Units:      | µg/L | Prep Date:     | 10/5/2020  | RunNo:      | 147925  |          |      |
| Client ID: | PBW      | Batch ID: | 82426 | TestNo:   | EPA 200.7  |             |      | Analysis Date: | 10/10/2020 | SeqNo:      | 3963043 |          |      |
| Analyte    |          | Result    |       | PQL       | SPK value  | SPK Ref Val | %REC | LowLimit       | HighLimit  | RPD Ref Val | %RPD    | RPDLimit | Qual |

Aluminum  
Boron  
Calcium  
Iron  
Magnesium

ND  
ND  
ND  
ND  
ND

50  
100  
500  
20  
100

|            |            |           |       |           |            |             |      |                |            |             |         |          |      |
|------------|------------|-----------|-------|-----------|------------|-------------|------|----------------|------------|-------------|---------|----------|------|
| Sample ID  | LCS1-82426 | SampType: | LCS   | TestCode: | 200.7_WDPG | Units:      | µg/L | Prep Date:     | 10/5/2020  | RunNo:      | 147925  |          |      |
| Client ID: | LCSW       | Batch ID: | 82426 | TestNo:   | EPA 200.7  |             |      | Analysis Date: | 10/10/2020 | SeqNo:      | 3963044 |          |      |
| Analyte    |            | Result    |       | PQL       | SPK value  | SPK Ref Val | %REC | LowLimit       | HighLimit  | RPD Ref Val | %RPD    | RPDLimit | Qual |

Aluminum  
Boron  
Calcium  
Iron  
Magnesium

10154.205  
4977.606  
9972.597  
95.756  
10893.500

50  
100  
500  
20  
100

10000  
5000  
10000  
100.0  
10000

0  
0  
0  
0  
0

102  
99.6  
99.7  
95.8  
109

85  
85  
85  
85  
85

115  
115  
115  
115  
115

|            |                  |                 |                      |             |                           |                |           |             |      |          |      |
|------------|------------------|-----------------|----------------------|-------------|---------------------------|----------------|-----------|-------------|------|----------|------|
| Sample ID  | N042435-001C-MS1 | SampType: MS    | TestCode: 200.7_WDPG | Units: µg/L | Prep Date: 10/5/2020      | RunNo: 147925  |           |             |      |          |      |
| Client ID: | ZZZZZZ           | Batch ID: 82426 | TestNo: EPA 200.7    |             | Analysis Date: 10/10/2020 | SeqNo: 3963048 |           |             |      |          |      |
| Analyte    | Result           | PQL             | SPK value            | SPK Ref Val | %REC                      | LowLimit       | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Aluminum  
Boron  
Calcium  
Iron  
Magnesium

9923.499  
6501.937  
108147.894  
138.025  
21740.675

50  
100  
500  
20  
100

10000  
5000  
10000  
100.0  
10000

0  
1162  
100800  
57.63  
10640

99.2  
107  
73.3  
80.4  
111

75  
75  
75  
75  
75

125  
125  
125  
125  
125

S

**Qualifiers:**

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



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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.7\_WDPGEPPB

|            |                  |                 |                      |                           |                      |               |           |             |       |          |      |
|------------|------------------|-----------------|----------------------|---------------------------|----------------------|---------------|-----------|-------------|-------|----------|------|
| Sample ID  | N042435-001C-MSD | SampType: MSD   | TestCode: 200.7_WDPG | Units: µg/L               | Prep Date: 10/5/2020 | RunNo: 147925 |           |             |       |          |      |
| Client ID: | ZZZZZZ           | Batch ID: 82426 | TestNo: EPA 200.7    | Analysis Date: 10/10/2020 | SeqNo: 3963049       |               |           |             |       |          |      |
| Analyte    | Result           | PQL             | SPK value            | SPK Ref Val               | %REC                 | LowLimit      | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Aluminum   | 9941.421         | 50              | 10000                | 0                         | 99.4                 | 75            | 125       | 9923        | 0.180 | 20       |      |
| Boron      | 6487.640         | 100             | 5000                 | 1162                      | 107                  | 75            | 125       | 6502        | 0.220 | 20       |      |
| Calcium    | 109164.183       | 500             | 10000                | 100800                    | 83.5                 | 75            | 125       | 108100      | 0.935 | 20       |      |
| Iron       | 135.415          | 20              | 100.0                | 57.63                     | 77.8                 | 75            | 125       | 138.0       | 1.91  | 20       |      |
| Magnesium  | 21776.157        | 100             | 10000                | 10640                     | 111                  | 75            | 125       | 21740       | 0.163 | 20       |      |

|            |          |                 |                      |                           |                      |               |           |             |      |          |      |
|------------|----------|-----------------|----------------------|---------------------------|----------------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | MB-82426 | SampType: MBLK  | TestCode: 200.7_WDPG | Units: µg/L               | Prep Date: 10/5/2020 | RunNo: 147938 |           |             |      |          |      |
| Client ID: | PBW      | Batch ID: 82426 | TestNo: EPA 200.7    | Analysis Date: 10/11/2020 | SeqNo: 3963917       |               |           |             |      |          |      |
| Analyte    | Result   | PQL             | SPK value            | SPK Ref Val               | %REC                 | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Potassium  | ND       | 500             |                      |                           |                      |               |           |             |      |          |      |
| Sodium     | ND       | 500             |                      |                           |                      |               |           |             |      |          |      |

|            |            |                 |                      |                           |                      |               |           |             |      |          |      |
|------------|------------|-----------------|----------------------|---------------------------|----------------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | LCS2-82426 | SampType: LCS   | TestCode: 200.7_WDPG | Units: µg/L               | Prep Date: 10/5/2020 | RunNo: 147938 |           |             |      |          |      |
| Client ID: | LCSW       | Batch ID: 82426 | TestNo: EPA 200.7    | Analysis Date: 10/11/2020 | SeqNo: 3963918       |               |           |             |      |          |      |
| Analyte    | Result     | PQL             | SPK value            | SPK Ref Val               | %REC                 | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Potassium  | 20541.268  | 500             | 20000                | 0                         | 103                  | 85            | 115       |             |      |          |      |
| Sodium     | 20150.753  | 500             | 20000                | 0                         | 101                  | 85            | 115       |             |      |          |      |

|            |                  |                 |                      |                           |                      |               |           |             |      |          |      |
|------------|------------------|-----------------|----------------------|---------------------------|----------------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042435-002C-MS2 | SampType: MS    | TestCode: 200.7_WDPG | Units: µg/L               | Prep Date: 10/5/2020 | RunNo: 147938 |           |             |      |          |      |
| Client ID: | ZZZZZZ           | Batch ID: 82426 | TestNo: EPA 200.7    | Analysis Date: 10/11/2020 | SeqNo: 3963927       |               |           |             |      |          |      |
| Analyte    | Result           | PQL             | SPK value            | SPK Ref Val               | %REC                 | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Potassium  | 36560.276        | 5000            | 20000                | 12740                     | 119                  | 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 |                                      |   |                                                              |



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.7\_WDPGEPPB

|            |                  |                 |                      |                           |                      |               |           |             |      |          |      |
|------------|------------------|-----------------|----------------------|---------------------------|----------------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042435-002C-MS2 | SampType: MS    | TestCode: 200.7_WDPG | Units: µg/L               | Prep Date: 10/5/2020 | RunNo: 147938 |           |             |      |          |      |
| Client ID: | ZZZZZZ           | Batch ID: 82426 | TestNo: EPA 200.7    | Analysis Date: 10/11/2020 | SeqNo: 3963928       |               |           |             |      |          |      |
| Analyte    | Result           | PQL             | SPK value            | SPK Ref Val               | %REC                 | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Sodium     | 1296484.227      | 50000           | 20000                | 1376000                   | -400                 | 75            | 125       |             |      |          | S    |

|            |                  |                 |                      |                           |                      |               |           |             |      |          |      |
|------------|------------------|-----------------|----------------------|---------------------------|----------------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042435-002C-MSD | SampType: MSD   | TestCode: 200.7_WDPG | Units: µg/L               | Prep Date: 10/5/2020 | RunNo: 147938 |           |             |      |          |      |
| Client ID: | ZZZZZZ           | Batch ID: 82426 | TestNo: EPA 200.7    | Analysis Date: 10/11/2020 | SeqNo: 3963929       |               |           |             |      |          |      |
| Analyte    | Result           | PQL             | SPK value            | SPK Ref Val               | %REC                 | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Potassium  | 36165.907        | 5000            | 20000                | 12740                     | 117                  | 75            | 125       | 36560       | 1.08 | 20       |      |

|            |                  |                 |                      |                           |                      |               |           |             |          |          |      |
|------------|------------------|-----------------|----------------------|---------------------------|----------------------|---------------|-----------|-------------|----------|----------|------|
| Sample ID  | N042435-002C-MSD | SampType: MSD   | TestCode: 200.7_WDPG | Units: µg/L               | Prep Date: 10/5/2020 | RunNo: 147938 |           |             |          |          |      |
| Client ID: | ZZZZZZ           | Batch ID: 82426 | TestNo: EPA 200.7    | Analysis Date: 10/11/2020 | SeqNo: 3963930       |               |           |             |          |          |      |
| Analyte    | Result           | PQL             | SPK value            | SPK Ref Val               | %REC                 | LowLimit      | HighLimit | RPD Ref Val | %RPD     | RPDLimit | Qual |
| Sodium     | 1296493.298      | 50000           | 20000                | 1376000                   | -400                 | 75            | 125       | 1296000     | 0.000700 | 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 |   |                                                              |



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 200.7\_WDPGEPPB**

|            |                        |           |              |             |                   |          |             |                |                   |          |                |
|------------|------------------------|-----------|--------------|-------------|-------------------|----------|-------------|----------------|-------------------|----------|----------------|
| Sample ID  | <b>N042435-001C-PS</b> | SampType: | <b>PS</b>    | TestCode:   | <b>200.7_WDPG</b> | Units:   | <b>µg/L</b> | Prep Date:     |                   | RunNo:   | <b>147925</b>  |
| Client ID: | <b>ZZZZZZ</b>          | Batch ID: | <b>82426</b> | TestNo:     | <b>EPA 200.7</b>  |          |             | Analysis Date: | <b>10/10/2020</b> | SeqNo:   | <b>3963047</b> |
| Analyte    | Result                 | PQL       | SPK value    | SPK Ref Val | %REC              | LowLimit | HighLimit   | RPD Ref Val    | %RPD              | RPDLimit | Qual           |

|           |            |     |       |        |      |    |     |  |  |  |   |
|-----------|------------|-----|-------|--------|------|----|-----|--|--|--|---|
| Aluminum  | 9760.949   | 50  | 10000 | 0      | 97.6 | 80 | 120 |  |  |  |   |
| Boron     | 6449.050   | 100 | 5000  | 1162   | 106  | 80 | 120 |  |  |  |   |
| Calcium   | 105425.746 | 500 | 10000 | 100800 | 46.1 | 80 | 120 |  |  |  | S |
| Iron      | 132.654    | 20  | 100.0 | 57.63  | 75.0 | 80 | 120 |  |  |  | S |
| Magnesium | 21520.796  | 100 | 10000 | 10640  | 109  | 80 | 120 |  |  |  |   |

|            |                        |           |              |             |                   |          |             |                |                   |          |                |
|------------|------------------------|-----------|--------------|-------------|-------------------|----------|-------------|----------------|-------------------|----------|----------------|
| Sample ID  | <b>N042435-002C-PS</b> | SampType: | <b>PS</b>    | TestCode:   | <b>200.7_WDPG</b> | Units:   | <b>µg/L</b> | Prep Date:     |                   | RunNo:   | <b>147938</b>  |
| Client ID: | <b>ZZZZZZ</b>          | Batch ID: | <b>82426</b> | TestNo:     | <b>EPA 200.7</b>  |          |             | Analysis Date: | <b>10/11/2020</b> | SeqNo:   | <b>3963923</b> |
| Analyte    | Result                 | PQL       | SPK value    | SPK Ref Val | %REC              | LowLimit | HighLimit   | RPD Ref Val    | %RPD              | RPDLimit | Qual           |

|           |           |      |       |       |     |    |     |  |  |  |  |
|-----------|-----------|------|-------|-------|-----|----|-----|--|--|--|--|
| Potassium | 35794.218 | 5000 | 20000 | 12740 | 115 | 80 | 120 |  |  |  |  |
|-----------|-----------|------|-------|-------|-----|----|-----|--|--|--|--|

|            |                        |           |              |             |                   |          |             |                |                   |          |                |
|------------|------------------------|-----------|--------------|-------------|-------------------|----------|-------------|----------------|-------------------|----------|----------------|
| Sample ID  | <b>N042435-002C-PS</b> | SampType: | <b>PS</b>    | TestCode:   | <b>200.7_WDPG</b> | Units:   | <b>µg/L</b> | Prep Date:     |                   | RunNo:   | <b>147938</b>  |
| Client ID: | <b>ZZZZZZ</b>          | Batch ID: | <b>82426</b> | TestNo:     | <b>EPA 200.7</b>  |          |             | Analysis Date: | <b>10/11/2020</b> | SeqNo:   | <b>3963924</b> |
| Analyte    | Result                 | PQL       | SPK value    | SPK Ref Val | %REC              | LowLimit | HighLimit   | RPD Ref Val    | %RPD              | RPDLimit | Qual           |

|        |             |       |       |         |      |    |     |  |  |  |   |
|--------|-------------|-------|-------|---------|------|----|-----|--|--|--|---|
| Sodium | 1379030.538 | 50000 | 20000 | 1376000 | 13.2 | 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 |                                      |   |                                                              |



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-001

**Client Sample ID:** CW-04D-LF-Q420  
**Collection Date:** 10/2/2020 8:36:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICPMS**
**EPA 200.8**

| RunID: NV00922-ICP8_201005B | QC Batch: 82423 | PrepDate: 10/5/2020 | Analyst: CEI |      |   |                     |
|-----------------------------|-----------------|---------------------|--------------|------|---|---------------------|
| Antimony                    | ND              | 0.16                | 0.50         | µg/L | 1 | 10/6/2020 01:48 AM  |
| Arsenic                     | ND              | 0.081               | 0.10         | µg/L | 1 | 10/8/2020 03:56 PM  |
| Barium                      | 23              | 0.15                | 1.0          | µg/L | 1 | 10/6/2020 01:48 AM  |
| Beryllium                   | ND              | 0.042               | 0.50         | µg/L | 1 | 10/6/2020 01:48 AM  |
| Cadmium                     | ND              | 0.053               | 0.50         | µg/L | 1 | 10/6/2020 01:48 AM  |
| Cobalt                      | ND              | 0.042               | 0.50         | µg/L | 1 | 10/6/2020 01:48 AM  |
| Copper                      | ND              | 0.55                | 1.0          | µg/L | 1 | 10/15/2020 04:43 PM |
| Lead                        | ND              | 0.13                | 1.0          | µg/L | 1 | 10/6/2020 01:48 AM  |
| Manganese                   | 1.6             | 0.26                | 0.50         | µg/L | 1 | 10/6/2020 01:48 AM  |
| Molybdenum                  | 21              | 0.21                | 0.50         | µg/L | 1 | 10/8/2020 03:56 PM  |
| Nickel                      | ND              | 0.26                | 1.0          | µg/L | 1 | 10/6/2020 01:48 AM  |
| Selenium                    | 3.6             | 0.36                | 0.50         | µg/L | 1 | 10/8/2020 03:56 PM  |
| Silver                      | ND              | 0.23                | 0.50         | µg/L | 1 | 10/6/2020 01:48 AM  |
| Thallium                    | ND              | 0.19                | 0.50         | µg/L | 1 | 10/6/2020 01:48 AM  |
| Vanadium                    | 3.0             | 0.28                | 1.0          | µg/L | 1 | 10/6/2020 01:48 AM  |
| Zinc                        | ND              | 2.3                 | 10           | µg/L | 1 | 10/6/2020 01:48 AM  |

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



**ASSET LABORATORIES**  
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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-002

**Client Sample ID:** CW-04M-LF-Q420  
**Collection Date:** 10/2/2020 9:27:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICPMS**
**EPA 200.8**

| RunID: NV00922-ICP8_201005B | QC Batch: 82423 | PrepDate: 10/5/2020 | Analyst: CEI |      |   |                     |
|-----------------------------|-----------------|---------------------|--------------|------|---|---------------------|
| Antimony                    | ND              | 0.16                | 0.50         | µg/L | 1 | 10/6/2020 02:38 AM  |
| Arsenic                     | ND              | 0.081               | 0.10         | µg/L | 1 | 10/8/2020 04:19 PM  |
| Barium                      | 100             | 0.15                | 1.0          | µg/L | 1 | 10/6/2020 02:38 AM  |
| Beryllium                   | ND              | 0.042               | 0.50         | µg/L | 1 | 10/6/2020 02:38 AM  |
| Cadmium                     | ND              | 0.053               | 0.50         | µg/L | 1 | 10/6/2020 02:38 AM  |
| Cobalt                      | ND              | 0.042               | 0.50         | µg/L | 1 | 10/6/2020 02:38 AM  |
| Copper                      | ND              | 0.55                | 1.0          | µg/L | 1 | 10/15/2020 05:16 PM |
| Lead                        | ND              | 0.13                | 1.0          | µg/L | 1 | 10/6/2020 02:38 AM  |
| Manganese                   | 2.2             | 0.26                | 0.50         | µg/L | 1 | 10/6/2020 02:38 AM  |
| Molybdenum                  | 12              | 0.21                | 0.50         | µg/L | 1 | 10/8/2020 04:19 PM  |
| Nickel                      | ND              | 0.26                | 1.0          | µg/L | 1 | 10/6/2020 02:38 AM  |
| Selenium                    | 5.9             | 0.36                | 0.50         | µg/L | 1 | 10/8/2020 04:19 PM  |
| Silver                      | ND              | 0.23                | 0.50         | µg/L | 1 | 10/6/2020 02:38 AM  |
| Thallium                    | ND              | 0.19                | 0.50         | µg/L | 1 | 10/6/2020 02:38 AM  |
| Vanadium                    | 3.6             | 0.28                | 1.0          | µg/L | 1 | 10/6/2020 02:38 AM  |
| Zinc                        | ND              | 2.3                 | 10           | µg/L | 1 | 10/6/2020 02:38 AM  |

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



**ASSET LABORATORIES**  
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

**CALIFORNIA** | P:562.219.7435 F:562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

**NEVADA** | P:702.307.2659 F:702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

“Serving Clients with Passion and Professionalism”

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 200.8\_WDISS\_TPK**

|            |          |                 |                       |           |             |             |                          |           |             |                |          |      |
|------------|----------|-----------------|-----------------------|-----------|-------------|-------------|--------------------------|-----------|-------------|----------------|----------|------|
| Sample ID  | MB-82423 | SampType: MBLK  | TestCode: 200.8_WDISS |           |             | Units: µg/L | Prep Date: 10/5/2020     |           |             | RunNo: 147861  |          |      |
| Client ID: | PBW      | Batch ID: 82423 | TestNo: EPA 200.8     |           |             |             | Analysis Date: 10/6/2020 |           |             | SeqNo: 3959404 |          |      |
| Analyte    |          | Result          | PQL                   | SPK value | SPK Ref Val | %REC        | LowLimit                 | HighLimit | RPD Ref Val | %RPD           | RPDLimit | Qual |
| Antimony   |          | ND              | 0.50                  |           |             |             |                          |           |             |                |          |      |
| Barium     |          | ND              | 1.0                   |           |             |             |                          |           |             |                |          |      |
| Beryllium  |          | ND              | 0.50                  |           |             |             |                          |           |             |                |          |      |
| Cadmium    |          | ND              | 0.50                  |           |             |             |                          |           |             |                |          |      |
| Cobalt     |          | ND              | 0.50                  |           |             |             |                          |           |             |                |          |      |
| Lead       |          | ND              | 1.0                   |           |             |             |                          |           |             |                |          |      |
| Manganese  |          | ND              | 0.50                  |           |             |             |                          |           |             |                |          |      |
| Nickel     |          | ND              | 1.0                   |           |             |             |                          |           |             |                |          |      |
| Silver     |          | ND              | 0.50                  |           |             |             |                          |           |             |                |          |      |
| Thallium   |          | ND              | 0.50                  |           |             |             |                          |           |             |                |          |      |
| Vanadium   |          | ND              | 1.0                   |           |             |             |                          |           |             |                |          |      |
| Zinc       |          | ND              | 10                    |           |             |             |                          |           |             |                |          |      |

|            |           |                 |                                   |             |      |                          |           |             |                |          |      |
|------------|-----------|-----------------|-----------------------------------|-------------|------|--------------------------|-----------|-------------|----------------|----------|------|
| Sample ID  | LCS-82423 | SampType: LCS   | TestCode: 200.8_WDISS Units: µg/L |             |      | Prep Date: 10/5/2020     |           |             | RunNo: 147861  |          |      |
| Client ID: | LCSW      | Batch ID: 82423 | TestNo: EPA 200.8                 |             |      | Analysis Date: 10/6/2020 |           |             | SeqNo: 3959405 |          |      |
| Analyte    | Result    | PQL             | SPK value                         | SPK Ref Val | %REC | LowLimit                 | HighLimit | RPD Ref Val | %RPD           | RPDLimit | Qual |
| Antimony   | 10.647    | 0.50            | 10.00                             | 0           | 106  | 85                       | 115       |             |                |          |      |
| Barium     | 10.373    | 1.0             | 10.00                             | 0           | 104  | 85                       | 115       |             |                |          |      |
| Beryllium  | 9.909     | 0.50            | 10.00                             | 0           | 99.1 | 85                       | 115       |             |                |          |      |
| Cadmium    | 10.155    | 0.50            | 10.00                             | 0           | 102  | 85                       | 115       |             |                |          |      |
| Cobalt     | 9.571     | 0.50            | 10.00                             | 0           | 95.7 | 85                       | 115       |             |                |          |      |
| Lead       | 10.485    | 1.0             | 10.00                             | 0           | 105  | 85                       | 115       |             |                |          |      |
| Manganese  | 98.036    | 0.50            | 100.0                             | 0           | 98.0 | 85                       | 115       |             |                |          |      |
| Nickel     | 9.816     | 1.0             | 10.00                             | 0           | 98.2 | 85                       | 115       |             |                |          |      |
| Silver     | 10.693    | 0.50            | 10.00                             | 0           | 107  | 85                       | 115       |             |                |          |      |
| Thallium   | 10.256    | 0.50            | 10.00                             | 0           | 103  | 85                       | 115       |             |                |          |      |
| Vanadium   | 9.766     | 1.0             | 10.00                             | 0           | 97.7 | 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



**ASSET LABORATORIES**  
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL, INDUSTRIAL, AND FOODS

**CALIFORNIA** | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
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 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.8\_WDISS\_TPK

|            |                  |           |              |             |                    |          |             |                |                  |          |                |
|------------|------------------|-----------|--------------|-------------|--------------------|----------|-------------|----------------|------------------|----------|----------------|
| Sample ID  | <b>LCS-82423</b> | SampType: | <b>LCS</b>   | TestCode:   | <b>200.8_WDISS</b> | Units:   | <b>µg/L</b> | Prep Date:     | <b>10/5/2020</b> | RunNo:   | <b>147861</b>  |
| Client ID: | <b>LCSW</b>      | Batch ID: | <b>82423</b> | TestNo:     | <b>EPA 200.8</b>   |          |             | Analysis Date: | <b>10/6/2020</b> | SeqNo:   | <b>3959405</b> |
| Analyte    | Result           | PQL       | SPK value    | SPK Ref Val | %REC               | LowLimit | HighLimit   | RPD Ref Val    | %RPD             | RPDLimit | Qual           |

|      |        |    |       |   |     |    |     |  |  |  |  |
|------|--------|----|-------|---|-----|----|-----|--|--|--|--|
| Zinc | 10.118 | 10 | 10.00 | 0 | 101 | 85 | 115 |  |  |  |  |
|------|--------|----|-------|---|-----|----|-----|--|--|--|--|

|            |                        |           |              |             |                    |          |             |                |                  |          |                |
|------------|------------------------|-----------|--------------|-------------|--------------------|----------|-------------|----------------|------------------|----------|----------------|
| Sample ID  | <b>N042435-001C-MS</b> | SampType: | <b>MS</b>    | TestCode:   | <b>200.8_WDISS</b> | Units:   | <b>µg/L</b> | Prep Date:     | <b>10/5/2020</b> | RunNo:   | <b>147861</b>  |
| Client ID: | <b>ZZZZZZ</b>          | Batch ID: | <b>82423</b> | TestNo:     | <b>EPA 200.8</b>   |          |             | Analysis Date: | <b>10/6/2020</b> | SeqNo:   | <b>3959415</b> |
| Analyte    | Result                 | PQL       | SPK value    | SPK Ref Val | %REC               | LowLimit | HighLimit   | RPD Ref Val    | %RPD             | RPDLimit | Qual           |

|           |        |      |       |         |      |    |     |  |  |  |   |
|-----------|--------|------|-------|---------|------|----|-----|--|--|--|---|
| Antimony  | 11.065 | 0.50 | 10.00 | 0       | 111  | 75 | 125 |  |  |  |   |
| Barium    | 32.592 | 1.0  | 10.00 | 22.74   | 98.5 | 75 | 125 |  |  |  |   |
| Beryllium | 6.934  | 0.50 | 10.00 | 0       | 69.3 | 75 | 125 |  |  |  | S |
| Cadmium   | 10.424 | 0.50 | 10.00 | 0.05371 | 104  | 75 | 125 |  |  |  |   |
| Cobalt    | 8.804  | 0.50 | 10.00 | 0.1009  | 87.0 | 75 | 125 |  |  |  |   |
| Lead      | 10.751 | 1.0  | 10.00 | 0       | 108  | 75 | 125 |  |  |  |   |
| Manganese | 96.252 | 0.50 | 100.0 | 1.633   | 94.6 | 75 | 125 |  |  |  |   |
| Nickel    | ND     | 1.0  | 10.00 | 0       | 0    | 75 | 125 |  |  |  | S |
| Silver    | 8.664  | 0.50 | 10.00 | 0       | 86.6 | 75 | 125 |  |  |  |   |
| Thallium  | 8.295  | 0.50 | 10.00 | 0       | 83.0 | 75 | 125 |  |  |  |   |
| Vanadium  | 12.821 | 1.0  | 10.00 | 3.027   | 97.9 | 75 | 125 |  |  |  |   |
| Zinc      | 4.340  | 10   | 10.00 | 0       | 43.4 | 75 | 125 |  |  |  | S |

|            |                         |           |              |             |                    |          |             |                |                  |          |                |
|------------|-------------------------|-----------|--------------|-------------|--------------------|----------|-------------|----------------|------------------|----------|----------------|
| Sample ID  | <b>N042435-001C-MSD</b> | SampType: | <b>MSD</b>   | TestCode:   | <b>200.8_WDISS</b> | Units:   | <b>µg/L</b> | Prep Date:     | <b>10/5/2020</b> | RunNo:   | <b>147861</b>  |
| Client ID: | <b>ZZZZZZ</b>           | Batch ID: | <b>82423</b> | TestNo:     | <b>EPA 200.8</b>   |          |             | Analysis Date: | <b>10/6/2020</b> | SeqNo:   | <b>3959417</b> |
| Analyte    | Result                  | PQL       | SPK value    | SPK Ref Val | %REC               | LowLimit | HighLimit   | RPD Ref Val    | %RPD             | RPDLimit | Qual           |

|           |        |      |       |         |      |    |     |       |       |    |   |
|-----------|--------|------|-------|---------|------|----|-----|-------|-------|----|---|
| Antimony  | 11.020 | 0.50 | 10.00 | 0       | 110  | 75 | 125 | 11.07 | 0.408 | 20 |   |
| Barium    | 32.533 | 1.0  | 10.00 | 22.74   | 97.9 | 75 | 125 | 32.59 | 0.181 | 20 |   |
| Beryllium | 6.873  | 0.50 | 10.00 | 0       | 68.7 | 75 | 125 | 6.934 | 0.884 | 20 | S |
| Cadmium   | 10.075 | 0.50 | 10.00 | 0.05371 | 100  | 75 | 125 | 10.42 | 3.40  | 20 |   |
| Cobalt    | 8.735  | 0.50 | 10.00 | 0.1009  | 86.3 | 75 | 125 | 8.804 | 0.781 | 20 |   |
| Lead      | 10.997 | 1.0  | 10.00 | 0       | 110  | 75 | 125 | 10.75 | 2.26  | 20 |   |
| Manganese | 95.079 | 0.50 | 100.0 | 1.633   | 93.4 | 75 | 125 | 96.25 | 1.23  | 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:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.8\_WDISS\_TPK

|            |                  |                 |                       |             |      |                          |                      |             |                |               |      |  |
|------------|------------------|-----------------|-----------------------|-------------|------|--------------------------|----------------------|-------------|----------------|---------------|------|--|
| Sample ID  | N042435-001C-MSD | SampType: MSD   | TestCode: 200.8_WDISS |             |      | Units: µg/L              | Prep Date: 10/5/2020 |             |                | RunNo: 147861 |      |  |
| Client ID: | ZZZZZZ           | Batch ID: 82423 | TestNo: EPA 200.8     |             |      | Analysis Date: 10/6/2020 |                      |             | SeqNo: 3959417 |               |      |  |
| Analyte    | Result           | PQL             | SPK value             | SPK Ref Val | %REC | LowLimit                 | HighLimit            | RPD Ref Val | %RPD           | RPDLimit      | Qual |  |
| Nickel     | ND               | 1.0             | 10.00                 | 0           | 0    | 75                       | 125                  | 0           | 0              | 20            | S    |  |
| Silver     | 8.592            | 0.50            | 10.00                 | 0           | 85.9 | 75                       | 125                  | 8.664       | 0.831          | 20            |      |  |
| Thallium   | 8.324            | 0.50            | 10.00                 | 0           | 83.2 | 75                       | 125                  | 8.295       | 0.343          | 20            |      |  |
| Vanadium   | 12.710           | 1.0             | 10.00                 | 3.027       | 96.8 | 75                       | 125                  | 12.82       | 0.867          | 20            |      |  |
| Zinc       | 4.174            | 10              | 10.00                 | 0           | 41.7 | 75                       | 125                  | 4.340       | 0              | 20            | S    |  |

|            |          |                 |                       |                          |                      |               |           |             |      |          |      |
|------------|----------|-----------------|-----------------------|--------------------------|----------------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | MB-82423 | SampType: MBLK  | TestCode: 200.8_WDISS | Units: µg/L              | Prep Date: 10/5/2020 | RunNo: 147979 |           |             |      |          |      |
| Client ID: | PBW      | Batch ID: 82423 | TestNo: EPA 200.8     | Analysis Date: 10/8/2020 | SeqNo: 3968308       |               |           |             |      |          |      |
| Analyte    | Result   | PQL             | SPK value             | SPK Ref Val              | %REC                 | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic    | ND       | 0.10            |                       |                          |                      |               |           |             |      |          |      |
| Molybdenum | ND       | 0.50            |                       |                          |                      |               |           |             |      |          |      |
| Selenium   | ND       | 0.50            |                       |                          |                      |               |           |             |      |          |      |

|            |           |                 |                       |                          |                      |               |           |             |      |          |      |
|------------|-----------|-----------------|-----------------------|--------------------------|----------------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | LCS-82423 | SampType: LCS   | TestCode: 200.8_WDISS | Units: µg/L              | Prep Date: 10/5/2020 | RunNo: 147979 |           |             |      |          |      |
| Client ID: | LCSW      | Batch ID: 82423 | TestNo: EPA 200.8     | Analysis Date: 10/8/2020 | SeqNo: 3968309       |               |           |             |      |          |      |
| Analyte    | Result    | PQL             | SPK value             | SPK Ref Val              | %REC                 | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic    | 9.870     | 0.10            | 10.00                 | 0                        | 98.7                 | 85            | 115       |             |      |          |      |
| Molybdenum | 10.329    | 0.50            | 10.00                 | 0                        | 103                  | 85            | 115       |             |      |          |      |
| Selenium   | 9.413     | 0.50            | 10.00                 | 0                        | 94.1                 | 85            | 115       |             |      |          |      |

|            |                 |                 |                       |                          |                      |               |           |             |      |          |      |
|------------|-----------------|-----------------|-----------------------|--------------------------|----------------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042435-001C-MS | SampType: MS    | TestCode: 200.8_WDISS | Units: µg/L              | Prep Date: 10/5/2020 | RunNo: 147979 |           |             |      |          |      |
| Client ID: | ZZZZZZ          | Batch ID: 82423 | TestNo: EPA 200.8     | Analysis Date: 10/8/2020 | SeqNo: 3968313       |               |           |             |      |          |      |
| Analyte    | Result          | PQL             | SPK value             | SPK Ref Val              | %REC                 | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic    | 10.907          | 0.10            | 10.00                 | 0                        | 109                  | 75            | 125       |             |      |          |      |
| Molybdenum | 32.386          | 0.50            | 10.00                 | 20.65                    | 117                  | 75            | 125       |             |      |          |      |
| Selenium   | 14.288          | 0.50            | 10.00                 | 3.598                    | 107                  | 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:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.8\_WDISS\_TPK

|            |                  |                 |                       |                          |                      |               |           |             |       |          |      |
|------------|------------------|-----------------|-----------------------|--------------------------|----------------------|---------------|-----------|-------------|-------|----------|------|
| Sample ID  | N042435-001C-MSD | SampType: MSD   | TestCode: 200.8_WDISS | Units: µg/L              | Prep Date: 10/5/2020 | RunNo: 147979 |           |             |       |          |      |
| Client ID: | ZZZZZZ           | Batch ID: 82423 | TestNo: EPA 200.8     | Analysis Date: 10/8/2020 | SeqNo: 3968314       |               |           |             |       |          |      |
| Analyte    | Result           | PQL             | SPK value             | SPK Ref Val              | %REC                 | LowLimit      | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Arsenic    | 11.379           | 0.10            | 10.00                 | 0                        | 114                  | 75            | 125       | 10.91       | 4.24  | 20       |      |
| Molybdenum | 32.534           | 0.50            | 10.00                 | 20.65                    | 119                  | 75            | 125       | 32.39       | 0.454 | 20       |      |
| Selenium   | 14.169           | 0.50            | 10.00                 | 3.598                    | 106                  | 75            | 125       | 14.29       | 0.835 | 20       |      |

|            |          |                 |                       |             |                           |                |           |             |      |          |      |
|------------|----------|-----------------|-----------------------|-------------|---------------------------|----------------|-----------|-------------|------|----------|------|
| Sample ID  | MB-82423 | SampType: MBLK  | TestCode: 200.8_WDISS | Units: µg/L | Prep Date: 10/5/2020      | RunNo: 148074  |           |             |      |          |      |
| Client ID: | PBW      | Batch ID: 82423 | TestNo: EPA 200.8     |             | Analysis Date: 10/15/2020 | SeqNo: 3971758 |           |             |      |          |      |
| Analyte    | Result   | PQL             | SPK value             | SPK Ref Val | %REC                      | LowLimit       | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Copper     | ND       | 1.0             |                       |             |                           |                |           |             |      |          |      |

|            |           |                 |                       |                           |                      |               |           |             |      |          |      |
|------------|-----------|-----------------|-----------------------|---------------------------|----------------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | LCS-82423 | SampType: LCS   | TestCode: 200.8_WDISS | Units: µg/L               | Prep Date: 10/5/2020 | RunNo: 148074 |           |             |      |          |      |
| Client ID: | LCSW      | Batch ID: 82423 | TestNo: EPA 200.8     | Analysis Date: 10/15/2020 | SeqNo: 3971759       |               |           |             |      |          |      |
| Analyte    | Result    | PQL             | SPK value             | SPK Ref Val               | %REC                 | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Copper     | 10.003    | 1.0             | 10.00                 | 0                         | 100                  | 85            | 115       |             |      |          |      |

|            |                 |                 |                       |             |                           |                |           |             |      |          |      |
|------------|-----------------|-----------------|-----------------------|-------------|---------------------------|----------------|-----------|-------------|------|----------|------|
| Sample ID  | N042435-001C-MS | SampType: MS    | TestCode: 200.8_WDISS | Units: µg/L | Prep Date: 10/5/2020      | RunNo: 148074  |           |             |      |          |      |
| Client ID: | ZZZZZZ          | Batch ID: 82423 | TestNo: EPA 200.8     |             | Analysis Date: 10/15/2020 | SeqNo: 3971763 |           |             |      |          |      |
| Analyte    | Result          | PQL             | SPK value             | SPK Ref Val | %REC                      | LowLimit       | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Copper     | 9.125           | 1.0             | 10.00                 | 0.6543      | 84.7                      | 75             | 125       |             |      |          |      |

|            |                  |                 |                       |                           |                      |               |           |             |       |          |      |
|------------|------------------|-----------------|-----------------------|---------------------------|----------------------|---------------|-----------|-------------|-------|----------|------|
| Sample ID  | N042435-001C-MSD | SampType: MSD   | TestCode: 200.8_WDISS | Units: µg/L               | Prep Date: 10/5/2020 | RunNo: 148074 |           |             |       |          |      |
| Client ID: | ZZZZZZ           | Batch ID: 82423 | TestNo: EPA 200.8     | Analysis Date: 10/15/2020 | SeqNo: 3971766       |               |           |             |       |          |      |
| Analyte    | Result           | PQL             | SPK value             | SPK Ref Val               | %REC                 | LowLimit      | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Copper     | 9.176            | 1.0             | 10.00                 | 0.6543                    | 85.2                 | 75            | 125       | 9.125       | 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 |                                      |   |                                                              |



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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 200.8\_WDISS\_TPK**

| Sample ID  | <b>N042435-001C-PS</b> | SampType: | <b>PS</b>    | TestCode:   | <b>200.8_WDISS</b> | Units:   | <b>µg/L</b> | Prep Date:     |                  | RunNo:   | <b>147861</b>  |
|------------|------------------------|-----------|--------------|-------------|--------------------|----------|-------------|----------------|------------------|----------|----------------|
| Client ID: | <b>ZZZZZZ</b>          | Batch ID: | <b>82423</b> | TestNo:     | <b>EPA 200.8</b>   |          |             | Analysis Date: | <b>10/6/2020</b> | SeqNo:   | <b>3959413</b> |
| Analyte    | Result                 | PQL       | SPK value    | SPK Ref Val | %REC               | LowLimit | HighLimit   | RPD Ref Val    | %RPD             | RPDLimit | Qual           |
| Antimony   | 10.949                 | 0.50      | 10.00        | 0           | 109                | 80       | 120         |                |                  |          |                |
| Barium     | 33.437                 | 1.0       | 10.00        | 22.74       | 107                | 80       | 120         |                |                  |          |                |
| Beryllium  | 6.677                  | 0.50      | 10.00        | 0           | 66.8               | 80       | 120         |                |                  |          | S              |
| Cadmium    | 10.030                 | 0.50      | 10.00        | 0.05371     | 99.8               | 80       | 120         |                |                  |          |                |
| Cobalt     | 8.657                  | 0.50      | 10.00        | 0.1009      | 85.6               | 80       | 120         |                |                  |          |                |
| Lead       | 10.826                 | 1.0       | 10.00        | 0           | 108                | 80       | 120         |                |                  |          |                |
| Manganese  | 95.165                 | 0.50      | 100.0        | 1.633       | 93.5               | 80       | 120         |                |                  |          |                |
| Nickel     | ND                     | 1.0       | 10.00        | 0           | 0                  | 80       | 120         |                |                  |          | S              |
| Silver     | 8.740                  | 0.50      | 10.00        | 0           | 87.4               | 80       | 120         |                |                  |          |                |
| Thallium   | 8.315                  | 0.50      | 10.00        | 0           | 83.1               | 80       | 120         |                |                  |          |                |
| Vanadium   | 12.844                 | 1.0       | 10.00        | 3.027       | 98.2               | 80       | 120         |                |                  |          |                |
| Zinc       | 3.916                  | 10        | 100.0        | 0           | 3.92               | 80       | 120         |                |                  |          | S              |

| Sample ID  | <b>N042435-001C-PS</b> | SampType: | <b>PS</b>    | TestCode:   | <b>200.8_WDISS</b> | Units:   | <b>µg/L</b> | Prep Date:     |                  | RunNo:   | <b>147979</b>  |
|------------|------------------------|-----------|--------------|-------------|--------------------|----------|-------------|----------------|------------------|----------|----------------|
| Client ID: | <b>ZZZZZZ</b>          | Batch ID: | <b>82423</b> | TestNo:     | <b>EPA 200.8</b>   |          |             | Analysis Date: | <b>10/8/2020</b> | SeqNo:   | <b>3968312</b> |
| Analyte    | Result                 | PQL       | SPK value    | SPK Ref Val | %REC               | LowLimit | HighLimit   | RPD Ref Val    | %RPD             | RPDLimit | Qual           |
| Arsenic    | 11.020                 | 0.10      | 10.00        | 0           | 110                | 80       | 120         |                |                  |          |                |
| Molybdenum | 33.469                 | 0.50      | 10.00        | 20.65       | 128                | 80       | 120         |                |                  |          | S              |
| Selenium   | 13.891                 | 0.50      | 10.00        | 3.598       | 103                | 80       | 120         |                |                  |          |                |

| Sample ID  | <b>N042435-001C-PS</b> | SampType: | <b>PS</b>    | TestCode:   | <b>200.8_WDISS</b> | Units:   | <b>µg/L</b> | Prep Date:     |                   | RunNo:   | <b>148074</b>  |
|------------|------------------------|-----------|--------------|-------------|--------------------|----------|-------------|----------------|-------------------|----------|----------------|
| Client ID: | <b>ZZZZZZ</b>          | Batch ID: | <b>82423</b> | TestNo:     | <b>EPA 200.8</b>   |          |             | Analysis Date: | <b>10/15/2020</b> | SeqNo:   | <b>3971762</b> |
| Analyte    | Result                 | PQL       | SPK value    | SPK Ref Val | %REC               | LowLimit | HighLimit   | RPD Ref Val    | %RPD              | RPDLimit | Qual           |
| Copper     | 9.247                  | 1.0       | 10.00        | 0.6543      | 85.9               | 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 |                                      |   |                                                              |


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**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-001

**Client Sample ID:** CW-04D-LF-Q420  
**Collection Date:** 10/2/2020 8:36:00 AM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units     | DF           | Date Analyzed      |
|-----------------------------------|-------------------|-------|------|-----------|-----------|--------------|--------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |           |              |                    |
| <b>EPA 218.6</b>                  |                   |       |      |           |           |              |                    |
| RunID: NV00922-IC7_201004A        | QC Batch: R147772 |       |      | PrepDate: |           | Analyst: RAB |                    |
| Hexavalent Chromium               | 0.53              | 0.033 | 0.20 |           | µg/L      | 1            | 10/4/2020 12:38 PM |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |           |              |                    |
| <b>EPA 200.8</b>                  |                   |       |      |           |           |              |                    |
| RunID: NV00922-ICP8_201005B       | QC Batch: 82423   |       |      | PrepDate: | 10/5/2020 | Analyst: CEI |                    |
| Chromium                          | 3.9               | 0.13  | 1.0  |           | µg/L      | 1            | 10/6/2020 01:48 AM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-002

**Client Sample ID:** CW-04M-LF-Q420  
**Collection Date:** 10/2/2020 9:27:00 AM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units     | DF           | Date Analyzed      |
|-----------------------------------|-------------------|-------|------|-----------|-----------|--------------|--------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |           |              |                    |
| <b>EPA 218.6</b>                  |                   |       |      |           |           |              |                    |
| RunID: NV00922-IC7_201004A        | QC Batch: R147772 |       |      | PrepDate: |           | Analyst: RAB |                    |
| Hexavalent Chromium               | 1.0               | 0.033 | 0.20 |           | µg/L      | 1            | 10/4/2020 12:57 PM |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |           |              |                    |
| <b>EPA 200.8</b>                  |                   |       |      |           |           |              |                    |
| RunID: NV00922-ICP8_201005B       | QC Batch: 82423   |       |      | PrepDate: | 10/5/2020 | Analyst: CEI |                    |
| Chromium                          | 4.8               | 0.13  | 1.0  |           | µg/L      | 1            | 10/6/2020 02:38 AM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-003

**Client Sample ID:** EB-702-Q420  
**Collection Date:** 10/2/2020 9:34:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## HEXAVALENT CHROMIUM BY IC

## EPA 218.6

|                            |                   |           |                      |
|----------------------------|-------------------|-----------|----------------------|
| RunID: NV00922-IC7_201004A | QC Batch: R147772 | PrepDate: | Analyst: RAB         |
| Hexavalent Chromium        | ND 0.033 0.20     | µg/L      | 1 10/4/2020 03:09 PM |

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



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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 200.8Dis\_CrPGE\_TPK**

|                           |                        |                               |                    |                                 |                                                        |
|---------------------------|------------------------|-------------------------------|--------------------|---------------------------------|--------------------------------------------------------|
| Sample ID <b>MB-82423</b> | SampType: <b>MBLK</b>  | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date: <b>10/5/2020</b>     | RunNo: <b>147861</b>                                   |
| Client ID: <b>PBW</b>     | Batch ID: <b>82423</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/6/2020</b> | SeqNo: <b>3959495</b>                                  |
| Analyte                   | Result                 | PQL                           | SPK value          | SPK Ref Val                     | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                  | ND                     | 1.0                           |                    |                                 |                                                        |

|                            |                        |                               |                    |                                 |                                                        |
|----------------------------|------------------------|-------------------------------|--------------------|---------------------------------|--------------------------------------------------------|
| Sample ID <b>LCS-82423</b> | SampType: <b>LCS</b>   | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date: <b>10/5/2020</b>     | RunNo: <b>147861</b>                                   |
| Client ID: <b>LCSW</b>     | Batch ID: <b>82423</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/6/2020</b> | SeqNo: <b>3959496</b>                                  |
| Analyte                    | Result                 | PQL                           | SPK value          | SPK Ref Val                     | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                   | 9.713                  | 1.0                           | 10.00              | 0                               | 97.1 85 115                                            |

|                                  |                        |                               |                    |                                 |                                                        |
|----------------------------------|------------------------|-------------------------------|--------------------|---------------------------------|--------------------------------------------------------|
| Sample ID <b>N042435-001C-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date:                      | RunNo: <b>147861</b>                                   |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>82423</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/6/2020</b> | SeqNo: <b>3959504</b>                                  |
| Analyte                          | Result                 | PQL                           | SPK value          | SPK Ref Val                     | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                         | 13.180                 | 1.0                           | 10.00              | 3.898                           | 92.8 80 120                                            |

|                                  |                        |                               |                    |                                 |                                                        |
|----------------------------------|------------------------|-------------------------------|--------------------|---------------------------------|--------------------------------------------------------|
| Sample ID <b>N042435-001C-MS</b> | SampType: <b>MS</b>    | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date: <b>10/5/2020</b>     | RunNo: <b>147861</b>                                   |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>82423</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/6/2020</b> | SeqNo: <b>3959506</b>                                  |
| Analyte                          | Result                 | PQL                           | SPK value          | SPK Ref Val                     | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                         | 13.004                 | 1.0                           | 10.00              | 3.898                           | 91.1 75 125                                            |

|                                   |                        |                               |                    |                                 |                                                        |
|-----------------------------------|------------------------|-------------------------------|--------------------|---------------------------------|--------------------------------------------------------|
| Sample ID <b>N042435-001C-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date: <b>10/5/2020</b>     | RunNo: <b>147861</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82423</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/6/2020</b> | SeqNo: <b>3959508</b>                                  |
| Analyte                           | Result                 | PQL                           | SPK value          | SPK Ref Val                     | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                          | 12.964                 | 1.0                           | 10.00              | 3.898                           | 90.7 75 125 13.00 0.305 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 |                                      |   |                                                              |



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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 218.6\_WPGE

|                             |                          |                             |                                 |                       |                                                        |
|-----------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|--------------------------------------------------------|
| Sample ID <b>MB-R147772</b> | SampType: <b>MBLK</b>    | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>              | Prep Date:            | RunNo: <b>147772</b>                                   |
| Client ID: <b>PBW</b>       | Batch ID: <b>R147772</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/4/2020</b> | SeqNo: <b>3954239</b> |                                                        |
| Analyte                     | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Hexavalent Chromium ND 0.20

|                              |                          |                             |                                 |                       |                                                        |
|------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|--------------------------------------------------------|
| Sample ID <b>LCS-R147772</b> | SampType: <b>LCS</b>     | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>              | Prep Date:            | RunNo: <b>147772</b>                                   |
| Client ID: <b>LCSW</b>       | Batch ID: <b>R147772</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/4/2020</b> | SeqNo: <b>3954240</b> |                                                        |
| Analyte                      | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Hexavalent Chromium 4.930 0.20 5.000 0 98.6 90 110

|                                 |                          |                             |                                 |                       |                                                        |
|---------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|--------------------------------------------------------|
| Sample ID <b>N042404-006AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>              | Prep Date:            | RunNo: <b>147772</b>                                   |
| Client ID: <b>ZZZZZZ</b>        | Batch ID: <b>R147772</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/4/2020</b> | SeqNo: <b>3954251</b> |                                                        |
| Analyte                         | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Hexavalent Chromium 9.328 0.20 5.000 4.457 97.4 90 110

|                                  |                          |                             |                                 |                       |                                                        |
|----------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|--------------------------------------------------------|
| Sample ID <b>N042404-006AMSD</b> | SampType: <b>MSD</b>     | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>              | Prep Date:            | RunNo: <b>147772</b>                                   |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147772</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/4/2020</b> | SeqNo: <b>3954252</b> |                                                        |
| Analyte                          | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Hexavalent Chromium 9.528 0.20 5.000 4.457 101 90 110 9.328 2.12 20

|                                  |                          |                             |                                 |                       |                                                        |
|----------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|--------------------------------------------------------|
| Sample ID <b>N042434-001ADUP</b> | SampType: <b>DUP</b>     | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>              | Prep Date:            | RunNo: <b>147772</b>                                   |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147772</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/4/2020</b> | SeqNo: <b>3954253</b> |                                                        |
| Analyte                          | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Hexavalent Chromium 0.971 0.20 0.9608 1.08 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 |   |                                                              |



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 218.6\_WPGE

|            |                |                   |                      |             |                          |      |          |           |                |      |          |      |
|------------|----------------|-------------------|----------------------|-------------|--------------------------|------|----------|-----------|----------------|------|----------|------|
| Sample ID  | N042434-001AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L | Prep Date:               |      |          |           | RunNo: 147772  |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    |             | Analysis Date: 10/4/2020 |      |          |           | SeqNo: 3954254 |      |          |      |
| Analyte    |                | Result            | PQL                  | SPK value   | SPK Ref Val              | %REC | LowLimit | HighLimit | RPD Ref Val    | %RPD | RPDLimit | Qual |

|                     |       |      |       |        |      |    |     |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.945 | 0.20 | 1.000 | 0.9608 | 98.4 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|

|            |                |                   |                      |                          |                |               |           |             |      |          |      |
|------------|----------------|-------------------|----------------------|--------------------------|----------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042429-001AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L              | Prep Date:     | RunNo: 147772 |           |             |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    | Analysis Date: 10/4/2020 | SeqNo: 3954255 |               |           |             |      |          |      |
| Analyte    | Result         | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |          |    |       |       |      |    |     |  |  |  |  |
|---------------------|----------|----|-------|-------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 1080.060 | 20 | 500.0 | 580.4 | 99.9 | 90 | 110 |  |  |  |  |
|---------------------|----------|----|-------|-------|------|----|-----|--|--|--|--|

|            |                |                   |                      |                          |                |               |           |             |      |          |      |
|------------|----------------|-------------------|----------------------|--------------------------|----------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042430-001AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L              | Prep Date:     | RunNo: 147772 |           |             |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    | Analysis Date: 10/4/2020 | SeqNo: 3954256 |               |           |             |      |          |      |
| Analyte    | Result         | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |       |     |    |     |  |  |  |  |
|---------------------|-------|------|-------|-------|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 8.531 | 0.20 | 5.000 | 3.354 | 104 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|-------|-----|----|-----|--|--|--|--|

|            |                |                   |                      |                          |                |               |           |             |      |          |      |
|------------|----------------|-------------------|----------------------|--------------------------|----------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042404-007AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L              | Prep Date:     | RunNo: 147772 |           |             |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    | Analysis Date: 10/4/2020 | SeqNo: 3954257 |               |           |             |      |          |      |
| Analyte    | Result         | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |        |     |       |       |     |    |     |  |  |  |  |
|---------------------|--------|-----|-------|-------|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 42.856 | 1.0 | 25.00 | 17.54 | 101 | 90 | 110 |  |  |  |  |
|---------------------|--------|-----|-------|-------|-----|----|-----|--|--|--|--|

|            |                |                   |                      |                          |                |               |           |             |      |          |      |
|------------|----------------|-------------------|----------------------|--------------------------|----------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042430-002AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L              | Prep Date:     | RunNo: 147772 |           |             |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    | Analysis Date: 10/4/2020 | SeqNo: 3954258 |               |           |             |      |          |      |
| Analyte    | Result         | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |       |     |    |     |  |  |  |  |
|---------------------|-------|------|-------|-------|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 8.575 | 0.20 | 5.000 | 3.356 | 104 | 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 |   |                                                              |



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 218.6\_WPGE

|            |                |                   |                      |             |                          |      |          |           |                |      |          |      |
|------------|----------------|-------------------|----------------------|-------------|--------------------------|------|----------|-----------|----------------|------|----------|------|
| Sample ID  | N042430-004AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L | Prep Date:               |      |          |           | RunNo: 147772  |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    |             | Analysis Date: 10/4/2020 |      |          |           | SeqNo: 3954259 |      |          |      |
| 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  | N042430-003AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L              | Prep Date:     | RunNo: 147772 |           |             |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    | Analysis Date: 10/4/2020 | SeqNo: 3954263 |               |           |             |      |          |      |
| Analyte    | Result         | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |     |       |       |      |    |     |  |  |  |  |
|---------------------|-------|-----|-------|-------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 9.894 | 1.0 | 5.000 | 5.082 | 96.2 | 90 | 110 |  |  |  |  |
|---------------------|-------|-----|-------|-------|------|----|-----|--|--|--|--|

|            |                |                   |                      |                          |                |               |           |             |      |          |      |
|------------|----------------|-------------------|----------------------|--------------------------|----------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042435-001AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L              | Prep Date:     | RunNo: 147772 |           |             |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    | Analysis Date: 10/4/2020 | SeqNo: 3954265 |               |           |             |      |          |      |
| Analyte    | Result         | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |        |     |    |     |  |  |  |  |
|---------------------|-------|------|-------|--------|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.543 | 0.20 | 1.000 | 0.5348 | 101 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|--------|-----|----|-----|--|--|--|--|

|            |                |                   |                      |                          |                |               |           |             |      |          |      |
|------------|----------------|-------------------|----------------------|--------------------------|----------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042435-002AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L              | Prep Date:     | RunNo: 147772 |           |             |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    | Analysis Date: 10/4/2020 | SeqNo: 3954267 |               |           |             |      |          |      |
| Analyte    | Result         | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |       |     |    |     |  |  |  |  |
|---------------------|-------|------|-------|-------|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 2.088 | 0.20 | 1.000 | 1.008 | 108 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|-------|-----|----|-----|--|--|--|--|

|            |                |                   |                      |                          |                |               |           |             |      |          |      |
|------------|----------------|-------------------|----------------------|--------------------------|----------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042403-003AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L              | Prep Date:     | RunNo: 147772 |           |             |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    | Analysis Date: 10/4/2020 | SeqNo: 3954269 |               |           |             |      |          |      |
| Analyte    | Result         | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |     |       |        |      |    |     |  |  |  |  |
|---------------------|-------|-----|-------|--------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 5.490 | 1.0 | 5.000 | 0.5955 | 97.9 | 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 |   |                                                              |



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 218.6\_WPGE

|            |                |                   |                      |             |                          |      |          |           |                |      |          |      |
|------------|----------------|-------------------|----------------------|-------------|--------------------------|------|----------|-----------|----------------|------|----------|------|
| Sample ID  | N042404-008AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L | Prep Date:               |      |          |           | RunNo: 147772  |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    |             | Analysis Date: 10/4/2020 |      |          |           | SeqNo: 3954273 |      |          |      |
| 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  | N042429-002AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L              | Prep Date:     | RunNo: 147772 |           |             |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    | Analysis Date: 10/4/2020 | SeqNo: 3954275 |               |           |             |      |          |      |
| Analyte    | Result         | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |   |      |    |     |  |  |  |  |
|---------------------|-------|------|-------|---|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 0.978 | 0.20 | 1.000 | 0 | 97.8 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|---|------|----|-----|--|--|--|--|

|            |                |                   |                      |                          |                |               |           |             |      |          |      |
|------------|----------------|-------------------|----------------------|--------------------------|----------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042430-005AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L              | Prep Date:     | RunNo: 147772 |           |             |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    | Analysis Date: 10/4/2020 | SeqNo: 3954277 |               |           |             |      |          |      |
| 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  | N042434-002AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L              | Prep Date:     | RunNo: 147772 |           |             |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    | Analysis Date: 10/4/2020 | SeqNo: 3954279 |               |           |             |      |          |      |
| Analyte    | Result         | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |   |      |    |     |  |  |  |  |
|---------------------|-------|------|-------|---|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 0.993 | 0.20 | 1.000 | 0 | 99.3 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|---|------|----|-----|--|--|--|--|

|            |                |                   |                      |                          |                |               |           |             |      |          |      |
|------------|----------------|-------------------|----------------------|--------------------------|----------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042435-003AMS | SampType: MS      | TestCode: 218.6_WPGE | Units: µg/L              | Prep Date:     | RunNo: 147772 |           |             |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147772 | TestNo: EPA 218.6    | Analysis Date: 10/4/2020 | SeqNo: 3954281 |               |           |             |      |          |      |
| Analyte    | Result         | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |   |      |    |     |  |  |  |  |
|---------------------|-------|------|-------|---|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 0.997 | 0.20 | 1.000 | 0 | 99.7 | 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 |   |                                                              |



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# ANALYTICAL RESULTS

Print Date: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-001

**Client Sample ID:** CW-04D-LF-Q420  
**Collection Date:** 10/2/2020 8:36:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TURBIDITY

## SM 2130B

|                           |                   |           |                      |
|---------------------------|-------------------|-----------|----------------------|
| RunID: NV00922-WC_201002I | QC Batch: R147752 | PrepDate: | Analyst: LR          |
| Turbidity                 | 7.2 0.10 0.10     | NTU       | 1 10/2/2020 04:50 PM |

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



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# ANALYTICAL RESULTS

Print Date: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-002

**Client Sample ID:** CW-04M-LF-Q420  
**Collection Date:** 10/2/2020 9:27:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TURBIDITY

## SM 2130B

|                           |                   |           |                      |
|---------------------------|-------------------|-----------|----------------------|
| RunID: NV00922-WC_201002I | QC Batch: R147752 | PrepDate: | Analyst: LR          |
| Turbidity                 | 11 0.10 0.10      | NTU       | 1 10/2/2020 04:50 PM |

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



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 2130\_W**

|            |                   |           |                |           |                 |             |            |                |                  |             |                    |
|------------|-------------------|-----------|----------------|-----------|-----------------|-------------|------------|----------------|------------------|-------------|--------------------|
| Sample ID  | <b>MB-R147752</b> | SampType: | <b>MBLK</b>    | TestCode: | <b>2130_W</b>   | Units:      | <b>NTU</b> | Prep Date:     |                  | RunNo:      | <b>147752</b>      |
| Client ID: | <b>PBW</b>        | Batch ID: | <b>R147752</b> | TestNo:   | <b>SM 2130B</b> |             |            | Analysis Date: | <b>10/2/2020</b> | SeqNo:      | <b>3952609</b>     |
| Analyte    |                   | Result    |                | PQL       | SPK value       | SPK Ref Val | %REC       | LowLimit       | HighLimit        | RPD Ref Val | %RPD RPDLimit Qual |
| Turbidity  |                   | ND        |                | 0.10      |                 |             |            |                |                  |             |                    |

|            |                        |           |                |           |                 |             |            |                |                  |             |                    |
|------------|------------------------|-----------|----------------|-----------|-----------------|-------------|------------|----------------|------------------|-------------|--------------------|
| Sample ID  | <b>N042435-002DDUP</b> | SampType: | <b>DUP</b>     | TestCode: | <b>2130_W</b>   | Units:      | <b>NTU</b> | Prep Date:     |                  | RunNo:      | <b>147752</b>      |
| Client ID: | <b>ZZZZZZ</b>          | Batch ID: | <b>R147752</b> | TestNo:   | <b>SM 2130B</b> |             |            | Analysis Date: | <b>10/2/2020</b> | SeqNo:      | <b>3952612</b>     |
| Analyte    |                        | Result    |                | PQL       | SPK value       | SPK Ref Val | %REC       | LowLimit       | HighLimit        | RPD Ref Val | %RPD RPDLimit Qual |
| Turbidity  |                        | 10.570    |                | 0.10      |                 |             |            |                |                  | 10.64       | 0.660 30           |

**Qualifiers:**

|    |                                                 |   |                                      |   |                                                              |
|----|-------------------------------------------------|---|--------------------------------------|---|--------------------------------------------------------------|
| B  | Analyte detected in 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 |   |                                                              |

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# ASSET Laboratories

# ANALYTICAL RESULTS

Print Date: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-001

**Client Sample ID:** CW-04D-LF-Q420  
**Collection Date:** 10/2/2020 8:36:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## ALKALINITY, SPECIATED

## SM 2320 B

|                              |                   |           |                           |
|------------------------------|-------------------|-----------|---------------------------|
| RunID: NV00922-WC_201002E    | QC Batch: R147747 | PrepDate: | Analyst: LR               |
| Alkalinity, Total (As CaCO3) | 59 1.2            | 5.0       | mg/L 1 10/2/2020 02:10 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-002

**Client Sample ID:** CW-04M-LF-Q420  
**Collection Date:** 10/2/2020 9:27:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**ALKALINITY, SPECIATED**
**SM 2320 B**

|                              |                   |     |     |           |   |                    |
|------------------------------|-------------------|-----|-----|-----------|---|--------------------|
| RunID: NV00922-WC_201002E    | QC Batch: R147747 |     |     | PrepDate: |   | Analyst: LR        |
| Alkalinity, Total (As CaCO3) | 60                | 1.2 | 5.0 | mg/L      | 1 | 10/2/2020 02:10 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**"Serving Clients with Passion and Professionalism"**

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 2320\_W\_SP**

|                              |             |                   |                     |             |                          |          |           |             |                |          |      |
|------------------------------|-------------|-------------------|---------------------|-------------|--------------------------|----------|-----------|-------------|----------------|----------|------|
| Sample ID                    | LCS-R147747 | SampType: LCS     | TestCode: 2320_W_SP | Units: mg/L | Prep Date:               |          |           |             | RunNo: 147747  |          |      |
| Client ID:                   | LCSW        | Batch ID: R147747 | TestNo: SM 2320 B   |             | Analysis Date: 10/2/2020 |          |           |             | SeqNo: 3952548 |          |      |
| Analyte                      | Result      | PQL               | SPK value           | SPK Ref Val | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD           | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) |             | 98.326            | 5.0                 | 100.0       | 0                        | 98.3     | 85        | 115         |                |          |      |

|                              |            |                   |                     |             |                          |          |           |             |                |          |      |
|------------------------------|------------|-------------------|---------------------|-------------|--------------------------|----------|-----------|-------------|----------------|----------|------|
| Sample ID                    | MB-R147747 | SampType: MBLK    | TestCode: 2320_W_SP | Units: mg/L | Prep Date:               |          |           |             | RunNo: 147747  |          |      |
| Client ID:                   | PBW        | Batch ID: R147747 | TestNo: SM 2320 B   |             | Analysis Date: 10/2/2020 |          |           |             | SeqNo: 3952549 |          |      |
| 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                    | N042429-001BDUP | SampType: DUP     | TestCode: 2320_W_SP | Units: mg/L | Prep Date:               |          |           |             | RunNo: 147747  |          |      |
| Client ID:                   | ZZZZZZ          | Batch ID: R147747 | TestNo: SM 2320 B   |             | Analysis Date: 10/2/2020 |          |           |             | SeqNo: 3952558 |          |      |
| Analyte                      | Result          | PQL               | SPK value           | SPK Ref Val | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD           | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) |                 | 58.577            | 5.0                 |             |                          |          |           | 59.62       | 1.77           | 30       |      |

|                              |                |                   |                     |             |                          |          |           |             |                |          |      |
|------------------------------|----------------|-------------------|---------------------|-------------|--------------------------|----------|-----------|-------------|----------------|----------|------|
| Sample ID                    | N042429-001BMS | SampType: MS      | TestCode: 2320_W_SP | Units: mg/L | Prep Date:               |          |           |             | RunNo: 147747  |          |      |
| Client ID:                   | ZZZZZZ         | Batch ID: R147747 | TestNo: SM 2320 B   |             | Analysis Date: 10/2/2020 |          |           |             | SeqNo: 3952559 |          |      |
| Analyte                      | Result         | PQL               | SPK value           | SPK Ref Val | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD           | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) |                | 153.766           | 5.0                 | 100.0       | 59.62                    | 94.1     | 75        | 125         |                |          |      |

|                              |                 |                   |                     |             |                          |          |           |             |                |          |      |
|------------------------------|-----------------|-------------------|---------------------|-------------|--------------------------|----------|-----------|-------------|----------------|----------|------|
| Sample ID                    | N042429-001BMSD | SampType: MSD     | TestCode: 2320_W_SP | Units: mg/L | Prep Date:               |          |           |             | RunNo: 147747  |          |      |
| Client ID:                   | ZZZZZZ          | Batch ID: R147747 | TestNo: SM 2320 B   |             | Analysis Date: 10/2/2020 |          |           |             | SeqNo: 3952560 |          |      |
| Analyte                      | Result          | PQL               | SPK value           | SPK Ref Val | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD           | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3) |                 | 152.720           | 5.0                 | 100.0       | 59.62                    | 93.1     | 75        | 125         | 153.8          | 0.683    | 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 |                                      |   |                                                              |



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**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-001

**Client Sample ID:** CW-04D-LF-Q420  
**Collection Date:** 10/2/2020 8:36:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE**
**EPA 245.1**

|                            |                 |                     |                    |
|----------------------------|-----------------|---------------------|--------------------|
| RunID: NV00922-AA2_201008A | QC Batch: 82476 | PrepDate: 10/7/2020 | Analyst: DJ        |
| Mercury                    | ND 0.13         | 0.20                | µg/L 1             |
|                            |                 |                     | 10/8/2020 01:04 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-002

**Client Sample ID:** CW-04M-LF-Q420  
**Collection Date:** 10/2/2020 9:27:00 AM  
**Matrix:** GROUNDWATER

| Analyses                                         | Result          | MDL  | PQL  | Qual      | Units     | DF          | Date Analyzed      |
|--------------------------------------------------|-----------------|------|------|-----------|-----------|-------------|--------------------|
| <b>DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE</b> |                 |      |      |           |           |             |                    |
| <b>EPA 245.1</b>                                 |                 |      |      |           |           |             |                    |
| RunID: NV00922-AA2_201008A                       | QC Batch: 82476 |      |      | PrepDate: | 10/7/2020 | Analyst: DJ |                    |
| Mercury                                          | ND              | 0.13 | 0.20 |           | µg/L      | 1           | 10/8/2020 01:23 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**"Serving Clients with Passion and Professionalism"**



**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 245.1\_WD**

|                           |                        |                           |                    |                                 |                                                        |
|---------------------------|------------------------|---------------------------|--------------------|---------------------------------|--------------------------------------------------------|
| Sample ID <b>MB-82476</b> | SampType: <b>MBLK</b>  | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date: <b>10/7/2020</b>     | RunNo: <b>147878</b>                                   |
| Client ID: <b>PBW</b>     | Batch ID: <b>82476</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3960659</b>                                  |
| Analyte                   | Result                 | PQL                       | SPK value          | SPK Ref Val                     | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Mercury                   | ND                     | 0.20                      |                    |                                 |                                                        |

|                            |                        |                           |                    |                                 |                                                        |
|----------------------------|------------------------|---------------------------|--------------------|---------------------------------|--------------------------------------------------------|
| Sample ID <b>LCS-82476</b> | SampType: <b>LCS</b>   | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date: <b>10/7/2020</b>     | RunNo: <b>147878</b>                                   |
| Client ID: <b>LCSW</b>     | Batch ID: <b>82476</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3960660</b>                                  |
| Analyte                    | Result                 | PQL                       | SPK value          | SPK Ref Val                     | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Mercury                    | 4.760                  | 0.20                      | 5.000              | 0                               | 95.2 85 115                                            |

|                                  |                        |                           |                    |                                 |                                                        |
|----------------------------------|------------------------|---------------------------|--------------------|---------------------------------|--------------------------------------------------------|
| Sample ID <b>N042435-001C-PS</b> | SampType: <b>PS</b>    | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date:                      | RunNo: <b>147878</b>                                   |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>82476</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3960663</b>                                  |
| Analyte                          | Result                 | PQL                       | SPK value          | SPK Ref Val                     | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Mercury                          | 4.600                  | 0                         | 5.000              | 0                               | 92.0 80 120                                            |

|                                  |                        |                           |                    |                                 |                                                        |
|----------------------------------|------------------------|---------------------------|--------------------|---------------------------------|--------------------------------------------------------|
| Sample ID <b>N042435-001C-MS</b> | SampType: <b>MS</b>    | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date: <b>10/7/2020</b>     | RunNo: <b>147878</b>                                   |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>82476</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3960664</b>                                  |
| Analyte                          | Result                 | PQL                       | SPK value          | SPK Ref Val                     | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Mercury                          | 4.920                  | 0.20                      | 5.000              | 0                               | 98.4 75 125                                            |

|                                   |                        |                           |                    |                                 |                                                        |
|-----------------------------------|------------------------|---------------------------|--------------------|---------------------------------|--------------------------------------------------------|
| Sample ID <b>N042435-001C-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date: <b>10/7/2020</b>     | RunNo: <b>147878</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82476</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3960665</b>                                  |
| Analyte                           | Result                 | PQL                       | SPK value          | SPK Ref Val                     | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Mercury                           | 4.590                  | 0.20                      | 5.000              | 0                               | 91.8 75 125 4.920 6.94 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**  
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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-001

**Client Sample ID:** CW-04D-LF-Q420  
**Collection Date:** 10/2/2020 8:36:00 AM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed      |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|--------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201003A          | QC Batch: R147764 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Chloride                            | 2100              | 17    | 250  |           | mg/L  | 500          | 10/3/2020 05:59 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201003A          | QC Batch: R147764 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Fluoride                            | 4.2               | 0.048 | 0.50 |           | mg/L  | 5            | 10/3/2020 11:59 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201003A          | QC Batch: R147764 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Sulfate                             | 470               | 2.0   | 25   |           | mg/L  | 50           | 10/3/2020 05:31 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-002

**Client Sample ID:** CW-04M-LF-Q420  
**Collection Date:** 10/2/2020 9:27:00 AM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed      |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|--------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201003A          | QC Batch: R147764 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Chloride                            | 2100              | 17    | 250  |           | mg/L  | 500          | 10/3/2020 06:14 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201003A          | QC Batch: R147764 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Fluoride                            | 2.1               | 0.048 | 0.50 |           | mg/L  | 5            | 10/3/2020 12:13 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201003A          | QC Batch: R147764 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Sulfate                             | 480               | 2.0   | 25   |           | mg/L  | 50           | 10/3/2020 05:45 PM |

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



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 300\_W\_CLPGE**

|            |               |                   |                     |             |                          |      |          |           |                |      |          |      |
|------------|---------------|-------------------|---------------------|-------------|--------------------------|------|----------|-----------|----------------|------|----------|------|
| Sample ID  | MB-R147764_CL | SampType: MBLK    | TestCode: 300_W_CLP | Units: mg/L | Prep Date:               |      |          |           | RunNo: 147764  |      |          |      |
| Client ID: | PBW           | Batch ID: R147764 | TestNo: EPA 300.0   |             | Analysis Date: 10/3/2020 |      |          |           | SeqNo: 3953978 |      |          |      |
| Analyte    |               | Result            | PQL                 | SPK value   | SPK Ref Val              | %REC | LowLimit | HighLimit | RPD Ref Val    | %RPD | RPDLimit | Qual |
| Chloride   |               | 0.158             | 0.50                |             |                          |      |          |           |                |      |          |      |

|            |                |                   |                     |             |                          |      |          |           |                |      |          |      |
|------------|----------------|-------------------|---------------------|-------------|--------------------------|------|----------|-----------|----------------|------|----------|------|
| Sample ID  | LCS-R147764_CL | SampType: LCS     | TestCode: 300_W_CLP | Units: mg/L | Prep Date:               |      |          |           | RunNo: 147764  |      |          |      |
| Client ID: | LCSW           | Batch ID: R147764 | TestNo: EPA 300.0   |             | Analysis Date: 10/3/2020 |      |          |           | SeqNo: 3953979 |      |          |      |
| Analyte    |                | Result            | PQL                 | SPK value   | SPK Ref Val              | %REC | LowLimit | HighLimit | RPD Ref Val    | %RPD | RPDLimit | Qual |
| Chloride   |                | 2.013             | 0.50                | 2.000       | 0                        | 101  | 90       | 110       |                |      |          |      |

|            |                |                   |                     |             |                          |      |          |           |                |      |          |      |
|------------|----------------|-------------------|---------------------|-------------|--------------------------|------|----------|-----------|----------------|------|----------|------|
| Sample ID  | N042389-008BMS | SampType: MS      | TestCode: 300_W_CLP | Units: mg/L | Prep Date:               |      |          |           | RunNo: 147764  |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147764 | TestNo: EPA 300.0   |             | Analysis Date: 10/3/2020 |      |          |           | SeqNo: 3953983 |      |          |      |
| Analyte    |                | Result            | PQL                 | SPK value   | SPK Ref Val              | %REC | LowLimit | HighLimit | RPD Ref Val    | %RPD | RPDLimit | Qual |
| Chloride   |                | 884.840           | 100                 | 400.0       | 495.3                    | 97.4 | 80       | 120       |                |      |          |      |

|            |                 |                   |                     |             |                          |      |          |           |                |       |          |      |
|------------|-----------------|-------------------|---------------------|-------------|--------------------------|------|----------|-----------|----------------|-------|----------|------|
| Sample ID  | N042389-008BMSD | SampType: MSD     | TestCode: 300_W_CLP | Units: mg/L | Prep Date:               |      |          |           | RunNo: 147764  |       |          |      |
| Client ID: | ZZZZZZ          | Batch ID: R147764 | TestNo: EPA 300.0   |             | Analysis Date: 10/3/2020 |      |          |           | SeqNo: 3953984 |       |          |      |
| Analyte    |                 | Result            | PQL                 | SPK value   | SPK Ref Val              | %REC | LowLimit | HighLimit | RPD Ref Val    | %RPD  | RPDLimit | Qual |
| Chloride   |                 | 882.660           | 100                 | 400.0       | 495.3                    | 96.8 | 80       | 120       | 884.8          | 0.247 | 20       |      |

|            |                |                   |                     |             |                          |      |          |           |                |      |          |      |
|------------|----------------|-------------------|---------------------|-------------|--------------------------|------|----------|-----------|----------------|------|----------|------|
| Sample ID  | N042389-009BMS | SampType: MS      | TestCode: 300_W_CLP | Units: mg/L | Prep Date:               |      |          |           | RunNo: 147764  |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147764 | TestNo: EPA 300.0   |             | Analysis Date: 10/3/2020 |      |          |           | SeqNo: 3953985 |      |          |      |
| Analyte    |                | Result            | PQL                 | SPK value   | SPK Ref Val              | %REC | LowLimit | HighLimit | RPD Ref Val    | %RPD | RPDLimit | Qual |
| Chloride   |                | 993.140           | 100                 | 400.0       | 601.7                    | 97.9 | 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 |                                      |   |                                                              |


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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California  
Work Order: N042435  
Project: PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 300\_W\_CLPGE

|            |                 |           |         |           |           |             |      |                |           |             |         |          |      |
|------------|-----------------|-----------|---------|-----------|-----------|-------------|------|----------------|-----------|-------------|---------|----------|------|
| Sample ID  | N042389-011BDUP | SampType: | DUP     | TestCode: | 300_W_CLP | Units:      | mg/L | Prep Date:     |           | RunNo:      | 147764  |          |      |
| Client ID: | ZZZZZZ          | Batch ID: | R147764 | TestNo:   | EPA 300.0 |             |      | Analysis Date: | 10/3/2020 | SeqNo:      | 3953986 |          |      |
| Analyte    |                 | Result    |         | PQL       | SPK value | SPK Ref Val | %REC | LowLimit       | HighLimit | RPD Ref Val | %RPD    | RPDLimit | Qual |
| Chloride   |                 | 619.160   |         | 100       |           |             |      |                |           | 613.3       | 0.951   | 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 |   |                                                              |



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CLIENT: ARCADIS U.S., Inc. - California  
Work Order: N042435  
Project: PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 300\_W\_FPGE

|            |              |                   |                                  |           |             |      |                          |           |             |                |          |      |
|------------|--------------|-------------------|----------------------------------|-----------|-------------|------|--------------------------|-----------|-------------|----------------|----------|------|
| Sample ID  | MB-R147764_F | SampType: MBLK    | TestCode: 300_W_FPGE Units: mg/L |           |             |      | Prep Date:               |           |             | RunNo: 147764  |          |      |
| Client ID: | PBW          | Batch ID: R147764 | TestNo: EPA 300.0                |           |             |      | Analysis Date: 10/3/2020 |           |             | SeqNo: 3953944 |          |      |
| Analyte    |              | Result            | PQL                              | SPK value | SPK Ref Val | %REC | LowLimit                 | HighLimit | RPD Ref Val | %RPD           | RPDLimit | Qual |

Fluoride ND 0.10

|            |               |                   |                                  |           |             |                          |          |           |                |      |          |      |
|------------|---------------|-------------------|----------------------------------|-----------|-------------|--------------------------|----------|-----------|----------------|------|----------|------|
| Sample ID  | LCS-R147764_F | SampType: LCS     | TestCode: 300_W_FPGE Units: mg/L |           |             | Prep Date:               |          |           | RunNo: 147764  |      |          |      |
| Client ID: | LCSW          | Batch ID: R147764 | TestNo: EPA 300.0                |           |             | Analysis Date: 10/3/2020 |          |           | SeqNo: 3953945 |      |          |      |
| Analyte    |               | Result            | PQL                              | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | RPD Ref Val    | %RPD | RPDLimit | Qual |

Fluoride 1.265 0.10 1.250 0 101 90 110

|            |                |                   |                                  |           |             |                          |          |           |                |      |          |      |
|------------|----------------|-------------------|----------------------------------|-----------|-------------|--------------------------|----------|-----------|----------------|------|----------|------|
| Sample ID  | N042389-002BMS | SampType: MS      | TestCode: 300_W_FPGE Units: mg/L |           |             | Prep Date:               |          |           | RunNo: 147764  |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147764 | TestNo: EPA 300.0                |           |             | Analysis Date: 10/3/2020 |          |           | SeqNo: 3953949 |      |          |      |
| Analyte    |                | Result            | PQL                              | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | RPD Ref Val    | %RPD | RPDLimit | Qual |

Fluoride 7.844 0.50 6.250 1.955 94.2 80 120

|            |                 |                   |                                  |           |             |                          |          |           |                |      |          |      |
|------------|-----------------|-------------------|----------------------------------|-----------|-------------|--------------------------|----------|-----------|----------------|------|----------|------|
| Sample ID  | N042389-002BMSD | SampType: MSD     | TestCode: 300_W_FPGE Units: mg/L |           |             | Prep Date:               |          |           | RunNo: 147764  |      |          |      |
| Client ID: | ZZZZZZ          | Batch ID: R147764 | TestNo: EPA 300.0                |           |             | Analysis Date: 10/3/2020 |          |           | SeqNo: 3953950 |      |          |      |
| Analyte    |                 | Result            | PQL                              | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | RPD Ref Val    | %RPD | RPDLimit | Qual |

Fluoride 7.900 0.50 6.250 1.955 95.1 80 120 7.844 0.705 20

|            |                |                   |                                  |             |      |          |                          |             |      |                |      |  |
|------------|----------------|-------------------|----------------------------------|-------------|------|----------|--------------------------|-------------|------|----------------|------|--|
| Sample ID  | N042389-005BMS | SampType: MS      | TestCode: 300_W_FPGE Units: mg/L |             |      |          | Prep Date:               |             |      | RunNo: 147764  |      |  |
| Client ID: | ZZZZZZ         | Batch ID: R147764 | TestNo: EPA 300.0                |             |      |          | Analysis Date: 10/3/2020 |             |      | SeqNo: 3953952 |      |  |
| Analyte    | Result         | PQL               | SPK value                        | SPK Ref Val | %REC | LowLimit | HighLimit                | RPD Ref Val | %RPD | RPDLimit       | Qual |  |

Fluoride 7.969 0.50 6.250 2.066 94.4 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 |                                      |   |                                                              |



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California  
Work Order: N042435  
Project: PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 300\_W\_FPGE

|            |                 |           |         |           |            |             |      |                |           |             |         |          |      |
|------------|-----------------|-----------|---------|-----------|------------|-------------|------|----------------|-----------|-------------|---------|----------|------|
| Sample ID  | N042389-007BDUP | SampType: | DUP     | TestCode: | 300_W_FPGE | Units:      | mg/L | Prep Date:     |           | RunNo:      | 147764  |          |      |
| Client ID: | ZZZZZZ          | Batch ID: | R147764 | TestNo:   | EPA 300.0  |             |      | Analysis Date: | 10/3/2020 | SeqNo:      | 3953954 |          |      |
| Analyte    |                 | Result    |         | PQL       | SPK value  | SPK Ref Val | %REC | LowLimit       | HighLimit | RPD Ref Val | %RPD    | RPDLimit | Qual |
| Fluoride   |                 | 2.738     |         | 0.50      |            |             |      |                |           | 2.692       | 1.69    | 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 |   |                                                              |



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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 300\_W\_SO4PGE**

|            |                |                   |                      |                          |                |               |           |             |      |          |      |
|------------|----------------|-------------------|----------------------|--------------------------|----------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | MB-R147764_SO4 | SampType: MBLK    | TestCode: 300_W_SO4P | Units: mg/L              | Prep Date:     | RunNo: 147764 |           |             |      |          |      |
| Client ID: | PBW            | Batch ID: R147764 | TestNo: EPA 300.0    | Analysis Date: 10/3/2020 | SeqNo: 3954012 |               |           |             |      |          |      |
| Analyte    | Result         | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfate ND 0.50

|            |                 |                   |                      |                          |                |               |           |             |      |          |      |
|------------|-----------------|-------------------|----------------------|--------------------------|----------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | LCS-R147764_SO4 | SampType: LCS     | TestCode: 300_W_SO4P | Units: mg/L              | Prep Date:     | RunNo: 147764 |           |             |      |          |      |
| Client ID: | LCSW            | Batch ID: R147764 | TestNo: EPA 300.0    | Analysis Date: 10/3/2020 | SeqNo: 3954013 |               |           |             |      |          |      |
| Analyte    | Result          | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfate 3.930 0.50 4.000 0 98.3 90 110

|            |                |                   |                      |                          |                |               |           |             |      |          |      |
|------------|----------------|-------------------|----------------------|--------------------------|----------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042389-008BMS | SampType: MS      | TestCode: 300_W_SO4P | Units: mg/L              | Prep Date:     | RunNo: 147764 |           |             |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147764 | TestNo: EPA 300.0    | Analysis Date: 10/3/2020 | SeqNo: 3954017 |               |           |             |      |          |      |
| Analyte    | Result         | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfate 3263.440 100 800.0 2438 103 80 120

|            |                 |                   |                      |                          |                |               |           |             |      |          |      |
|------------|-----------------|-------------------|----------------------|--------------------------|----------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042389-008BMSD | SampType: MSD     | TestCode: 300_W_SO4P | Units: mg/L              | Prep Date:     | RunNo: 147764 |           |             |      |          |      |
| Client ID: | ZZZZZZ          | Batch ID: R147764 | TestNo: EPA 300.0    | Analysis Date: 10/3/2020 | SeqNo: 3954018 |               |           |             |      |          |      |
| Analyte    | Result          | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfate 3245.480 100 800.0 2438 101 80 120 3263 0.552 20

|            |                |                   |                      |                          |                |               |           |             |      |          |      |
|------------|----------------|-------------------|----------------------|--------------------------|----------------|---------------|-----------|-------------|------|----------|------|
| Sample ID  | N042389-009BMS | SampType: MS      | TestCode: 300_W_SO4P | Units: mg/L              | Prep Date:     | RunNo: 147764 |           |             |      |          |      |
| Client ID: | ZZZZZZ         | Batch ID: R147764 | TestNo: EPA 300.0    | Analysis Date: 10/3/2020 | SeqNo: 3954019 |               |           |             |      |          |      |
| Analyte    | Result         | PQL               | SPK value            | SPK Ref Val              | %REC           | LowLimit      | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfate 3225.740 100 800.0 2409 102 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 |   |                                                              |



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CLIENT: ARCADIS U.S., Inc. - California  
Work Order: N042435  
Project: PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 300\_W\_SO4PGE

|            |                 |                   |                                  |             |      |                          |           |             |                |          |      |
|------------|-----------------|-------------------|----------------------------------|-------------|------|--------------------------|-----------|-------------|----------------|----------|------|
| Sample ID  | N042389-011BDUP | SampType: DUP     | TestCode: 300_W_SO4P Units: mg/L |             |      | Prep Date:               |           |             | RunNo: 147764  |          |      |
| Client ID: | ZZZZZZ          | Batch ID: R147764 | TestNo: EPA 300.0                |             |      | Analysis Date: 10/3/2020 |           |             | SeqNo: 3954020 |          |      |
| Analyte    | Result          | PQL               | SPK value                        | SPK Ref Val | %REC | LowLimit                 | HighLimit | RPD Ref Val | %RPD           | RPDLimit | Qual |
| Sulfate    | 2683.560        | 100               |                                  |             |      |                          |           | 2631        | 1.99           | 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 |   |                                                              |



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# ANALYTICAL RESULTS

Print Date: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-001

**Client Sample ID:** CW-04D-LF-Q420  
**Collection Date:** 10/2/2020 8:36:00 AM  
**Matrix:** GROUNDWATER

| Analyses                                      | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|-----------------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| <b>NITRATE/NITRITE-N BY CADMIUM REDUCTION</b> |                   |      |           |      |              |    |                     |
| <b>SM4500-NO3F</b>                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201012B                     | QC Batch: R147956 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                          | 2.9               | 0.16 | 0.25      |      | mg/L         | 5  | 10/12/2020 06:14 PM |

|                    |    |                                                              |                                            |                                     |
|--------------------|----|--------------------------------------------------------------|--------------------------------------------|-------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E                                          | Value above quantitation range      |
|                    | H  | Holding times for preparation or analysis exceeded           | ND                                         | Not Detected 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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# ASSET Laboratories

# ANALYTICAL RESULTS

Print Date: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-002

**Client Sample ID:** CW-04M-LF-Q420  
**Collection Date:** 10/2/2020 9:27:00 AM  
**Matrix:** GROUNDWATER

| Analyses                               | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|----------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| NITRATE/NITRITE-N BY CADMIUM REDUCTION |                   |      |           |      |              |    |                     |
| SM4500-NO3F                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201012B              | QC Batch: R147956 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                   | 2.7               | 0.16 | 0.25      |      | mg/L         | 5  | 10/12/2020 06:15 PM |

|                    |    |                                                              |                                            |                                     |
|--------------------|----|--------------------------------------------------------------|--------------------------------------------|-------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E                                          | Value above quantitation range      |
|                    | H  | Holding times for preparation or analysis exceeded           | ND                                         | Not Detected 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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 ORELAP/NELAP Cert 4046

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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 4500N03F\_W\_PGE**

|                      |            |           |         |           |            |             |      |                |            |             |         |          |      |
|----------------------|------------|-----------|---------|-----------|------------|-------------|------|----------------|------------|-------------|---------|----------|------|
| Sample ID            | MB-R147956 | SampType: | MBLK    | TestCode: | 4500N03F_W | Units:      | mg/L | Prep Date:     |            | RunNo:      | 147956  |          |      |
| Client ID:           | PBW        | Batch ID: | R147956 | TestNo:   | SM4500-NO3 |             |      | Analysis Date: | 10/12/2020 | SeqNo:      | 3965856 |          |      |
| 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-R147956 | SampType: | LCS     | TestCode: | 4500N03F_W | Units:      | mg/L | Prep Date:     |            | RunNo:      | 147956  |          |      |
| Client ID:           | LCSW        | Batch ID: | R147956 | TestNo:   | SM4500-NO3 |             |      | Analysis Date: | 10/12/2020 | SeqNo:      | 3965857 |          |      |
| Analyte              |             | Result    |         | PQL       | SPK value  | SPK Ref Val | %REC | LowLimit       | HighLimit  | RPD Ref Val | %RPD    | RPDLimit | Qual |
| Nitrate/Nitrite as N |             | 0.485     |         | 0.050     | 0.5000     | 0           | 97.1 | 85             | 115        |             |         |          |      |

|                      |                 |           |         |           |            |             |      |                |            |             |         |          |      |
|----------------------|-----------------|-----------|---------|-----------|------------|-------------|------|----------------|------------|-------------|---------|----------|------|
| Sample ID            | N042405-003BDUP | SampType: | DUP     | TestCode: | 4500N03F_W | Units:      | mg/L | Prep Date:     |            | RunNo:      | 147956  |          |      |
| Client ID:           | ZZZZZZ          | Batch ID: | R147956 | TestNo:   | SM4500-NO3 |             |      | Analysis Date: | 10/12/2020 | SeqNo:      | 3965859 |          |      |
| Analyte              |                 | Result    |         | PQL       | SPK value  | SPK Ref Val | %REC | LowLimit       | HighLimit  | RPD Ref Val | %RPD    | RPDLimit | Qual |
| Nitrate/Nitrite as N |                 | 0.688     |         | 0.050     |            |             |      |                |            | 0.6388      | 7.42    | 20       |      |

|                      |                |           |         |           |            |             |      |                |            |             |         |          |      |
|----------------------|----------------|-----------|---------|-----------|------------|-------------|------|----------------|------------|-------------|---------|----------|------|
| Sample ID            | N042405-003BMS | SampType: | MS      | TestCode: | 4500N03F_W | Units:      | mg/L | Prep Date:     |            | RunNo:      | 147956  |          |      |
| Client ID:           | ZZZZZZ         | Batch ID: | R147956 | TestNo:   | SM4500-NO3 |             |      | Analysis Date: | 10/12/2020 | SeqNo:      | 3965860 |          |      |
| Analyte              |                | Result    |         | PQL       | SPK value  | SPK Ref Val | %REC | LowLimit       | HighLimit  | RPD Ref Val | %RPD    | RPDLimit | Qual |
| Nitrate/Nitrite as N |                | 1.154     |         | 0.050     | 0.5000     | 0.6388      | 103  | 75             | 125        |             |         |          |      |

|                      |                 |           |         |           |            |             |      |                |            |             |         |          |      |
|----------------------|-----------------|-----------|---------|-----------|------------|-------------|------|----------------|------------|-------------|---------|----------|------|
| Sample ID            | N042405-003BMSD | SampType: | MSD     | TestCode: | 4500N03F_W | Units:      | mg/L | Prep Date:     |            | RunNo:      | 147956  |          |      |
| Client ID:           | ZZZZZZ          | Batch ID: | R147956 | TestNo:   | SM4500-NO3 |             |      | Analysis Date: | 10/12/2020 | SeqNo:      | 3965861 |          |      |
| Analyte              |                 | Result    |         | PQL       | SPK value  | SPK Ref Val | %REC | LowLimit       | HighLimit  | RPD Ref Val | %RPD    | RPDLimit | Qual |
| Nitrate/Nitrite as N |                 | 1.122     |         | 0.050     | 0.5000     | 0.6388      | 96.7 | 75             | 125        | 1.154       | 2.78    | 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 |                                      |   |                                                              |


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 ELAP Cert 2921  
 EPA ID CA01638

**NEVADA** | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
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# ANALYTICAL RESULTS

Print Date: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-001

**Client Sample ID:** CW-04D-LF-Q420  
**Collection Date:** 10/2/2020 8:36:00 AM  
**Matrix:** GROUNDWATER

| Analyses                    | Result           | MDL | PQL | Qual             | Units     | DF             | Date Analyzed       |
|-----------------------------|------------------|-----|-----|------------------|-----------|----------------|---------------------|
| <b>TOTAL METALS BY ICP</b>  |                  |     |     |                  |           |                |                     |
|                             | <b>EPA 3010A</b> |     |     | <b>EPA 6010B</b> |           |                |                     |
| RunID: NV00922-ICP2_201010C | QC Batch: 82481  |     |     | PrepDate:        | 10/8/2020 | Analyst: admin |                     |
| Iron                        | 99               | 18  | 20  |                  | ug/L      | 1              | 10/10/2020 12:52 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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: 19-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042435-002

**Client Sample ID:** CW-04M-LF-Q420  
**Collection Date:** 10/2/2020 9:27:00 AM  
**Matrix:** GROUNDWATER

| Analyses                    | Result           | MDL | PQL | Qual             | Units     | DF             | Date Analyzed       |
|-----------------------------|------------------|-----|-----|------------------|-----------|----------------|---------------------|
| <b>TOTAL METALS BY ICP</b>  |                  |     |     |                  |           |                |                     |
|                             | <b>EPA 3010A</b> |     |     | <b>EPA 6010B</b> |           |                |                     |
| RunID: NV00922-ICP2_201010C | QC Batch: 82481  |     |     | PrepDate:        | 10/8/2020 | Analyst: admin |                     |
| Iron                        | 290              | 18  | 20  |                  | ug/L      | 1              | 10/10/2020 12:58 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042435  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 6010\_WPGEPPB**

|                           |                        |                                    |                    |                                  |                                                        |
|---------------------------|------------------------|------------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID <b>MB-82481</b> | SampType: <b>MBLK</b>  | TestCode: <b>6010_WPGE</b>         | Units: <b>ug/L</b> | Prep Date: <b>10/8/2020</b>      | RunNo: <b>147930</b>                                   |
| Client ID: <b>PBW</b>     | Batch ID: <b>82481</b> | TestNo: <b>EPA 6010B EPA 3010A</b> |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3963391</b>                                  |
| Analyte                   | Result                 | PQL                                | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Iron                      | ND                     | 20                                 |                    |                                  |                                                        |

|                            |                        |                                    |                    |                                  |                                                        |
|----------------------------|------------------------|------------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID <b>LCS-82481</b> | SampType: <b>LCS</b>   | TestCode: <b>6010_WPGE</b>         | Units: <b>ug/L</b> | Prep Date: <b>10/8/2020</b>      | RunNo: <b>147930</b>                                   |
| Client ID: <b>LCSW</b>     | Batch ID: <b>82481</b> | TestNo: <b>EPA 6010B EPA 3010A</b> |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3963392</b>                                  |
| Analyte                    | Result                 | PQL                                | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Iron                       | 95.143                 | 20                                 | 100.0              | 0                                | 95.1 85 115                                            |

|                                  |                        |                                    |                    |                                  |                                                        |
|----------------------------------|------------------------|------------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID <b>N042405-001E-PS</b> | SampType: <b>PS</b>    | TestCode: <b>6010_WPGE</b>         | Units: <b>ug/L</b> | Prep Date:                       | RunNo: <b>147930</b>                                   |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>82481</b> | TestNo: <b>EPA 6010B EPA 3010A</b> |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3963395</b>                                  |
| Analyte                          | Result                 | PQL                                | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Iron                             | 229.222                | 20                                 | 100.0              | 124.8                            | 104 80 120                                             |

|                                  |                        |                                    |                    |                                  |                                                        |
|----------------------------------|------------------------|------------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID <b>N042405-001E-MS</b> | SampType: <b>MS</b>    | TestCode: <b>6010_WPGE</b>         | Units: <b>ug/L</b> | Prep Date: <b>10/8/2020</b>      | RunNo: <b>147930</b>                                   |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>82481</b> | TestNo: <b>EPA 6010B EPA 3010A</b> |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3963396</b>                                  |
| Analyte                          | Result                 | PQL                                | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Iron                             | 229.798                | 20                                 | 100.0              | 124.8                            | 105 75 125                                             |

|                                   |                        |                                    |                    |                                  |                                                        |
|-----------------------------------|------------------------|------------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID <b>N042405-001E-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>6010_WPGE</b>         | Units: <b>ug/L</b> | Prep Date: <b>10/8/2020</b>      | RunNo: <b>147930</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82481</b> | TestNo: <b>EPA 6010B EPA 3010A</b> |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3963397</b>                                  |
| Analyte                           | Result                 | PQL                                | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Iron                              | 239.242                | 20                                 | 100.0              | 124.8                            | 114 75 125 229.8 4.03 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 |                                      |   |                                                              |


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ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

## CHAIN OF CUSTODY RECORD

Page 1 of 1

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11060 Artesia Blvd., Ste C, Cerritos, CA 90703  
California: P: 562.219.7435 F: 562.219.7435  
www.assetlaboratories.com

|                                                                     |                           |                                    |             |                            |        |                 |              |                |       |                          |         |
|---------------------------------------------------------------------|---------------------------|------------------------------------|-------------|----------------------------|--------|-----------------|--------------|----------------|-------|--------------------------|---------|
| Client: Arcadis                                                     |                           | Report to: Dan Bush                |             | Bill to: Marty Bloes       |        | EDD Requirement |              | QA/QC          |       | Sample Receipt Condition |         |
| Address: 1410 Rocky Ridge Dr # 330                                  |                           | Company: Arcadis                   |             | Address:                   |        | Excel EDD       |              | RTNE           |       | Y N                      |         |
| Address: Roseville, CA 95661                                        |                           | Email: dan.bush@arcadis.com        |             | Address:                   |        | Geotracker      |              | RWQCB          |       | 1. Chilled               |         |
| Phone: 916-786-3302                                                 |                           | Email: daniel.moore@critigen.com   |             | Address:                   |        | LabSpec         |              | CalTrans       |       | 2. Headspace             |         |
| Fax:                                                                |                           | Address: 1410 Rocky Ridge Dr # 330 |             | Email to: mbloes@pivox.com |        | Others          |              | LEVEL III      |       | 3. Container Intact      |         |
| Submitted By: Riggie Tep                                            |                           | Roseville, CA 95661                |             | P.O.#                      |        | Specify:        |              | LEVEL IV       |       | 4. Seal Present          |         |
| Title: Field Tech                                                   |                           | Phone: 916-786-3302                |             | Fax: 949-727-1400, ext 200 |        | RWQCB           |              | Regulatory     |       | 5. IR number             |         |
| Signature: PO                                                       |                           | Date: 10/02/20                     |             | Sampled By: Riggie Tep     |        | Global ID:      |              | Specify State: |       | 6. Method of Cooling:    |         |
| I hereby authorize ASSET Labs to perform the tests indicated below. |                           | Signature: PO                      |             | Date: 10/02/20             |        |                 |              |                |       | Sample Temp: 2.0°        |         |
| Project Name: PG&E Topock - CMP                                     |                           | Signature: PO                      |             | Date: 10/02/20             |        |                 |              |                |       | Tracking No.:            |         |
| Project Number: RC000753.801D                                       |                           | Signature: PO                      |             | Date: 10/02/20             |        |                 |              |                |       | Remarks:                 |         |
| Item No.                                                            | Laboratory Work Order No. | Sample ID/Location                 | Sample Date | Sample Time                | Others | Matrix          | Ground-water | Sediment       | NPDES | Surface                  | Remarks |
| 1                                                                   | N042435-01                | CW-04D-LF-Q218                     | 10/2/2020   | 8:36                       |        | 250 mL poly     | X            |                |       |                          |         |
| 2                                                                   | -02                       | CW-04M-LF-Q420                     | 10/2/2020   | 9:27                       |        | 1 L poly        |              |                |       |                          |         |
| 3                                                                   | -03                       | EB-702-Q420                        | 10/2/2020   | 9:34                       |        | 1 L poly        |              |                |       |                          |         |
| 4                                                                   |                           |                                    |             |                            |        | 1 L poly        |              |                |       |                          |         |
| 5                                                                   |                           |                                    |             |                            |        | 1 L poly        |              |                |       |                          |         |
| 6                                                                   |                           |                                    |             |                            |        | 1 L poly        |              |                |       |                          |         |
| 7                                                                   |                           |                                    |             |                            |        | 1 L poly        |              |                |       |                          |         |
| 8                                                                   |                           |                                    |             |                            |        | 1 L poly        |              |                |       |                          |         |
| 9                                                                   |                           |                                    |             |                            |        | 1 L poly        |              |                |       |                          |         |
| 10                                                                  |                           |                                    |             |                            |        | 1 L poly        |              |                |       |                          |         |

|                                                               |                          |                                                               |                          |
|---------------------------------------------------------------|--------------------------|---------------------------------------------------------------|--------------------------|
| Relinquished by (Signature and Printed Name): PO Riggie Tep   | Date/Time: 10/02/20 1145 | Relinquished by (Signature and Printed Name): JLC             | Date/Time: 10/02/20 1145 |
| Relinquished by (Signature and Printed Name): JLC             | Date/Time: 10/02/20 1355 | Relinquished by (Signature and Printed Name): Delia Hernandez | Date/Time: 10/02/20 1355 |
| Relinquished by (Signature and Printed Name): Delia Hernandez | Date/Time: 10/02/20 1355 | Relinquished by (Signature and Printed Name): Delia Hernandez | Date/Time: 10/02/20 1355 |

|                                                                                                                                        |                          |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|--|
| Turn Around Time (TAT)                                                                                                                 |                          |  |  |
| <input type="checkbox"/> A                                                                                                             | < 24 Hrs or Same Day TAT |  |  |
| <input type="checkbox"/> B                                                                                                             | = Next Workday           |  |  |
| <input type="checkbox"/> C                                                                                                             | = 2 Workdays             |  |  |
| <input type="checkbox"/> D                                                                                                             | = 3 Workdays             |  |  |
| <input checked="" type="checkbox"/> 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, Ti, V, Zn, K, Na |                          |  |  |

|                 |                    |                                                                     |       |
|-----------------|--------------------|---------------------------------------------------------------------|-------|
| Preservatives:  |                    |                                                                     |       |
| H=HCL           | N=HNO <sub>3</sub> | S=H <sub>2</sub> SO <sub>4</sub>                                    | C=4°C |
| Z=Zn(AC)        | O=NaOH             | T=Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>                     |       |
| Other/Specify:  | B                  | (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> /NH <sub>4</sub> OH |       |
| Container Type: |                    |                                                                     |       |
| T=Tube          | V=VOA              | P=Poly                                                              |       |
| 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: 10/2/2020

Workorder: N042435

Rep sample Temp (Deg C): 2.0

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

Comments: See client's Correspondence.

For:

Checklist Completed By: BHN

*YAJ*

10/5/2020

Reviewed By:

*MBC*

10/6/2020

**Subject:** RE: Sample ID Update - N042435  
**From:** Tina Rice <Tina.Rice@critigen.com>  
**Date:** 10/5/2020, 11:43 AM  
**To:** Yoandra Rodriguez <yoandra@assetlaboratories.com>

Great!

**From:** Yoandra Rodriguez <yoandra@assetlaboratories.com>  
**Sent:** Monday, October 5, 2020 11:30 AM  
**To:** Tina Rice <Tina.Rice@critigen.com>  
**Cc:** Madsen, Laura <Laura.Madsen@arcadis.com>; maryann.balilu@assetlaboratoriesph.com; rustico.aquino@assetlaboratoriesph.com  
**Subject:** Re: Sample ID Update - N042435

Hi Tina,

ID has been updated.

Thanks!

On 10/5/2020 11:26 AM, Tina Rice wrote:

Hi Yoandra,

Could you please make the following update:

CW-04D-LF-Q218 to CW-04D-LF-Q420

Thanks!

Tina

**Tina Rice**

**Sr EDM Analyst**

**CRITIGEN**

[Tina.Rice@critigen.com](mailto:Tina.Rice@critigen.com)

[critigen.com](http://critigen.com)

Virus-free. [www.avast.com](http://www.avast.com)

# ASSET Laboratories

## WORK ORDER Summary

05-Oct-20

**WorkOrder:** N042435

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/2/2020

**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 |
|--------------|------------------|----------------------|------------|-------------|-------------|-------------------------------------------|--------------------------|--------------------------|-------------------------------------|---------|
| N042435-001A | CW-04D-LF-Q420   | 10/2/2020 8:36:00 AM | 10/14/2020 | Groundwater | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042435-001B |                  |                      | 10/14/2020 |             | SM4500-NH3D | AMMONIA-N BY ION SELECTIVE ELECTRODE      | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SUB     |
| N042435-001C |                  |                      | 10/14/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 245.1   | DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             |             | DISSOLVED MERCURY PREP                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042435-001D |                  |                      | 10/14/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             |             | Total Dissolved Solids Prep               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | SM 2130B    | TURBIDITY                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | SM 2320 B   | ALKALINITY, SPECIATED                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | SM 1030F1   | Cation-Anion Balance Calculation          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042435-001E |                  |                      | 10/14/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042435-001F |                  |                      | 10/14/2020 |             | EPA 3010A   | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 6010B   | TOTAL METALS BY ICP                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |

# ASSET Laboratories

## WORK ORDER Summary

05-Oct-20

**WorkOrder:** N042435

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/2/2020

**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 |
|--------------|------------------|----------------------|------------|-------------|-------------|-------------------------------------------|--------------------------|--------------------------|-------------------------------------|---------|
| N042435-002A | CW-04M-LF-Q420   | 10/2/2020 9:27:00 AM | 10/14/2020 | Groundwater | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042435-002B |                  |                      | 10/14/2020 |             | SM4500-NH3D | AMMONIA-N BY ION SELECTIVE ELECTRODE      | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SUB     |
| N042435-002C |                  |                      | 10/14/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 245.1   | DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             |             | DISSOLVED MERCURY PREP                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042435-002D |                  |                      | 10/14/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             |             | Total Dissolved Solids Prep               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | SM 2130B    | TURBIDITY                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | SM 2320 B   | ALKALINITY, SPECIATED                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | SM 1030F1   | Cation-Anion Balance Calculation          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042435-002E |                  |                      | 10/14/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042435-002F |                  |                      | 10/14/2020 |             | EPA 3010A   | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/14/2020 |             | EPA 6010B   | TOTAL METALS BY ICP                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |

WORK ORDER Summary

05-Oct-20

WorkOrder: N042435

Client ID: ARCUS02

Project: PG&E Topock - CMP, RC000753.801D

QC Level: Level IV

Date Received: 10/2/2020

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 |
|--------------|------------------|----------------------|------------|-------------|-----------|---------------------------|--------------------------|--------------------------|--------------------------|---------|
| N042435-003A | EB-702-Q420      | 10/2/2020 9:34:00 AM | 10/14/2020 | Groundwater | EPA 218.6 | Hexavalent Chromium by IC | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042435-004A | FOLDER           | 10/16/2020           | 10/14/2020 |             | EDD       | RWQCB                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB     |
|              |                  |                      | 10/14/2020 |             | Folder    | Level IV Report           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB     |
|              |                  |                      | 10/14/2020 |             | Folder    | Folder                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB     |
|              |                  |                      | 10/16/2020 |             | Folder    | Folder                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB     |



## ASSET Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118

www.atl-labs.com

TEL: 7023072659

FAX: 7023072691

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

**QC Level: Level IV**

**Subcontractor:**

BC Labs  
4100 Atlas Court  
Bakersfield, CA 93308

TEL: (661) 327-4911  
FAX: (661) 327-1918  
Acct #:

Field Sampler: Riggie Tep

**06-Oct-20**

| Sample ID                     | Matrix      | Date Collected       | Bottle Type | Requested Tests |  |  |
|-------------------------------|-------------|----------------------|-------------|-----------------|--|--|
|                               |             |                      |             | SM4500-NH3D     |  |  |
| N042435-001B / CW-04D-LF-Q420 | Groundwater | 10/2/2020 8:36:00 AM | 16OZP       | 1               |  |  |
| N042435-002B / CW-04M-LF-Q420 | Groundwater | 10/2/2020 9:27:00 AM | 16OZP       | 1               |  |  |

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com

Please use PO#:N42435A Please email Invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: Standard TAT.

Please analyze for Ammonia by SM4500NH3D. EDD Requirement Labspec7 edata.

GSO #: 550695498

|                             |                  |                    |                  |
|-----------------------------|------------------|--------------------|------------------|
|                             | <b>Date/Time</b> |                    | <b>Date/Time</b> |
| Relinquished by: <u>YRT</u> | 10/6/2020 1630   | Received by: _____ | _____            |
| Relinquished by: _____      | _____            | Received by: _____ | _____            |



**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949



Date of Report: 10/13/2020

Marlon B. Cartin

ASSET Laboratories- Las Vegas

3151-3153 W. Post Rd  
Las Vegas, NV 89118

Client Project: N042435

BCL Project: Level IV + labSpec7

BCL Work Order: 2029321

Invoice ID: B394604

Enclosed are the results of analyses for samples received by the laboratory on 10/7/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval  
Client Service Rep

Stuart Buttram  
Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

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**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 2029321 Page 1 of 2

Page 1 of 1

# CHAIN-OF-CUSTODY RECORD

## ASSET Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118  
www.asset-labs.com

TEL: 7023072691 FAX: 7023072691



**Subcontractor:**

BC Labs  
4100 Atlas Court  
Bakersfield, CA 93308

TEL: (661) 327-4911  
FAX: (661) 327-1918  
Acct #:

QC Level: Level IV

Field Sampler: Reggie Tep

06-Oct-20

| Sample ID                     | Matrix      | Date Collected       | Bottle Type | SM4500-NH3D | Requested Tests |
|-------------------------------|-------------|----------------------|-------------|-------------|-----------------|
| N042435-001B / CW-04D-LF-Q420 | Groundwater | 10/2/2020 8:36:00 AM | 16OZP       | 1           |                 |
| N042435-002B / CW-04M-LF-Q420 | Groundwater | 10/2/2020 9:27:00 AM | 16OZP       | 1           |                 |



**General Comments:**

PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sammy.lorenzo@assetlaboratories.com

Please use PO# N42435A. Please email invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: Standard TAT.

Please analyze for Ammonia by SM4500NH3D. EDO Requirement Labspec7 edata.

GSO #: 550695498

|                  |                    |           |                |
|------------------|--------------------|-----------|----------------|
| Relinquished by: | <u>YLT</u>         | Date/Time | 10/6/2020 1630 |
| Relinquished by: | <u>[signature]</u> | Date/Time | 10-7-20 1040   |

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 2029321 Page 2 of 2

| BC LABORATORIES INC.                                                                                                                                                                                                                                                                       |  | COOLER RECEIPT FORM                                                                                      |          | Page 2 of 2                                              |   |   |   |   |   |   |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------|---|---|---|---|---|---|----|
| Submission #: 2029321                                                                                                                                                                                                                                                                      |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| <b>SHIPPING INFORMATION</b>                                                                                                                                                                                                                                                                |  | <b>SHIPPING CONTAINER</b>                                                                                |          | <b>FREE LIQUID</b>                                       |   |   |   |   |   |   |    |
| Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/>                                                                                                                                                        |  | Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> |          | YES <input type="checkbox"/> NO <input type="checkbox"/> |   |   |   |   |   |   |    |
| BC Lab Field Service <input type="checkbox"/> Other (Specify) <u>GLS</u>                                                                                                                                                                                                                   |  | Other <input type="checkbox"/> (Specify) _____                                                           |          | W / S                                                    |   |   |   |   |   |   |    |
| Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____                                                                                                                        |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____                                                                                                                                             |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| COC Received<br><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                        |  | Emissivity: <u>97</u> Container: <u>PE</u> Thermometer ID: <u>274</u>                                    |          | Date/Time: <u>10-7-20 10:10</u>                          |   |   |   |   |   |   |    |
|                                                                                                                                                                                                                                                                                            |  | Temperature: (A) <u>1.2</u> °C / (C) <u>1.0</u> °C                                                       |          | Analyst Init: <u>TKJ</u>                                 |   |   |   |   |   |   |    |
| <b>SAMPLE CONTAINERS</b>                                                                                                                                                                                                                                                                   |  | <b>SAMPLE NUMBERS</b>                                                                                    |          |                                                          |   |   |   |   |   |   |    |
|                                                                                                                                                                                                                                                                                            |  | 1                                                                                                        | 2        | 3                                                        | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| QT PE UNPRES                                                                                                                                                                                                                                                                               |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| 4oz / 8oz / 16oz PE UNPRES                                                                                                                                                                                                                                                                 |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| 2oz Cr <sup>6+</sup>                                                                                                                                                                                                                                                                       |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| QT INORGANIC CHEMICAL METALS                                                                                                                                                                                                                                                               |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz                                                                                                                                                                                                                                                 |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| PT CYANIDE                                                                                                                                                                                                                                                                                 |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| PT NITROGEN FORMS                                                                                                                                                                                                                                                                          |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| PT TOTAL SULFIDE                                                                                                                                                                                                                                                                           |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| 2oz NITRATE / NITRITE                                                                                                                                                                                                                                                                      |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| PT TOTAL ORGANIC CARBON <u>plastic</u>                                                                                                                                                                                                                                                     |  | <u>A</u>                                                                                                 | <u>A</u> |                                                          |   |   |   |   |   |   |    |
| PT CHEMICAL OXYGEN DEMAND                                                                                                                                                                                                                                                                  |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| PIA PHENOLICS                                                                                                                                                                                                                                                                              |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| 40ml VOA VIAL TRAVEL BLANK                                                                                                                                                                                                                                                                 |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| 40ml VOA VIAL                                                                                                                                                                                                                                                                              |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| QT EPA 1664                                                                                                                                                                                                                                                                                |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| PT ODOR                                                                                                                                                                                                                                                                                    |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| RADIOLOGICAL                                                                                                                                                                                                                                                                               |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| BACTERIOLOGICAL                                                                                                                                                                                                                                                                            |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| 40 ml VOA VIAL- 504                                                                                                                                                                                                                                                                        |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| QT EPA 508/509/510                                                                                                                                                                                                                                                                         |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| QT EPA 515.1/515                                                                                                                                                                                                                                                                           |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| QT EPA 525                                                                                                                                                                                                                                                                                 |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| QT EPA 525 TRAVEL BLANK                                                                                                                                                                                                                                                                    |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| 40ml EPA 547                                                                                                                                                                                                                                                                               |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| 40ml EPA 531.1                                                                                                                                                                                                                                                                             |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| 8oz EPA 548                                                                                                                                                                                                                                                                                |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| QT EPA 549                                                                                                                                                                                                                                                                                 |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| QT EPA 8015M                                                                                                                                                                                                                                                                               |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| QT EPA 8270                                                                                                                                                                                                                                                                                |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| 1oz / 16oz / 32oz AMBER                                                                                                                                                                                                                                                                    |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| 1oz / 16oz / 32oz JAR                                                                                                                                                                                                                                                                      |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| SOIL SLEEVE                                                                                                                                                                                                                                                                                |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| CB VIAL                                                                                                                                                                                                                                                                                    |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| LASTIC BAG                                                                                                                                                                                                                                                                                 |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| EDLAR BAG                                                                                                                                                                                                                                                                                  |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| FERROUS IRON                                                                                                                                                                                                                                                                               |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| INCORE                                                                                                                                                                                                                                                                                     |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| MART KIT                                                                                                                                                                                                                                                                                   |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |
| UMMA CANISTER                                                                                                                                                                                                                                                                              |  |                                                                                                          |          |                                                          |   |   |   |   |   |   |    |

Comments:

Sample Numbering Completed By:

= Actual / C = Corrected

Date/Time: 10-8-20

Rev 21 05/23/2016

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ASSET Laboratories- Las Vegas  
3151-3153 W. Post Rd  
Las Vegas, NV 89118

**Reported:** 10/13/2020 14:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042435  
**Project Manager:** Marlon B. Cartin

## Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information |                               |                       |                  |
|------------|---------------------------|-------------------------------|-----------------------|------------------|
| 2029321-01 | <b>COC Number:</b>        | ---                           | <b>Receive Date:</b>  | 10/07/2020 10:40 |
|            | <b>Project Number:</b>    | ---                           | <b>Sampling Date:</b> | 10/02/2020 08:36 |
|            | <b>Sampling Location:</b> | ---                           | <b>Sample Depth:</b>  | ---              |
|            | <b>Sampling Point:</b>    | N042435-001B / CW-04D-LF-Q420 | <b>Lab Matrix:</b>    | Water            |
|            | <b>Sampled By:</b>        | Reggie Tep                    | <b>Sample Type:</b>   | Groundwater      |
|            |                           |                               |                       |                  |
| 2029321-02 | <b>COC Number:</b>        | ---                           | <b>Receive Date:</b>  | 10/07/2020 10:40 |
|            | <b>Project Number:</b>    | ---                           | <b>Sampling Date:</b> | 10/02/2020 09:27 |
|            | <b>Sampling Location:</b> | ---                           | <b>Sample Depth:</b>  | ---              |
|            | <b>Sampling Point:</b>    | N042435-002B / CW-04M-LF-Q420 | <b>Lab Matrix:</b>    | Water            |
|            | <b>Sampled By:</b>        | Reggie Tep                    | <b>Sample Type:</b>   | Groundwater      |
|            |                           |                               |                       |                  |

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ASSET Laboratories- Las Vegas  
3151-3153 W. Post Rd  
Las Vegas, NV 89118

**Reported:** 10/13/2020 14:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042435  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

|                          |               |                            |                                                                |               |                |                  |              |
|--------------------------|---------------|----------------------------|----------------------------------------------------------------|---------------|----------------|------------------|--------------|
| <b>BCL Sample ID:</b>    | 2029321-01    | <b>Client Sample Name:</b> | N042435-001B / CW-04D-LF-Q420, 10/2/2020 8:36:00AM, Reggie Tep |               |                |                  |              |
| <b>Constituent</b>       | <b>Result</b> | <b>Units</b>               | <b>RL</b>                                                      | <b>Method</b> | <b>MB Bias</b> | <b>Lab Quals</b> | <b>Run #</b> |
| Ammonia as N (Distilled) | 0.21          | mg/L                       | 0.20                                                           | SM-4500-NH3G  | ND             |                  | 1            |

| Run # | Method       | Prep Date      | Run            |  | Analyst | Instrument | Dilution | QC       |              |
|-------|--------------|----------------|----------------|--|---------|------------|----------|----------|--------------|
|       |              |                | Date/Time      |  |         |            |          | Batch ID | Prep Method  |
| 1     | SM-4500-NH3G | 10/10/20 14:30 | 10/12/20 15:26 |  | JMH2    | SC-1       | 1.079    | B089480  | SM 4500-NH3G |

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3151-3153 W. Post Rd  
Las Vegas, NV 89118

**Reported:** 10/13/2020 14:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042435  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

|                          |               |                            |                                                                |               |                |                  |              |
|--------------------------|---------------|----------------------------|----------------------------------------------------------------|---------------|----------------|------------------|--------------|
| <b>BCL Sample ID:</b>    | 2029321-02    | <b>Client Sample Name:</b> | N042435-002B / CW-04M-LF-Q420, 10/2/2020 9:27:00AM, Reggie Tep |               |                |                  |              |
| <b>Constituent</b>       | <b>Result</b> | <b>Units</b>               | <b>RL</b>                                                      | <b>Method</b> | <b>MB Bias</b> | <b>Lab Quals</b> | <b>Run #</b> |
| Ammonia as N (Distilled) | ND            | mg/L                       | 0.20                                                           | SM-4500-NH3G  | ND             |                  | 1            |

| Run # | Method       | Prep Date      | Run            |  | Analyst | Instrument | Dilution | QC       |              |
|-------|--------------|----------------|----------------|--|---------|------------|----------|----------|--------------|
|       |              |                | Date/Time      |  |         |            |          | Batch ID | Prep Method  |
| 1     | SM-4500-NH3G | 10/10/20 14:30 | 10/12/20 15:27 |  | JMH2    | SC-1       | 1.081    | B089480  | SM 4500-NH3G |

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Las Vegas, NV 89118

**Reported:** 10/13/2020 14:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042435  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

### Quality Control Report - Method Blank Analysis

| Constituent                 | QC Sample ID | MB Result | Units | RL   | Lab Quals |
|-----------------------------|--------------|-----------|-------|------|-----------|
| <b>QC Batch ID: B089480</b> |              |           |       |      |           |
| Ammonia as N (Distilled)    | B089480-BLK1 | ND        | mg/L  | 0.20 |           |



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**Reported:** 10/13/2020 14:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042435  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

### Quality Control Report - Laboratory Control Sample

|                      |                          |             |        |             |        |                  |     | Control Limits   |          |     |
|----------------------|--------------------------|-------------|--------|-------------|--------|------------------|-----|------------------|----------|-----|
| Constituent          | QC Sample ID             | Type        | Result | Spike Level | Units  | Percent Recovery | RPD | Percent Recovery | RPD      | Lab |
| Quals                |                          |             |        |             |        |                  |     |                  |          |     |
| QC Batch ID: B089480 |                          |             |        |             |        |                  |     |                  |          |     |
|                      | Ammonia as N (Distilled) | B089480-BS1 | LCS    | 2.0833      | 2.0000 | mg/L             | 104 |                  | 85 - 115 |     |

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**Reported:** 10/13/2020 14:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042435  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

|                          |      |                       |               |        |             |       |     |                  | Control Limits |                  |           |
|--------------------------|------|-----------------------|---------------|--------|-------------|-------|-----|------------------|----------------|------------------|-----------|
| Constituent              | Type | Source Sample ID      | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | RPD            | Percent Recovery | Lab Quals |
| QC Batch ID: B089480     |      | Used client sample: N |               |        |             |       |     |                  |                |                  |           |
| Ammonia as N (Distilled) | DUP  | 2028174-01            | 0.14953       | ND     |             | mg/L  |     |                  | 20             |                  |           |
|                          | MS   | 2028174-01            | 0.14953       | 2.5019 | 2.3392      | mg/L  |     | 101              |                | 80 - 120         |           |
|                          | MSD  | 2028174-01            | 0.14953       | 2.5933 | 2.3392      | mg/L  | 3.6 | 104              | 20             | 80 - 120         |           |

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3151-3153 W. Post Rd  
Las Vegas, NV 89118

**Reported:** 10/13/2020 14:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042435  
**Project Manager:** Marlon B. Cartin

### Notes And Definitions

MDL Method Detection Limit

ND Analyte Not Detected

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October 30, 2020

Dan Bush  
ARCADIS U.S., Inc. - California  
1410 Rocky Ridge Dr #330  
Roseville, CA 95661  
TEL: (916) 786-3302  
FAX:

Workorder No.: N042513

RE: PG&E Topock - CMP, RC000753.801D

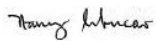
Attention: Dan Bush

Enclosed are the results for sample(s) received on October 07, 2020 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 Sibucan  
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.



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NEVADA | P: 702.307.2659 F: 702.307.2691  
3151 W. Post Rd., Las Vegas, NV 89118  
ELAP Cert 2676 | NV Cert NV00922  
ORELAP/NELAP Cert 4046

**CLIENT:** ARCADIS U.S., Inc. - California  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab Order:** N042513

**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.

**Subcontracted Analyses:**

Ammonia was subcontracted to BC Labs- Bakersfield,CA.

**Analytical Comments for EPA 200.7\_Dissolved:**

Dilution was necessary as samples have high solids concentration.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N042507-001E-MS1, N042507-001E-MSD1, N042513-008B-MS1, N042508-001B-MS2, N042508-001B-MSD2 and N042513-009B-MS2 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 (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N042507-001E-MS1 and N042513-008B-MS1 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.

**Analytical Comments for EPA 218.6:**

Because the results for total dissolved chromium (2.5 ug/L) and hexavalent chromium (1.0 ug/L) for sample N042513-001 (CW-03D-LF-Q420) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (6.0 ug/L) and hexavalent chromium (2.8 ug/L) for



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---

**CLIENT:** ARCADIS U.S., Inc. - California  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab Order:** N042513

---

## CASE NARRATIVE

sample N042513-002 (MW-902-Q420) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (6.7 ug/L) and hexavalent chromium (2.8 ug/L) for sample N042513-003 (CW-03M-LF-Q420) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (1.3 ug/L) and hexavalent chromium (0.47 ug/L) for sample N042513-004 (CW-02D-LF-Q420) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (2.1 ug/L) and hexavalent chromium (1.1 ug/L) for sample N042513-005 (CW-02M-LF-Q420) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (5.1 ug/L) and hexavalent chromium (2.3 ug/L) for sample N042513-008 (OW-01M-Q420) 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 (2.6 ug/L) for sample N042513-009 (OW-01S-Q420) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

### Analytical Comments for EPA 200.8\_Dissolved:

Because the results for total dissolved chromium (2.5 ug/L) and hexavalent chromium (1.0 ug/L) for sample N042513-001 (CW-03D-LF-Q420) 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 2.3 and 1.3 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 (6.0 ug/L) and hexavalent chromium (2.8 ug/L) for sample N042513-002 (MW-902-Q420) 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 5.8 and 3.4 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 (6.7 ug/L) and hexavalent chromium (2.8 ug/L) for sample N042513-003 (CW-03M-LF-Q420) 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 5.8 and 3.2 ug/L, respectively. Since these



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---

**CLIENT:** ARCADIS U.S., Inc. - California  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab Order:** N042513

---

## CASE NARRATIVE

data confirmed the original result for total dissolved chromium, the original result is reported.

Because the results for total dissolved chromium (1.3 ug/L) and hexavalent chromium (0.47 ug/L) for sample N042513-004 (CW-02D-LF-Q420) 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 1.2 and 0.66 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 (2.1 ug/L) and hexavalent chromium (1.1 ug/L) for sample N042513-005 (CW-02M-LF-Q420) 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 1.8 and 1.2 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 (5.1 ug/L) and hexavalent chromium (2.3 ug/L) for sample N042513-008 (OW-01M-Q420) 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 4.6 and 2.7 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 (2.6 ug/L) for sample N042513-009 (OW-01S-Q420) 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 4.6 and 2.9 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 N042508-001B-MS, N042508-001B-MSD and N042522-001C-MS 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.



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**ASSET Laboratories**

Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab Order:** N042513  
**Contract No:**

**Work Order Sample Summary**

| Lab Sample ID | Client Sample ID | Matrix      | Collection Date       | Date Received | Date Reported |
|---------------|------------------|-------------|-----------------------|---------------|---------------|
| N042513-001A  | CW-03D-LF-Q420   | Groundwater | 10/7/2020 12:15:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-001B  | CW-03D-LF-Q420   | Groundwater | 10/7/2020 12:15:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-001C  | CW-03D-LF-Q420   | Groundwater | 10/7/2020 12:15:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-001D  | CW-03D-LF-Q420   | Groundwater | 10/7/2020 12:15:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-001E  | CW-03D-LF-Q420   | Groundwater | 10/7/2020 12:15:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-001F  | CW-03D-LF-Q420   | Groundwater | 10/7/2020 12:15:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-002A  | MW-902-Q420      | Groundwater | 10/7/2020 12:26:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-002B  | MW-902-Q420      | Groundwater | 10/7/2020 12:26:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-002C  | MW-902-Q420      | Groundwater | 10/7/2020 12:26:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-002D  | MW-902-Q420      | Groundwater | 10/7/2020 12:26:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-002E  | MW-902-Q420      | Groundwater | 10/7/2020 12:26:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-002F  | MW-902-Q420      | Groundwater | 10/7/2020 12:26:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-003A  | CW-03M-LF-Q420   | Groundwater | 10/7/2020 12:16:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-003B  | CW-03M-LF-Q420   | Groundwater | 10/7/2020 12:16:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-003C  | CW-03M-LF-Q420   | Groundwater | 10/7/2020 12:16:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-003D  | CW-03M-LF-Q420   | Groundwater | 10/7/2020 12:16:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-003E  | CW-03M-LF-Q420   | Groundwater | 10/7/2020 12:16:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-003F  | CW-03M-LF-Q420   | Groundwater | 10/7/2020 12:16:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-004A  | CW-02D-LF-Q420   | Groundwater | 10/7/2020 10:52:00 AM | 10/7/2020     | 10/30/2020    |
| N042513-004B  | CW-02D-LF-Q420   | Groundwater | 10/7/2020 10:52:00 AM | 10/7/2020     | 10/30/2020    |
| N042513-004C  | CW-02D-LF-Q420   | Groundwater | 10/7/2020 10:52:00 AM | 10/7/2020     | 10/30/2020    |
| N042513-004D  | CW-02D-LF-Q420   | Groundwater | 10/7/2020 10:52:00 AM | 10/7/2020     | 10/30/2020    |
| N042513-004E  | CW-02D-LF-Q420   | Groundwater | 10/7/2020 10:52:00 AM | 10/7/2020     | 10/30/2020    |
| N042513-004F  | CW-02D-LF-Q420   | Groundwater | 10/7/2020 10:52:00 AM | 10/7/2020     | 10/30/2020    |
| N042513-005A  | CW-02M-LF-Q420   | Groundwater | 10/7/2020 9:50:00 AM  | 10/7/2020     | 10/30/2020    |
| N042513-005B  | CW-02M-LF-Q420   | Groundwater | 10/7/2020 9:50:00 AM  | 10/7/2020     | 10/30/2020    |
| N042513-005C  | CW-02M-LF-Q420   | Groundwater | 10/7/2020 9:50:00 AM  | 10/7/2020     | 10/30/2020    |
| N042513-005D  | CW-02M-LF-Q420   | Groundwater | 10/7/2020 9:50:00 AM  | 10/7/2020     | 10/30/2020    |
| N042513-005E  | CW-02M-LF-Q420   | Groundwater | 10/7/2020 9:50:00 AM  | 10/7/2020     | 10/30/2020    |



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3151 W. Post Rd., Las Vegas, NV 89118  
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ORELAP/NELAP Cert 4046

**CLIENT:** ARCADIS U.S., Inc. - California  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab Order:** N042513  
**Contract No:**

## Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix      | Collection Date      | Date Received | Date Reported |
|---------------|------------------|-------------|----------------------|---------------|---------------|
| N042513-005F  | CW-02M-LF-Q420   | Groundwater | 10/7/2020 9:50:00 AM | 10/7/2020     | 10/30/2020    |
| N042513-006A  | OW-01D-Q420      | Groundwater | 10/7/2020 2:26:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-006B  | OW-01D-Q420      | Groundwater | 10/7/2020 2:26:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-006C  | OW-01D-Q420      | Groundwater | 10/7/2020 2:26:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-006D  | OW-01D-Q420      | Groundwater | 10/7/2020 2:26:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-007A  | MW-903-Q420      | Groundwater | 10/7/2020 2:36:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-007B  | MW-903-Q420      | Groundwater | 10/7/2020 2:36:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-007C  | MW-903-Q420      | Groundwater | 10/7/2020 2:36:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-007D  | MW-903-Q420      | Groundwater | 10/7/2020 2:36:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-008A  | OW-01M-Q420      | Groundwater | 10/7/2020 1:41:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-008B  | OW-01M-Q420      | Groundwater | 10/7/2020 1:41:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-008C  | OW-01M-Q420      | Groundwater | 10/7/2020 1:41:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-008D  | OW-01M-Q420      | Groundwater | 10/7/2020 1:41:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-009A  | OW-01S-Q420      | Groundwater | 10/7/2020 1:35:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-009B  | OW-01S-Q420      | Groundwater | 10/7/2020 1:35:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-009C  | OW-01S-Q420      | Groundwater | 10/7/2020 1:35:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-009D  | OW-01S-Q420      | Groundwater | 10/7/2020 1:35:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-010A  | EB-756-Q420      | Groundwater | 10/7/2020 2:30:00 PM | 10/7/2020     | 10/30/2020    |
| N042513-011A  | EB-755-Q420      | Groundwater | 10/7/2020 3:00:00 PM | 10/7/2020     | 10/30/2020    |



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-001

**Client Sample ID:** CW-03D-LF-Q420  
**Collection Date:** 10/7/2020 12:15:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**SPECIFIC CONDUCTANCE**
**EPA 120.1**

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201008B | QC Batch: R147873 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 7200              | 0.10 | 0.10 | umhos/cm  | 1 | 10/8/2020 11:15 AM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-002

**Client Sample ID:** MW-902-Q420  
**Collection Date:** 10/7/2020 12:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**SPECIFIC CONDUCTANCE**
**EPA 120.1**

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201008B | QC Batch: R147873 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 7400              | 0.10 | 0.10 | umhos/cm  | 1 | 10/8/2020 11:15 AM |

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



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**ANALYTICAL RESULTS**
**Print Date:** 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-003

**Client Sample ID:** CW-03M-LF-Q420  
**Collection Date:** 10/7/2020 12:16:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**SPECIFIC CONDUCTANCE**
**EPA 120.1**

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201008B | QC Batch: R147873 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 7300              | 0.10 | 0.10 | umhos/cm  | 1 | 10/8/2020 11:15 AM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-004

**Client Sample ID:** CW-02D-LF-Q420  
**Collection Date:** 10/7/2020 10:52:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**SPECIFIC CONDUCTANCE**
**EPA 120.1**

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201008B | QC Batch: R147873 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 7400              | 0.10 | 0.10 | umhos/cm  | 1 | 10/8/2020 11:15 AM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-005

**Client Sample ID:** CW-02M-LF-Q420  
**Collection Date:** 10/7/2020 9:50:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**SPECIFIC CONDUCTANCE**
**EPA 120.1**

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201008B | QC Batch: R147873 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 7200              | 0.10 | 0.10 | umhos/cm  | 1 | 10/8/2020 11:15 AM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-006

**Client Sample ID:** OW-01D-Q420  
**Collection Date:** 10/7/2020 2:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**SPECIFIC CONDUCTANCE**
**EPA 120.1**

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201008B | QC Batch: R147873 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 7100              | 0.10 | 0.10 | umhos/cm  | 1 | 10/8/2020 11:15 AM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-007

**Client Sample ID:** MW-903-Q420  
**Collection Date:** 10/7/2020 2:36:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**SPECIFIC CONDUCTANCE**
**EPA 120.1**

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201008B | QC Batch: R147873 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 7200              | 0.10 | 0.10 | umhos/cm  | 1 | 10/8/2020 11:15 AM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-008

**Client Sample ID:** OW-01M-Q420  
**Collection Date:** 10/7/2020 1:41:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**SPECIFIC CONDUCTANCE**
**EPA 120.1**

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201008B | QC Batch: R147873 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 7300              | 0.10 | 0.10 | umhos/cm  | 1 | 10/8/2020 11:15 AM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-009

**Client Sample ID:** OW-01S-Q420  
**Collection Date:** 10/7/2020 1:35:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**SPECIFIC CONDUCTANCE**
**EPA 120.1**

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201008B | QC Batch: R147873 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 6800              | 0.10 | 0.10 | umhos/cm  | 1 | 10/8/2020 11:15 AM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 120.1\_WPGE**

|                                   |                          |                             |                                 |                       |                      |          |           |             |       |          |      |
|-----------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|-------|----------|------|
| Sample ID: <b>N042513-009CDUP</b> | SampType: <b>DUP</b>     | TestCode: <b>120.1_WPGE</b> | Units: <b>umhos/cm</b>          | Prep Date:            | RunNo: <b>147873</b> |          |           |             |       |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147873</b> | TestNo: <b>EPA 120.1</b>    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3960532</b> |                      |          |           |             |       |          |      |
| Analyte                           | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Specific Conductance              | 6850.000                 | 0.10                        |                                 |                       |                      |          |           | 6810        | 0.586 | 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**

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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-001

**Client Sample ID:** CW-03D-LF-Q420  
**Collection Date:** 10/7/2020 12:15:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**TOTAL FILTERABLE RESIDUE**
**SM2540C**

|                                              |                 |    |    |                     |                    |
|----------------------------------------------|-----------------|----|----|---------------------|--------------------|
| RunID: NV00922-WC_201008G                    | QC Batch: 82488 |    |    | PrepDate: 10/8/2020 | Analyst: QBM       |
| Total Dissolved Solids (Residue, Filterable) | 4300            | 50 | 50 | mg/L                | 10/8/2020 08:15 AM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-002

**Client Sample ID:** MW-902-Q420  
**Collection Date:** 10/7/2020 12:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**TOTAL FILTERABLE RESIDUE**
**SM2540C**

|                                              |                 |    |    |                     |                    |
|----------------------------------------------|-----------------|----|----|---------------------|--------------------|
| RunID: NV00922-WC_201008G                    | QC Batch: 82488 |    |    | PrepDate: 10/8/2020 | Analyst: QBM       |
| Total Dissolved Solids (Residue, Filterable) | 4400            | 50 | 50 | mg/L                | 10/8/2020 08:15 AM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-003

**Client Sample ID:** CW-03M-LF-Q420  
**Collection Date:** 10/7/2020 12:16:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**TOTAL FILTERABLE RESIDUE**
**SM2540C**

|                                              |                 |    |    |                     |   |                    |
|----------------------------------------------|-----------------|----|----|---------------------|---|--------------------|
| RunID: NV00922-WC_201008G                    | QC Batch: 82488 |    |    | PrepDate: 10/8/2020 |   | Analyst: QBM       |
| Total Dissolved Solids (Residue, Filterable) | 4500            | 50 | 50 | mg/L                | 1 | 10/8/2020 08:15 AM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-004

**Client Sample ID:** CW-02D-LF-Q420  
**Collection Date:** 10/7/2020 10:52:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**TOTAL FILTERABLE RESIDUE**
**SM2540C**

|                                              |                 |    |    |                     |                    |
|----------------------------------------------|-----------------|----|----|---------------------|--------------------|
| RunID: NV00922-WC_201008G                    | QC Batch: 82488 |    |    | PrepDate: 10/8/2020 | Analyst: QBM       |
| Total Dissolved Solids (Residue, Filterable) | 4300            | 50 | 50 | mg/L                | 10/8/2020 08:15 AM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-005

**Client Sample ID:** CW-02M-LF-Q420  
**Collection Date:** 10/7/2020 9:50:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**TOTAL FILTERABLE RESIDUE**
**SM2540C**

|                                              |                 |    |    |                     |                    |
|----------------------------------------------|-----------------|----|----|---------------------|--------------------|
| RunID: NV00922-WC_201008G                    | QC Batch: 82488 |    |    | PrepDate: 10/8/2020 | Analyst: QBM       |
| Total Dissolved Solids (Residue, Filterable) | 4300            | 50 | 50 | mg/L                | 10/8/2020 08:15 AM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-006

**Client Sample ID:** OW-01D-Q420  
**Collection Date:** 10/7/2020 2:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**TOTAL FILTERABLE RESIDUE**
**SM2540C**

|                                              |                 |    |    |                     |                    |
|----------------------------------------------|-----------------|----|----|---------------------|--------------------|
| RunID: NV00922-WC_201008G                    | QC Batch: 82488 |    |    | PrepDate: 10/8/2020 | Analyst: QBM       |
| Total Dissolved Solids (Residue, Filterable) | 4300            | 50 | 50 | mg/L                | 10/8/2020 08:15 AM |

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



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**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-007

**Client Sample ID:** MW-903-Q420  
**Collection Date:** 10/7/2020 2:36:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**TOTAL FILTERABLE RESIDUE**
**SM2540C**

|                                              |                 |    |    |                     |   |                    |
|----------------------------------------------|-----------------|----|----|---------------------|---|--------------------|
| RunID: NV00922-WC_201008G                    | QC Batch: 82488 |    |    | PrepDate: 10/8/2020 |   | Analyst: QBM       |
| Total Dissolved Solids (Residue, Filterable) | 4300            | 50 | 50 | mg/L                | 1 | 10/8/2020 08:15 AM |

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



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**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-008

**Client Sample ID:** OW-01M-Q420  
**Collection Date:** 10/7/2020 1:41:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**TOTAL FILTERABLE RESIDUE**
**SM2540C**

|                                              |                 |    |    |                     |                    |
|----------------------------------------------|-----------------|----|----|---------------------|--------------------|
| RunID: NV00922-WC_201008G                    | QC Batch: 82488 |    |    | PrepDate: 10/8/2020 | Analyst: QBM       |
| Total Dissolved Solids (Residue, Filterable) | 4300            | 50 | 50 | mg/L                | 10/8/2020 08:15 AM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-009

**Client Sample ID:** OW-01S-Q420  
**Collection Date:** 10/7/2020 1:35:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**TOTAL FILTERABLE RESIDUE**
**SM2540C**

|                                              |                 |    |    |                     |   |                    |
|----------------------------------------------|-----------------|----|----|---------------------|---|--------------------|
| RunID: NV00922-WC_201008G                    | QC Batch: 82488 |    |    | PrepDate: 10/8/2020 |   | Analyst: QBM       |
| Total Dissolved Solids (Residue, Filterable) | 4500            | 50 | 50 | mg/L                | 1 | 10/8/2020 08:15 AM |

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



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 160.1\_2540C\_W**

|                                          |                        |                                                  |           |             |      |                                 |           |             |                       |          |      |
|------------------------------------------|------------------------|--------------------------------------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: <b>LCS-82488</b>              | SampType: <b>LCS</b>   | TestCode: <b>160.1_2540C_</b> Units: <b>mg/L</b> |           |             |      | Prep Date: <b>10/8/2020</b>     |           |             | RunNo: <b>147904</b>  |          |      |
| Client ID: <b>LCSW</b>                   | Batch ID: <b>82488</b> | TestNo: <b>SM2540C</b>                           |           |             |      | Analysis Date: <b>10/8/2020</b> |           |             | SeqNo: <b>3961556</b> |          |      |
| Analyte                                  | Result                 | PQL                                              | SPK value | SPK Ref Val | %REC | LowLimit                        | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | 974.000                | 10                                               | 1000      | 0           | 97.4 | 80                              | 120       |             |                       |          |      |

|                                          |                        |                                                  |           |             |      |                                 |           |             |                       |          |      |
|------------------------------------------|------------------------|--------------------------------------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: <b>MB-82488</b>               | SampType: <b>MBLK</b>  | TestCode: <b>160.1_2540C_</b> Units: <b>mg/L</b> |           |             |      | Prep Date: <b>10/8/2020</b>     |           |             | RunNo: <b>147904</b>  |          |      |
| Client ID: <b>PBW</b>                    | Batch ID: <b>82488</b> | TestNo: <b>SM2540C</b>                           |           |             |      | Analysis Date: <b>10/8/2020</b> |           |             | SeqNo: <b>3961557</b> |          |      |
| 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: <b>N042508-001C-DUP</b>       | SampType: <b>DUP</b>   | TestCode: <b>160.1_2540C_</b> Units: <b>mg/L</b> |           |             |      | Prep Date: <b>10/8/2020</b>     |           |             | RunNo: <b>147904</b>  |          |      |
| Client ID: <b>ZZZZZZ</b>                 | Batch ID: <b>82488</b> | TestNo: <b>SM2540C</b>                           |           |             |      | Analysis Date: <b>10/8/2020</b> |           |             | SeqNo: <b>3961559</b> |          |      |
| Analyte                                  | Result                 | PQL                                              | SPK value | SPK Ref Val | %REC | LowLimit                        | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | 4385.000               | 50                                               |           |             |      |                                 |           | 4390        | 0.114                 | 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 |                                      |   |                                                              |

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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-001

**Client Sample ID:** CW-03D-LF-Q420  
**Collection Date:** 10/7/2020 12:15:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICP**
**EPA 200.7**

| RunID: NV00922-ICP2_201014A | QC Batch: 82532 | PrepDate: 10/12/2020 | Analyst: DJ |      |     |                     |
|-----------------------------|-----------------|----------------------|-------------|------|-----|---------------------|
| Aluminum                    | ND              | 200                  | 250         | µg/L | 5   | 10/14/2020 10:08 AM |
| Boron                       | 2600            | 370                  | 500         | µg/L | 5   | 10/14/2020 10:08 AM |
| Calcium                     | 79000           | 420                  | 2500        | µg/L | 5   | 10/14/2020 10:08 AM |
| Iron                        | 130             | 89                   | 100         | µg/L | 5   | 10/14/2020 10:08 AM |
| Magnesium                   | 7300            | 240                  | 500         | µg/L | 5   | 10/14/2020 10:08 AM |
| Potassium                   | 8700            | 850                  | 5000        | µg/L | 10  | 10/14/2020 02:52 PM |
| Sodium                      | 1600000         | 9600                 | 50000       | µg/L | 100 | 10/14/2020 05:29 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-002

**Client Sample ID:** MW-902-Q420  
**Collection Date:** 10/7/2020 12:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICP**
**EPA 200.7**

| RunID: NV00922-ICP2_201014A | QC Batch: 82532 | PrepDate: 10/12/2020 | Analyst: DJ |      |     |                     |
|-----------------------------|-----------------|----------------------|-------------|------|-----|---------------------|
| Aluminum                    | ND              | 200                  | 250         | µg/L | 5   | 10/14/2020 10:12 AM |
| Boron                       | 2900            | 370                  | 500         | µg/L | 5   | 10/14/2020 10:12 AM |
| Calcium                     | 150000          | 420                  | 2500        | µg/L | 5   | 10/14/2020 10:12 AM |
| Iron                        | ND              | 89                   | 100         | µg/L | 5   | 10/14/2020 10:12 AM |
| Magnesium                   | 15000           | 240                  | 500         | µg/L | 5   | 10/14/2020 10:12 AM |
| Potassium                   | 8100            | 850                  | 5000        | µg/L | 10  | 10/14/2020 02:57 PM |
| Sodium                      | 1500000         | 9600                 | 50000       | µg/L | 100 | 10/14/2020 05:33 PM |

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



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**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-003

**Client Sample ID:** CW-03M-LF-Q420  
**Collection Date:** 10/7/2020 12:16:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICP**
**EPA 200.7**

| RunID: NV00922-ICP2_201014A | QC Batch: 82532 | PrepDate: 10/12/2020 | Analyst: DJ |      |     |                     |
|-----------------------------|-----------------|----------------------|-------------|------|-----|---------------------|
| Aluminum                    | ND              | 200                  | 250         | µg/L | 5   | 10/14/2020 10:16 AM |
| Boron                       | 3400            | 370                  | 500         | µg/L | 5   | 10/14/2020 10:16 AM |
| Calcium                     | 170000          | 420                  | 2500        | µg/L | 5   | 10/14/2020 10:16 AM |
| Iron                        | ND              | 89                   | 100         | µg/L | 5   | 10/14/2020 10:16 AM |
| Magnesium                   | 17000           | 240                  | 500         | µg/L | 5   | 10/14/2020 10:16 AM |
| Potassium                   | 8000            | 850                  | 5000        | µg/L | 10  | 10/14/2020 03:02 PM |
| Sodium                      | 1500000         | 9600                 | 50000       | µg/L | 100 | 10/14/2020 05:36 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-004

**Client Sample ID:** CW-02D-LF-Q420  
**Collection Date:** 10/7/2020 10:52:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICP**
**EPA 200.7**

| RunID: NV00922-ICP2_201014A | QC Batch: 82532 | PrepDate: 10/12/2020 | Analyst: DJ |      |     |                     |
|-----------------------------|-----------------|----------------------|-------------|------|-----|---------------------|
| Aluminum                    | ND              | 200                  | 250         | µg/L | 5   | 10/14/2020 10:20 AM |
| Boron                       | 3700            | 370                  | 500         | µg/L | 5   | 10/14/2020 10:20 AM |
| Calcium                     | 150000          | 420                  | 2500        | µg/L | 5   | 10/14/2020 10:20 AM |
| Iron                        | ND              | 89                   | 100         | µg/L | 5   | 10/14/2020 10:20 AM |
| Magnesium                   | 12000           | 240                  | 500         | µg/L | 5   | 10/14/2020 10:20 AM |
| Potassium                   | 8200            | 850                  | 5000        | µg/L | 10  | 10/14/2020 03:07 PM |
| Sodium                      | 1500000         | 9600                 | 50000       | µg/L | 100 | 10/14/2020 05:39 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-005

**Client Sample ID:** CW-02M-LF-Q420  
**Collection Date:** 10/7/2020 9:50:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICP**
**EPA 200.7**

| RunID: NV00922-ICP2_201014A | QC Batch: 82532 | PrepDate: 10/12/2020 | Analyst: DJ |      |     |                     |
|-----------------------------|-----------------|----------------------|-------------|------|-----|---------------------|
| Aluminum                    | ND              | 200                  | 250         | µg/L | 5   | 10/14/2020 10:31 AM |
| Boron                       | 1700            | 370                  | 500         | µg/L | 5   | 10/14/2020 10:31 AM |
| Calcium                     | 130000          | 420                  | 2500        | µg/L | 5   | 10/14/2020 10:31 AM |
| Iron                        | ND              | 89                   | 100         | µg/L | 5   | 10/14/2020 10:31 AM |
| Magnesium                   | 12000           | 240                  | 500         | µg/L | 5   | 10/14/2020 10:31 AM |
| Potassium                   | 6100            | 850                  | 5000        | µg/L | 10  | 10/14/2020 03:11 PM |
| Sodium                      | 1500000         | 9600                 | 50000       | µg/L | 100 | 10/14/2020 05:42 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-006

**Client Sample ID:** OW-01D-Q420  
**Collection Date:** 10/7/2020 2:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICP**
**EPA 200.7**

|                             |                 |      |       |                      |                     |
|-----------------------------|-----------------|------|-------|----------------------|---------------------|
| RunID: NV00922-ICP2_201014C | QC Batch: 82532 |      |       | PrepDate: 10/12/2020 | Analyst: DJ         |
| Sodium                      | 1400000         | 9600 | 50000 | µg/L                 | 100                 |
|                             |                 |      |       |                      | 10/14/2020 05:45 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-007

**Client Sample ID:** MW-903-Q420  
**Collection Date:** 10/7/2020 2:36:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICP**
**EPA 200.7**

|                             |                 |      |       |                      |                     |
|-----------------------------|-----------------|------|-------|----------------------|---------------------|
| RunID: NV00922-ICP2_201014C | QC Batch: 82532 |      |       | PrepDate: 10/12/2020 | Analyst: DJ         |
| Sodium                      | 1400000         | 9600 | 50000 | µg/L                 | 100                 |
|                             |                 |      |       |                      | 10/14/2020 05:49 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-008

**Client Sample ID:** OW-01M-Q420  
**Collection Date:** 10/7/2020 1:41:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICP**
**EPA 200.7**

|                             |                 |      |       |                      |                     |
|-----------------------------|-----------------|------|-------|----------------------|---------------------|
| RunID: NV00922-ICP2_201014C | QC Batch: 82532 |      |       | PrepDate: 10/12/2020 | Analyst: DJ         |
| Sodium                      | 1400000         | 9600 | 50000 | µg/L                 | 100                 |
|                             |                 |      |       |                      | 10/14/2020 05:52 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-009

**Client Sample ID:** OW-01S-Q420  
**Collection Date:** 10/7/2020 1:35:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICP**
**EPA 200.7**

|                             |                 |      |       |                      |                     |
|-----------------------------|-----------------|------|-------|----------------------|---------------------|
| RunID: NV00922-ICP2_201014C | QC Batch: 82532 |      |       | PrepDate: 10/12/2020 | Analyst: DJ         |
| Sodium                      | 1400000         | 4800 | 25000 | µg/L                 | 50                  |
|                             |                 |      |       |                      | 10/14/2020 06:02 PM |

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



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 200.7\_WDPGEPPB**

|                              |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS1-82532</b> | SampType: <b>LCS</b>   | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/12/2020</b>     | RunNo: <b>148004</b>  |          |           |             |      |          |      |
| Client ID: <b>LCSW</b>       | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3967908</b> |          |           |             |      |          |      |
| Analyte                      | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |           |     |       |   |      |    |     |  |  |  |  |
|-----------|-----------|-----|-------|---|------|----|-----|--|--|--|--|
| Aluminum  | 10365.422 | 50  | 10000 | 0 | 104  | 85 | 115 |  |  |  |  |
| Boron     | 5022.771  | 100 | 5000  | 0 | 100  | 85 | 115 |  |  |  |  |
| Calcium   | 9941.518  | 500 | 10000 | 0 | 99.4 | 85 | 115 |  |  |  |  |
| Iron      | 93.531    | 20  | 100.0 | 0 | 93.5 | 85 | 115 |  |  |  |  |
| Magnesium | 11023.631 | 100 | 10000 | 0 | 110  | 85 | 115 |  |  |  |  |

|                                    |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|------------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042507-001E-MS1</b> | SampType: <b>MS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/12/2020</b>     | RunNo: <b>148004</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3967911</b> |          |           |             |      |          |      |
| Analyte                            | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |            |      |       |        |      |    |     |  |  |  |   |
|-----------|------------|------|-------|--------|------|----|-----|--|--|--|---|
| Aluminum  | 8562.032   | 250  | 10000 | 0      | 85.6 | 75 | 125 |  |  |  |   |
| Boron     | 6867.876   | 500  | 5000  | 3063   | 76.1 | 75 | 125 |  |  |  |   |
| Calcium   | 175729.722 | 2500 | 10000 | 208000 | -323 | 75 | 125 |  |  |  | S |
| Iron      | 98.859     | 100  | 100.0 | 0      | 98.9 | 75 | 125 |  |  |  |   |
| Magnesium | 38137.458  | 500  | 10000 | 33160  | 49.7 | 75 | 125 |  |  |  | S |

|                                    |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|------------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042507-001E-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/12/2020</b>     | RunNo: <b>148004</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3967912</b> |          |           |             |      |          |      |
| Analyte                            | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |            |      |       |        |      |    |     |        |      |    |   |
|-----------|------------|------|-------|--------|------|----|-----|--------|------|----|---|
| Aluminum  | 8796.866   | 250  | 10000 | 0      | 88.0 | 75 | 125 | 8562   | 2.71 | 20 |   |
| Boron     | 7315.163   | 500  | 5000  | 3063   | 85.0 | 75 | 125 | 6868   | 6.31 | 20 |   |
| Calcium   | 182574.852 | 2500 | 10000 | 208000 | -254 | 75 | 125 | 175700 | 3.82 | 20 | S |
| Iron      | 114.393    | 100  | 100.0 | 0      | 114  | 75 | 125 | 98.86  | 14.6 | 20 |   |
| Magnesium | 40845.286  | 500  | 10000 | 33160  | 76.8 | 75 | 125 | 38140  | 6.86 | 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 |                                      |   |                                                              |



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 200.7\_WDPGEPPB**

| Sample ID: <b>N042513-008B-MS1</b> | SampType: <b>MS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/12/2020</b>     | RunNo: <b>148004</b>  |          |           |             |      |          |      |
|------------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3967922</b> |          |           |             |      |          |      |
| Analyte                            | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aluminum                           | 9649.019               | 250                         | 10000              | 0                                | 96.5                  | 75       | 125       |             |      |          |      |
| Boron                              | 8007.786               | 500                         | 5000               | 1947                             | 121                   | 75       | 125       |             |      |          |      |
| Calcium                            | 167972.876             | 2500                        | 10000              | 151500                           | 165                   | 75       | 125       |             |      |          | S    |
| Iron                               | 174.652                | 100                         | 100.0              | 0                                | 175                   | 75       | 125       |             |      |          | S    |
| Magnesium                          | 47102.553              | 500                         | 10000              | 33090                            | 140                   | 75       | 125       |             |      |          | S    |

|                     |                 |                      |             |                           |                |          |           |             |      |          |      |
|---------------------|-----------------|----------------------|-------------|---------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-82532 | SampType: MBLK  | TestCode: 200.7_WDPG | Units: µg/L | Prep Date: 10/12/2020     | RunNo: 148030  |          |           |             |      |          |      |
| Client ID: PBW      | Batch ID: 82532 | TestNo: EPA 200.7    |             | Analysis Date: 10/14/2020 | SeqNo: 3968713 |          |           |             |      |          |      |
| Analyte             | Result          | PQL                  | SPK value   | SPK Ref Val               | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Potassium           | ND              | 500                  |             |                           |                |          |           |             |      |          |      |
| Sodium              | ND              | 500                  |             |                           |                |          |           |             |      |          |      |

|                              |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS2-82532</b> | SampType: <b>LCS</b>   | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/12/2020</b>     | RunNo: <b>148030</b>  |          |           |             |      |          |      |
| Client ID: <b>LCSW</b>       | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968714</b> |          |           |             |      |          |      |
| Analyte                      | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Potassium                    | 17742.228              | 500                         | 20000              | 0                                | 88.7                  | 85       | 115       |             |      |          |      |
| Sodium                       | 20140.079              | 500                         | 20000              | 0                                | 101                   | 85       | 115       |             |      |          |      |

|                                    |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|------------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042508-001B-MS2</b> | SampType: <b>MS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/12/2020</b>     | RunNo: <b>148030</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968732</b> |          |           |             |      |          |      |
| Analyte                            | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Potassium                          | 29895.665              | 5000                        | 20000              | 11810                            | 90.4                  | 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 |   |                                                              |



**ASSET LABORATORIES**

CALIFORNIA | P: 562.219.7435 F: 562.219.7436  
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NEVADA | P: 702.307.2659 F: 702.307.2691  
3151 W. Post Rd., Las Vegas, NV 89118  
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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.7\_WDPGEPPB

|                                    |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|------------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042508-001B-MS2</b> | SampType: <b>MS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/12/2020</b>     | RunNo: <b>148030</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968733</b> |          |           |             |      |          |      |
| Analyte                            | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|        |             |       |       |         |       |    |     |  |  |  |   |
|--------|-------------|-------|-------|---------|-------|----|-----|--|--|--|---|
| Sodium | 1229339.876 | 50000 | 20000 | 1468000 | -1190 | 75 | 125 |  |  |  | S |
|--------|-------------|-------|-------|---------|-------|----|-----|--|--|--|---|

|                             |                 |                      |             |                           |                |          |           |             |      |          |      |
|-----------------------------|-----------------|----------------------|-------------|---------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: N042508-001B-MSD | SampType: MSD   | TestCode: 200.7_WDPG | Units: µg/L | Prep Date: 10/12/2020     | RunNo: 148030  |          |           |             |      |          |      |
| Client ID: ZZZZZZ           | Batch ID: 82532 | TestNo: EPA 200.7    |             | Analysis Date: 10/14/2020 | SeqNo: 3968734 |          |           |             |      |          |      |
| Analyte                     | Result          | PQL                  | SPK value   | SPK Ref Val               | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |           |      |       |       |      |    |     |       |      |    |  |
|-----------|-----------|------|-------|-------|------|----|-----|-------|------|----|--|
| Potassium | 30796.485 | 5000 | 20000 | 11810 | 94.9 | 75 | 125 | 29900 | 2.97 | 20 |  |
|-----------|-----------|------|-------|-------|------|----|-----|-------|------|----|--|

|                                    |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|------------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042508-001B-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/12/2020</b>     | RunNo: <b>148030</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968737</b> |          |           |             |      |          |      |
| Analyte                            | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|        |             |       |       |         |      |    |     |         |      |    |   |
|--------|-------------|-------|-------|---------|------|----|-----|---------|------|----|---|
| Sodium | 1306854.834 | 50000 | 20000 | 1468000 | -807 | 75 | 125 | 1229000 | 6.11 | 20 | S |
|--------|-------------|-------|-------|---------|------|----|-----|---------|------|----|---|

|                                    |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|------------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-009B-MS2</b> | SampType: <b>MS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/12/2020</b>     | RunNo: <b>148030</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968766</b> |          |           |             |      |          |      |
| Analyte                            | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |           |      |       |       |     |    |     |  |  |  |  |
|-----------|-----------|------|-------|-------|-----|----|-----|--|--|--|--|
| Potassium | 35708.390 | 5000 | 20000 | 15630 | 100 | 75 | 125 |  |  |  |  |
|-----------|-----------|------|-------|-------|-----|----|-----|--|--|--|--|

|                                    |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|------------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-009B-MS2</b> | SampType: <b>MS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/12/2020</b>     | RunNo: <b>148030</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968768</b> |          |           |             |      |          |      |
| Analyte                            | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|        |            |       |       |         |       |    |     |  |  |  |   |
|--------|------------|-------|-------|---------|-------|----|-----|--|--|--|---|
| Sodium | 654818.624 | 25000 | 20000 | 1398000 | -3720 | 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 |   |                                                              |



**ASSET LABORATORIES**

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"Serving Clients with Passion and Professionalism"



CLIENT: ARCADIS U.S., Inc. - California  
Work Order: N042513  
Project: PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7\_WDPGEPPB

|                            |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|----------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-82532</b> | SampType: <b>MBLK</b>  | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/12/2020</b>     | RunNo: <b>148037</b>  |          |           |             |      |          |      |
| Client ID: <b>PBW</b>      | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/15/2020</b> | SeqNo: <b>3969007</b> |          |           |             |      |          |      |
| Analyte                    | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aluminum                   | ND                     | 50                          |                    |                                  |                       |          |           |             |      |          |      |
| Boron                      | ND                     | 100                         |                    |                                  |                       |          |           |             |      |          |      |
| Calcium                    | ND                     | 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 |   |                                                              |



**ASSET LABORATORIES**

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL, INDUSTRIAL, AND FOODS

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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 200.7\_WDPGEPPB**

|                                   |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|-----------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042507-001E-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>148004</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3967910</b> |          |           |             |      |          |      |
| Analyte                           | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |            |      |       |        |      |    |     |  |  |  |   |
|-----------|------------|------|-------|--------|------|----|-----|--|--|--|---|
| Aluminum  | 9448.285   | 250  | 10000 | 0      | 94.5 | 80 | 120 |  |  |  |   |
| Boron     | 7193.986   | 500  | 5000  | 3063   | 82.6 | 80 | 120 |  |  |  |   |
| Calcium   | 191541.918 | 2500 | 10000 | 208000 | -165 | 80 | 120 |  |  |  | S |
| Iron      | 130.259    | 100  | 100.0 | 0      | 130  | 80 | 120 |  |  |  | S |
| Magnesium | 41749.624  | 500  | 10000 | 33160  | 85.9 | 80 | 120 |  |  |  |   |

|                                   |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|-----------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042508-001B-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>148030</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968730</b> |          |           |             |      |          |      |
| Analyte                           | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |           |      |       |       |     |    |     |  |  |  |  |
|-----------|-----------|------|-------|-------|-----|----|-----|--|--|--|--|
| Potassium | 33173.482 | 5000 | 20000 | 11810 | 107 | 80 | 120 |  |  |  |  |
|-----------|-----------|------|-------|-------|-----|----|-----|--|--|--|--|

|                                   |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|-----------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042508-001B-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>148030</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968731</b> |          |           |             |      |          |      |
| Analyte                           | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|        |             |       |       |         |      |    |     |  |  |  |   |
|--------|-------------|-------|-------|---------|------|----|-----|--|--|--|---|
| Sodium | 1357528.426 | 50000 | 20000 | 1468000 | -554 | 80 | 120 |  |  |  | S |
|--------|-------------|-------|-------|---------|------|----|-----|--|--|--|---|

|                                   |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|-----------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-009B-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>148030</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968765</b> |          |           |             |      |          |      |
| Analyte                           | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |           |      |       |       |     |    |     |  |  |  |  |
|-----------|-----------|------|-------|-------|-----|----|-----|--|--|--|--|
| Potassium | 36503.305 | 5000 | 20000 | 15630 | 104 | 80 | 120 |  |  |  |  |
|-----------|-----------|------|-------|-------|-----|----|-----|--|--|--|--|

|                                   |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|-----------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-009B-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>148030</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968767</b> |          |           |             |      |          |      |
| Analyte                           | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

**Qualifiers:**

|    |                                                 |                                      |                                      |   |                                                              |
|----|-------------------------------------------------|--------------------------------------|--------------------------------------|---|--------------------------------------------------------------|
| B  | Analyte detected in 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 |                                      |   |                                                              |



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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 200.7\_WDPGEPPB**

|                            |                 |                      |             |                           |       |          |           |                |      |          |      |
|----------------------------|-----------------|----------------------|-------------|---------------------------|-------|----------|-----------|----------------|------|----------|------|
| Sample ID: N042513-009B-PS | SampType: PS    | TestCode: 200.7_WDPG | Units: µg/L | Prep Date:                |       |          |           | RunNo: 148030  |      |          |      |
| Client ID: ZZZZZZ          | Batch ID: 82532 | TestNo: EPA 200.7    |             | Analysis Date: 10/14/2020 |       |          |           | SeqNo: 3968767 |      |          |      |
| Analyte                    | Result          | PQL                  | SPK value   | SPK Ref Val               | %REC  | LowLimit | HighLimit | RPD Ref Val    | %RPD | RPDLimit | Qual |
| Sodium                     | 908723.877      | 25000                | 20000       | 1398000                   | -2450 | 80       | 120       |                |      |          | S    |

| Sample ID: <b>N042513-008B-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date:  |                                  |          |           | RunNo: <b>148037</b> |                       |          |      |
|-----------------------------------|------------------------|-----------------------------|--------------------|-------------|----------------------------------|----------|-----------|----------------------|-----------------------|----------|------|
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82532</b> | TestNo: <b>EPA 200.7</b>    |                    |             | Analysis Date: <b>10/15/2020</b> |          |           |                      | SeqNo: <b>3969009</b> |          |      |
| Analyte                           | Result                 | PQL                         | SPK value          | SPK Ref Val | %REC                             | LowLimit | HighLimit | RPD Ref Val          | %RPD                  | RPDLimit | Qual |
| Aluminum                          | 9013.840               | 250                         | 10000              | 0           | 90.1                             | 80       | 120       |                      |                       |          |      |
| Boron                             | 5966.523               | 500                         | 5000               | 1947        | 80.4                             | 80       | 120       |                      |                       |          |      |
| Calcium                           | 132177.660             | 2500                        | 10000              | 151500      | -193                             | 80       | 120       |                      |                       |          | S    |
| Iron                              | 210.094                | 100                         | 100.0              | 0           | 210                              | 80       | 120       |                      |                       |          | S    |
| Magnesium                         | 36528.181              | 500                         | 10000              | 33090       | 34.4                             | 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**

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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-001

**Client Sample ID:** CW-03D-LF-Q420  
**Collection Date:** 10/7/2020 12:15:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICPMS**
**EPA 200.8**

| RunID: NV00922-ICP8_201012B | QC Batch: 82504 | PrepDate: 10/10/2020 | Analyst: CEI |      |   |                     |
|-----------------------------|-----------------|----------------------|--------------|------|---|---------------------|
| Antimony                    | ND              | 0.16                 | 0.50         | µg/L | 1 | 10/12/2020 02:52 PM |
| Arsenic                     | 1.8             | 0.081                | 0.10         | µg/L | 1 | 10/30/2020 06:12 AM |
| Barium                      | 19              | 0.15                 | 1.0          | µg/L | 1 | 10/12/2020 02:52 PM |
| Beryllium                   | ND              | 0.042                | 0.50         | µg/L | 1 | 10/12/2020 02:52 PM |
| Cadmium                     | ND              | 0.053                | 0.50         | µg/L | 1 | 10/12/2020 02:52 PM |
| Cobalt                      | 0.84            | 0.042                | 0.50         | µg/L | 1 | 10/12/2020 02:52 PM |
| Copper                      | ND              | 0.55                 | 1.0          | µg/L | 1 | 10/12/2020 02:52 PM |
| Lead                        | ND              | 0.13                 | 1.0          | µg/L | 1 | 10/12/2020 02:52 PM |
| Manganese                   | 14              | 0.26                 | 0.50         | µg/L | 1 | 10/12/2020 02:52 PM |
| Molybdenum                  | 16              | 0.21                 | 0.50         | µg/L | 1 | 10/12/2020 02:52 PM |
| Nickel                      | ND              | 0.26                 | 1.0          | µg/L | 1 | 10/12/2020 02:52 PM |
| Selenium                    | 4.4             | 0.36                 | 0.50         | µg/L | 1 | 10/30/2020 06:12 AM |
| Silver                      | ND              | 0.23                 | 0.50         | µg/L | 1 | 10/12/2020 02:52 PM |
| Thallium                    | ND              | 0.19                 | 0.50         | µg/L | 1 | 10/30/2020 06:12 AM |
| Vanadium                    | 2.7             | 0.28                 | 1.0          | µg/L | 1 | 10/12/2020 02:52 PM |
| Zinc                        | ND              | 2.3                  | 10           | µg/L | 1 | 10/12/2020 02:52 PM |

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



**ASSET LABORATORIES**  
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

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**NEVADA** | P:702.307.2659 F:702.307.2691  
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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-002

**Client Sample ID:** MW-902-Q420  
**Collection Date:** 10/7/2020 12:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICPMS**
**EPA 200.8**

| RunID: NV00922-ICP8_201012B | QC Batch: 82504 | PrepDate: 10/10/2020 | Analyst: CEI |      |   |                     |
|-----------------------------|-----------------|----------------------|--------------|------|---|---------------------|
| Antimony                    | ND              | 0.16                 | 0.50         | µg/L | 1 | 10/12/2020 03:06 PM |
| Arsenic                     | 1.5             | 0.081                | 0.10         | µg/L | 1 | 10/30/2020 06:16 AM |
| Barium                      | 38              | 0.15                 | 1.0          | µg/L | 1 | 10/12/2020 03:06 PM |
| Beryllium                   | ND              | 0.042                | 0.50         | µg/L | 1 | 10/12/2020 03:06 PM |
| Cadmium                     | ND              | 0.053                | 0.50         | µg/L | 1 | 10/12/2020 03:06 PM |
| Cobalt                      | ND              | 0.042                | 0.50         | µg/L | 1 | 10/12/2020 03:06 PM |
| Copper                      | ND              | 0.55                 | 1.0          | µg/L | 1 | 10/12/2020 03:06 PM |
| Lead                        | ND              | 0.13                 | 1.0          | µg/L | 1 | 10/12/2020 03:06 PM |
| Manganese                   | 1.4             | 0.26                 | 0.50         | µg/L | 1 | 10/12/2020 03:06 PM |
| Molybdenum                  | 34              | 0.21                 | 0.50         | µg/L | 1 | 10/12/2020 03:06 PM |
| Nickel                      | ND              | 0.26                 | 1.0          | µg/L | 1 | 10/12/2020 03:06 PM |
| Selenium                    | 3.1             | 0.36                 | 0.50         | µg/L | 1 | 10/30/2020 06:16 AM |
| Silver                      | ND              | 0.23                 | 0.50         | µg/L | 1 | 10/12/2020 03:06 PM |
| Thallium                    | ND              | 0.19                 | 0.50         | µg/L | 1 | 10/30/2020 06:16 AM |
| Vanadium                    | 3.0             | 0.28                 | 1.0          | µg/L | 1 | 10/12/2020 03:06 PM |
| Zinc                        | ND              | 2.3                  | 10           | µg/L | 1 | 10/12/2020 03:06 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-003

**Client Sample ID:** CW-03M-LF-Q420  
**Collection Date:** 10/7/2020 12:16:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICPMS**
**EPA 200.8**

| RunID: NV00922-ICP8_201012B | QC Batch: 82504 | PrepDate: 10/10/2020 | Analyst: CEI |      |   |                     |
|-----------------------------|-----------------|----------------------|--------------|------|---|---------------------|
| Antimony                    | ND              | 0.16                 | 0.50         | µg/L | 1 | 10/12/2020 03:29 PM |
| Arsenic                     | 1.5             | 0.081                | 0.10         | µg/L | 1 | 10/30/2020 07:41 AM |
| Barium                      | 40              | 0.15                 | 1.0          | µg/L | 1 | 10/12/2020 03:29 PM |
| Beryllium                   | ND              | 0.042                | 0.50         | µg/L | 1 | 10/12/2020 03:29 PM |
| Cadmium                     | ND              | 0.053                | 0.50         | µg/L | 1 | 10/12/2020 03:29 PM |
| Cobalt                      | ND              | 0.042                | 0.50         | µg/L | 1 | 10/12/2020 03:29 PM |
| Copper                      | ND              | 0.55                 | 1.0          | µg/L | 1 | 10/12/2020 03:29 PM |
| Lead                        | ND              | 0.13                 | 1.0          | µg/L | 1 | 10/12/2020 03:29 PM |
| Manganese                   | 2.5             | 0.26                 | 0.50         | µg/L | 1 | 10/12/2020 03:29 PM |
| Molybdenum                  | 33              | 0.21                 | 0.50         | µg/L | 1 | 10/12/2020 03:29 PM |
| Nickel                      | ND              | 0.26                 | 1.0          | µg/L | 1 | 10/12/2020 03:29 PM |
| Selenium                    | 3.1             | 0.36                 | 0.50         | µg/L | 1 | 10/30/2020 07:41 AM |
| Silver                      | ND              | 0.23                 | 0.50         | µg/L | 1 | 10/12/2020 03:29 PM |
| Thallium                    | ND              | 0.19                 | 0.50         | µg/L | 1 | 10/30/2020 07:41 AM |
| Vanadium                    | 2.9             | 0.28                 | 1.0          | µg/L | 1 | 10/12/2020 03:29 PM |
| Zinc                        | ND              | 2.3                  | 10           | µg/L | 1 | 10/12/2020 03:29 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-004

**Client Sample ID:** CW-02D-LF-Q420  
**Collection Date:** 10/7/2020 10:52:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICPMS**
**EPA 200.8**

| RunID: NV00922-ICP8_201012B | QC Batch: 82504 | PrepDate: 10/10/2020 | Analyst: CEI |      |   |                     |
|-----------------------------|-----------------|----------------------|--------------|------|---|---------------------|
| Antimony                    | ND              | 0.16                 | 0.50         | µg/L | 1 | 10/12/2020 03:42 PM |
| Arsenic                     | 2.2             | 0.081                | 0.10         | µg/L | 1 | 10/30/2020 06:21 AM |
| Barium                      | 21              | 0.15                 | 1.0          | µg/L | 1 | 10/12/2020 03:42 PM |
| Beryllium                   | ND              | 0.042                | 0.50         | µg/L | 1 | 10/12/2020 03:42 PM |
| Cadmium                     | ND              | 0.053                | 0.50         | µg/L | 1 | 10/12/2020 03:42 PM |
| Cobalt                      | 4.7             | 0.042                | 0.50         | µg/L | 1 | 10/12/2020 03:42 PM |
| Copper                      | ND              | 0.55                 | 1.0          | µg/L | 1 | 10/12/2020 03:42 PM |
| Lead                        | ND              | 0.13                 | 1.0          | µg/L | 1 | 10/12/2020 03:42 PM |
| Manganese                   | 0.74            | 0.26                 | 0.50         | µg/L | 1 | 10/12/2020 03:42 PM |
| Molybdenum                  | 14              | 0.21                 | 0.50         | µg/L | 1 | 10/12/2020 03:42 PM |
| Nickel                      | ND              | 0.26                 | 1.0          | µg/L | 1 | 10/12/2020 03:42 PM |
| Selenium                    | 4.3             | 0.36                 | 0.50         | µg/L | 1 | 10/30/2020 06:21 AM |
| Silver                      | ND              | 0.23                 | 0.50         | µg/L | 1 | 10/12/2020 03:42 PM |
| Thallium                    | ND              | 0.19                 | 0.50         | µg/L | 1 | 10/30/2020 06:21 AM |
| Vanadium                    | 3.2             | 0.28                 | 1.0          | µg/L | 1 | 10/12/2020 03:42 PM |
| Zinc                        | ND              | 2.3                  | 10           | µg/L | 1 | 10/12/2020 03:42 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-005

**Client Sample ID:** CW-02M-LF-Q420  
**Collection Date:** 10/7/2020 9:50:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICPMS**
**EPA 200.8**

| RunID: NV00922-ICP8_201012B | QC Batch: 82504 | PrepDate: 10/10/2020 | Analyst: CEI |      |   |                     |
|-----------------------------|-----------------|----------------------|--------------|------|---|---------------------|
| Antimony                    | ND              | 0.16                 | 0.50         | µg/L | 1 | 10/12/2020 03:56 PM |
| Arsenic                     | 2.1             | 0.081                | 0.10         | µg/L | 1 | 10/30/2020 06:26 AM |
| Barium                      | 63              | 0.15                 | 1.0          | µg/L | 1 | 10/12/2020 03:56 PM |
| Beryllium                   | ND              | 0.042                | 0.50         | µg/L | 1 | 10/12/2020 03:56 PM |
| Cadmium                     | ND              | 0.053                | 0.50         | µg/L | 1 | 10/12/2020 03:56 PM |
| Cobalt                      | 2.5             | 0.042                | 0.50         | µg/L | 1 | 10/12/2020 03:56 PM |
| Copper                      | ND              | 0.55                 | 1.0          | µg/L | 1 | 10/12/2020 03:56 PM |
| Lead                        | ND              | 0.13                 | 1.0          | µg/L | 1 | 10/12/2020 03:56 PM |
| Manganese                   | 1.9             | 0.26                 | 0.50         | µg/L | 1 | 10/12/2020 03:56 PM |
| Molybdenum                  | 15              | 0.21                 | 0.50         | µg/L | 1 | 10/12/2020 03:56 PM |
| Nickel                      | ND              | 0.26                 | 1.0          | µg/L | 1 | 10/12/2020 03:56 PM |
| Selenium                    | 4.2             | 0.36                 | 0.50         | µg/L | 1 | 10/30/2020 06:26 AM |
| Silver                      | ND              | 0.23                 | 0.50         | µg/L | 1 | 10/12/2020 03:56 PM |
| Thallium                    | ND              | 0.19                 | 0.50         | µg/L | 1 | 10/30/2020 06:26 AM |
| Vanadium                    | 3.7             | 0.28                 | 1.0          | µg/L | 1 | 10/12/2020 03:56 PM |
| Zinc                        | ND              | 2.3                  | 10           | µg/L | 1 | 10/12/2020 03:56 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-006

**Client Sample ID:** OW-01D-Q420  
**Collection Date:** 10/7/2020 2:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICPMS**
**EPA 200.8**

|                             |                 |                      |                       |
|-----------------------------|-----------------|----------------------|-----------------------|
| RunID: NV00922-ICP8_201012B | QC Batch: 82504 | PrepDate: 10/10/2020 | Analyst: CEI          |
| Molybdenum                  | 18 0.21 0.50    | µg/L                 | 1 10/12/2020 04:28 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-007

**Client Sample ID:** MW-903-Q420  
**Collection Date:** 10/7/2020 2:36:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICPMS**
**EPA 200.8**

|                             |                 |                      |                       |
|-----------------------------|-----------------|----------------------|-----------------------|
| RunID: NV00922-ICP8_201012B | QC Batch: 82504 | PrepDate: 10/10/2020 | Analyst: CEI          |
| Molybdenum                  | 18 0.21 0.50    | µg/L                 | 1 10/12/2020 04:42 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-008

**Client Sample ID:** OW-01M-Q420  
**Collection Date:** 10/7/2020 1:41:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICPMS**
**EPA 200.8**

|                             |                 |                      |                       |
|-----------------------------|-----------------|----------------------|-----------------------|
| RunID: NV00922-ICP8_201012B | QC Batch: 82504 | PrepDate: 10/10/2020 | Analyst: CEI          |
| Molybdenum                  | 18 0.21 0.50    | µg/L                 | 1 10/12/2020 04:56 PM |

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



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**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-009

**Client Sample ID:** OW-01S-Q420  
**Collection Date:** 10/7/2020 1:35:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED METALS BY ICPMS**
**EPA 200.8**

|                             |                 |                      |                       |
|-----------------------------|-----------------|----------------------|-----------------------|
| RunID: NV00922-ICP8_201012B | QC Batch: 82504 | PrepDate: 10/10/2020 | Analyst: CEI          |
| Molybdenum                  | 2.1 0.21 0.50   | µg/L                 | 1 10/12/2020 05:10 PM |

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



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 200.8\_WDISS\_TPK**

| Sample ID: <b>MB-82504</b> | SampType: <b>MBLK</b>  | TestCode: <b>200.8_WDISS</b> Units: <b>µg/L</b> |           |             |      | Prep Date: <b>10/10/2020</b>     |           |             | RunNo: <b>148068</b>  |          |      |
|----------------------------|------------------------|-------------------------------------------------|-----------|-------------|------|----------------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: <b>PBW</b>      | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>                        |           |             |      | Analysis Date: <b>10/12/2020</b> |           |             | SeqNo: <b>3970679</b> |          |      |
| Analyte                    | Result                 | PQL                                             | SPK value | SPK Ref Val | %REC | LowLimit                         | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Antimony                   | ND                     | 0.50                                            |           |             |      |                                  |           |             |                       |          |      |
| Barium                     | ND                     | 1.0                                             |           |             |      |                                  |           |             |                       |          |      |
| Beryllium                  | ND                     | 0.50                                            |           |             |      |                                  |           |             |                       |          |      |
| Cadmium                    | ND                     | 0.50                                            |           |             |      |                                  |           |             |                       |          |      |
| Cobalt                     | ND                     | 0.50                                            |           |             |      |                                  |           |             |                       |          |      |
| Copper                     | ND                     | 1.0                                             |           |             |      |                                  |           |             |                       |          |      |
| Lead                       | ND                     | 1.0                                             |           |             |      |                                  |           |             |                       |          |      |
| Manganese                  | ND                     | 0.50                                            |           |             |      |                                  |           |             |                       |          |      |
| Molybdenum                 | ND                     | 0.50                                            |           |             |      |                                  |           |             |                       |          |      |
| Nickel                     | ND                     | 1.0                                             |           |             |      |                                  |           |             |                       |          |      |
| Silver                     | ND                     | 0.50                                            |           |             |      |                                  |           |             |                       |          |      |
| Vanadium                   | ND                     | 1.0                                             |           |             |      |                                  |           |             |                       |          |      |
| Zinc                       | ND                     | 10                                              |           |             |      |                                  |           |             |                       |          |      |

| Sample ID: <b>LCS-82504</b> | SampType: <b>LCS</b>   | TestCode: <b>200.8_WDISS</b> Units: <b>µg/L</b> |           |             |      | Prep Date: <b>10/10/2020</b>     |           |             | RunNo: <b>148068</b>  |          |      |
|-----------------------------|------------------------|-------------------------------------------------|-----------|-------------|------|----------------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>                        |           |             |      | Analysis Date: <b>10/12/2020</b> |           |             | SeqNo: <b>3970680</b> |          |      |
| Analyte                     | Result                 | PQL                                             | SPK value | SPK Ref Val | %REC | LowLimit                         | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Antimony                    | 10.563                 | 0.50                                            | 10.00     | 0           | 106  | 85                               | 115       |             |                       |          |      |
| Barium                      | 9.742                  | 1.0                                             | 10.00     | 0           | 97.4 | 85                               | 115       |             |                       |          |      |
| Beryllium                   | 9.761                  | 0.50                                            | 10.00     | 0           | 97.6 | 85                               | 115       |             |                       |          |      |
| Cadmium                     | 10.167                 | 0.50                                            | 10.00     | 0           | 102  | 85                               | 115       |             |                       |          |      |
| Cobalt                      | 9.794                  | 0.50                                            | 10.00     | 0           | 97.9 | 85                               | 115       |             |                       |          |      |
| Copper                      | 9.884                  | 1.0                                             | 10.00     | 0           | 98.8 | 85                               | 115       |             |                       |          |      |
| Lead                        | 9.965                  | 1.0                                             | 10.00     | 0           | 99.7 | 85                               | 115       |             |                       |          |      |
| Manganese                   | 98.675                 | 0.50                                            | 100.0     | 0           | 98.7 | 85                               | 115       |             |                       |          |      |
| Molybdenum                  | 9.902                  | 0.50                                            | 10.00     | 0           | 99.0 | 85                               | 115       |             |                       |          |      |
| Nickel                      | 10.082                 | 1.0                                             | 10.00     | 0           | 101  | 85                               | 115       |             |                       |          |      |

**Qualifiers:**

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

Calculations are based on raw values

**ASSET LABORATORIES**

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL, SOIL AND WATER

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NEVADA | P: 702.307.2659 F: 702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.8\_WDISS\_TPK

| Sample ID: <b>LCS-82504</b> | SampType: <b>LCS</b>   | TestCode: <b>200.8_WDISS</b> Units: <b>µg/L</b> |           |             |      | Prep Date: <b>10/10/2020</b>     |           |             | RunNo: <b>148068</b>  |          |      |
|-----------------------------|------------------------|-------------------------------------------------|-----------|-------------|------|----------------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>                        |           |             |      | Analysis Date: <b>10/12/2020</b> |           |             | SeqNo: <b>3970680</b> |          |      |
| Analyte                     | Result                 | PQL                                             | SPK value | SPK Ref Val | %REC | LowLimit                         | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Silver                      | 10.438                 | 0.50                                            | 10.00     | 0           | 104  | 85                               | 115       |             |                       |          |      |
| Vanadium                    | 9.724                  | 1.0                                             | 10.00     | 0           | 97.2 | 85                               | 115       |             |                       |          |      |
| Zinc                        | 10.229                 | 10                                              | 10.00     | 0           | 102  | 85                               | 115       |             |                       |          |      |

| Sample ID: <b>N042508-001B-MS</b> | SampType: <b>MS</b>    | TestCode: <b>200.8_WDISS</b> Units: <b>µg/L</b> |           |             |      | Prep Date: <b>10/10/2020</b>     |           |             | RunNo: <b>148068</b>  |          |      |
|-----------------------------------|------------------------|-------------------------------------------------|-----------|-------------|------|----------------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>                        |           |             |      | Analysis Date: <b>10/12/2020</b> |           |             | SeqNo: <b>3970688</b> |          |      |
| Analyte                           | Result                 | PQL                                             | SPK value | SPK Ref Val | %REC | LowLimit                         | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Antimony                          | 11.123                 | 0.50                                            | 10.00     | 0           | 111  | 75                               | 125       |             |                       |          |      |
| Barium                            | 41.352                 | 1.0                                             | 10.00     | 32.36       | 89.9 | 75                               | 125       |             |                       |          |      |
| Beryllium                         | 7.106                  | 0.50                                            | 10.00     | 0           | 71.1 | 75                               | 125       |             |                       |          | S    |
| Cadmium                           | 10.202                 | 0.50                                            | 10.00     | 0           | 102  | 75                               | 125       |             |                       |          |      |
| Cobalt                            | 9.114                  | 0.50                                            | 10.00     | 0.04969     | 90.6 | 75                               | 125       |             |                       |          |      |
| Copper                            | 9.340                  | 1.0                                             | 10.00     | 0           | 93.4 | 75                               | 125       |             |                       |          |      |
| Lead                              | 10.593                 | 1.0                                             | 10.00     | 0           | 106  | 75                               | 125       |             |                       |          |      |
| Manganese                         | 112.526                | 0.50                                            | 100.0     | 18.93       | 93.6 | 75                               | 125       |             |                       |          |      |
| Molybdenum                        | 33.828                 | 0.50                                            | 10.00     | 22.75       | 111  | 75                               | 125       |             |                       |          |      |
| Nickel                            | ND                     | 1.0                                             | 10.00     | 0           | 0    | 75                               | 125       |             |                       |          | S    |
| Silver                            | 10.225                 | 0.50                                            | 10.00     | 0           | 102  | 75                               | 125       |             |                       |          |      |
| Vanadium                          | 17.758                 | 1.0                                             | 10.00     | 7.946       | 98.1 | 75                               | 125       |             |                       |          |      |
| Zinc                              | 3.784                  | 10                                              | 10.00     | 0           | 37.8 | 75                               | 125       |             |                       |          | S    |

| Sample ID: N042508-001B-MSD | SampType: MSD   | TestCode: 200.8_WDISS | Units: µg/L | Prep Date: 10/10/2020     | RunNo: 148068  |          |           |             |       |          |      |
|-----------------------------|-----------------|-----------------------|-------------|---------------------------|----------------|----------|-----------|-------------|-------|----------|------|
| Client ID: ZZZZZZ           | Batch ID: 82504 | TestNo: EPA 200.8     |             | Analysis Date: 10/12/2020 | SeqNo: 3970693 |          |           |             |       |          |      |
| Analyte                     | Result          | PQL                   | SPK value   | SPK Ref Val               | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Antimony                    | 11.455          | 0.50                  | 10.00       | 0                         | 115            | 75       | 125       | 11.12       | 2.94  | 20       |      |
| Barium                      | 41.037          | 1.0                   | 10.00       | 32.36                     | 86.8           | 75       | 125       | 41.35       | 0.765 | 20       |      |
| Beryllium                   | 7.056           | 0.50                  | 10.00       | 0                         | 70.6           | 75       | 125       | 7.106       | 0.703 | 20       | S    |
| Cadmium                     | 10.147          | 0.50                  | 10.00       | 0                         | 101            | 75       | 125       | 10.20       | 0.535 | 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:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.8\_WDISS\_TPK

| Sample ID: <b>N042508-001B-MSD</b> |         | SampType: <b>MSD</b>   | TestCode: <b>200.8_WDISS</b> Units: <b>µg/L</b> |             |      | Prep Date: <b>10/10/2020</b>     |           | RunNo: <b>148068</b>  |       |          |      |
|------------------------------------|---------|------------------------|-------------------------------------------------|-------------|------|----------------------------------|-----------|-----------------------|-------|----------|------|
| Client ID: <b>ZZZZZZ</b>           |         | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>                        |             |      | Analysis Date: <b>10/12/2020</b> |           | SeqNo: <b>3970693</b> |       |          |      |
| Analyte                            | Result  | PQL                    | SPK value                                       | SPK Ref Val | %REC | LowLimit                         | HighLimit | RPD Ref Val           | %RPD  | RPDLimit | Qual |
| Cobalt                             | 9.213   | 0.50                   | 10.00                                           | 0.04969     | 91.6 | 75                               | 125       | 9.114                 | 1.08  | 20       |      |
| Copper                             | 9.326   | 1.0                    | 10.00                                           | 0           | 93.3 | 75                               | 125       | 9.340                 | 0.147 | 20       |      |
| Lead                               | 10.730  | 1.0                    | 10.00                                           | 0           | 107  | 75                               | 125       | 10.59                 | 1.28  | 20       |      |
| Manganese                          | 113.613 | 0.50                   | 100.0                                           | 18.93       | 94.7 | 75                               | 125       | 112.5                 | 0.961 | 20       |      |
| Molybdenum                         | 32.838  | 0.50                   | 10.00                                           | 22.75       | 101  | 75                               | 125       | 33.83                 | 2.97  | 20       |      |
| Nickel                             | ND      | 1.0                    | 10.00                                           | 0           | 0    | 75                               | 125       | 0                     | 0     | 20       | S    |
| Silver                             | 10.102  | 0.50                   | 10.00                                           | 0           | 101  | 75                               | 125       | 10.22                 | 1.21  | 20       |      |
| Vanadium                           | 17.900  | 1.0                    | 10.00                                           | 7.946       | 99.5 | 75                               | 125       | 17.76                 | 0.798 | 20       |      |
| Zinc                               | 3.836   | 10                     | 10.00                                           | 0           | 38.4 | 75                               | 125       | 3.784                 | 0     | 20       | S    |

| Sample ID: <b>N042522-001C-MS</b> |         | SampType: <b>MS</b>    | TestCode: <b>200.8_WDISS</b> Units: <b>µg/L</b> |             |      | Prep Date: <b>10/10/2020</b>     |           | RunNo: <b>148068</b>  |      |          |      |
|-----------------------------------|---------|------------------------|-------------------------------------------------|-------------|------|----------------------------------|-----------|-----------------------|------|----------|------|
| Client ID: <b>ZZZZZZ</b>          |         | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>                        |             |      | Analysis Date: <b>10/12/2020</b> |           | SeqNo: <b>3970738</b> |      |          |      |
| Analyte                           | Result  | PQL                    | SPK value                                       | SPK Ref Val | %REC | LowLimit                         | HighLimit | RPD Ref Val           | %RPD | RPDLimit | Qual |
| Antimony                          | 11.423  | 0.50                   | 10.00                                           | 0           | 114  | 75                               | 125       |                       |      |          |      |
| Barium                            | 32.092  | 1.0                    | 10.00                                           | 22.08       | 100  | 75                               | 125       |                       |      |          |      |
| Beryllium                         | 7.049   | 0.50                   | 10.00                                           | 0           | 70.5 | 75                               | 125       |                       |      |          | S    |
| Cadmium                           | 10.559  | 0.50                   | 10.00                                           | 0           | 106  | 75                               | 125       |                       |      |          |      |
| Cobalt                            | 12.648  | 0.50                   | 10.00                                           | 3.398       | 92.5 | 75                               | 125       |                       |      |          |      |
| Copper                            | 9.197   | 1.0                    | 10.00                                           | 0           | 92.0 | 75                               | 125       |                       |      |          |      |
| Lead                              | 10.820  | 1.0                    | 10.00                                           | 0           | 108  | 75                               | 125       |                       |      |          |      |
| Manganese                         | 105.110 | 0.50                   | 100.0                                           | 7.543       | 97.6 | 75                               | 125       |                       |      |          |      |
| Molybdenum                        | 31.733  | 0.50                   | 10.00                                           | 19.52       | 122  | 75                               | 125       |                       |      |          |      |
| Nickel                            | ND      | 1.0                    | 10.00                                           | 0           | 0    | 75                               | 125       |                       |      |          | S    |
| Silver                            | 10.070  | 0.50                   | 10.00                                           | 0           | 101  | 75                               | 125       |                       |      |          |      |
| Vanadium                          | 12.722  | 1.0                    | 10.00                                           | 2.400       | 103  | 75                               | 125       |                       |      |          |      |
| Zinc                              | 3.452   | 10                     | 10.00                                           | 0           | 34.5 | 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 |                                      |   |                                                              |



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.8\_WDISS\_TPK

| Sample ID: <b>MB-82504</b> | SampType: <b>MBLK</b>  | TestCode: <b>200.8_WDISS</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148363</b>  |          |           |             |      |          |      |
|----------------------------|------------------------|------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>PBW</b>      | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     |                    | Analysis Date: <b>10/30/2020</b> | SeqNo: <b>3985811</b> |          |           |             |      |          |      |
| Analyte                    | Result                 | PQL                          | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                    | ND                     | 0.10                         |                    |                                  |                       |          |           |             |      |          |      |
| Selenium                   | ND                     | 0.50                         |                    |                                  |                       |          |           |             |      |          |      |
| Thallium                   | ND                     | 0.50                         |                    |                                  |                       |          |           |             |      |          |      |

|                             |                        |                                                 |           |             |      |                                  |           |             |                       |          |      |
|-----------------------------|------------------------|-------------------------------------------------|-----------|-------------|------|----------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: <b>LCS-82504</b> | SampType: <b>LCS</b>   | TestCode: <b>200.8_WDISS</b> Units: <b>µg/L</b> |           |             |      | Prep Date: <b>10/10/2020</b>     |           |             | RunNo: <b>148363</b>  |          |      |
| Client ID: <b>LCSW</b>      | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>                        |           |             |      | Analysis Date: <b>10/30/2020</b> |           |             | SeqNo: <b>3985812</b> |          |      |
| Analyte                     | Result                 | PQL                                             | SPK value | SPK Ref Val | %REC | LowLimit                         | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Arsenic                     | 10.496                 | 0.10                                            | 10.00     | 0           | 105  | 85                               | 115       |             |                       |          |      |
| Selenium                    | 10.140                 | 0.50                                            | 10.00     | 0           | 101  | 85                               | 115       |             |                       |          |      |
| Thallium                    | 9.722                  | 0.50                                            | 10.00     | 0           | 97.2 | 85                               | 115       |             |                       |          |      |

| Sample ID: <b>N042508-001B-MS</b> | SampType: <b>MS</b>    | TestCode: <b>200.8_WDISS</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148363</b>  |          |           |             |      |          |      |
|-----------------------------------|------------------------|------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     |                    | Analysis Date: <b>10/30/2020</b> | SeqNo: <b>3985821</b> |          |           |             |      |          |      |
| Analyte                           | Result                 | PQL                          | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                           | 14.481                 | 0.10                         | 10.00              | 3.154                            | 113                   | 75       | 125       |             |      |          |      |
| Selenium                          | 15.263                 | 0.50                         | 10.00              | 4.744                            | 105                   | 75       | 125       |             |      |          |      |
| Thallium                          | 9.218                  | 0.50                         | 10.00              | 0                                | 92.2                  | 75       | 125       |             |      |          |      |

| Sample ID: <b>N042508-001B-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>200.8_WDISS</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148363</b>  |          |           |             |       |          |      |
|------------------------------------|------------------------|------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|-------|----------|------|
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     |                    | Analysis Date: <b>10/30/2020</b> | SeqNo: <b>3985822</b> |          |           |             |       |          |      |
| Analyte                            | Result                 | PQL                          | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Arsenic                            | 14.762                 | 0.10                         | 10.00              | 3.154                            | 116                   | 75       | 125       | 14.48       | 1.92  | 20       |      |
| Selenium                           | 15.436                 | 0.50                         | 10.00              | 4.744                            | 107                   | 75       | 125       | 15.26       | 1.13  | 20       |      |
| Thallium                           | 9.257                  | 0.50                         | 10.00              | 0                                | 92.6                  | 75       | 125       | 9.218       | 0.424 | 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: N042513  
Project: PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8\_WDISS\_TPK

|                            |                 |                       |                           |                       |               |          |           |             |      |          |      |
|----------------------------|-----------------|-----------------------|---------------------------|-----------------------|---------------|----------|-----------|-------------|------|----------|------|
| Sample ID: N042522-001C-MS | SampType: MS    | TestCode: 200.8_WDISS | Units: µg/L               | Prep Date: 10/10/2020 | RunNo: 148363 |          |           |             |      |          |      |
| Client ID: ZZZZZZ          | Batch ID: 82504 | TestNo: EPA 200.8     | Analysis Date: 10/30/2020 | SeqNo: 3985832        |               |          |           |             |      |          |      |
| Analyte                    | Result          | PQL                   | SPK value                 | SPK Ref Val           | %REC          | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                    | 12.928          | 0.10                  | 10.00                     | 1.358                 | 116           | 75       | 125       |             |      |          |      |
| Selenium                   | 15.797          | 0.50                  | 10.00                     | 4.826                 | 110           | 75       | 125       |             |      |          |      |
| Thallium                   | 9.163           | 0.50                  | 10.00                     | 0                     | 91.6          | 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 |   |                                                              |



ASSET LABORATORIES

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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 200.8\_WDISS\_TPK**

|                                   |                        |                              |                    |             |                                  |          |           |                      |                       |          |      |
|-----------------------------------|------------------------|------------------------------|--------------------|-------------|----------------------------------|----------|-----------|----------------------|-----------------------|----------|------|
| Sample ID: <b>N042508-001B-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.8_WDISS</b> | Units: <b>µg/L</b> | Prep Date:  |                                  |          |           | RunNo: <b>148068</b> |                       |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     |                    |             | Analysis Date: <b>10/12/2020</b> |          |           |                      | SeqNo: <b>3970685</b> |          |      |
| Analyte                           | Result                 | PQL                          | SPK value          | SPK Ref Val | %REC                             | LowLimit | HighLimit | RPD Ref Val          | %RPD                  | RPDLimit | Qual |
| Antimony                          | 10.998                 | 0.50                         | 10.00              | 0           | 110                              | 80       | 120       |                      |                       |          |      |
| Barium                            | 41.199                 | 1.0                          | 10.00              | 32.36       | 88.4                             | 80       | 120       |                      |                       |          |      |
| Beryllium                         | 7.017                  | 0.50                         | 10.00              | 0           | 70.2                             | 80       | 120       |                      |                       |          | S    |
| Cadmium                           | 10.137                 | 0.50                         | 10.00              | 0           | 101                              | 80       | 120       |                      |                       |          |      |
| Cobalt                            | 9.065                  | 0.50                         | 10.00              | 0.04969     | 90.2                             | 80       | 120       |                      |                       |          |      |
| Copper                            | 9.295                  | 1.0                          | 10.00              | 0           | 93.0                             | 80       | 120       |                      |                       |          |      |
| Lead                              | 10.565                 | 1.0                          | 10.00              | 0           | 106                              | 80       | 120       |                      |                       |          |      |
| Manganese                         | 113.213                | 0.50                         | 100.0              | 18.93       | 94.3                             | 80       | 120       |                      |                       |          |      |
| Molybdenum                        | 33.648                 | 0.50                         | 10.00              | 22.75       | 109                              | 80       | 120       |                      |                       |          |      |
| Nickel                            | ND                     | 1.0                          | 10.00              | 0           | 0                                | 80       | 120       |                      |                       |          | S    |
| Silver                            | 10.227                 | 0.50                         | 10.00              | 0           | 102                              | 80       | 120       |                      |                       |          |      |
| Vanadium                          | 17.966                 | 1.0                          | 10.00              | 7.946       | 100                              | 80       | 120       |                      |                       |          |      |
| Zinc                              | 4.052                  | 10                           | 10.00              | 0           | 40.5                             | 80       | 120       |                      |                       |          | S    |

| Sample ID: <b>N042522-001C-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.8_WDISS</b> | Units: <b>µg/L</b> | Prep Date:                       |      |          |           | RunNo: <b>148068</b>  |      |          |      |
|-----------------------------------|------------------------|------------------------------|--------------------|----------------------------------|------|----------|-----------|-----------------------|------|----------|------|
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     |                    | Analysis Date: <b>10/12/2020</b> |      |          |           | SeqNo: <b>3970735</b> |      |          |      |
| Analyte                           | Result                 | PQL                          | SPK value          | SPK Ref Val                      | %REC | LowLimit | HighLimit | RPD Ref Val           | %RPD | RPDLimit | Qual |
| Antimony                          | 11.434                 | 0.50                         | 10.00              | 0                                | 114  | 80       | 120       |                       |      |          |      |
| Barium                            | 31.626                 | 1.0                          | 10.00              | 22.08                            | 95.5 | 80       | 120       |                       |      |          |      |
| Beryllium                         | 7.183                  | 0.50                         | 10.00              | 0                                | 71.8 | 80       | 120       |                       |      |          | S    |
| Cadmium                           | 10.339                 | 0.50                         | 10.00              | 0                                | 103  | 80       | 120       |                       |      |          |      |
| Cobalt                            | 12.548                 | 0.50                         | 10.00              | 3.398                            | 91.5 | 80       | 120       |                       |      |          |      |
| Copper                            | 9.181                  | 1.0                          | 10.00              | 0                                | 91.8 | 80       | 120       |                       |      |          |      |
| Lead                              | 10.813                 | 1.0                          | 10.00              | 0                                | 108  | 80       | 120       |                       |      |          |      |
| Manganese                         | 104.061                | 0.50                         | 100.0              | 7.543                            | 96.5 | 80       | 120       |                       |      |          |      |
| Molybdenum                        | 31.776                 | 0.50                         | 10.00              | 19.52                            | 123  | 80       | 120       |                       |      |          | S    |
| Nickel                            | ND                     | 1.0                          | 10.00              | 0                                | 0    | 80       | 120       |                       |      |          | S    |

**Qualifiers:**

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



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California  
Work Order: N042513  
Project: PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8\_WDISS\_TPK

|                            |                 |                       |             |                           |      |          |           |                |      |          |      |
|----------------------------|-----------------|-----------------------|-------------|---------------------------|------|----------|-----------|----------------|------|----------|------|
| Sample ID: N042522-001C-PS | SampType: PS    | TestCode: 200.8_WDISS | Units: µg/L | Prep Date:                |      |          |           | RunNo: 148068  |      |          |      |
| Client ID: ZZZZZZ          | Batch ID: 82504 | TestNo: EPA 200.8     |             | Analysis Date: 10/12/2020 |      |          |           | SeqNo: 3970735 |      |          |      |
| Analyte                    | Result          | PQL                   | SPK value   | SPK Ref Val               | %REC | LowLimit | HighLimit | RPD Ref Val    | %RPD | RPDLimit | Qual |
| Silver                     | 10.003          | 0.50                  | 10.00       | 0                         | 100  | 80       | 120       |                |      |          |      |
| Vanadium                   | 12.552          | 1.0                   | 10.00       | 2.400                     | 102  | 80       | 120       |                |      |          |      |
| Zinc                       | 3.474           | 10                    | 10.00       | 0                         | 34.7 | 80       | 120       |                |      |          | S    |

|                            |                 |                       |             |                           |                |          |           |             |      |          |      |
|----------------------------|-----------------|-----------------------|-------------|---------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: N042508-001B-PS | SampType: PS    | TestCode: 200.8_WDISS | Units: µg/L | Prep Date:                | RunNo: 148363  |          |           |             |      |          |      |
| Client ID: ZZZZZZ          | Batch ID: 82504 | TestNo: EPA 200.8     |             | Analysis Date: 10/30/2020 | SeqNo: 3985820 |          |           |             |      |          |      |
| Analyte                    | Result          | PQL                   | SPK value   | SPK Ref Val               | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                    | 14.405          | 0.10                  | 10.00       | 3.154                     | 113            | 80       | 120       |             |      |          |      |
| Selenium                   | 15.396          | 0.50                  | 10.00       | 4.744                     | 107            | 80       | 120       |             |      |          |      |
| Thallium                   | 9.758           | 0.50                  | 10.00       | 0                         | 97.6           | 80       | 120       |             |      |          |      |

|                            |                 |                       |             |                           |                |          |           |             |      |          |      |
|----------------------------|-----------------|-----------------------|-------------|---------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: N042522-001C-PS | SampType: PS    | TestCode: 200.8_WDISS | Units: µg/L | Prep Date:                | RunNo: 148363  |          |           |             |      |          |      |
| Client ID: ZZZZZZ          | Batch ID: 82504 | TestNo: EPA 200.8     |             | Analysis Date: 10/30/2020 | SeqNo: 3985831 |          |           |             |      |          |      |
| Analyte                    | Result          | PQL                   | SPK value   | SPK Ref Val               | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                    | 13.088          | 0.10                  | 10.00       | 1.358                     | 117            | 80       | 120       |             |      |          |      |
| Selenium                   | 15.822          | 0.50                  | 10.00       | 4.826                     | 110            | 80       | 120       |             |      |          |      |
| Thallium                   | 9.005           | 0.50                  | 10.00       | 0                         | 90.0           | 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 |                                      |   |                                                              |



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-001

**Client Sample ID:** CW-03D-LF-Q420  
**Collection Date:** 10/7/2020 12:15:00 PM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units      | DF           | Date Analyzed       |
|-----------------------------------|-------------------|-------|------|-----------|------------|--------------|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |            |              |                     |
| <b>EPA 218.6</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-IC7_201008B        | QC Batch: R147912 |       |      | PrepDate: |            | Analyst: RAB |                     |
| Hexavalent Chromium               | 1.0               | 0.033 | 0.20 |           | µg/L       | 1            | 10/8/2020 02:57 PM  |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |            |              |                     |
| <b>EPA 200.8</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       |      | PrepDate: | 10/10/2020 | Analyst: CEI |                     |
| Chromium                          | 2.5               | 0.13  | 1.0  |           | µg/L       | 1            | 10/12/2020 02:52 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-002

**Client Sample ID:** MW-902-Q420  
**Collection Date:** 10/7/2020 12:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units      | DF           | Date Analyzed       |
|-----------------------------------|-------------------|-------|------|-----------|------------|--------------|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |            |              |                     |
| <b>EPA 218.6</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-IC7_201008B        | QC Batch: R147912 |       |      | PrepDate: |            | Analyst: RAB |                     |
| Hexavalent Chromium               | 2.8               | 0.033 | 0.20 |           | µg/L       | 1            | 10/8/2020 03:07 PM  |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |            |              |                     |
| <b>EPA 200.8</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       |      | PrepDate: | 10/10/2020 | Analyst: CEI |                     |
| Chromium                          | 6.0               | 0.13  | 1.0  |           | µg/L       | 1            | 10/12/2020 03:06 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-003

**Client Sample ID:** CW-03M-LF-Q420  
**Collection Date:** 10/7/2020 12:16:00 PM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units      | DF           | Date Analyzed       |
|-----------------------------------|-------------------|-------|------|-----------|------------|--------------|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |            |              |                     |
| <b>EPA 218.6</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-IC7_201008B        | QC Batch: R147912 |       |      | PrepDate: |            | Analyst: RAB |                     |
| Hexavalent Chromium               | 2.8               | 0.033 | 0.20 |           | µg/L       | 1            | 10/8/2020 03:35 PM  |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |            |              |                     |
| <b>EPA 200.8</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       |      | PrepDate: | 10/10/2020 | Analyst: CEI |                     |
| Chromium                          | 6.7               | 0.13  | 1.0  |           | µg/L       | 1            | 10/12/2020 03:29 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-004

**Client Sample ID:** CW-02D-LF-Q420  
**Collection Date:** 10/7/2020 10:52:00 AM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL                  | Qual | Units        | DF | Date Analyzed       |
|-----------------------------------|-------------------|-------|----------------------|------|--------------|----|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |                      |      |              |    |                     |
| <b>EPA 218.6</b>                  |                   |       |                      |      |              |    |                     |
| RunID: NV00922-IC7_201008B        | QC Batch: R147912 |       | PrepDate:            |      | Analyst: RAB |    |                     |
| Hexavalent Chromium               | 0.47              | 0.033 | 0.20                 |      | µg/L         | 1  | 10/8/2020 03:44 PM  |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |                      |      |              |    |                     |
| <b>EPA 200.8</b>                  |                   |       |                      |      |              |    |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       | PrepDate: 10/10/2020 |      | Analyst: CEI |    |                     |
| Chromium                          | 1.3               | 0.13  | 1.0                  |      | µg/L         | 1  | 10/12/2020 03:42 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-005

**Client Sample ID:** CW-02M-LF-Q420  
**Collection Date:** 10/7/2020 9:50:00 AM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units      | DF           | Date Analyzed       |
|-----------------------------------|-------------------|-------|------|-----------|------------|--------------|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |            |              |                     |
| <b>EPA 218.6</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-IC7_201008B        | QC Batch: R147912 |       |      | PrepDate: |            | Analyst: RAB |                     |
| Hexavalent Chromium               | 1.1               | 0.033 | 0.20 |           | µg/L       | 1            | 10/8/2020 03:54 PM  |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |            |              |                     |
| <b>EPA 200.8</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       |      | PrepDate: | 10/10/2020 | Analyst: CEI |                     |
| Chromium                          | 2.1               | 0.13  | 1.0  |           | µg/L       | 1            | 10/12/2020 03:56 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-006

**Client Sample ID:** OW-01D-Q420  
**Collection Date:** 10/7/2020 2:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL                  | Qual | Units        | DF | Date Analyzed       |
|-----------------------------------|-------------------|-------|----------------------|------|--------------|----|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |                      |      |              |    |                     |
| <b>EPA 218.6</b>                  |                   |       |                      |      |              |    |                     |
| RunID: NV00922-IC7_201008B        | QC Batch: R147912 |       | PrepDate:            |      | Analyst: RAB |    |                     |
| Hexavalent Chromium               | 0.60              | 0.033 | 0.20                 |      | µg/L         | 1  | 10/8/2020 04:03 PM  |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |                      |      |              |    |                     |
| <b>EPA 200.8</b>                  |                   |       |                      |      |              |    |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       | PrepDate: 10/10/2020 |      | Analyst: CEI |    |                     |
| Chromium                          | ND                | 0.13  | 1.0                  |      | µg/L         | 1  | 10/12/2020 04:28 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-007

**Client Sample ID:** MW-903-Q420  
**Collection Date:** 10/7/2020 2:36:00 PM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units      | DF           | Date Analyzed       |
|-----------------------------------|-------------------|-------|------|-----------|------------|--------------|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |            |              |                     |
| <b>EPA 218.6</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-IC7_201008B        | QC Batch: R147912 |       |      | PrepDate: |            | Analyst: RAB |                     |
| Hexavalent Chromium               | 0.59              | 0.033 | 0.20 |           | µg/L       | 1            | 10/8/2020 04:13 PM  |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |            |              |                     |
| <b>EPA 200.8</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       |      | PrepDate: | 10/10/2020 | Analyst: CEI |                     |
| Chromium                          | ND                | 0.13  | 1.0  |           | µg/L       | 1            | 10/12/2020 04:42 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-008

**Client Sample ID:** OW-01M-Q420  
**Collection Date:** 10/7/2020 1:41:00 PM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL                  | Qual | Units        | DF | Date Analyzed       |
|-----------------------------------|-------------------|-------|----------------------|------|--------------|----|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |                      |      |              |    |                     |
| <b>EPA 218.6</b>                  |                   |       |                      |      |              |    |                     |
| RunID: NV00922-IC7_201008B        | QC Batch: R147912 |       | PrepDate:            |      | Analyst: RAB |    |                     |
| Hexavalent Chromium               | 2.3               | 0.033 | 0.20                 |      | µg/L         | 1  | 10/8/2020 04:22 PM  |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |                      |      |              |    |                     |
| <b>EPA 200.8</b>                  |                   |       |                      |      |              |    |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       | PrepDate: 10/10/2020 |      | Analyst: CEI |    |                     |
| Chromium                          | 5.1               | 0.13  | 1.0                  |      | µg/L         | 1  | 10/12/2020 04:56 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-009

**Client Sample ID:** OW-01S-Q420  
**Collection Date:** 10/7/2020 1:35:00 PM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL                  | Qual | Units        | DF | Date Analyzed       |
|-----------------------------------|-------------------|-------|----------------------|------|--------------|----|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |                      |      |              |    |                     |
| <b>EPA 218.6</b>                  |                   |       |                      |      |              |    |                     |
| RunID: NV00922-IC7_201008B        | QC Batch: R147912 |       | PrepDate:            |      | Analyst: RAB |    |                     |
| Hexavalent Chromium               | 2.6               | 0.033 | 0.20                 |      | µg/L         | 1  | 10/8/2020 04:32 PM  |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |                      |      |              |    |                     |
| <b>EPA 200.8</b>                  |                   |       |                      |      |              |    |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       | PrepDate: 10/10/2020 |      | Analyst: CEI |    |                     |
| Chromium                          | 5.2               | 0.13  | 1.0                  |      | µg/L         | 1  | 10/12/2020 05:10 PM |

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



**ASSET LABORATORIES**  
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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-010

**Client Sample ID:** EB-756-Q420  
**Collection Date:** 10/7/2020 2:30:00 PM  
**Matrix:** GROUNDWATER

| Analyses                         | Result            | MDL   | PQL       | Qual | Units        | DF | Date Analyzed      |
|----------------------------------|-------------------|-------|-----------|------|--------------|----|--------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b> |                   |       |           |      |              |    |                    |
| <b>EPA 218.6</b>                 |                   |       |           |      |              |    |                    |
| RunID: NV00922-IC7_201008B       | QC Batch: R147912 |       | PrepDate: |      | Analyst: RAB |    |                    |
| Hexavalent Chromium              | ND                | 0.033 | 0.20      |      | µg/L         | 1  | 10/8/2020 07:22 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-011

**Client Sample ID:** EB-755-Q420  
**Collection Date:** 10/7/2020 3:00:00 PM  
**Matrix:** GROUNDWATER

| Analyses                         | Result            | MDL   | PQL       | Qual | Units        | DF | Date Analyzed      |
|----------------------------------|-------------------|-------|-----------|------|--------------|----|--------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b> |                   |       |           |      |              |    |                    |
| <b>EPA 218.6</b>                 |                   |       |           |      |              |    |                    |
| RunID: NV00922-IC7_201008B       | QC Batch: R147912 |       | PrepDate: |      | Analyst: RAB |    |                    |
| Hexavalent Chromium              | ND                | 0.033 | 0.20      |      | µg/L         | 1  | 10/8/2020 07:48 PM |

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



**ASSET LABORATORIES**  
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**"Serving Clients with Passion and Professionalism"**

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 200.8Dis\_CrPGE\_TPK**

|                            |                        |                               |                    |                                  |                                                        |
|----------------------------|------------------------|-------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>MB-82504</b> | SampType: <b>MBLK</b>  | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148068</b>                                   |
| Client ID: <b>PBW</b>      | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/12/2020</b> | SeqNo: <b>3970486</b>                                  |
| Analyte                    | Result                 | PQL                           | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                   | ND                     | 1.0                           |                    |                                  |                                                        |

|                             |                        |                               |                    |                                  |                                                        |
|-----------------------------|------------------------|-------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>LCS-82504</b> | SampType: <b>LCS</b>   | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148068</b>                                   |
| Client ID: <b>LCSW</b>      | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/12/2020</b> | SeqNo: <b>3970487</b>                                  |
| Analyte                     | Result                 | PQL                           | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                    | 9.636                  | 1.0                           | 10.00              | 0                                | 96.4 85 115                                            |

|                                   |                        |                               |                    |                                  |                                                        |
|-----------------------------------|------------------------|-------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042508-001B-MS</b> | SampType: <b>MS</b>    | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148068</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/12/2020</b> | SeqNo: <b>3970498</b>                                  |
| Analyte                           | Result                 | PQL                           | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                          | 408.147                | 5.0                           | 10.00              | 397.3                            | 109 75 125                                             |

|                                    |                        |                               |                    |                                  |                                                        |
|------------------------------------|------------------------|-------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042508-001B-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148068</b>                                   |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/12/2020</b> | SeqNo: <b>3970501</b>                                  |
| Analyte                            | Result                 | PQL                           | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                           | 408.037                | 5.0                           | 10.00              | 397.3                            | 107 75 125 408.1 0.0270 20                             |

|                                   |                        |                               |                    |                                  |                                                        |
|-----------------------------------|------------------------|-------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042522-001C-MS</b> | SampType: <b>MS</b>    | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148068</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/12/2020</b> | SeqNo: <b>3970545</b>                                  |
| Analyte                           | Result                 | PQL                           | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                          | 11.606                 | 1.0                           | 10.00              | 1.985                            | 96.2 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 |                                      |   |                                                              |



**ASSET LABORATORIES**  
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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 218.6\_WPGE

|                               |                          |                             |                    |                                 |                       |          |           |             |      |          |      |
|-------------------------------|--------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-R147912</b> | SampType: <b>LCS</b>     | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                      | RunNo: <b>147912</b>  |          |           |             |      |          |      |
| Client ID: <b>LCSW</b>        | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961907</b> |          |           |             |      |          |      |
| Analyte                       | Result                   | PQL                         | SPK value          | SPK Ref Val                     | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |   |     |    |     |  |  |  |  |
|---------------------|-------|------|-------|---|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 5.026 | 0.20 | 5.000 | 0 | 101 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|---|-----|----|-----|--|--|--|--|

|                              |                          |                             |                    |                                 |                       |          |           |             |      |          |      |
|------------------------------|--------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-R147912</b> | SampType: <b>MBLK</b>    | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                      | RunNo: <b>147912</b>  |          |           |             |      |          |      |
| Client ID: <b>PBW</b>        | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961908</b> |          |           |             |      |          |      |
| Analyte                      | Result                   | PQL                         | SPK value          | SPK Ref Val                     | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |    |      |  |  |  |  |  |  |  |  |  |
|---------------------|----|------|--|--|--|--|--|--|--|--|--|
| Hexavalent Chromium | ND | 0.20 |  |  |  |  |  |  |  |  |  |
|---------------------|----|------|--|--|--|--|--|--|--|--|--|

|                                  |                          |                             |                    |                                 |                       |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-001AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                      | RunNo: <b>147912</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961920</b> |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                     | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |       |      |    |     |  |  |  |  |
|---------------------|-------|------|-------|-------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 2.003 | 0.20 | 1.000 | 1.013 | 99.0 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|-------|------|----|-----|--|--|--|--|

|                                  |                          |                             |                    |                                 |                       |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-002AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                      | RunNo: <b>147912</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961921</b> |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                     | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |       |     |    |     |  |  |  |  |
|---------------------|-------|------|-------|-------|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 3.864 | 0.20 | 1.000 | 2.806 | 106 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|-------|-----|----|-----|--|--|--|--|

|                                  |                          |                             |                    |                                 |                       |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-003AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                      | RunNo: <b>147912</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961922</b> |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                     | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |       |     |    |     |  |  |  |  |
|---------------------|-------|------|-------|-------|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 7.840 | 0.20 | 5.000 | 2.757 | 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: N042513  
Project: PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6\_WPGE

|                                  |                          |                             |                    |                                 |      |          |           |                       |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|---------------------------------|------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: <b>N042513-009AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                      |      |          |           | RunNo: <b>147912</b>  |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/8/2020</b> |      |          |           | SeqNo: <b>3961925</b> |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                     | %REC | LowLimit | HighLimit | RPD Ref Val           | %RPD | RPDLimit | Qual |

|                     |       |      |       |       |     |    |     |  |  |  |  |
|---------------------|-------|------|-------|-------|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 3.680 | 0.20 | 1.000 | 2.628 | 105 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|-------|-----|----|-----|--|--|--|--|

|                                  |                          |                             |                                 |                       |                      |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-006AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>              | Prep Date:            | RunNo: <b>147912</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961926</b> |                      |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |        |      |    |     |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.571 | 0.20 | 1.000 | 0.6048 | 96.6 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|

|                                  |                          |                             |                    |                                 |                       |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-007AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                      | RunNo: <b>147912</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961927</b> |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                     | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |        |      |    |     |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.557 | 0.20 | 1.000 | 0.5885 | 96.8 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|

|                                   |                          |                             |                                 |                       |                      |          |           |             |      |          |      |
|-----------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-009AMSD</b> | SampType: <b>MSD</b>     | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>              | Prep Date:            | RunNo: <b>147912</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961928</b> |                      |          |           |             |      |          |      |
| Analyte                           | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |       |     |    |     |       |       |    |  |
|---------------------|-------|------|-------|-------|-----|----|-----|-------|-------|----|--|
| Hexavalent Chromium | 3.693 | 0.20 | 1.000 | 2.628 | 107 | 90 | 110 | 3.680 | 0.350 | 20 |  |
|---------------------|-------|------|-------|-------|-----|----|-----|-------|-------|----|--|

|                                  |                          |                             |                    |                                 |                       |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-004AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                      | RunNo: <b>147912</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961929</b> |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                     | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |        |      |    |     |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.439 | 0.20 | 1.000 | 0.4674 | 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 |   |                                                              |



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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 218.6\_WPGE

|                                  |                          |                             |                    |                                 |      |          |           |                       |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|---------------------------------|------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: <b>N042513-010AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                      |      |          |           | RunNo: <b>147912</b>  |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/8/2020</b> |      |          |           | SeqNo: <b>3961937</b> |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                     | %REC | LowLimit | HighLimit | RPD Ref Val           | %RPD | RPDLimit | Qual |

|                     |       |      |       |   |     |    |     |  |  |  |  |
|---------------------|-------|------|-------|---|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.001 | 0.20 | 1.000 | 0 | 100 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|---|-----|----|-----|--|--|--|--|

|                                  |                          |                             |                                 |                       |                      |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-011AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>              | Prep Date:            | RunNo: <b>147912</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961939</b> |                      |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |   |     |    |     |  |  |  |  |
|---------------------|-------|------|-------|---|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.024 | 0.20 | 1.000 | 0 | 102 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|---|-----|----|-----|--|--|--|--|

|                                  |                          |                             |                                 |                       |                      |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-005AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>              | Prep Date:            | RunNo: <b>147912</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961940</b> |                      |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |       |      |    |     |  |  |  |  |
|---------------------|-------|------|-------|-------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 2.101 | 0.20 | 1.000 | 1.122 | 97.9 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|-------|------|----|-----|--|--|--|--|

|                                   |                          |                             |                                 |                       |                      |          |           |             |      |          |      |
|-----------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042484-014ADUP</b> | SampType: <b>DUP</b>     | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>              | Prep Date:            | RunNo: <b>147912</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961942</b> |                      |          |           |             |      |          |      |
| Analyte                           | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |  |  |  |  |  |       |       |    |  |
|---------------------|-------|------|--|--|--|--|--|-------|-------|----|--|
| Hexavalent Chromium | 3.803 | 0.20 |  |  |  |  |  | 3.817 | 0.365 | 20 |  |
|---------------------|-------|------|--|--|--|--|--|-------|-------|----|--|

|                                  |                          |                             |                                 |                       |                      |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042480-011AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>              | Prep Date:            | RunNo: <b>147912</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961945</b> |                      |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |        |     |       |       |      |    |     |  |  |  |  |
|---------------------|--------|-----|-------|-------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 90.257 | 2.0 | 50.00 | 42.08 | 96.4 | 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 |   |                                                              |



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CLIENT: ARCADIS U.S., Inc. - California  
Work Order: N042513  
Project: PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 218.6\_WPGE

|                                  |                          |                             |                                 |                       |                      |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-008AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>              | Prep Date:            | RunNo: <b>147912</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147912</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961949</b> |                      |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Hexavalent Chromium              | 3.406                    | 0.20                        | 1.000                           | 2.334                 | 107                  | 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 |   |                                                              |



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-001

**Client Sample ID:** CW-03D-LF-Q420  
**Collection Date:** 10/7/2020 12:15:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**TURBIDITY**
**SM 2130B**

|                           |                   |           |                      |
|---------------------------|-------------------|-----------|----------------------|
| RunID: NV00922-WC_201008D | QC Batch: R147875 | PrepDate: | Analyst: QBM         |
| Turbidity                 | 68 0.10 0.10      | NTU       | 1 10/8/2020 09:15 AM |

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



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# ANALYTICAL RESULTS

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-002

**Client Sample ID:** MW-902-Q420  
**Collection Date:** 10/7/2020 12:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TURBIDITY

## SM 2130B

|                           |                   |           |                      |
|---------------------------|-------------------|-----------|----------------------|
| RunID: NV00922-WC_201008D | QC Batch: R147875 | PrepDate: | Analyst: QBM         |
| Turbidity                 | 4.2 0.10 0.10     | NTU       | 1 10/8/2020 09:15 AM |

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



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# ANALYTICAL RESULTS

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-003

**Client Sample ID:** CW-03M-LF-Q420  
**Collection Date:** 10/7/2020 12:16:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TURBIDITY

## SM 2130B

|                           |                   |           |                      |
|---------------------------|-------------------|-----------|----------------------|
| RunID: NV00922-WC_201008D | QC Batch: R147875 | PrepDate: | Analyst: QBM         |
| Turbidity                 | 4.0 0.10 0.10     | NTU       | 1 10/8/2020 09:15 AM |

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



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# ANALYTICAL RESULTS

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-004

**Client Sample ID:** CW-02D-LF-Q420  
**Collection Date:** 10/7/2020 10:52:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TURBIDITY

## SM 2130B

|                           |                   |           |                      |
|---------------------------|-------------------|-----------|----------------------|
| RunID: NV00922-WC_201008D | QC Batch: R147875 | PrepDate: | Analyst: QBM         |
| Turbidity                 | 0.45 0.10 0.10    | NTU       | 1 10/8/2020 09:15 AM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-005

**Client Sample ID:** CW-02M-LF-Q420  
**Collection Date:** 10/7/2020 9:50:00 AM  
**Matrix:** GROUNDWATER

| Analyses                  | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed      |
|---------------------------|-------------------|------|-----------|------|--------------|----|--------------------|
| <b>TURBIDITY</b>          |                   |      |           |      |              |    |                    |
| <b>SM 2130B</b>           |                   |      |           |      |              |    |                    |
| RunID: NV00922-WC_201008D | QC Batch: R147875 |      | PrepDate: |      | Analyst: QBM |    |                    |
| Turbidity                 | 6.7               | 0.10 | 0.10      |      | NTU          | 1  | 10/8/2020 09:15 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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# ASSET Laboratories

# ANALYTICAL RESULTS

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-006

**Client Sample ID:** OW-01D-Q420  
**Collection Date:** 10/7/2020 2:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TURBIDITY

## SM 2130B

|                           |                   |           |                      |
|---------------------------|-------------------|-----------|----------------------|
| RunID: NV00922-WC_201008D | QC Batch: R147875 | PrepDate: | Analyst: QBM         |
| Turbidity                 | 0.33 0.10 0.10    | NTU       | 1 10/8/2020 09:15 AM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-007

**Client Sample ID:** MW-903-Q420  
**Collection Date:** 10/7/2020 2:36:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**TURBIDITY**
**SM 2130B**

|                           |                   |           |                      |
|---------------------------|-------------------|-----------|----------------------|
| RunID: NV00922-WC_201008D | QC Batch: R147875 | PrepDate: | Analyst: QBM         |
| Turbidity                 | 0.31 0.10 0.10    | NTU       | 1 10/8/2020 09:15 AM |

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



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# ASSET Laboratories

# ANALYTICAL RESULTS

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-008

**Client Sample ID:** OW-01M-Q420  
**Collection Date:** 10/7/2020 1:41:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TURBIDITY

## SM 2130B

|                           |                   |           |                      |
|---------------------------|-------------------|-----------|----------------------|
| RunID: NV00922-WC_201008D | QC Batch: R147875 | PrepDate: | Analyst: QBM         |
| Turbidity                 | 7.0 0.10 0.10     | NTU       | 1 10/8/2020 09:15 AM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-009

**Client Sample ID:** OW-01S-Q420  
**Collection Date:** 10/7/2020 1:35:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**TURBIDITY**
**SM 2130B**

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201008D | QC Batch: R147875 |      |      | PrepDate: |   | Analyst: QBM       |
| Turbidity                 | 1.8               | 0.10 | 0.10 | NTU       | 1 | 10/8/2020 09:15 AM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 2130\_W**

|                                   |                          |                         |                   |                                 |                       |          |           |             |      |          |      |
|-----------------------------------|--------------------------|-------------------------|-------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-001DDUP</b> | SampType: <b>DUP</b>     | TestCode: <b>2130_W</b> | Units: <b>NTU</b> | Prep Date:                      | RunNo: <b>147875</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147875</b> | TestNo: <b>SM 2130B</b> |                   | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3960546</b> |          |           |             |      |          |      |
| Analyte                           | Result                   | PQL                     | SPK value         | SPK Ref Val                     | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Turbidity                         | 67.600                   | 0.10                    |                   |                                 |                       |          |           | 68.50       | 1.32 | 30       |      |

|                              |                          |                         |                   |                                 |                       |          |           |             |      |          |      |
|------------------------------|--------------------------|-------------------------|-------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-R147875</b> | SampType: <b>MBLK</b>    | TestCode: <b>2130_W</b> | Units: <b>NTU</b> | Prep Date:                      | RunNo: <b>147875</b>  |          |           |             |      |          |      |
| Client ID: <b>PBW</b>        | Batch ID: <b>R147875</b> | TestNo: <b>SM 2130B</b> |                   | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3960547</b> |          |           |             |      |          |      |
| Analyte                      | Result                   | PQL                     | SPK value         | SPK Ref Val                     | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Turbidity                    | ND                       | 0.10                    |                   |                                 |                       |          |           |             |      |          |      |

**Qualifiers:**

|    |                                                 |   |                                      |   |                                                              |
|----|-------------------------------------------------|---|--------------------------------------|---|--------------------------------------------------------------|
| B  | Analyte detected in 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 |   |                                                              |

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**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-001

**Client Sample ID:** CW-03D-LF-Q420  
**Collection Date:** 10/7/2020 12:15:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**ALKALINITY, SPECIATED**
**SM 2320 B**

|                              |                   |     |     |           |   |                    |
|------------------------------|-------------------|-----|-----|-----------|---|--------------------|
| RunID: NV00922-WC_201009C    | QC Batch: R147905 |     |     | PrepDate: |   | Analyst: QBM       |
| Alkalinity, Total (As CaCO3) | 68                | 1.2 | 5.0 | mg/L      | 1 | 10/9/2020 09:20 AM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-002

**Client Sample ID:** MW-902-Q420  
**Collection Date:** 10/7/2020 12:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**ALKALINITY, SPECIATED**
**SM 2320 B**

|                              |                   |     |     |           |   |                    |
|------------------------------|-------------------|-----|-----|-----------|---|--------------------|
| RunID: NV00922-WC_201009C    | QC Batch: R147905 |     |     | PrepDate: |   | Analyst: QBM       |
| Alkalinity, Total (As CaCO3) | 53                | 1.2 | 5.0 | mg/L      | 1 | 10/9/2020 09:20 AM |

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



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**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-003

**Client Sample ID:** CW-03M-LF-Q420  
**Collection Date:** 10/7/2020 12:16:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**ALKALINITY, SPECIATED**
**SM 2320 B**

|                              |                   |     |     |           |   |                    |
|------------------------------|-------------------|-----|-----|-----------|---|--------------------|
| RunID: NV00922-WC_201009C    | QC Batch: R147905 |     |     | PrepDate: |   | Analyst: QBM       |
| Alkalinity, Total (As CaCO3) | 53                | 1.2 | 5.0 | mg/L      | 1 | 10/9/2020 09:20 AM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-004

**Client Sample ID:** CW-02D-LF-Q420  
**Collection Date:** 10/7/2020 10:52:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**ALKALINITY, SPECIATED**
**SM 2320 B**

|                              |                   |     |     |           |   |                    |
|------------------------------|-------------------|-----|-----|-----------|---|--------------------|
| RunID: NV00922-WC_201009C    | QC Batch: R147905 |     |     | PrepDate: |   | Analyst: QBM       |
| Alkalinity, Total (As CaCO3) | 66                | 1.2 | 5.0 | mg/L      | 1 | 10/9/2020 09:20 AM |

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



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**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-005

**Client Sample ID:** CW-02M-LF-Q420  
**Collection Date:** 10/7/2020 9:50:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**ALKALINITY, SPECIATED**
**SM 2320 B**

|                              |                   |     |     |           |   |                    |
|------------------------------|-------------------|-----|-----|-----------|---|--------------------|
| RunID: NV00922-WC_201009C    | QC Batch: R147905 |     |     | PrepDate: |   | Analyst: QBM       |
| Alkalinity, Total (As CaCO3) | 59                | 1.2 | 5.0 | mg/L      | 1 | 10/9/2020 09:20 AM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 2320\_W\_SP**

|                               |                          |                            |                    |             |                                 |          |           |                      |                       |          |      |
|-------------------------------|--------------------------|----------------------------|--------------------|-------------|---------------------------------|----------|-----------|----------------------|-----------------------|----------|------|
| Sample ID: <b>LCS-R147905</b> | SampType: <b>LCS</b>     | TestCode: <b>2320_W_SP</b> | Units: <b>mg/L</b> | Prep Date:  |                                 |          |           | RunNo: <b>147905</b> |                       |          |      |
| Client ID: <b>LCSW</b>        | Batch ID: <b>R147905</b> | TestNo: <b>SM 2320 B</b>   |                    |             | Analysis Date: <b>10/9/2020</b> |          |           |                      | SeqNo: <b>3961569</b> |          |      |
| Analyte                       | Result                   | PQL                        | SPK value          | SPK Ref Val | %REC                            | LowLimit | HighLimit | RPD Ref Val          | %RPD                  | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3)  | 100.423                  | 5.0                        | 100.0              | 0           | 100                             | 85       | 115       |                      |                       |          |      |

|                              |                          |                            |                    |             |                                 |          |           |                      |                       |          |      |
|------------------------------|--------------------------|----------------------------|--------------------|-------------|---------------------------------|----------|-----------|----------------------|-----------------------|----------|------|
| Sample ID: <b>MB-R147905</b> | SampType: <b>MBLK</b>    | TestCode: <b>2320_W_SP</b> | Units: <b>mg/L</b> | Prep Date:  |                                 |          |           | RunNo: <b>147905</b> |                       |          |      |
| Client ID: <b>PBW</b>        | Batch ID: <b>R147905</b> | TestNo: <b>SM 2320 B</b>   |                    |             | Analysis Date: <b>10/9/2020</b> |          |           |                      | SeqNo: <b>3961570</b> |          |      |
| 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: <b>N042508-001CDUP</b> | SampType: <b>DUP</b>     | TestCode: <b>2320_W_SP</b> | Units: <b>mg/L</b> | Prep Date:  |                                 |          |           | RunNo: <b>147905</b> |                       |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147905</b> | TestNo: <b>SM 2320 B</b>   |                    |             | Analysis Date: <b>10/9/2020</b> |          |           |                      | SeqNo: <b>3961572</b> |          |      |
| Analyte                           | Result                   | PQL                        | SPK value          | SPK Ref Val | %REC                            | LowLimit | HighLimit | RPD Ref Val          | %RPD                  | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3)      | 146.934                  | 5.0                        |                    |             |                                 |          | 146.9     | 0                    | 30                    |          |      |

|                                  |                          |                            |                    |             |                                 |          |           |                      |                       |          |      |
|----------------------------------|--------------------------|----------------------------|--------------------|-------------|---------------------------------|----------|-----------|----------------------|-----------------------|----------|------|
| Sample ID: <b>N042508-001CMS</b> | SampType: <b>MS</b>      | TestCode: <b>2320_W_SP</b> | Units: <b>mg/L</b> | Prep Date:  |                                 |          |           | RunNo: <b>147905</b> |                       |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147905</b> | TestNo: <b>SM 2320 B</b>   |                    |             | Analysis Date: <b>10/9/2020</b> |          |           |                      | SeqNo: <b>3961573</b> |          |      |
| Analyte                          | Result                   | PQL                        | SPK value          | SPK Ref Val | %REC                            | LowLimit | HighLimit | RPD Ref Val          | %RPD                  | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3)     | 244.186                  | 5.0                        | 100.0              | 146.9       | 97.3                            | 75       | 125       |                      |                       |          |      |

|                                   |                          |                            |                    |             |                                 |          |           |                      |                       |          |      |
|-----------------------------------|--------------------------|----------------------------|--------------------|-------------|---------------------------------|----------|-----------|----------------------|-----------------------|----------|------|
| Sample ID: <b>N042508-001CMSD</b> | SampType: <b>MSD</b>     | TestCode: <b>2320_W_SP</b> | Units: <b>mg/L</b> | Prep Date:  |                                 |          |           | RunNo: <b>147905</b> |                       |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147905</b> | TestNo: <b>SM 2320 B</b>   |                    |             | Analysis Date: <b>10/9/2020</b> |          |           |                      | SeqNo: <b>3961574</b> |          |      |
| Analyte                           | Result                   | PQL                        | SPK value          | SPK Ref Val | %REC                            | LowLimit | HighLimit | RPD Ref Val          | %RPD                  | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3)      | 245.243                  | 5.0                        | 100.0              | 146.9       | 98.3                            | 75       | 125       | 244.2                | 0.432                 | 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 |                                      |   |                                                              |


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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-001

**Client Sample ID:** CW-03D-LF-Q420  
**Collection Date:** 10/7/2020 12:15:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE**
**EPA 245.1**

|                            |                 |                      |                     |
|----------------------------|-----------------|----------------------|---------------------|
| RunID: NV00922-AA2_201010B | QC Batch: 82522 | PrepDate: 10/10/2020 | Analyst: DJ         |
| Mercury                    | ND 0.13         | 0.20                 | µg/L 1              |
|                            |                 |                      | 10/10/2020 12:45 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-002

**Client Sample ID:** MW-902-Q420  
**Collection Date:** 10/7/2020 12:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE**
**EPA 245.1**

|                            |                 |                      |                       |
|----------------------------|-----------------|----------------------|-----------------------|
| RunID: NV00922-AA2_201010B | QC Batch: 82522 | PrepDate: 10/10/2020 | Analyst: DJ           |
| Mercury                    | ND 0.13 0.20    | µg/L                 | 1 10/10/2020 12:59 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-003

**Client Sample ID:** CW-03M-LF-Q420  
**Collection Date:** 10/7/2020 12:16:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE**
**EPA 245.1**

|                            |                 |                      |                     |
|----------------------------|-----------------|----------------------|---------------------|
| RunID: NV00922-AA2_201010B | QC Batch: 82522 | PrepDate: 10/10/2020 | Analyst: DJ         |
| Mercury                    | ND 0.13         | 0.20                 | µg/L 1              |
|                            |                 |                      | 10/10/2020 01:03 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-004

**Client Sample ID:** CW-02D-LF-Q420  
**Collection Date:** 10/7/2020 10:52:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE**
**EPA 245.1**

|                            |                 |                      |                     |
|----------------------------|-----------------|----------------------|---------------------|
| RunID: NV00922-AA2_201010B | QC Batch: 82522 | PrepDate: 10/10/2020 | Analyst: DJ         |
| Mercury                    | ND 0.13         | 0.20                 | µg/L 1              |
|                            |                 |                      | 10/10/2020 01:06 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-005

**Client Sample ID:** CW-02M-LF-Q420  
**Collection Date:** 10/7/2020 9:50:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

**DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE**
**EPA 245.1**

|                            |                 |                      |                       |
|----------------------------|-----------------|----------------------|-----------------------|
| RunID: NV00922-AA2_201010B | QC Batch: 82522 | PrepDate: 10/10/2020 | Analyst: DJ           |
| Mercury                    | ND 0.13 0.20    | µg/L                 | 1 10/10/2020 01:09 PM |

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



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 245.1\_WD**

|                            |                        |                           |                    |                                  |                                                        |
|----------------------------|------------------------|---------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>MB-82522</b> | SampType: <b>MBLK</b>  | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>147909</b>                                   |
| Client ID: <b>PBW</b>      | Batch ID: <b>82522</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3961847</b>                                  |
| Analyte                    | Result                 | PQL                       | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Mercury ND 0.20

|                             |                        |                           |                    |                                  |                                                        |
|-----------------------------|------------------------|---------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>LCS-82522</b> | SampType: <b>LCS</b>   | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>147909</b>                                   |
| Client ID: <b>LCSW</b>      | Batch ID: <b>82522</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3961849</b>                                  |
| Analyte                     | Result                 | PQL                       | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Mercury 4.530 0.20 5.000 0 90.6 85 115

|                                   |                        |                           |                    |                                  |                                                        |
|-----------------------------------|------------------------|---------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042507-003C-MS</b> | SampType: <b>MS</b>    | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>147909</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82522</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3961853</b>                                  |
| Analyte                           | Result                 | PQL                       | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Mercury 4.130 0.20 5.000 0 82.6 75 125

|                                    |                        |                           |                    |                                  |                                                        |
|------------------------------------|------------------------|---------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042507-003C-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>147909</b>                                   |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82522</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3961854</b>                                  |
| Analyte                            | Result                 | PQL                       | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Mercury 4.130 0.20 5.000 0 82.6 75 125 4.130 0 20

|                                   |                        |                           |                    |                                  |                                                        |
|-----------------------------------|------------------------|---------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042513-001C-MS</b> | SampType: <b>MS</b>    | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>147909</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82522</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3961858</b>                                  |
| Analyte                           | Result                 | PQL                       | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Mercury 4.530 0.20 5.000 0 90.6 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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-001

**Client Sample ID:** CW-03D-LF-Q420  
**Collection Date:** 10/7/2020 12:15:00 PM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed      |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|--------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Chloride                            | 2200              | 17    | 250  |           | mg/L  | 500          | 10/8/2020 07:43 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Fluoride                            | 2.5               | 0.048 | 0.50 |           | mg/L  | 5            | 10/8/2020 10:11 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Sulfate                             | 490               | 2.0   | 25   |           | mg/L  | 50           | 10/8/2020 05:06 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-002

**Client Sample ID:** MW-902-Q420  
**Collection Date:** 10/7/2020 12:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed      |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|--------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Chloride                            | 2300              | 17    | 250  |           | mg/L  | 500          | 10/8/2020 09:23 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Fluoride                            | 3.8               | 0.048 | 0.50 |           | mg/L  | 5            | 10/8/2020 10:25 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Sulfate                             | 510               | 2.0   | 25   |           | mg/L  | 50           | 10/8/2020 05:20 PM |

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



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**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-003

**Client Sample ID:** CW-03M-LF-Q420  
**Collection Date:** 10/7/2020 12:16:00 PM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed      |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|--------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Chloride                            | 2300              | 17    | 250  |           | mg/L  | 500          | 10/8/2020 10:35 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Fluoride                            | 3.7               | 0.048 | 0.50 |           | mg/L  | 5            | 10/8/2020 11:08 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Sulfate                             | 510               | 2.0   | 25   |           | mg/L  | 50           | 10/8/2020 02:57 PM |

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



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**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-004

**Client Sample ID:** CW-02D-LF-Q420  
**Collection Date:** 10/7/2020 10:52:00 AM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed      |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|--------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Chloride                            | 2300              | 17    | 250  |           | mg/L  | 500          | 10/8/2020 09:37 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Fluoride                            | 2.0               | 0.048 | 0.50 |           | mg/L  | 5            | 10/8/2020 11:22 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Sulfate                             | 510               | 2.0   | 25   |           | mg/L  | 50           | 10/8/2020 05:34 PM |

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



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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-005

**Client Sample ID:** CW-02M-LF-Q420  
**Collection Date:** 10/7/2020 9:50:00 AM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed      |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|--------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Chloride                            | 2200              | 17    | 250  |           | mg/L  | 500          | 10/8/2020 08:26 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Fluoride                            | 3.1               | 0.048 | 0.50 |           | mg/L  | 5            | 10/8/2020 11:37 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Sulfate                             | 500               | 2.0   | 25   |           | mg/L  | 50           | 10/8/2020 05:49 PM |

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



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Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-006

**Client Sample ID:** OW-01D-Q420  
**Collection Date:** 10/7/2020 2:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed      |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|--------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Chloride                            | 2200              | 17    | 250  |           | mg/L  | 500          | 10/8/2020 09:52 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Fluoride                            | 2.2               | 0.048 | 0.50 |           | mg/L  | 5            | 10/8/2020 11:51 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Sulfate                             | 480               | 2.0   | 25   |           | mg/L  | 50           | 10/8/2020 06:03 PM |

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



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**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-007

**Client Sample ID:** MW-903-Q420  
**Collection Date:** 10/7/2020 2:36:00 PM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed      |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|--------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Chloride                            | 2200              | 17    | 250  |           | mg/L  | 500          | 10/8/2020 10:49 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Fluoride                            | 2.0               | 0.048 | 0.50 |           | mg/L  | 5            | 10/8/2020 12:05 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Sulfate                             | 480               | 2.0   | 25   |           | mg/L  | 50           | 10/8/2020 06:17 PM |

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



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**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-008

**Client Sample ID:** OW-01M-Q420  
**Collection Date:** 10/7/2020 1:41:00 PM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed      |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|--------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Chloride                            | 2200              | 17    | 250  |           | mg/L  | 500          | 10/8/2020 11:03 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Fluoride                            | 2.2               | 0.048 | 0.50 |           | mg/L  | 5            | 10/8/2020 12:20 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Sulfate                             | 490               | 2.0   | 25   |           | mg/L  | 50           | 10/8/2020 06:31 PM |

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



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**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-009

**Client Sample ID:** OW-01S-Q420  
**Collection Date:** 10/7/2020 1:35:00 PM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed      |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|--------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Chloride                            | 2100              | 17    | 250  |           | mg/L  | 500          | 10/8/2020 08:55 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Fluoride                            | 1.3               | 0.048 | 0.50 |           | mg/L  | 5            | 10/8/2020 12:34 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                    |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                    |
| RunID: NV00922-IC8_201008A          | QC Batch: R147894 |       |      | PrepDate: |       | Analyst: RAB |                    |
| Sulfate                             | 470               | 2.0   | 25   |           | mg/L  | 50           | 10/8/2020 04:08 PM |

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



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 300\_W\_CLPGE**

|                                 |                          |                                                |           |             |      |                                 |           |             |                       |          |      |
|---------------------------------|--------------------------|------------------------------------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: <b>MB-R147894_CL</b> | SampType: <b>MBLK</b>    | TestCode: <b>300_W_CLPG</b> Units: <b>mg/L</b> |           |             |      | Prep Date:                      |           |             | RunNo: <b>147894</b>  |          |      |
| Client ID: <b>PBW</b>           | Batch ID: <b>R147894</b> | TestNo: <b>EPA 300.0</b>                       |           |             |      | Analysis Date: <b>10/8/2020</b> |           |             | SeqNo: <b>3961313</b> |          |      |
| Analyte                         | Result                   | PQL                                            | SPK value | SPK Ref Val | %REC | LowLimit                        | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Chloride                        | 0.160                    | 0.50                                           |           |             |      |                                 |           |             |                       |          |      |

|                                  |                          |                                                |           |             |      |                                 |           |             |                       |          |      |
|----------------------------------|--------------------------|------------------------------------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: <b>LCS-R147894_CL</b> | SampType: <b>LCS</b>     | TestCode: <b>300_W_CLPG</b> Units: <b>mg/L</b> |           |             |      | Prep Date:                      |           |             | RunNo: <b>147894</b>  |          |      |
| Client ID: <b>LCSW</b>           | Batch ID: <b>R147894</b> | TestNo: <b>EPA 300.0</b>                       |           |             |      | Analysis Date: <b>10/8/2020</b> |           |             | SeqNo: <b>3961314</b> |          |      |
| Analyte                          | Result                   | PQL                                            | SPK value | SPK Ref Val | %REC | LowLimit                        | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Chloride                         | 2.003                    | 0.50                                           | 2.000     | 0           | 100  | 90                              | 110       |             |                       |          |      |

|                                  |                          |                                                |           |             |      |                                 |           |             |                       |          |      |
|----------------------------------|--------------------------|------------------------------------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: <b>N042513-001DMS</b> | SampType: <b>MS</b>      | TestCode: <b>300_W_CLPG</b> Units: <b>mg/L</b> |           |             |      | Prep Date:                      |           |             | RunNo: <b>147894</b>  |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147894</b> | TestNo: <b>EPA 300.0</b>                       |           |             |      | Analysis Date: <b>10/8/2020</b> |           |             | SeqNo: <b>3961324</b> |          |      |
| Analyte                          | Result                   | PQL                                            | SPK value | SPK Ref Val | %REC | LowLimit                        | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Chloride                         | 3210.100                 | 250                                            | 1000      | 2166        | 104  | 80                              | 120       |             |                       |          |      |

|                                   |                          |                                                |           |             |      |                                 |           |             |                       |          |      |
|-----------------------------------|--------------------------|------------------------------------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: <b>N042513-001DMSD</b> | SampType: <b>MSD</b>     | TestCode: <b>300_W_CLPG</b> Units: <b>mg/L</b> |           |             |      | Prep Date:                      |           |             | RunNo: <b>147894</b>  |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147894</b> | TestNo: <b>EPA 300.0</b>                       |           |             |      | Analysis Date: <b>10/8/2020</b> |           |             | SeqNo: <b>3961325</b> |          |      |
| Analyte                           | Result                   | PQL                                            | SPK value | SPK Ref Val | %REC | LowLimit                        | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Chloride                          | 3219.650                 | 250                                            | 1000      | 2166        | 105  | 80                              | 120       | 3210        | 0.297                 | 20       |      |

|                                  |                          |                                                |           |             |      |                                 |           |             |                       |          |      |
|----------------------------------|--------------------------|------------------------------------------------|-----------|-------------|------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: <b>N042513-005CMS</b> | SampType: <b>MS</b>      | TestCode: <b>300_W_CLPG</b> Units: <b>mg/L</b> |           |             |      | Prep Date:                      |           |             | RunNo: <b>147894</b>  |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147894</b> | TestNo: <b>EPA 300.0</b>                       |           |             |      | Analysis Date: <b>10/8/2020</b> |           |             | SeqNo: <b>3961327</b> |          |      |
| Analyte                          | Result                   | PQL                                            | SPK value | SPK Ref Val | %REC | LowLimit                        | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Chloride                         | 3231.750                 | 250                                            | 1000      | 2198        | 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 |                                      |   |                                                              |



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CLIENT: ARCADIS U.S., Inc. - California  
Work Order: N042513  
Project: PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 300\_W\_CLPGE

|                            |                   |                      |             |                          |                |          |           |             |        |          |      |
|----------------------------|-------------------|----------------------|-------------|--------------------------|----------------|----------|-----------|-------------|--------|----------|------|
| Sample ID: N042513-009CDUP | SampType: DUP     | TestCode: 300_W_CLPG | Units: mg/L | Prep Date:               | RunNo: 147894  |          |           |             |        |          |      |
| Client ID: ZZZZZZ          | Batch ID: R147894 | TestNo: EPA 300.0    |             | Analysis Date: 10/8/2020 | SeqNo: 3961329 |          |           |             |        |          |      |
| Analyte                    | Result            | PQL                  | SPK value   | SPK Ref Val              | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Chloride                   | 2140.900          | 250                  |             |                          |                |          |           | 2142        | 0.0630 | 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 |   |                                                              |



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CLIENT: ARCADIS U.S., Inc. - California  
Work Order: N042513  
Project: PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 300\_W\_FPGE

|                         |                   |                      |             |                          |                |          |           |             |      |          |      |
|-------------------------|-------------------|----------------------|-------------|--------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-R147894_F | SampType: MBLK    | TestCode: 300_W_FPGE | Units: mg/L | Prep Date:               | RunNo: 147894  |          |           |             |      |          |      |
| Client ID: PBW          | Batch ID: R147894 | TestNo: EPA 300.0    |             | Analysis Date: 10/8/2020 | SeqNo: 3961279 |          |           |             |      |          |      |
| Analyte                 | Result            | PQL                  | SPK value   | SPK Ref Val              | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride ND 0.10

|                                 |                          |                             |                    |                                 |                       |          |           |             |      |          |      |
|---------------------------------|--------------------------|-----------------------------|--------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-R147894_F</b> | SampType: <b>LCS</b>     | TestCode: <b>300_W_FPGE</b> | Units: <b>mg/L</b> | Prep Date:                      | RunNo: <b>147894</b>  |          |           |             |      |          |      |
| Client ID: <b>LCSW</b>          | Batch ID: <b>R147894</b> | TestNo: <b>EPA 300.0</b>    |                    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961280</b> |          |           |             |      |          |      |
| Analyte                         | Result                   | PQL                         | SPK value          | SPK Ref Val                     | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 1.289 0.10 1.250 0 103 90 110

|                            |                   |                      |             |                          |                |          |           |             |      |          |      |
|----------------------------|-------------------|----------------------|-------------|--------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: N042507-002BDUP | SampType: DUP     | TestCode: 300_W_FPGE | Units: mg/L | Prep Date:               | RunNo: 147894  |          |           |             |      |          |      |
| Client ID: ZZZZZZ          | Batch ID: R147894 | TestNo: EPA 300.0    |             | Analysis Date: 10/8/2020 | SeqNo: 3961294 |          |           |             |      |          |      |
| Analyte                    | Result            | PQL                  | SPK value   | SPK Ref Val              | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 2.317 0.50 2.300 0.715 20

|                           |                   |                      |             |                          |                |          |           |             |      |          |      |
|---------------------------|-------------------|----------------------|-------------|--------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: N042513-008CMS | SampType: MS      | TestCode: 300_W_FPGE | Units: mg/L | Prep Date:               | RunNo: 147894  |          |           |             |      |          |      |
| Client ID: ZZZZZZ         | Batch ID: R147894 | TestNo: EPA 300.0    |             | Analysis Date: 10/8/2020 | SeqNo: 3961297 |          |           |             |      |          |      |
| Analyte                   | Result            | PQL                  | SPK value   | SPK Ref Val              | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 8.188 0.50 6.250 2.180 96.1 80 120

|                           |                   |                      |             |                          |                |          |           |             |      |          |      |
|---------------------------|-------------------|----------------------|-------------|--------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: N042513-004DMS | SampType: MS      | TestCode: 300_W_FPGE | Units: mg/L | Prep Date:               | RunNo: 147894  |          |           |             |      |          |      |
| Client ID: ZZZZZZ         | Batch ID: R147894 | TestNo: EPA 300.0    |             | Analysis Date: 10/8/2020 | SeqNo: 3961298 |          |           |             |      |          |      |
| Analyte                   | Result            | PQL                  | SPK value   | SPK Ref Val              | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 8.090 0.50 6.250 2.020 97.1 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 |   |                                                              |



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California  
Work Order: N042513  
Project: PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 300\_W\_FPGE

|                            |                   |                                  |           |             |      |                          |           |             |                |          |      |
|----------------------------|-------------------|----------------------------------|-----------|-------------|------|--------------------------|-----------|-------------|----------------|----------|------|
| Sample ID: N042513-004DMSD | SampType: MSD     | TestCode: 300_W_FPGE Units: mg/L |           |             |      | Prep Date:               |           |             | RunNo: 147894  |          |      |
| Client ID: ZZZZZZ          | Batch ID: R147894 | TestNo: EPA 300.0                |           |             |      | Analysis Date: 10/8/2020 |           |             | SeqNo: 3961299 |          |      |
| Analyte                    | Result            | PQL                              | SPK value | SPK Ref Val | %REC | LowLimit                 | HighLimit | RPD Ref Val | %RPD           | RPDLimit | Qual |
| Fluoride                   | 7.927             | 0.50                             | 6.250     | 2.020       | 94.5 | 80                       | 120       | 8.090       | 2.04           | 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 |   |                                                              |



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"Serving Clients with Passion and Professionalism"

CLIENT: ARCADIS U.S., Inc. - California  
Work Order: N042513  
Project: PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 300\_W\_SO4PGE

|                           |                   |                      |                          |                |               |          |           |             |      |          |      |
|---------------------------|-------------------|----------------------|--------------------------|----------------|---------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-R147894_SO4 | SampType: MBLK    | TestCode: 300_W_SO4P | Units: mg/L              | Prep Date:     | RunNo: 147894 |          |           |             |      |          |      |
| Client ID: PBW            | Batch ID: R147894 | TestNo: EPA 300.0    | Analysis Date: 10/8/2020 | SeqNo: 3961369 |               |          |           |             |      |          |      |
| Analyte                   | Result            | PQL                  | SPK value                | SPK Ref Val    | %REC          | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfate ND 0.50

|                                   |                          |                             |                                 |                       |                      |          |           |             |      |          |      |
|-----------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-R147894_SO4</b> | SampType: <b>LCS</b>     | TestCode: <b>300_W_SO4P</b> | Units: <b>mg/L</b>              | Prep Date:            | RunNo: <b>147894</b> |          |           |             |      |          |      |
| Client ID: <b>LCSW</b>            | Batch ID: <b>R147894</b> | TestNo: <b>EPA 300.0</b>    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961370</b> |                      |          |           |             |      |          |      |
| Analyte                           | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfate 4.094 0.50 4.000 0 102 90 110

|                                  |                          |                             |                                 |                       |                      |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|---------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-003DMS</b> | SampType: <b>MS</b>      | TestCode: <b>300_W_SO4P</b> | Units: <b>mg/L</b>              | Prep Date:            | RunNo: <b>147894</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147894</b> | TestNo: <b>EPA 300.0</b>    | Analysis Date: <b>10/8/2020</b> | SeqNo: <b>3961376</b> |                      |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value                       | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfate 716.700 25 200.0 506.1 105 80 120

|                            |                   |                      |                          |                |               |          |           |             |      |          |      |
|----------------------------|-------------------|----------------------|--------------------------|----------------|---------------|----------|-----------|-------------|------|----------|------|
| Sample ID: N042513-003DMSD | SampType: MSD     | TestCode: 300_W_SO4P | Units: mg/L              | Prep Date:     | RunNo: 147894 |          |           |             |      |          |      |
| Client ID: ZZZZZZ          | Batch ID: R147894 | TestNo: EPA 300.0    | Analysis Date: 10/8/2020 | SeqNo: 3961377 |               |          |           |             |      |          |      |
| Analyte                    | Result            | PQL                  | SPK value                | SPK Ref Val    | %REC          | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfate 708.930 25 200.0 506.1 101 80 120 716.7 1.09 20

|                           |                   |                      |                          |                |               |          |           |             |      |          |      |
|---------------------------|-------------------|----------------------|--------------------------|----------------|---------------|----------|-----------|-------------|------|----------|------|
| Sample ID: N042507-001BMS | SampType: MS      | TestCode: 300_W_SO4P | Units: mg/L              | Prep Date:     | RunNo: 147894 |          |           |             |      |          |      |
| Client ID: ZZZZZZ         | Batch ID: R147894 | TestNo: EPA 300.0    | Analysis Date: 10/8/2020 | SeqNo: 3961379 |               |          |           |             |      |          |      |
| Analyte                   | Result            | PQL                  | SPK value                | SPK Ref Val    | %REC          | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Sulfate 695.125 25 200.0 488.2 103 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 |                                      |   |                                                              |



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CLIENT: ARCADIS U.S., Inc. - California  
Work Order: N042513  
Project: PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 300\_W\_SO4PGE

|                            |                   |                      |                          |                |               |          |           |             |       |          |      |
|----------------------------|-------------------|----------------------|--------------------------|----------------|---------------|----------|-----------|-------------|-------|----------|------|
| Sample ID: N042513-009CDUP | SampType: DUP     | TestCode: 300_W_SO4P | Units: mg/L              | Prep Date:     | RunNo: 147894 |          |           |             |       |          |      |
| Client ID: ZZZZZZ          | Batch ID: R147894 | TestNo: EPA 300.0    | Analysis Date: 10/8/2020 | SeqNo: 3961383 |               |          |           |             |       |          |      |
| Analyte                    | Result            | PQL                  | SPK value                | SPK Ref Val    | %REC          | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Sulfate                    | 467.170           | 25                   |                          |                |               |          |           | 470.9       | 0.792 | 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 |                                      |   |                                                              |



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**ANALYTICAL RESULTS**
**Print Date:** 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-001

**Client Sample ID:** CW-03D-LF-Q420  
**Collection Date:** 10/7/2020 12:15:00 PM  
**Matrix:** GROUNDWATER

| Analyses                                      | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|-----------------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| <b>NITRATE/NITRITE-N BY CADMIUM REDUCTION</b> |                   |      |           |      |              |    |                     |
| <b>SM4500-NO3F</b>                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201013A                     | QC Batch: R147971 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                          | 2.9               | 0.16 | 0.25      |      | mg/L         | 5  | 10/13/2020 01:06 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-002

**Client Sample ID:** MW-902-Q420  
**Collection Date:** 10/7/2020 12:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses                                      | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|-----------------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| <b>NITRATE/NITRITE-N BY CADMIUM REDUCTION</b> |                   |      |           |      |              |    |                     |
| <b>SM4500-NO3F</b>                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201013A                     | QC Batch: R147971 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                          | 2.6               | 0.16 | 0.25      |      | mg/L         | 5  | 10/13/2020 01:07 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



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**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-003

**Client Sample ID:** CW-03M-LF-Q420  
**Collection Date:** 10/7/2020 12:16:00 PM  
**Matrix:** GROUNDWATER

| Analyses                                      | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|-----------------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| <b>NITRATE/NITRITE-N BY CADMIUM REDUCTION</b> |                   |      |           |      |              |    |                     |
| <b>SM4500-NO3F</b>                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201013A                     | QC Batch: R147971 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                          | 2.6               | 0.16 | 0.25      |      | mg/L         | 5  | 10/13/2020 01:07 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-004

**Client Sample ID:** CW-02D-LF-Q420  
**Collection Date:** 10/7/2020 10:52:00 AM  
**Matrix:** GROUNDWATER

| Analyses                                      | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|-----------------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| <b>NITRATE/NITRITE-N BY CADMIUM REDUCTION</b> |                   |      |           |      |              |    |                     |
| <b>SM4500-NO3F</b>                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201013A                     | QC Batch: R147971 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                          | 2.8               | 0.16 | 0.25      |      | mg/L         | 5  | 10/13/2020 01:08 PM |

|                    |    |                                                              |                                            |                                     |
|--------------------|----|--------------------------------------------------------------|--------------------------------------------|-------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E                                          | Value above quantitation range      |
|                    | H  | Holding times for preparation or analysis exceeded           | ND                                         | Not Detected 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: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-005

**Client Sample ID:** CW-02M-LF-Q420  
**Collection Date:** 10/7/2020 9:50:00 AM  
**Matrix:** GROUNDWATER

| Analyses                                      | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|-----------------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| <b>NITRATE/NITRITE-N BY CADMIUM REDUCTION</b> |                   |      |           |      |              |    |                     |
| <b>SM4500-NO3F</b>                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201013B                     | QC Batch: R147972 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                          | 2.6               | 0.16 | 0.25      |      | mg/L         | 5  | 10/13/2020 03:14 PM |

|                    |    |                                                              |                                            |                                     |
|--------------------|----|--------------------------------------------------------------|--------------------------------------------|-------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E                                          | Value above quantitation range      |
|                    | H  | Holding times for preparation or analysis exceeded           | ND                                         | Not Detected 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:** 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-006

**Client Sample ID:** OW-01D-Q420  
**Collection Date:** 10/7/2020 2:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses                                      | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|-----------------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| <b>NITRATE/NITRITE-N BY CADMIUM REDUCTION</b> |                   |      |           |      |              |    |                     |
| <b>SM4500-NO3F</b>                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201013B                     | QC Batch: R147972 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                          | 2.5               | 0.16 | 0.25      |      | mg/L         | 5  | 10/13/2020 03:21 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-007

**Client Sample ID:** MW-903-Q420  
**Collection Date:** 10/7/2020 2:36:00 PM  
**Matrix:** GROUNDWATER

| Analyses                                      | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|-----------------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| <b>NITRATE/NITRITE-N BY CADMIUM REDUCTION</b> |                   |      |           |      |              |    |                     |
| <b>SM4500-NO3F</b>                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201013B                     | QC Batch: R147972 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                          | 2.5               | 0.16 | 0.25      |      | mg/L         | 5  | 10/13/2020 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



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**"Serving Clients with Passion and Professionalism"**

**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-008

**Client Sample ID:** OW-01M-Q420  
**Collection Date:** 10/7/2020 1:41:00 PM  
**Matrix:** GROUNDWATER

| Analyses                                      | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|-----------------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| <b>NITRATE/NITRITE-N BY CADMIUM REDUCTION</b> |                   |      |           |      |              |    |                     |
| <b>SM4500-NO3F</b>                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201013B                     | QC Batch: R147972 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                          | 2.7               | 0.16 | 0.25      |      | mg/L         | 5  | 10/13/2020 03:23 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-009

**Client Sample ID:** OW-01S-Q420  
**Collection Date:** 10/7/2020 1:35:00 PM  
**Matrix:** GROUNDWATER

| Analyses                                      | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|-----------------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| <b>NITRATE/NITRITE-N BY CADMIUM REDUCTION</b> |                   |      |           |      |              |    |                     |
| <b>SM4500-NO3F</b>                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201013B                     | QC Batch: R147972 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                          | 2.9               | 0.16 | 0.25      |      | mg/L         | 5  | 10/13/2020 03:23 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**"Serving Clients with Passion and Professionalism"**

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 4500N03F\_W\_PGE**

|                              |                          |                             |                    |                                  |                                                        |
|------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>MB-R147971</b> | SampType: <b>MBLK</b>    | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>147971</b>                                   |
| Client ID: <b>PBW</b>        | Batch ID: <b>R147971</b> | TestNo: <b>SM4500-NO3</b>   |                    | Analysis Date: <b>10/13/2020</b> | SeqNo: <b>3966671</b>                                  |
| 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: <b>LCS-R147971</b> | SampType: <b>LCS</b>     | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>147971</b>                                   |
| Client ID: <b>LCSW</b>        | Batch ID: <b>R147971</b> | TestNo: <b>SM4500-NO3</b>   |                    | Analysis Date: <b>10/13/2020</b> | SeqNo: <b>3966672</b>                                  |
| Analyte                       | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Nitrate/Nitrite as N 0.487 0.050 0.5000 0 97.3 85 115

|                                   |                          |                             |                    |                                  |                                                        |
|-----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042507-001DDUP</b> | SampType: <b>DUP</b>     | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>147971</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147971</b> | TestNo: <b>SM4500-NO3</b>   |                    | Analysis Date: <b>10/13/2020</b> | SeqNo: <b>3966674</b>                                  |
| Analyte                           | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Nitrate/Nitrite as N 2.720 0.25 2.645 2.80 20

|                                  |                          |                             |                    |                                  |                                                        |
|----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042507-001DMS</b> | SampType: <b>MS</b>      | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>147971</b>                                   |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147971</b> | TestNo: <b>SM4500-NO3</b>   |                    | Analysis Date: <b>10/13/2020</b> | SeqNo: <b>3966675</b>                                  |
| 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 2.645 109 75 125

|                                   |                          |                             |                    |                                  |                                                        |
|-----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042507-001DMSD</b> | SampType: <b>MSD</b>     | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>147971</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147971</b> | TestNo: <b>SM4500-NO3</b>   |                    | Analysis Date: <b>10/13/2020</b> | SeqNo: <b>3966676</b>                                  |
| Analyte                           | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Nitrate/Nitrite as N 5.266 0.25 2.500 2.645 105 75 125 5.369 1.94 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



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 4500N03F\_W\_PGE

|                              |                          |                             |                                  |                       |                      |          |           |             |      |          |      |
|------------------------------|--------------------------|-----------------------------|----------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-R147972</b> | SampType: <b>MBLK</b>    | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b>               | Prep Date:            | RunNo: <b>147972</b> |          |           |             |      |          |      |
| Client ID: <b>PBW</b>        | Batch ID: <b>R147972</b> | TestNo: <b>SM4500-NO3</b>   | Analysis Date: <b>10/13/2020</b> | SeqNo: <b>3966692</b> |                      |          |           |             |      |          |      |
| 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: <b>LCS-R147972</b> | SampType: <b>LCS</b>     | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b>               | Prep Date:            | RunNo: <b>147972</b> |          |           |             |      |          |      |
| Client ID: <b>LCSW</b>        | Batch ID: <b>R147972</b> | TestNo: <b>SM4500-NO3</b>   | Analysis Date: <b>10/13/2020</b> | SeqNo: <b>3966693</b> |                      |          |           |             |      |          |      |
| Analyte                       | Result                   | PQL                         | SPK value                        | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrate/Nitrite as N 0.482 0.050 0.5000 0 96.4 85 115

|                                   |                          |                             |                                  |                       |                      |          |           |             |      |          |      |
|-----------------------------------|--------------------------|-----------------------------|----------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-005DDUP</b> | SampType: <b>DUP</b>     | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b>               | Prep Date:            | RunNo: <b>147972</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147972</b> | TestNo: <b>SM4500-NO3</b>   | Analysis Date: <b>10/13/2020</b> | SeqNo: <b>3966695</b> |                      |          |           |             |      |          |      |
| Analyte                           | Result                   | PQL                         | SPK value                        | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrate/Nitrite as N 2.716 0.25 2.634 3.05 20

|                                  |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042513-005DMS</b> | SampType: <b>MS</b>      | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>147972</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147972</b> | TestNo: <b>SM4500-NO3</b>   |                    | Analysis Date: <b>10/13/2020</b> | SeqNo: <b>3966696</b> |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Nitrate/Nitrite as N 5.198 0.25 2.500 2.634 103 75 125

|                                   |                          |                             |                    |                                  |      |          |           |                       |      |          |      |
|-----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: <b>N042513-005DMSD</b> | SampType: <b>MSD</b>     | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b> | Prep Date:                       |      |          |           | RunNo: <b>147972</b>  |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147972</b> | TestNo: <b>SM4500-NO3</b>   |                    | Analysis Date: <b>10/13/2020</b> |      |          |           | SeqNo: <b>3966697</b> |      |          |      |
| Analyte                           | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC | LowLimit | HighLimit | RPD Ref Val           | %RPD | RPDLimit | Qual |

Nitrate/Nitrite as N 5.219 0.25 2.500 2.634 103 75 125 5.198 0.413 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 |                                      |   |                                                              |



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**ASSET Laboratories**
**ANALYTICAL RESULTS**
**Print Date:** 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-001

**Client Sample ID:** CW-03D-LF-Q420  
**Collection Date:** 10/7/2020 12:15:00 PM  
**Matrix:** GROUNDWATER

| Analyses                    | Result           | MDL | PQL | Qual             | Units     | DF             | Date Analyzed       |
|-----------------------------|------------------|-----|-----|------------------|-----------|----------------|---------------------|
| <b>TOTAL METALS BY ICP</b>  |                  |     |     |                  |           |                |                     |
|                             | <b>EPA 3010A</b> |     |     | <b>EPA 6010B</b> |           |                |                     |
| RunID: NV00922-ICP2_201010C | QC Batch: 82481  |     |     | PrepDate:        | 10/8/2020 | Analyst: admin |                     |
| Iron                        | 3400             | 18  | 20  |                  | ug/L      | 1              | 10/10/2020 01:08 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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**ASSET Laboratories**
**ANALYTICAL RESULTS**

Print Date: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-002

**Client Sample ID:** MW-902-Q420  
**Collection Date:** 10/7/2020 12:26:00 PM  
**Matrix:** GROUNDWATER

| Analyses                    | Result           | MDL | PQL | Qual             | Units     | DF             | Date Analyzed       |
|-----------------------------|------------------|-----|-----|------------------|-----------|----------------|---------------------|
| <b>TOTAL METALS BY ICP</b>  |                  |     |     |                  |           |                |                     |
|                             | <b>EPA 3010A</b> |     |     | <b>EPA 6010B</b> |           |                |                     |
| RunID: NV00922-ICP2_201010C | QC Batch: 82481  |     |     | PrepDate:        | 10/8/2020 | Analyst: admin |                     |
| Iron                        | 440              | 89  | 100 |                  | ug/L      | 5              | 10/10/2020 01:44 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-003

**Client Sample ID:** CW-03M-LF-Q420  
**Collection Date:** 10/7/2020 12:16:00 PM  
**Matrix:** GROUNDWATER

| Analyses                    | Result           | MDL | PQL | Qual             | Units     | DF             | Date Analyzed       |
|-----------------------------|------------------|-----|-----|------------------|-----------|----------------|---------------------|
| <b>TOTAL METALS BY ICP</b>  |                  |     |     |                  |           |                |                     |
|                             | <b>EPA 3010A</b> |     |     | <b>EPA 6010B</b> |           |                |                     |
| RunID: NV00922-ICP2_201010C | QC Batch: 82481  |     |     | PrepDate:        | 10/8/2020 | Analyst: admin |                     |
| Iron                        | 590              | 18  | 20  |                  | ug/L      | 1              | 10/10/2020 01:29 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-004

**Client Sample ID:** CW-02D-LF-Q420  
**Collection Date:** 10/7/2020 10:52:00 AM  
**Matrix:** GROUNDWATER

| Analyses                    | Result           | MDL | PQL | Qual             | Units     | DF             | Date Analyzed       |
|-----------------------------|------------------|-----|-----|------------------|-----------|----------------|---------------------|
| <b>TOTAL METALS BY ICP</b>  |                  |     |     |                  |           |                |                     |
|                             | <b>EPA 3010A</b> |     |     | <b>EPA 6010B</b> |           |                |                     |
| RunID: NV00922-ICP2_201010C | QC Batch: 82481  |     |     | PrepDate:        | 10/8/2020 | Analyst: admin |                     |
| Iron                        | ND               | 18  | 20  |                  | ug/L      | 1              | 10/10/2020 01:35 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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: 30-Oct-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042513-005

**Client Sample ID:** CW-02M-LF-Q420  
**Collection Date:** 10/7/2020 9:50:00 AM  
**Matrix:** GROUNDWATER

| Analyses                    | Result           | MDL | PQL | Qual             | Units     | DF             | Date Analyzed       |
|-----------------------------|------------------|-----|-----|------------------|-----------|----------------|---------------------|
| <b>TOTAL METALS BY ICP</b>  |                  |     |     |                  |           |                |                     |
|                             | <b>EPA 3010A</b> |     |     | <b>EPA 6010B</b> |           |                |                     |
| RunID: NV00922-ICP2_201010C | QC Batch: 82481  |     |     | PrepDate:        | 10/8/2020 | Analyst: admin |                     |
| Iron                        | 1000             | 18  | 20  |                  | ug/L      | 1              | 10/10/2020 01:40 PM |

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



**ASSET LABORATORIES**  
ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

[CALIFORNIA](#) | P:562.219.7435 F:562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
 ELAP Cert 2921  
 EPA ID CA01638

[NEVADA](#) | P:702.307.2659 F:702.307.2691  
 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

**"Serving Clients with Passion and Professionalism"**



**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042513  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 6010\_WPGEP**

|                            |                        |                                    |                    |                                  |                       |          |           |             |      |          |      |
|----------------------------|------------------------|------------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-82481</b> | SampType: <b>MBLK</b>  | TestCode: <b>6010_WPGEP</b>        | Units: <b>ug/L</b> | Prep Date: <b>10/8/2020</b>      | RunNo: <b>147930</b>  |          |           |             |      |          |      |
| Client ID: <b>PBW</b>      | Batch ID: <b>82481</b> | TestNo: <b>EPA 6010B EPA 3010A</b> |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3963391</b> |          |           |             |      |          |      |
| Analyte                    | Result                 | PQL                                | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Iron                       | ND                     | 20                                 |                    |                                  |                       |          |           |             |      |          |      |

|                             |                        |                                    |                    |                                  |                       |          |           |             |      |          |      |
|-----------------------------|------------------------|------------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-82481</b> | SampType: <b>LCS</b>   | TestCode: <b>6010_WPGEP</b>        | Units: <b>ug/L</b> | Prep Date: <b>10/8/2020</b>      | RunNo: <b>147930</b>  |          |           |             |      |          |      |
| Client ID: <b>LCSW</b>      | Batch ID: <b>82481</b> | TestNo: <b>EPA 6010B EPA 3010A</b> |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3963392</b> |          |           |             |      |          |      |
| Analyte                     | Result                 | PQL                                | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Iron                        | 95.143                 | 20                                 | 100.0              | 0                                | 95.1                  | 85       | 115       |             |      |          |      |

|                                   |                        |                                    |                    |                                  |                       |          |           |             |      |          |      |
|-----------------------------------|------------------------|------------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042405-001E-MS</b> | SampType: <b>MS</b>    | TestCode: <b>6010_WPGEP</b>        | Units: <b>ug/L</b> | Prep Date: <b>10/8/2020</b>      | RunNo: <b>147930</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82481</b> | TestNo: <b>EPA 6010B EPA 3010A</b> |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3963396</b> |          |           |             |      |          |      |
| Analyte                           | Result                 | PQL                                | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Iron                              | 229.798                | 20                                 | 100.0              | 124.8                            | 105                   | 75       | 125       |             |      |          |      |

|                                    |                        |                                    |                    |                                  |                       |          |           |             |      |          |      |
|------------------------------------|------------------------|------------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042405-001E-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>6010_WPGEP</b>        | Units: <b>ug/L</b> | Prep Date: <b>10/8/2020</b>      | RunNo: <b>147930</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82481</b> | TestNo: <b>EPA 6010B EPA 3010A</b> |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3963397</b> |          |           |             |      |          |      |
| Analyte                            | Result                 | PQL                                | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Iron                               | 239.242                | 20                                 | 100.0              | 124.8                            | 114                   | 75       | 125       | 229.8       | 4.03 | 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, SOIL AND WATER

**CALIFORNIA** | P: 562.219.7435 F: 562.219.7436  
 11110 Artesia Blvd., Ste B, Cerritos, CA 90703  
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 ORELAP/NELAP Cert 4046

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## ASSET LABORATORIES

ANALYTICAL SUPPORT SERVICES FOR ENVIRONMENTAL TECHNOLOGIES

## CHAIN OF CUSTODY RECORD

Page 1 of 1

[illegible]

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: 10/7/2020

Workorder: N042513

Rep sample Temp (Deg C): 3.7/3.5

IR Gun ID: 1

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

Comments:

For:

Checklist Completed By: FR *B. Hdez* 10/8/2020

Reviewed By: *ABC* 10/08/2020

# ASSET Laboratories

## WORK ORDER Summary

08-Oct-20

**WorkOrder:** N042513

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/7/2020

**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 |
|--------------|------------------|-----------------------|------------|-------------|-------------|-------------------------------------------|--------------------------|--------------------------|-------------------------------------|---------|
| N042513-001A | CW-03D-LF-Q420   | 10/7/2020 12:15:00 PM | 10/21/2020 | Groundwater | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-001B |                  |                       | 10/21/2020 |             | SM4500-NH3D | AMMONIA-N BY ION SELECTIVE ELECTRODE      | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SUB     |
| N042513-001C |                  |                       | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 245.1   | DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             |             | DISSOLVED MERCURY PREP                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-001D |                  |                       | 10/21/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             |             | Total Dissolved Solids Prep               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | SM 2130B    | TURBIDITY                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | SM 2320 B   | ALKALINITY, SPECIATED                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-001E |                  |                       | 10/21/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-001F |                  |                       | 10/21/2020 |             | EPA 3010A   | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 6010B   | TOTAL METALS BY ICP                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-002A | MW-902-Q420      | 10/7/2020 12:26:00 PM | 10/21/2020 |             | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |

# ASSET Laboratories

## WORK ORDER Summary

08-Oct-20

WorkOrder: N042513

Client ID: ARCUS02

Project: PG&E Topock - CMP, RC000753.801D

QC Level: Level IV

Date Received: 10/7/2020

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 |
|--------------|------------------|-----------------------|------------|-------------|-------------|-------------------------------------------|--------------------------|--------------------------|-------------------------------------|---------|
| N042513-002B | MW-902-Q420      | 10/7/2020 12:26:00 PM | 10/21/2020 | Groundwater | SM4500-NH3D | AMMONIA-N BY ION SELECTIVE ELECTRODE      | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SUB     |
| N042513-002C |                  |                       | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 245.1   | DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             |             | DISSOLVED MERCURY PREP                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-002D |                  |                       | 10/21/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             |             | Total Dissolved Solids Prep               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | SM 2130B    | TURBIDITY                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | SM 2320 B   | ALKALINITY, SPECIATED                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-002E |                  |                       | 10/21/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-002F |                  |                       | 10/21/2020 |             | EPA 3010A   | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 6010B   | TOTAL METALS BY ICP                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-003A | CW-03M-LF-Q420   | 10/7/2020 12:16:00 PM | 10/21/2020 |             | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-003B |                  |                       | 10/21/2020 |             | SM4500-NH3D | AMMONIA-N BY ION SELECTIVE ELECTRODE      | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SUB     |

# ASSET Laboratories

## WORK ORDER Summary

08-Oct-20

**WorkOrder:** N042513

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/7/2020

**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 |
|--------------|------------------|-----------------------|------------|-------------|-------------|-------------------------------------------|--------------------------|--------------------------|-------------------------------------|---------|
| N042513-003C | CW-03M-LF-Q420   | 10/7/2020 12:16:00 PM | 10/21/2020 | Groundwater |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 245.1   | DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             |             | DISSOLVED MERCURY PREP                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-003D |                  |                       | 10/21/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             |             | Total Dissolved Solids Prep               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | SM 2130B    | TURBIDITY                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | SM 2320 B   | ALKALINITY, SPECIATED                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-003E |                  |                       | 10/21/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-003F |                  |                       | 10/21/2020 |             | EPA 3010A   | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 6010B   | TOTAL METALS BY ICP                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-004A | CW-02D-LF-Q420   | 10/7/2020 10:52:00 AM | 10/21/2020 |             | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-004B |                  |                       | 10/21/2020 |             | SM4500-NH3D | AMMONIA-N BY ION SELECTIVE ELECTRODE      | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SUB     |
| N042513-004C |                  |                       | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |

# ASSET Laboratories

## WORK ORDER Summary

08-Oct-20

**WorkOrder:** N042513

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/7/2020

**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 |
|--------------|------------------|-----------------------|------------|-------------|-------------|-------------------------------------------|--------------------------|--------------------------|--------------------------|---------|
| N042513-004C | CW-02D-LF-Q420   | 10/7/2020 10:52:00 AM | 10/21/2020 | Groundwater | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 245.1   | DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             |             | DISSOLVED MERCURY PREP                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-004D |                  |                       | 10/21/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             |             | Total Dissolved Solids Prep               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             | SM 2130B    | TURBIDITY                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             | SM 2320 B   | ALKALINITY, SPECIATED                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-004E |                  |                       | 10/21/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-004F |                  |                       | 10/21/2020 |             | EPA 3010A   | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 6010B   | TOTAL METALS BY ICP                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-005A | CW-02M-LF-Q420   | 10/7/2020 9:50:00 AM  | 10/21/2020 |             | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-005B |                  |                       | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |

# ASSET Laboratories

## WORK ORDER Summary

08-Oct-20

**WorkOrder:** N042513

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/7/2020

**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 |
|--------------|------------------|----------------------|------------|-------------|-------------|-------------------------------------------|--------------------------|--------------------------|-------------------------------------|---------|
| N042513-005B | CW-02M-LF-Q420   | 10/7/2020 9:50:00 AM | 10/21/2020 | Groundwater | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 245.1   | DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/21/2020 |             |             | DISSOLVED MERCURY PREP                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-005C |                  |                      | 10/21/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/21/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/21/2020 |             |             | Total Dissolved Solids Prep               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/21/2020 |             | SM 2130B    | TURBIDITY                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/21/2020 |             | SM 2320 B   | ALKALINITY, SPECIATED                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-005D |                  |                      | 10/21/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-005E |                  |                      | 10/21/2020 |             | SM4500-NH3D | AMMONIA-N BY ION SELECTIVE ELECTRODE      | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SUB     |
| N042513-005F |                  |                      | 10/21/2020 |             | EPA 3010A   | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 6010B   | TOTAL METALS BY ICP                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-006A | OW-01D-Q420      | 10/7/2020 2:26:00 PM | 10/21/2020 |             | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042513-006B |                  |                      | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |



# ASSET Laboratories

## WORK ORDER Summary

08-Oct-20

**WorkOrder:** N042513

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/7/2020

**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 |
|--------------|------------------|----------------------|------------|-------------|-------------|----------------------------------------|--------------------------|--------------------------|--------------------------|---------|
| N042513-006B | OW-01D-Q420      | 10/7/2020 2:26:00 PM | 10/21/2020 | Groundwater | EPA 200.8   | DISSOLVED METALS BY ICP-MS             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-006C |                  |                      | 10/21/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             |             | Total Dissolved Solids Prep            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | SM 2130B    | TURBIDITY                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-006D |                  |                      | 10/21/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-007A | MW-903-Q420      | 10/7/2020 2:36:00 PM | 10/21/2020 |             | EPA 218.6   | Hexavalent Chromium by IC              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-007B |                  |                      | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICP-MS             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-007C |                  |                      | 10/21/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             |             | Total Dissolved Solids Prep            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | SM 2130B    | TURBIDITY                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |

# ASSET Laboratories

## WORK ORDER Summary

08-Oct-20

**WorkOrder:** N042513

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/7/2020

**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 |
|--------------|------------------|----------------------|------------|-------------|-------------|----------------------------------------|--------------------------|--------------------------|--------------------------|---------|
| N042513-007D | MW-903-Q420      | 10/7/2020 2:36:00 PM | 10/21/2020 | Groundwater | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-008A | OW-01M-Q420      | 10/7/2020 1:41:00 PM | 10/21/2020 |             | EPA 218.6   | Hexavalent Chromium by IC              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-008B |                  |                      | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICP-MS             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-008C |                  |                      | 10/21/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             |             | Total Dissolved Solids Prep            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | SM 2130B    | TURBIDITY                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-008D |                  |                      | 10/21/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-009A | OW-01S-Q420      | 10/7/2020 1:35:00 PM | 10/21/2020 |             | EPA 218.6   | Hexavalent Chromium by IC              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-009B |                  |                      | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICP-MS             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |

# ASSET Laboratories

## WORK ORDER Summary

08-Oct-20

**WorkOrder:** N042513

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/7/2020

**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 |
|--------------|------------------|----------------------|------------|-------------|-------------|----------------------------------------|--------------------------|--------------------------|--------------------------|---------|
| N042513-009C | OW-01S-Q420      | 10/7/2020 1:35:00 PM | 10/21/2020 | Groundwater | EPA 120.1   | SPECIFIC CONDUCTANCE                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             |             | Total Dissolved Solids Prep            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | SM 2130B    | TURBIDITY                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                      | 10/21/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-009D |                  |                      | 10/21/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-010A | EB-756-Q420      | 10/7/2020 2:30:00 PM | 10/21/2020 |             | EPA 218.6   | Hexavalent Chromium by IC              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-011A | EB-755-Q420      | 10/7/2020 3:00:00 PM | 10/21/2020 |             | EPA 218.6   | Hexavalent Chromium by IC              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042513-012A | FOLDER           | 10/21/2020           | 10/21/2020 |             | EDD         | RWQCB                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB     |
|              |                  |                      | 10/21/2020 |             | Folder      | Folder                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB     |
|              |                  |                      | 10/21/2020 |             | Folder      | Level IV Report                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB     |
|              |                  |                      | 10/21/2020 |             | Folder      | Folder                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB     |



## ASSET Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118

www.atl-labs.com

TEL: 7023072659

FAX: 7023072691

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

**QC Level: Level IV**

**Subcontractor:**

BC Labs  
4100 Atlas Court  
Bakersfield, CA 93308

TEL: (661) 327-4911  
FAX: (661) 327-1918  
Acct #:

Field Sampler: Matt Trainotti

**08-Oct-20**

| Sample ID                     | Matrix      | Date Collected        | Bottle Type | Requested Tests |  |  |
|-------------------------------|-------------|-----------------------|-------------|-----------------|--|--|
|                               |             |                       |             | SM4500-NH3D     |  |  |
| N042513-001B / CW-03D-LF-Q420 | Groundwater | 10/7/2020 12:15:00 PM | 16OZP       | 1               |  |  |
| N042513-002B / MW-902-Q420    | Groundwater | 10/7/2020 12:26:00 PM | 16OZP       | 1               |  |  |
| N042513-003B / CW-03M-LF-Q420 | Groundwater | 10/7/2020 12:16:00 PM | 16OZP       | 1               |  |  |
| N042513-004B / CW-02D-LF-Q420 | Groundwater | 10/7/2020 10:52:00 AM | 16OZP       | 1               |  |  |
| N042513-005E / CW-02M-LF-Q420 | Groundwater | 10/7/2020 9:50:00 AM  | 16OZP       | 1               |  |  |

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com

Please use PO#:N42513A Please email Invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: Standard TAT.

Please analyze for Ammonia by SM4500NH3D. EDD Requirement Labspec7 edata.

GSO #: 550724275

|                             |                  |                    |                  |
|-----------------------------|------------------|--------------------|------------------|
|                             | <b>Date/Time</b> |                    | <b>Date/Time</b> |
| Relinquished by: <u>YLT</u> | 10/8/2020 1630   | Received by: _____ | _____            |
| Relinquished by: _____      | _____            | Received by: _____ | _____            |



**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949



Date of Report: 10/14/2020

Marlon B. Cartin

ASSET Laboratories- Las Vegas

3151-3153 W. Post Rd  
Las Vegas, NV 89118

Client Project: N042513

BCL Project: Level IV + labSpec7

BCL Work Order: 2029639

Invoice ID: B394743

Enclosed are the results of analyses for samples received by the laboratory on 10/9/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval  
Client Service Rep

Stuart Buttram  
Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



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| Water Analysis (General Chemistry).....           | 6  |
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| Water Analysis (General Chemistry).....           | 7  |
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### Quality Control Reports

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**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 2029639 Page 1 of 2

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# CHAIN-OF-CUSTODY RECORD

**ASSET Laboratories**  
3151-3153 W Post Rd., Las Vegas, NV 89118  
www.asset-labs.com  
TEL: 702.307.2659 FAX: 702.307.2659

2029639

Subcontractor:

BC Labs  
4100 Atlas Court  
Bakersfield, CA 93308

TEL: (661) 327-4911  
FAX: (661) 327-1918  
Acct #:

QC Level: Level IV

Field Sampler: Matt Trainotti

08-Oct-20

| Sample ID                       | Matrix      | Date Collected        | Bottle Type | Requested Tests |  |
|---------------------------------|-------------|-----------------------|-------------|-----------------|--|
|                                 |             |                       |             | SM4500-MH3D     |  |
| 1 N042513-001B / CW-03D-LF-Q420 | Groundwater | 10/7/2020 12:15:00 PM | 16OZP       | 1               |  |
| 2 N042513-002B / MW-902-Q420    | Groundwater | 10/7/2020 12:26:00 PM | 16OZP       | 1               |  |
| 3 N042513-003B / CW-03M-LF-Q420 | Groundwater | 10/7/2020 12:16:00 PM | 16OZP       | 1               |  |
| 4 N042513-004B / CW-02D-LF-Q420 | Groundwater | 10/7/2020 10:52:00 AM | 16OZP       | 1               |  |
| 5 N042513-005E / CW-02M-LF-Q420 | Groundwater | 10/7/2020 9:50:00 AM  | 16OZP       | 1               |  |

|        |              |
|--------|--------------|
| CHK BY | DISTRIBUTION |
|        | MA JWH JWH   |
|        | SUB OUT      |

General Comments:

PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com

Please use PO#N42513A Please email invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: Standard TAT.

Please analyze for Ammonia by SM4500NH3D. EOD Requirement LabSpec7 edata.

GSO #: 550724275

|                  |                |              |              |
|------------------|----------------|--------------|--------------|
| Relinquished by: | Date/Time      | Received by: | Date/Time    |
|                  | 10/8/2020 1630 |              | 10-9-20 1020 |
| Relinquished by: |                | Received by: |              |

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Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 2029639 Page 2 of 2

| BC LABORATORIES INC.                                                                                                                                                                                                                                                                       |  | COOLER RECEIPT FORM                                                                                                                                                                     |   | Page                                                                                    | Of |   |   |   |   |   |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------|----|---|---|---|---|---|----|
| Submission #: <u>2029639</u>                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| <b>SHIPPING INFORMATION</b><br>Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/><br>BC Lab Field Service <input type="checkbox"/> Other <input checked="" type="checkbox"/> (Specify) <u>CLS</u>         |  | <b>SHIPPING CONTAINER</b><br>Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/><br>Other <input type="checkbox"/> (Specify) _____ |   | <b>FREE LIQUID</b><br>YES <input type="checkbox"/> NO <input type="checkbox"/><br>W / S |    |   |   |   |   |   |    |
| Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____                                                                                                                        |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____<br>Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>         |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| COC Received<br><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                        |  | Emissivity: <u>97</u> Container: <u>PE</u> Thermometer ID: <u>274</u><br>Temperature: (A) <u>3.4</u> °C / (C) <u>32</u> °C                                                              |   | Date/Time <u>10-9-20 1020</u><br>Analyst Init <u>TKJ</u>                                |    |   |   |   |   |   |    |
| SAMPLE CONTAINERS                                                                                                                                                                                                                                                                          |  | SAMPLE NUMBERS                                                                                                                                                                          |   |                                                                                         |    |   |   |   |   |   |    |
|                                                                                                                                                                                                                                                                                            |  | 1                                                                                                                                                                                       | 2 | 3                                                                                       | 4  | 5 | 6 | 7 | 8 | 9 | 10 |
| QT PE UNPRES                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| 4oz / 8oz / 16oz PE UNPRES                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| 2oz Cy <sup>4</sup>                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| QT INORGANIC CHEMICAL METALS                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| PT CYANIDE                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| PT NITROGEN FORMS                                                                                                                                                                                                                                                                          |  | A                                                                                                                                                                                       | A | A                                                                                       | A  | A |   |   |   |   |    |
| PT TOTAL SULFIDE                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| 2oz. NITRATE / NITRITE                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| PT TOTAL ORGANIC CARBON                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| PT CHEMICAL OXYGEN DEMAND                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| PLA PHENOLICS                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| 40ml VOA VIAL TRAVEL BLANK                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| 40ml VOA VIAL                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| QT EPA 1664                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| PT ODOR                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| RADIOLOGICAL                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| BACTERIOLOGICAL                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| 40 ml VOA VIAL- 504                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| QT EPA 508/608/808                                                                                                                                                                                                                                                                         |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| QT EPA 515.1/8150                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| QT EPA 525                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| QT EPA 525 TRAVEL BLANK                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| 40ml EPA 547                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| 40ml EPA 531.1                                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| 8oz EPA 548                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| QT EPA 549                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| QT EPA 8015M                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| QT EPA 8270                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| 8oz / 16oz / 32oz AMBER                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| 8oz / 16oz / 32oz JAR                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| SOIL SLURRY                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| PCE VIAL                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| PLASTIC BAG                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| FEDLAR BAG                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| FERROUS IRON                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| INCORE                                                                                                                                                                                                                                                                                     |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| SMART KIT                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| MUMMA CANISTER                                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| Comments: _____                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |
| Sample Numbering Completed By: <u>GWP</u>                                                                                                                                                                                                                                                  |  | Date/Time: <u>10/9 1857</u>                                                                                                                                                             |   | Rev 21 05/23/2016<br>IS:WPDactWordPerfectLAB_DDCSIFORMS15ANRREV 201                     |    |   |   |   |   |   |    |
| = Actual / C = Corrected                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                         |   |                                                                                         |    |   |   |   |   |   |    |

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ASSET Laboratories- Las Vegas  
3151-3153 W. Post Rd  
Las Vegas, NV 89118

**Reported:** 10/14/2020 16:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042513  
**Project Manager:** Marlon B. Cartin

## Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information |                               |                       |                  |
|------------|---------------------------|-------------------------------|-----------------------|------------------|
| 2029639-01 | <b>COC Number:</b>        | ---                           | <b>Receive Date:</b>  | 10/09/2020 10:20 |
|            | <b>Project Number:</b>    | ---                           | <b>Sampling Date:</b> | 10/07/2020 12:15 |
|            | <b>Sampling Location:</b> | ---                           | <b>Sample Depth:</b>  | ---              |
|            | <b>Sampling Point:</b>    | N042513-001B / CW-03D-LF-Q420 | <b>Lab Matrix:</b>    | Water            |
|            | <b>Sampled By:</b>        | Matt Trainotti                | <b>Sample Type:</b>   | Groundwater      |
| 2029639-02 | <b>COC Number:</b>        | ---                           | <b>Receive Date:</b>  | 10/09/2020 10:20 |
|            | <b>Project Number:</b>    | ---                           | <b>Sampling Date:</b> | 10/07/2020 12:26 |
|            | <b>Sampling Location:</b> | ---                           | <b>Sample Depth:</b>  | ---              |
|            | <b>Sampling Point:</b>    | N042513-002B / MW-902-Q420    | <b>Lab Matrix:</b>    | Water            |
|            | <b>Sampled By:</b>        | Matt Trainotti                | <b>Sample Type:</b>   | Groundwater      |
| 2029639-03 | <b>COC Number:</b>        | ---                           | <b>Receive Date:</b>  | 10/09/2020 10:20 |
|            | <b>Project Number:</b>    | ---                           | <b>Sampling Date:</b> | 10/07/2020 12:16 |
|            | <b>Sampling Location:</b> | ---                           | <b>Sample Depth:</b>  | ---              |
|            | <b>Sampling Point:</b>    | N042513-003B / CW-03M-LF-Q420 | <b>Lab Matrix:</b>    | Water            |
|            | <b>Sampled By:</b>        | Matt Trainotti                | <b>Sample Type:</b>   | Groundwater      |
| 2029639-04 | <b>COC Number:</b>        | ---                           | <b>Receive Date:</b>  | 10/09/2020 10:20 |
|            | <b>Project Number:</b>    | ---                           | <b>Sampling Date:</b> | 10/07/2020 10:52 |
|            | <b>Sampling Location:</b> | ---                           | <b>Sample Depth:</b>  | ---              |
|            | <b>Sampling Point:</b>    | N042513-004B / CW-02D-LF-Q420 | <b>Lab Matrix:</b>    | Water            |
|            | <b>Sampled By:</b>        | Matt Trainotti                | <b>Sample Type:</b>   | Groundwater      |
| 2029639-05 | <b>COC Number:</b>        | ---                           | <b>Receive Date:</b>  | 10/09/2020 10:20 |
|            | <b>Project Number:</b>    | ---                           | <b>Sampling Date:</b> | 10/07/2020 09:50 |
|            | <b>Sampling Location:</b> | ---                           | <b>Sample Depth:</b>  | ---              |
|            | <b>Sampling Point:</b>    | N042513-005E / CW-02M-LF-Q420 | <b>Lab Matrix:</b>    | Water            |
|            | <b>Sampled By:</b>        | Matt Trainotti                | <b>Sample Type:</b>   | Groundwater      |

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Las Vegas, NV 89118

**Reported:** 10/14/2020 16:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042513  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

| <b>BCL Sample ID:</b>    | 2029639-01 | <b>Client Sample Name:</b> | N042513-001B / CW-03D-LF-Q420, 10/7/2020 12:15:00PM, Matt Trainotti |              |         |           |       |
|--------------------------|------------|----------------------------|---------------------------------------------------------------------|--------------|---------|-----------|-------|
| Constituent              | Result     | Units                      | RL                                                                  | Method       | MB Bias | Lab Quals | Run # |
| Ammonia as N (Distilled) | ND         | mg/L                       | 0.20                                                                | SM-4500-NH3G | ND      |           | 1     |

| Run # | Method       | Prep Date      | Run Date/Time  | Analyst | Instrument | Dilution | QC Batch ID | Prep Method  |
|-------|--------------|----------------|----------------|---------|------------|----------|-------------|--------------|
| 1     | SM-4500-NH3G | 10/12/20 15:30 | 10/14/20 10:57 | JMH2    | SC-2       | 1.068    | B089622     | SM 4500-NH3G |

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Las Vegas, NV 89118

**Reported:** 10/14/2020 16:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042513  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

|                          |               |                            |                                                                  |               |                |                  |              |
|--------------------------|---------------|----------------------------|------------------------------------------------------------------|---------------|----------------|------------------|--------------|
| <b>BCL Sample ID:</b>    | 2029639-02    | <b>Client Sample Name:</b> | N042513-002B / MW-902-Q420, 10/7/2020 12:26:00PM, Matt Trainotti |               |                |                  |              |
| <b>Constituent</b>       | <b>Result</b> | <b>Units</b>               | <b>RL</b>                                                        | <b>Method</b> | <b>MB Bias</b> | <b>Lab Quals</b> | <b>Run #</b> |
| Ammonia as N (Distilled) | ND            | mg/L                       | 0.20                                                             | SM-4500-NH3G  | ND             |                  | 1            |

| Run # | Method       | Prep Date      | Run            |  | Analyst | Instrument | Dilution | QC       |              |
|-------|--------------|----------------|----------------|--|---------|------------|----------|----------|--------------|
|       |              |                | Date/Time      |  |         |            |          | Batch ID | Prep Method  |
| 1     | SM-4500-NH3G | 10/12/20 15:30 | 10/14/20 10:58 |  | JMH2    | SC-2       | 1.073    | B089622  | SM 4500-NH3G |

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3151-3153 W. Post Rd  
Las Vegas, NV 89118

**Reported:** 10/14/2020 16:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042513  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

|                          |               |                            |                                                                     |               |                |                  |              |
|--------------------------|---------------|----------------------------|---------------------------------------------------------------------|---------------|----------------|------------------|--------------|
| <b>BCL Sample ID:</b>    | 2029639-03    | <b>Client Sample Name:</b> | N042513-003B / CW-03M-LF-Q420, 10/7/2020 12:16:00PM, Matt Trainotti |               |                |                  |              |
| <b>Constituent</b>       | <b>Result</b> | <b>Units</b>               | <b>RL</b>                                                           | <b>Method</b> | <b>MB Bias</b> | <b>Lab Quals</b> | <b>Run #</b> |
| Ammonia as N (Distilled) | ND            | mg/L                       | 0.20                                                                | SM-4500-NH3G  | ND             |                  | 1            |

| Run # | Method       | Prep Date      | Run            |  | Analyst | Instrument | Dilution | QC       |              |
|-------|--------------|----------------|----------------|--|---------|------------|----------|----------|--------------|
|       |              |                | Date/Time      |  |         |            |          | Batch ID | Prep Method  |
| 1     | SM-4500-NH3G | 10/12/20 15:30 | 10/14/20 10:59 |  | JMH2    | SC-2       | 1.079    | B089622  | SM 4500-NH3G |

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3151-3153 W. Post Rd  
Las Vegas, NV 89118

**Reported:** 10/14/2020 16:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042513  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

| <b>BCL Sample ID:</b>    | 2029639-04 | <b>Client Sample Name:</b> | N042513-004B / CW-02D-LF-Q420, 10/7/2020 10:52:00AM, Matt Trainotti |              |         |           |       |
|--------------------------|------------|----------------------------|---------------------------------------------------------------------|--------------|---------|-----------|-------|
| Constituent              | Result     | Units                      | RL                                                                  | Method       | MB Bias | Lab Quals | Run # |
| Ammonia as N (Distilled) | ND         | mg/L                       | 0.20                                                                | SM-4500-NH3G | ND      |           | 1     |

| Run # | Method       | Prep Date      | Run Date/Time  | Analyst | Instrument | Dilution | QC Batch ID | Prep Method  |
|-------|--------------|----------------|----------------|---------|------------|----------|-------------|--------------|
| 1     | SM-4500-NH3G | 10/12/20 15:30 | 10/14/20 11:00 | JMH2    | SC-2       | 1.077    | B089622     | SM 4500-NH3G |

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ASSET Laboratories- Las Vegas  
3151-3153 W. Post Rd  
Las Vegas, NV 89118

**Reported:** 10/14/2020 16:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042513  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

| <b>BCL Sample ID:</b>    | 2029639-05 | <b>Client Sample Name:</b> | N042513-005E / CW-02M-LF-Q420, 10/7/2020 9:50:00AM, Matt Trainotti |              |         |           |       |
|--------------------------|------------|----------------------------|--------------------------------------------------------------------|--------------|---------|-----------|-------|
| Constituent              | Result     | Units                      | RL                                                                 | Method       | MB Bias | Lab Quals | Run # |
| Ammonia as N (Distilled) | ND         | mg/L                       | 0.20                                                               | SM-4500-NH3G | ND      |           | 1     |

| Run # | Method       | Prep Date      | Run Date/Time  | Analyst | Instrument | Dilution | QC Batch ID | Prep Method  |
|-------|--------------|----------------|----------------|---------|------------|----------|-------------|--------------|
| 1     | SM-4500-NH3G | 10/12/20 15:30 | 10/14/20 11:01 | JMH2    | SC-2       | 1.087    | B089622     | SM 4500-NH3G |

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ASSET Laboratories- Las Vegas  
3151-3153 W. Post Rd  
Las Vegas, NV 89118

**Reported:** 10/14/2020 16:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042513  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

### Quality Control Report - Method Blank Analysis

| Constituent                 | QC Sample ID | MB Result | Units | RL   | Lab Quals |
|-----------------------------|--------------|-----------|-------|------|-----------|
| <b>QC Batch ID: B089622</b> |              |           |       |      |           |
| Ammonia as N (Distilled)    | B089622-BLK1 | ND        | mg/L  | 0.20 |           |



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Environmental Testing Laboratory Since 1949



ASSET Laboratories- Las Vegas  
3151-3153 W. Post Rd  
Las Vegas, NV 89118

**Reported:** 10/14/2020 16:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042513  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

### Quality Control Report - Laboratory Control Sample

|                          |              |      |        |                |       |                     |     | <u>Control Limits</u> |     | Lab<br>Quals |
|--------------------------|--------------|------|--------|----------------|-------|---------------------|-----|-----------------------|-----|--------------|
| Constituent              | QC Sample ID | Type | Result | Spike<br>Level | Units | Percent<br>Recovery | RPD | Percent<br>Recovery   | RPD |              |
| QC Batch ID: B089622     |              |      |        |                |       |                     |     |                       |     |              |
| Ammonia as N (Distilled) | B089622-BS1  | LCS  | 1.9944 | 2.0000         | mg/L  | 99.7                |     | 85 - 115              |     |              |

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.





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Las Vegas, NV 89118

**Reported:** 10/14/2020 16:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042513  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

|                             |      |                       |               |        |             |       |     |                  | <u>Control Limits</u> |                  |           |
|-----------------------------|------|-----------------------|---------------|--------|-------------|-------|-----|------------------|-----------------------|------------------|-----------|
| Constituent                 | Type | Source Sample ID      | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | RPD                   | Percent Recovery | Lab Quals |
| <b>QC Batch ID: B089622</b> |      | Used client sample: N |               |        |             |       |     |                  |                       |                  |           |
| Ammonia as N (Distilled)    | DUP  | 2028434-12            | 0.073759      | ND     |             | mg/L  |     |                  | 20                    |                  | A02       |
|                             | MS   | 2028434-12            | 0.073759      | 2.4678 | 2.2989      | mg/L  |     | 104              |                       | 80 - 120         |           |
|                             | MSD  | 2028434-12            | 0.073759      | 2.4693 | 2.2989      | mg/L  | 0.1 | 104              | 20                    | 80 - 120         |           |



ASSET Laboratories- Las Vegas  
3151-3153 W. Post Rd  
Las Vegas, NV 89118

**Reported:** 10/14/2020 16:20  
**Project:** Level IV + labSpec7  
**Project Number:** N042513  
**Project Manager:** Marlon B. Cartin

### Notes And Definitions

MDL Method Detection Limit  
ND Analyte Not Detected  
A02 The difference between duplicate readings is less than the quantitation limit.

November 01, 2020

Dan Bush  
ARCADIS U.S., Inc. - California  
1410 Rocky Ridge Dr #330  
Roseville, CA 95661  
TEL: (916) 786-3302  
FAX:

Workorder No.: N042522

RE: PG&E Topock - CMP, RC000753.801D

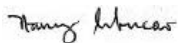
Attention: Dan Bush

Enclosed are the results for sample(s) received on October 08, 2020 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 Sibucan  
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.



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**ASSET Laboratories**

Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab Order:** N042522

**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.

Some analytes for samples N042522-006 (OW-02D-Q420) and N042522-008 (OW-02M-Q420) were not analyzed as per revised COC. Please see attached correspondence.

**Subcontracted Analyses:**

Ammonia was subcontracted to BC Labs- Bakersfield,CA.

**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 N042522-003B-MS2, N042522-003B-MSD2, N042522-001C-MS and N042522-001C-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.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for some analytes in QC samples N042522-001C-MS and N042522-001C-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.

**Analytical Comments for EPA 218.6:**

Because the results for total dissolved chromium (2.0 ug/L) and hexavalent chromium (0.59 ug/L) for sample N042522-001 (CW-01D-LF-Q420) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab Order:** N042522

## CASE NARRATIVE

Because the results for total dissolved chromium (1.8 ug/L) and hexavalent chromium (0.63 ug/L) for sample N042522-004 (OW-05D-Q420) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (1.4 ug/L) and hexavalent chromium (0.5 ug/L) for sample N042522-006 (OW-02D-Q420) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (16 ug/L) and hexavalent chromium (0.49 ug/L) for sample N042522-007 (OW-05M-LF-Q420) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

Because the results for total dissolved chromium (3.2 ug/L) and hexavalent chromium (2.0 ug/L) for sample N042522-008 (OW-02M-Q420) are discrepant, sample re-analysis and Matrix Spike protocol were performed and result confirmed initial analysis.

### Analytical Comments for EPA 6010B:

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria for Iron in QC samples N042522-001F-MS1 and N042522-001F-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.

### Analytical Comments for EPA 200.8\_Dissolved:

Because the results for total dissolved chromium (2.0 ug/L) and hexavalent chromium (0.59 ug/L) for sample N042522-001 (CW-01D-LF-Q420) 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 1.9 and 1.0 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 (1.8 ug/L) and hexavalent chromium (0.63 ug/L) for sample N042522-004 (OW-05D-Q420) 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 1.7 and 1.2 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 (1.4 ug/L) and hexavalent chromium (0.5 ug/L) for sample N042522-006 (OW-02D-Q420) are discrepant, sample from both the total dissolved chromium and hexavalent chromium containers were redigested and analyzed for total dissolved chromium. The



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab Order:** N042522

## CASE NARRATIVE

results from the redigested samples were 1.3 and 0.73 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 (16 ug/L) and hexavalent chromium (0.49 ug/L) for sample N042522-007 (OW-05M-LF-Q420) 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 14 and 3.6 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 (3.2 ug/L) and hexavalent chromium (2.0 ug/L) for sample N042522-008 (OW-02M-Q420) 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 3.2 and 2.2 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 N042508-001B-MS, N042508-001B-MSD and N042522-001C-MS 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.



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**ASSET Laboratories**

Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab Order:** N042522  
**Contract No:**

**Work Order Sample Summary**

| Lab Sample ID | Client Sample ID | Matrix      | Collection Date       | Date Received | Date Reported |
|---------------|------------------|-------------|-----------------------|---------------|---------------|
| N042522-001A  | CW-01D-LF-Q420   | Groundwater | 10/8/2020 2:10:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-001B  | CW-01D-LF-Q420   | Groundwater | 10/8/2020 2:10:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-001C  | CW-01D-LF-Q420   | Groundwater | 10/8/2020 2:10:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-001D  | CW-01D-LF-Q420   | Groundwater | 10/8/2020 2:10:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-001E  | CW-01D-LF-Q420   | Groundwater | 10/8/2020 2:10:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-001F  | CW-01D-LF-Q420   | Groundwater | 10/8/2020 2:10:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-002A  | CW-01M-LF-Q420   | Groundwater | 10/8/2020 2:11:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-002B  | CW-01M-LF-Q420   | Groundwater | 10/8/2020 2:11:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-002C  | CW-01M-LF-Q420   | Groundwater | 10/8/2020 2:11:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-002D  | CW-01M-LF-Q420   | Groundwater | 10/8/2020 2:11:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-002E  | CW-01M-LF-Q420   | Groundwater | 10/8/2020 2:11:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-002F  | CW-01M-LF-Q420   | Groundwater | 10/8/2020 2:11:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-003A  | OW-05S-LF-Q420   | Groundwater | 10/8/2020 11:51:00 AM | 10/8/2020     | 11/1/2020     |
| N042522-003B  | OW-05S-LF-Q420   | Groundwater | 10/8/2020 11:51:00 AM | 10/8/2020     | 11/1/2020     |
| N042522-003C  | OW-05S-LF-Q420   | Groundwater | 10/8/2020 11:51:00 AM | 10/8/2020     | 11/1/2020     |
| N042522-003D  | OW-05S-LF-Q420   | Groundwater | 10/8/2020 11:51:00 AM | 10/8/2020     | 11/1/2020     |
| N042522-004A  | OW-05D-Q420      | Groundwater | 10/8/2020 12:00:00 PM | 10/8/2020     | 11/1/2020     |
| N042522-004B  | OW-05D-Q420      | Groundwater | 10/8/2020 12:00:00 PM | 10/8/2020     | 11/1/2020     |
| N042522-004C  | OW-05D-Q420      | Groundwater | 10/8/2020 12:00:00 PM | 10/8/2020     | 11/1/2020     |
| N042522-004D  | OW-05D-Q420      | Groundwater | 10/8/2020 12:00:00 PM | 10/8/2020     | 11/1/2020     |
| N042522-004E  | OW-05D-Q420      | Groundwater | 10/8/2020 12:00:00 PM | 10/8/2020     | 11/1/2020     |
| N042522-004F  | OW-05D-Q420      | Groundwater | 10/8/2020 12:00:00 PM | 10/8/2020     | 11/1/2020     |
| N042522-005A  | MW-901-Q420      | Groundwater | 10/8/2020 2:21:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-005B  | MW-901-Q420      | Groundwater | 10/8/2020 2:21:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-005C  | MW-901-Q420      | Groundwater | 10/8/2020 2:21:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-005D  | MW-901-Q420      | Groundwater | 10/8/2020 2:21:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-005E  | MW-901-Q420      | Groundwater | 10/8/2020 2:21:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-005F  | MW-901-Q420      | Groundwater | 10/8/2020 2:21:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-006A  | OW-02D-Q420      | Groundwater | 10/8/2020 10:19:00 AM | 10/8/2020     | 11/1/2020     |



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**"Serving Clients with Passion and Professionalism"**

**CLIENT:** ARCADIS U.S., Inc. - California  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab Order:** N042522  
**Contract No:**

## Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix      | Collection Date       | Date Received | Date Reported |
|---------------|------------------|-------------|-----------------------|---------------|---------------|
| N042522-006B  | OW-02D-Q420      | Groundwater | 10/8/2020 10:19:00 AM | 10/8/2020     | 11/1/2020     |
| N042522-006C  | OW-02D-Q420      | Groundwater | 10/8/2020 10:19:00 AM | 10/8/2020     | 11/1/2020     |
| N042522-006D  | OW-02D-Q420      | Groundwater | 10/8/2020 10:19:00 AM | 10/8/2020     | 11/1/2020     |
| N042522-006E  | OW-02D-Q420      | Groundwater | 10/8/2020 10:19:00 AM | 10/8/2020     | 11/1/2020     |
| N042522-006F  | OW-02D-Q420      | Groundwater | 10/8/2020 10:19:00 AM | 10/8/2020     | 11/1/2020     |
| N042522-007A  | OW-05M-LF-Q420   | Groundwater | 10/8/2020 1:03:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-007B  | OW-05M-LF-Q420   | Groundwater | 10/8/2020 1:03:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-007C  | OW-05M-LF-Q420   | Groundwater | 10/8/2020 1:03:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-007D  | OW-05M-LF-Q420   | Groundwater | 10/8/2020 1:03:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-007E  | OW-05M-LF-Q420   | Groundwater | 10/8/2020 1:03:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-007F  | OW-05M-LF-Q420   | Groundwater | 10/8/2020 1:03:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-008A  | OW-02M-Q420      | Groundwater | 10/8/2020 9:11:00 AM  | 10/8/2020     | 11/1/2020     |
| N042522-008B  | OW-02M-Q420      | Groundwater | 10/8/2020 9:11:00 AM  | 10/8/2020     | 11/1/2020     |
| N042522-008C  | OW-02M-Q420      | Groundwater | 10/8/2020 9:11:00 AM  | 10/8/2020     | 11/1/2020     |
| N042522-008D  | OW-02M-Q420      | Groundwater | 10/8/2020 9:11:00 AM  | 10/8/2020     | 11/1/2020     |
| N042522-008E  | OW-02M-Q420      | Groundwater | 10/8/2020 9:11:00 AM  | 10/8/2020     | 11/1/2020     |
| N042522-008F  | OW-02M-Q420      | Groundwater | 10/8/2020 9:11:00 AM  | 10/8/2020     | 11/1/2020     |
| N042522-009A  | OW-02S-Q420      | Groundwater | 10/8/2020 10:57:00 AM | 10/8/2020     | 11/1/2020     |
| N042522-009B  | OW-02S-Q420      | Groundwater | 10/8/2020 10:57:00 AM | 10/8/2020     | 11/1/2020     |
| N042522-009C  | OW-02S-Q420      | Groundwater | 10/8/2020 10:57:00 AM | 10/8/2020     | 11/1/2020     |
| N042522-009D  | OW-02S-Q420      | Groundwater | 10/8/2020 10:57:00 AM | 10/8/2020     | 11/1/2020     |
| N042522-010A  | EB-758-Q420      | Groundwater | 10/8/2020 2:50:00 PM  | 10/8/2020     | 11/1/2020     |
| N042522-011A  | EB-757-Q420      | Groundwater | 10/8/2020 2:40:00 PM  | 10/8/2020     | 11/1/2020     |



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## ASSET Laboratories

## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-001

**Client Sample ID:** CW-01D-LF-Q420  
**Collection Date:** 10/8/2020 2:10:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## SPECIFIC CONDUCTANCE

## EPA 120.1

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201009B | QC Batch: R147903 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 7200              | 0.10 | 0.10 | umhos/cm  | 1 | 10/9/2020 01:50 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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## ASSET Laboratories

## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-002

**Client Sample ID:** CW-01M-LF-Q420  
**Collection Date:** 10/8/2020 2:11:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## SPECIFIC CONDUCTANCE

## EPA 120.1

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201009B | QC Batch: R147903 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 7300              | 0.10 | 0.10 | umhos/cm  | 1 | 10/9/2020 01:50 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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## ASSET Laboratories

## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-003

**Client Sample ID:** OW-05S-LF-Q420  
**Collection Date:** 10/8/2020 11:51:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## SPECIFIC CONDUCTANCE

## EPA 120.1

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201009B | QC Batch: R147903 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 5100              | 0.10 | 0.10 | umhos/cm  | 1 | 10/9/2020 01:50 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-004

Client Sample ID: OW-05D-Q420  
 Collection Date: 10/8/2020 12:00:00 PM  
 Matrix: GROUNDWATER

| Analyses                  | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed      |
|---------------------------|-------------------|------|-----------|------|--------------|----|--------------------|
| SPECIFIC CONDUCTANCE      |                   |      |           |      |              |    |                    |
| EPA 120.1                 |                   |      |           |      |              |    |                    |
| RunID: NV00922-WC_201009B | QC Batch: R147903 |      | PrepDate: |      | Analyst: QBM |    |                    |
| Specific Conductance      | 6900              | 0.10 | 0.10      |      | umhos/cm     | 1  | 10/9/2020 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-005

Client Sample ID: MW-901-Q420  
 Collection Date: 10/8/2020 2:21:00 PM  
 Matrix: GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## SPECIFIC CONDUCTANCE

## EPA 120.1

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201009B | QC Batch: R147903 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 7300              | 0.10 | 0.10 | umhos/cm  | 1 | 10/9/2020 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-006

Client Sample ID: OW-02D-Q420  
 Collection Date: 10/8/2020 10:19:00 AM  
 Matrix: GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## SPECIFIC CONDUCTANCE

## EPA 120.1

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201009B | QC Batch: R147903 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 7100              | 0.10 | 0.10 | umhos/cm  | 1 | 10/9/2020 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-007

**Client Sample ID:** OW-05M-LF-Q420  
**Collection Date:** 10/8/2020 1:03:00 PM  
**Matrix:** GROUNDWATER

| Analyses                    | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed      |
|-----------------------------|-------------------|------|-----------|------|--------------|----|--------------------|
| <b>SPECIFIC CONDUCTANCE</b> |                   |      |           |      |              |    |                    |
| <b>EPA 120.1</b>            |                   |      |           |      |              |    |                    |
| RunID: NV00922-WC_201009B   | QC Batch: R147903 |      | PrepDate: |      | Analyst: QBM |    |                    |
| Specific Conductance        | 7000              | 0.10 | 0.10      |      | umhos/cm     | 1  | 10/9/2020 01:50 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-008

Client Sample ID: OW-02M-Q420  
 Collection Date: 10/8/2020 9:11:00 AM  
 Matrix: GROUNDWATER

| Analyses                  | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed      |
|---------------------------|-------------------|------|-----------|------|--------------|----|--------------------|
| SPECIFIC CONDUCTANCE      |                   |      |           |      |              |    |                    |
| EPA 120.1                 |                   |      |           |      |              |    |                    |
| RunID: NV00922-WC_201009B | QC Batch: R147903 |      | PrepDate: |      | Analyst: QBM |    |                    |
| Specific Conductance      | 7100              | 0.10 | 0.10      |      | umhos/cm     | 1  | 10/9/2020 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-009

Client Sample ID: OW-02S-Q420  
 Collection Date: 10/8/2020 10:57:00 AM  
 Matrix: GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## SPECIFIC CONDUCTANCE

## EPA 120.1

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201009B | QC Batch: R147903 |      |      | PrepDate: |   | Analyst: QBM       |
| Specific Conductance      | 3700              | 0.10 | 0.10 | umhos/cm  | 1 | 10/9/2020 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                                        |    |                                            |



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## ASSET Laboratories

Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 120.1\_WPGE

|                                   |          |                          |                             |             |                        |                                 |           |             |                       |          |      |
|-----------------------------------|----------|--------------------------|-----------------------------|-------------|------------------------|---------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: <b>N042522-009CDUP</b> |          | SampType: <b>DUP</b>     | TestCode: <b>120.1_WPGE</b> |             | Units: <b>umhos/cm</b> | Prep Date:                      |           |             | RunNo: <b>147903</b>  |          |      |
| Client ID: <b>ZZZZZZ</b>          |          | Batch ID: <b>R147903</b> | TestNo: <b>EPA 120.1</b>    |             |                        | Analysis Date: <b>10/9/2020</b> |           |             | SeqNo: <b>3961555</b> |          |      |
| Analyte                           | Result   | PQL                      | SPK value                   | SPK Ref Val | %REC                   | LowLimit                        | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Specific Conductance              | 3690.000 | 0.10                     |                             |             |                        |                                 |           | 3700        | 0.271                 | 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 |                                      |   |                                                              |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-001

**Client Sample ID:** CW-01D-LF-Q420  
**Collection Date:** 10/8/2020 2:10:00 PM  
**Matrix:** GROUNDWATER

| Analyses                                     | Result          | MDL | PQL | Qual      | Units     | DF           | Date Analyzed      |
|----------------------------------------------|-----------------|-----|-----|-----------|-----------|--------------|--------------------|
| <b>TOTAL FILTERABLE RESIDUE</b>              |                 |     |     |           |           |              |                    |
| <b>SM2540C</b>                               |                 |     |     |           |           |              |                    |
| RunID: NV00922-WC_201009D                    | QC Batch: 82509 |     |     | PrepDate: | 10/9/2020 | Analyst: QBM |                    |
| Total Dissolved Solids (Residue, Filterable) | 4600            | 50  | 50  |           | mg/L      | 1            | 10/9/2020 08:04 AM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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## ASSET Laboratories

## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-002

**Client Sample ID:** CW-01M-LF-Q420  
**Collection Date:** 10/8/2020 2:11:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TOTAL FILTERABLE RESIDUE

## SM2540C

|                                              |                 |    |    |                     |   |                    |
|----------------------------------------------|-----------------|----|----|---------------------|---|--------------------|
| RunID: NV00922-WC_201009D                    | QC Batch: 82509 |    |    | PrepDate: 10/9/2020 |   | Analyst: QBM       |
| Total Dissolved Solids (Residue, Filterable) | 4700            | 50 | 50 | mg/L                | 1 | 10/9/2020 08:04 AM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-003

Client Sample ID: OW-05S-LF-Q420  
 Collection Date: 10/8/2020 11:51:00 AM  
 Matrix: GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TOTAL FILTERABLE RESIDUE

## SM2540C

|                                              |                 |    |    |                     |                    |
|----------------------------------------------|-----------------|----|----|---------------------|--------------------|
| RunID: NV00922-WC_201009D                    | QC Batch: 82509 |    |    | PrepDate: 10/9/2020 | Analyst: QBM       |
| Total Dissolved Solids (Residue, Filterable) | 4600            | 50 | 50 | mg/L                | 10/9/2020 08:04 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-004

Client Sample ID: OW-05D-Q420  
 Collection Date: 10/8/2020 12:00:00 PM  
 Matrix: GROUNDWATER

| Analyses                                     | Result          | MDL | PQL | Qual           | Units     | DF           | Date Analyzed      |
|----------------------------------------------|-----------------|-----|-----|----------------|-----------|--------------|--------------------|
| <b>TOTAL FILTERABLE RESIDUE</b>              |                 |     |     |                |           |              |                    |
|                                              |                 |     |     | <b>SM2540C</b> |           |              |                    |
| RunID: NV00922-WC_201009D                    | QC Batch: 82509 |     |     | PrepDate:      | 10/9/2020 | Analyst: QBM |                    |
| Total Dissolved Solids (Residue, Filterable) | 4500            | 50  | 50  |                | mg/L      | 1            | 10/9/2020 08:04 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-005

Client Sample ID: MW-901-Q420  
 Collection Date: 10/8/2020 2:21:00 PM  
 Matrix: GROUNDWATER

| Analyses                                     | Result          | MDL | PQL                 | Qual           | Units        | DF | Date Analyzed      |
|----------------------------------------------|-----------------|-----|---------------------|----------------|--------------|----|--------------------|
| <b>TOTAL FILTERABLE RESIDUE</b>              |                 |     |                     |                |              |    |                    |
|                                              |                 |     |                     | <b>SM2540C</b> |              |    |                    |
| RunID: NV00922-WC_201009E                    | QC Batch: 82516 |     | PrepDate: 10/9/2020 |                | Analyst: QBM |    |                    |
| Total Dissolved Solids (Residue, Filterable) | 4600            | 50  | 50                  |                | mg/L         | 1  | 10/9/2020 10:46 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                                        |                                            |                                     |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-006

Client Sample ID: OW-02D-Q420  
 Collection Date: 10/8/2020 10:19:00 AM  
 Matrix: GROUNDWATER

| Analyses                                     | Result          | MDL | PQL | Qual                | Units        | DF                 | Date Analyzed |
|----------------------------------------------|-----------------|-----|-----|---------------------|--------------|--------------------|---------------|
| TOTAL FILTERABLE RESIDUE                     |                 |     |     |                     |              |                    |               |
|                                              |                 |     |     | SM2540C             |              |                    |               |
| RunID: NV00922-WC_201009E                    | QC Batch: 82516 |     |     | PrepDate: 10/9/2020 | Analyst: QBM |                    |               |
| Total Dissolved Solids (Residue, Filterable) | 4400            | 50  | 50  | mg/L                | 1            | 10/9/2020 10:46 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-007

Client Sample ID: OW-05M-LF-Q420  
 Collection Date: 10/8/2020 1:03:00 PM  
 Matrix: GROUNDWATER

| Analyses                                     | Result          | MDL | PQL                 | Qual           | Units        | DF | Date Analyzed      |
|----------------------------------------------|-----------------|-----|---------------------|----------------|--------------|----|--------------------|
| <b>TOTAL FILTERABLE RESIDUE</b>              |                 |     |                     |                |              |    |                    |
|                                              |                 |     |                     | <b>SM2540C</b> |              |    |                    |
| RunID: NV00922-WC_201009E                    | QC Batch: 82516 |     | PrepDate: 10/9/2020 |                | Analyst: QBM |    |                    |
| Total Dissolved Solids (Residue, Filterable) | 4400            | 50  | 50                  |                | mg/L         | 1  | 10/9/2020 10:46 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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-008

**Client Sample ID:** OW-02M-Q420  
**Collection Date:** 10/8/2020 9:11:00 AM  
**Matrix:** GROUNDWATER

| Analyses                                     | Result          | MDL | PQL                 | Qual           | Units        | DF | Date Analyzed      |
|----------------------------------------------|-----------------|-----|---------------------|----------------|--------------|----|--------------------|
| <b>TOTAL FILTERABLE RESIDUE</b>              |                 |     |                     |                |              |    |                    |
|                                              |                 |     |                     | <b>SM2540C</b> |              |    |                    |
| RunID: NV00922-WC_201009E                    | QC Batch: 82516 |     | PrepDate: 10/9/2020 |                | Analyst: QBM |    |                    |
| Total Dissolved Solids (Residue, Filterable) | 4400            | 50  | 50                  |                | mg/L         | 1  | 10/9/2020 10:46 AM |

|                    |    |                                                              |                                            |                                     |
|--------------------|----|--------------------------------------------------------------|--------------------------------------------|-------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E                                          | Value above quantitation range      |
|                    | H  | Holding times for preparation or analysis exceeded           | ND                                         | Not Detected 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-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-009

Client Sample ID: OW-02S-Q420  
 Collection Date: 10/8/2020 10:57:00 AM  
 Matrix: GROUNDWATER

| Analyses                                     | Result          | MDL | PQL | Qual                | Units        | DF                 | Date Analyzed |
|----------------------------------------------|-----------------|-----|-----|---------------------|--------------|--------------------|---------------|
| TOTAL FILTERABLE RESIDUE                     |                 |     |     |                     |              |                    |               |
|                                              |                 |     |     | SM2540C             |              |                    |               |
| RunID: NV00922-WC_201009E                    | QC Batch: 82516 |     |     | PrepDate: 10/9/2020 | Analyst: QBM |                    |               |
| Total Dissolved Solids (Residue, Filterable) | 2600            | 25  | 25  | mg/L                | 1            | 10/9/2020 10:46 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                                        |    |                                            |



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Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

**ANALYTICAL QC SUMMARY REPORT****TestCode: 160.1\_2540C\_W**

|                                          |                 |                       |             |                          |                |          |           |             |      |          |      |
|------------------------------------------|-----------------|-----------------------|-------------|--------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-82509                     | SampType: LCS   | TestCode: 160.1_2540C | Units: mg/L | Prep Date: 10/9/2020     | RunNo: 147910  |          |           |             |      |          |      |
| Client ID: LCSW                          | Batch ID: 82509 | TestNo: SM2540C       |             | Analysis Date: 10/9/2020 | SeqNo: 3961875 |          |           |             |      |          |      |
| Analyte                                  | Result          | PQL                   | SPK value   | SPK Ref Val              | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | 1011.000        | 10                    | 1000        | 0                        | 101            | 80       | 120       |             |      |          |      |

|                                          |                 |                       |             |                          |                |          |           |             |      |          |      |
|------------------------------------------|-----------------|-----------------------|-------------|--------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-82509                      | SampType: MBLK  | TestCode: 160.1_2540C | Units: mg/L | Prep Date: 10/9/2020     | RunNo: 147910  |          |           |             |      |          |      |
| Client ID: PBW                           | Batch ID: 82509 | TestNo: SM2540C       |             | Analysis Date: 10/9/2020 | SeqNo: 3961876 |          |           |             |      |          |      |
| 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: N042507-003A-DUP              | SampType: DUP   | TestCode: 160.1_2540C | Units: mg/L | Prep Date: 10/9/2020     | RunNo: 147910  |          |           |             |       |          |      |
| Client ID: ZZZZZZ                        | Batch ID: 82509 | TestNo: SM2540C       |             | Analysis Date: 10/9/2020 | SeqNo: 3961880 |          |           |             |       |          |      |
| Analyte                                  | Result          | PQL                   | SPK value   | SPK Ref Val              | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | 31500.000       | 500                   |             |                          |                |          |           | 31400       | 0.318 | 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 |                                      |   |                                                              |

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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 160.1\_2540C\_W

|                                          |                 |                       |             |                          |                |          |           |             |      |          |      |
|------------------------------------------|-----------------|-----------------------|-------------|--------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-82516                     | SampType: LCS   | TestCode: 160.1_2540C | Units: mg/L | Prep Date: 10/9/2020     | RunNo: 147911  |          |           |             |      |          |      |
| Client ID: LCSW                          | Batch ID: 82516 | TestNo: SM2540C       |             | Analysis Date: 10/9/2020 | SeqNo: 3977411 |          |           |             |      |          |      |
| Analyte                                  | Result          | PQL                   | SPK value   | SPK Ref Val              | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | 1017.000        | 10                    | 1000        | 0                        | 102            | 80       | 120       |             |      |          |      |

|                                          |                 |                       |             |                          |                |          |           |             |      |          |      |
|------------------------------------------|-----------------|-----------------------|-------------|--------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-82516                      | SampType: MBLK  | TestCode: 160.1_2540C | Units: mg/L | Prep Date: 10/9/2020     | RunNo: 147911  |          |           |             |      |          |      |
| Client ID: PBW                           | Batch ID: 82516 | TestNo: SM2540C       |             | Analysis Date: 10/9/2020 | SeqNo: 3977412 |          |           |             |      |          |      |
| 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: N042525-001C-DUP              | SampType: DUP   | TestCode: 160.1_2540C | Units: mg/L | Prep Date: 10/9/2020     | RunNo: 147911  |          |           |             |      |          |      |
| Client ID: ZZZZZZ                        | Batch ID: 82516 | TestNo: SM2540C       |             | Analysis Date: 10/9/2020 | SeqNo: 3977419 |          |           |             |      |          |      |
| Analyte                                  | Result          | PQL                   | SPK value   | SPK Ref Val              | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Total Dissolved Solids (Residue, Filtera | 938.000         | 10                    |             |                          |                |          |           | 959.0       | 2.21 | 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 |                                      |   |                                                              |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-001

**Client Sample ID:** CW-01D-LF-Q420  
**Collection Date:** 10/8/2020 2:10:00 PM  
**Matrix:** GROUNDWATER

| Analyses                       | Result          | MDL  | PQL                  | Qual | Units       | DF  | Date Analyzed       |
|--------------------------------|-----------------|------|----------------------|------|-------------|-----|---------------------|
| <b>DISSOLVED METALS BY ICP</b> |                 |      |                      |      |             |     |                     |
| <b>EPA 200.7</b>               |                 |      |                      |      |             |     |                     |
| RunID: NV00922-ICP2_201015B    | QC Batch: 82565 |      | PrepDate: 10/14/2020 |      | Analyst: DJ |     |                     |
| Aluminum                       | ND              | 40   | 50                   |      | µg/L        | 1   | 10/15/2020 11:47 AM |
| Boron                          | 1100            | 74   | 100                  |      | µg/L        | 1   | 10/15/2020 11:47 AM |
| Calcium                        | 100000          | 85   | 500                  |      | µg/L        | 1   | 10/15/2020 11:47 AM |
| Iron                           | 190             | 18   | 20                   |      | µg/L        | 1   | 10/15/2020 11:47 AM |
| Magnesium                      | 21000           | 48   | 100                  |      | µg/L        | 1   | 10/15/2020 11:47 AM |
| Potassium                      | 10000           | 850  | 5000                 |      | µg/L        | 10  | 10/14/2020 04:33 PM |
| Sodium                         | 1400000         | 9600 | 50000                |      | µg/L        | 100 | 10/14/2020 06:45 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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-002

**Client Sample ID:** CW-01M-LF-Q420  
**Collection Date:** 10/8/2020 2:11:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## DISSOLVED METALS BY ICP

## EPA 200.7

| RunID: NV00922-ICP2_201015B | QC Batch: 82565 | PrepDate: 10/14/2020 | Analyst: DJ |      |     |                     |
|-----------------------------|-----------------|----------------------|-------------|------|-----|---------------------|
| Aluminum                    | ND              | 40                   | 50          | µg/L | 1   | 10/15/2020 12:14 PM |
| Boron                       | 1200            | 74                   | 100         | µg/L | 1   | 10/15/2020 12:14 PM |
| Calcium                     | 110000          | 85                   | 500         | µg/L | 1   | 10/15/2020 12:14 PM |
| Iron                        | 99              | 18                   | 20          | µg/L | 1   | 10/15/2020 12:14 PM |
| Magnesium                   | 14000           | 48                   | 100         | µg/L | 1   | 10/15/2020 12:14 PM |
| Potassium                   | 9700            | 850                  | 5000        | µg/L | 10  | 10/14/2020 04:38 PM |
| Sodium                      | 1500000         | 9600                 | 50000       | µg/L | 100 | 10/14/2020 06:48 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-003

Client Sample ID: OW-05S-LF-Q420  
 Collection Date: 10/8/2020 11:51:00 AM  
 Matrix: GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## DISSOLVED METALS BY ICP

## EPA 200.7

|                             |                 |      |       |                      |                     |
|-----------------------------|-----------------|------|-------|----------------------|---------------------|
| RunID: NV00922-ICP2_201014C | QC Batch: 82565 |      |       | PrepDate: 10/14/2020 | Analyst: DJ         |
| Sodium                      | 660000          | 4800 | 25000 | µg/L                 | 50                  |
|                             |                 |      |       |                      | 10/14/2020 06:51 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: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-004

**Client Sample ID:** OW-05D-Q420  
**Collection Date:** 10/8/2020 12:00:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## DISSOLVED METALS BY ICP

## EPA 200.7

| RunID: NV00922-ICP2_201015B | QC Batch: 82565 | PrepDate: 10/14/2020 | Analyst: DJ |      |     |                     |
|-----------------------------|-----------------|----------------------|-------------|------|-----|---------------------|
| Aluminum                    | ND              | 40                   | 50          | µg/L | 1   | 10/15/2020 12:19 PM |
| Boron                       | 1200            | 74                   | 100         | µg/L | 1   | 10/15/2020 12:19 PM |
| Calcium                     | 110000          | 85                   | 500         | µg/L | 1   | 10/15/2020 12:19 PM |
| Iron                        | 96              | 18                   | 20          | µg/L | 1   | 10/15/2020 12:19 PM |
| Magnesium                   | 30000           | 48                   | 100         | µg/L | 1   | 10/15/2020 12:19 PM |
| Potassium                   | 14000           | 850                  | 5000        | µg/L | 10  | 10/14/2020 04:48 PM |
| Sodium                      | 1600000         | 9600                 | 50000       | µg/L | 100 | 10/14/2020 07:35 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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## ASSET Laboratories

## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-005

**Client Sample ID:** MW-901-Q420  
**Collection Date:** 10/8/2020 2:21:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## DISSOLVED METALS BY ICP

## EPA 200.7

| RunID: NV00922-ICP2_201015B | QC Batch: 82565 | PrepDate: 10/14/2020 | Analyst: DJ |      |     |                     |
|-----------------------------|-----------------|----------------------|-------------|------|-----|---------------------|
| Aluminum                    | ND              | 40                   | 50          | µg/L | 1   | 10/15/2020 12:46 PM |
| Boron                       | 1200            | 74                   | 100         | µg/L | 1   | 10/15/2020 12:46 PM |
| Calcium                     | 120000          | 85                   | 500         | µg/L | 1   | 10/15/2020 12:46 PM |
| Iron                        | 120             | 18                   | 20          | µg/L | 1   | 10/15/2020 12:46 PM |
| Magnesium                   | 14000           | 48                   | 100         | µg/L | 1   | 10/15/2020 12:46 PM |
| Potassium                   | 8900            | 850                  | 5000        | µg/L | 10  | 10/14/2020 04:52 PM |
| Sodium                      | 1700000         | 9600                 | 50000       | µg/L | 100 | 10/14/2020 07:38 PM |

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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-006

**Client Sample ID:** OW-02D-Q420  
**Collection Date:** 10/8/2020 10:19:00 AM  
**Matrix:** GROUNDWATER

| Analyses                       | Result          | MDL  | PQL   | Qual      | Units      | DF          | Date Analyzed       |
|--------------------------------|-----------------|------|-------|-----------|------------|-------------|---------------------|
| <b>DISSOLVED METALS BY ICP</b> |                 |      |       |           |            |             |                     |
| <b>EPA 200.7</b>               |                 |      |       |           |            |             |                     |
| RunID: NV00922-ICP2_201014C    | QC Batch: 82565 |      |       | PrepDate: | 10/14/2020 | Analyst: DJ |                     |
| Sodium                         | 1600000         | 9600 | 50000 |           | µg/L       | 100         | 10/14/2020 07:41 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-007

**Client Sample ID:** OW-05M-LF-Q420  
**Collection Date:** 10/8/2020 1:03:00 PM  
**Matrix:** GROUNDWATER

| Analyses                       | Result          | MDL  | PQL                  | Qual | Units       | DF  | Date Analyzed       |
|--------------------------------|-----------------|------|----------------------|------|-------------|-----|---------------------|
| <b>DISSOLVED METALS BY ICP</b> |                 |      |                      |      |             |     |                     |
| <b>EPA 200.7</b>               |                 |      |                      |      |             |     |                     |
| RunID: NV00922-ICP2_201015B    | QC Batch: 82565 |      | PrepDate: 10/14/2020 |      | Analyst: DJ |     |                     |
| Aluminum                       | ND              | 40   | 50                   |      | µg/L        | 1   | 10/15/2020 12:51 PM |
| Boron                          | 1100            | 74   | 100                  |      | µg/L        | 1   | 10/15/2020 12:51 PM |
| Calcium                        | 97000           | 85   | 500                  |      | µg/L        | 1   | 10/15/2020 12:51 PM |
| Iron                           | 230             | 18   | 20                   |      | µg/L        | 1   | 10/15/2020 12:51 PM |
| Magnesium                      | 26000           | 48   | 100                  |      | µg/L        | 1   | 10/15/2020 12:51 PM |
| Potassium                      | 11000           | 850  | 5000                 |      | µg/L        | 10  | 10/14/2020 05:02 PM |
| Sodium                         | 1500000         | 9600 | 50000                |      | µg/L        | 100 | 10/14/2020 07:44 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: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-008

Client Sample ID: OW-02M-Q420  
 Collection Date: 10/8/2020 9:11:00 AM  
 Matrix: GROUNDWATER

| Analyses                    | Result          | MDL  | PQL   | Qual                 | Units | DF                  | Date Analyzed |
|-----------------------------|-----------------|------|-------|----------------------|-------|---------------------|---------------|
| DISSOLVED METALS BY ICP     |                 |      |       |                      |       |                     |               |
| EPA 200.7                   |                 |      |       |                      |       |                     |               |
| RunID: NV00922-ICP2_201014C | QC Batch: 82565 |      |       | PrepDate: 10/14/2020 |       | Analyst: DJ         |               |
| Sodium                      | 1600000         | 9600 | 50000 | µg/L                 | 100   | 10/14/2020 07:54 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-009

**Client Sample ID:** OW-02S-Q420  
**Collection Date:** 10/8/2020 10:57:00 AM  
**Matrix:** GROUNDWATER

| Analyses                       | Result          | MDL  | PQL                  | Qual | Units       | DF | Date Analyzed       |
|--------------------------------|-----------------|------|----------------------|------|-------------|----|---------------------|
| <b>DISSOLVED METALS BY ICP</b> |                 |      |                      |      |             |    |                     |
| <b>EPA 200.7</b>               |                 |      |                      |      |             |    |                     |
| RunID: NV00922-ICP2_201014C    | QC Batch: 82565 |      | PrepDate: 10/14/2020 |      | Analyst: DJ |    |                     |
| Sodium                         | 670000          | 4800 | 25000                |      | µg/L        | 50 | 10/14/2020 07:57 PM |

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



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## ASSET Laboratories

Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7\_WDPGEPPB

|                            |                        |                             |                    |                                  |                                                        |
|----------------------------|------------------------|-----------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>MB-82565</b> | SampType: <b>MBLK</b>  | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/14/2020</b>     | RunNo: <b>148030</b>                                   |
| Client ID: <b>PBW</b>      | Batch ID: <b>82565</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968738</b>                                  |
| Analyte                    | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Potassium                  | ND                     | 500                         |                    |                                  |                                                        |
| Sodium                     | ND                     | 500                         |                    |                                  |                                                        |

|                              |                        |                             |                    |                                  |                                                        |
|------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>LCS2-82565</b> | SampType: <b>LCS</b>   | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/14/2020</b>     | RunNo: <b>148030</b>                                   |
| Client ID: <b>LCSW</b>       | Batch ID: <b>82565</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968739</b>                                  |
| Analyte                      | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Potassium                    | 20073.996              | 500                         | 20000              | 0                                | 100 85 115                                             |
| Sodium                       | 20703.241              | 500                         | 20000              | 0                                | 104 85 115                                             |

|                                    |                        |                             |                    |                                  |                                                        |
|------------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042522-003B-MS2</b> | SampType: <b>MS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/14/2020</b>     | RunNo: <b>148030</b>                                   |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82565</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968779</b>                                  |
| Analyte                            | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Potassium                          | 37804.426              | 5000                        | 20000              | 14090                            | 119 75 125                                             |

|                                    |                        |                             |                    |                                  |                                                        |
|------------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042522-003B-MS2</b> | SampType: <b>MS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/14/2020</b>     | RunNo: <b>148030</b>                                   |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82565</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968780</b>                                  |
| Analyte                            | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Sodium                             | 673924.023             | 25000                       | 20000              | 658800                           | 75.7 75 125                                            |

|                                    |                        |                             |                    |                                  |                                                        |
|------------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042522-003B-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/14/2020</b>     | RunNo: <b>148030</b>                                   |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82565</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/14/2020</b> | SeqNo: <b>3968781</b>                                  |
| Analyte                            | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Potassium                          | 37693.360              | 5000                        | 20000              | 14090                            | 118 75 125 37800 0.294 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**  
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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.7\_WDPGEPPB

|                                    |            |                        |                             |             |                    |                                  |           |             |                       |          |      |
|------------------------------------|------------|------------------------|-----------------------------|-------------|--------------------|----------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: <b>N042522-003B-MSD</b> |            | SampType: <b>MSD</b>   | TestCode: <b>200.7_WDPG</b> |             | Units: <b>µg/L</b> | Prep Date: <b>10/14/2020</b>     |           |             | RunNo: <b>148030</b>  |          |      |
| Client ID: <b>ZZZZZZ</b>           |            | Batch ID: <b>82565</b> | TestNo: <b>EPA 200.7</b>    |             |                    | Analysis Date: <b>10/14/2020</b> |           |             | SeqNo: <b>3968782</b> |          |      |
| Analyte                            | Result     | PQL                    | SPK value                   | SPK Ref Val | %REC               | LowLimit                         | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Sodium                             | 644747.719 | 25000                  | 20000                       | 658800      | -70.2              | 75                               | 125       | 673900      | 4.43                  | 20       | S    |

|                            |                        |                             |                    |                                  |                       |          |           |             |      |          |      |
|----------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-82565</b> | SampType: <b>MBLK</b>  | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/14/2020</b>     | RunNo: <b>148037</b>  |          |           |             |      |          |      |
| Client ID: <b>PBW</b>      | Batch ID: <b>82565</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/15/2020</b> | SeqNo: <b>3968992</b> |          |           |             |      |          |      |
| Analyte                    | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Aluminum  
Boron  
Calcium  
Iron  
Magnesium

ND  
ND  
ND  
ND  
ND

50  
100  
500  
20  
100

| Sample ID: <b>N042522-001C-MS</b> | SampType: <b>MS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/14/2020</b>     | RunNo: <b>148037</b>  |          |           |             |      |          |      |
|-----------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82565</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/15/2020</b> | SeqNo: <b>3968997</b> |          |           |             |      |          |      |
| Analyte                           | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aluminum                          | 9512.506               | 50                          | 10000              | 0                                | 95.1                  | 75       | 125       |             |      |          |      |
| Boron                             | 6565.463               | 100                         | 5000               | 1080                             | 110                   | 75       | 125       |             |      |          |      |
| Calcium                           | 119408.234             | 500                         | 10000              | 101600                           | 178                   | 75       | 125       |             |      |          | S    |
| Iron                              | 262.442                | 20                          | 100.0              | 193.5                            | 69.0                  | 75       | 125       |             |      |          | S    |
| Magnesium                         | 33052.951              | 100                         | 10000              | 20520                            | 125                   | 75       | 125       |             |      |          | S    |

| Sample ID: <b>N042522-001C-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/14/2020</b>     | RunNo: <b>148037</b>  |          |           |             |       |          |      |
|------------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|-------|----------|------|
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82565</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/15/2020</b> | SeqNo: <b>3968998</b> |          |           |             |       |          |      |
| Analyte                            | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Aluminum                           | 9455.235               | 50                          | 10000              | 0                                | 94.6                  | 75       | 125       | 9513        | 0.604 | 20       |      |
| Boron                              | 6517.311               | 100                         | 5000               | 1080                             | 109                   | 75       | 125       | 6565        | 0.736 | 20       |      |
| Calcium                            | 118577.855             | 500                         | 10000              | 101600                           | 169                   | 75       | 125       | 119400      | 0.698 | 20       | S    |

### Qualifiers:

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

Calculations are based on raw values



**ASSET LABORATORIES**

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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.7\_WDPGEPPB

| Sample ID: <b>N042522-001C-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/14/2020</b>     | RunNo: <b>148037</b>  |          |           |             |       |          |      |
|------------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|-------|----------|------|
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82565</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/15/2020</b> | SeqNo: <b>3968998</b> |          |           |             |       |          |      |
| Analyte                            | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Iron                               | 243.237                | 20                          | 100.0              | 193.5                            | 49.8                  | 75       | 125       | 262.4       | 7.60  | 20       | S    |
| Magnesium                          | 32781.227              | 100                         | 10000              | 20520                            | 123                   | 75       | 125       | 33050       | 0.825 | 20       |      |

| Sample ID: <b>LCS1-82565</b> | SampType: <b>LCS</b>   | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date: <b>10/14/2020</b>     | RunNo: <b>148037</b>  |          |           |             |      |          |      |
|------------------------------|------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>LCSW</b>       | Batch ID: <b>82565</b> | TestNo: <b>EPA 200.7</b>    |                    | Analysis Date: <b>10/15/2020</b> | SeqNo: <b>3969004</b> |          |           |             |      |          |      |
| Analyte                      | Result                 | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aluminum                     | 10246.431              | 50                          | 10000              | 0                                | 102                   | 85       | 115       |             |      |          |      |
| Boron                        | 4526.766               | 100                         | 5000               | 0                                | 90.5                  | 85       | 115       |             |      |          |      |
| Calcium                      | 9800.808               | 500                         | 10000              | 0                                | 98.0                  | 85       | 115       |             |      |          |      |
| Iron                         | 90.522                 | 20                          | 100.0              | 0                                | 90.5                  | 85       | 115       |             |      |          |      |
| Magnesium                    | 10259.256              | 100                         | 10000              | 0                                | 103                   | 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 |                                      |   |                                                              |



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## ASSET Laboratories

Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.7\_WDPGEPPB

|                                   |                        |                             |                    |             |                                  |          |           |                      |                       |          |      |
|-----------------------------------|------------------------|-----------------------------|--------------------|-------------|----------------------------------|----------|-----------|----------------------|-----------------------|----------|------|
| Sample ID: <b>N042522-003B-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date:  |                                  |          |           | RunNo: <b>148030</b> |                       |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82565</b> | TestNo: <b>EPA 200.7</b>    |                    |             | Analysis Date: <b>10/14/2020</b> |          |           |                      | SeqNo: <b>3968777</b> |          |      |
| Analyte                           | Result                 | PQL                         | SPK value          | SPK Ref Val | %REC                             | LowLimit | HighLimit | RPD Ref Val          | %RPD                  | RPDLimit | Qual |
| Potassium                         | 38399.450              | 5000                        | 20000              | 14090       | 122                              | 80       | 120       |                      |                       |          | S    |

|                                   |                        |                             |                    |             |                                  |          |           |                      |                       |          |      |
|-----------------------------------|------------------------|-----------------------------|--------------------|-------------|----------------------------------|----------|-----------|----------------------|-----------------------|----------|------|
| Sample ID: <b>N042522-003B-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date:  |                                  |          |           | RunNo: <b>148030</b> |                       |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82565</b> | TestNo: <b>EPA 200.7</b>    |                    |             | Analysis Date: <b>10/14/2020</b> |          |           |                      | SeqNo: <b>3968778</b> |          |      |
| Analyte                           | Result                 | PQL                         | SPK value          | SPK Ref Val | %REC                             | LowLimit | HighLimit | RPD Ref Val          | %RPD                  | RPDLimit | Qual |
| Sodium                            | 668025.986             | 25000                       | 20000              | 658800      | 46.2                             | 80       | 120       |                      |                       |          | S    |

|                                   |                        |                             |                    |             |                                  |          |           |                      |                       |          |      |
|-----------------------------------|------------------------|-----------------------------|--------------------|-------------|----------------------------------|----------|-----------|----------------------|-----------------------|----------|------|
| Sample ID: <b>N042522-001C-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.7_WDPG</b> | Units: <b>µg/L</b> | Prep Date:  |                                  |          |           | RunNo: <b>148037</b> |                       |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82565</b> | TestNo: <b>EPA 200.7</b>    |                    |             | Analysis Date: <b>10/15/2020</b> |          |           |                      | SeqNo: <b>3968996</b> |          |      |
| Analyte                           | Result                 | PQL                         | SPK value          | SPK Ref Val | %REC                             | LowLimit | HighLimit | RPD Ref Val          | %RPD                  | RPDLimit | Qual |
| Aluminum                          | 9552.662               | 50                          | 10000              | 0           | 95.5                             | 80       | 120       |                      |                       |          |      |
| Boron                             | 6573.374               | 100                         | 5000               | 1080        | 110                              | 80       | 120       |                      |                       |          |      |
| Calcium                           | 119037.131             | 500                         | 10000              | 101600      | 174                              | 80       | 120       |                      |                       |          | S    |
| Iron                              | 258.417                | 20                          | 100.0              | 193.5       | 64.9                             | 80       | 120       |                      |                       |          | S    |
| Magnesium                         | 33233.152              | 100                         | 10000              | 20520       | 127                              | 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 |                                      |   |                                                              |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-001

**Client Sample ID:** CW-01D-LF-Q420  
**Collection Date:** 10/8/2020 2:10:00 PM  
**Matrix:** GROUNDWATER

| Analyses                         | Result          | MDL   | PQL                  | Qual | Units        | DF | Date Analyzed       |
|----------------------------------|-----------------|-------|----------------------|------|--------------|----|---------------------|
| <b>DISSOLVED METALS BY ICPMS</b> |                 |       |                      |      |              |    |                     |
| <b>EPA 200.8</b>                 |                 |       |                      |      |              |    |                     |
| RunID: NV00922-ICP8_201012B      | QC Batch: 82504 |       | PrepDate: 10/10/2020 |      | Analyst: CEI |    |                     |
| Antimony                         | ND              | 0.16  | 0.50                 |      | µg/L         | 1  | 10/12/2020 05:33 PM |
| Arsenic                          | 1.4             | 0.081 | 0.10                 |      | µg/L         | 1  | 10/30/2020 06:31 AM |
| Barium                           | 22              | 0.15  | 1.0                  |      | µg/L         | 1  | 10/12/2020 05:33 PM |
| Beryllium                        | ND              | 0.042 | 0.50                 |      | µg/L         | 1  | 10/12/2020 05:33 PM |
| Cadmium                          | ND              | 0.053 | 0.50                 |      | µg/L         | 1  | 10/12/2020 05:33 PM |
| Cobalt                           | 3.4             | 0.042 | 0.50                 |      | µg/L         | 1  | 10/12/2020 05:33 PM |
| Copper                           | ND              | 0.55  | 1.0                  |      | µg/L         | 1  | 10/12/2020 05:33 PM |
| Lead                             | ND              | 0.13  | 1.0                  |      | µg/L         | 1  | 10/12/2020 05:33 PM |
| Manganese                        | 7.5             | 0.26  | 0.50                 |      | µg/L         | 1  | 10/12/2020 05:33 PM |
| Molybdenum                       | 20              | 0.21  | 0.50                 |      | µg/L         | 1  | 10/12/2020 05:33 PM |
| Nickel                           | ND              | 0.26  | 1.0                  |      | µg/L         | 1  | 10/12/2020 05:33 PM |
| Selenium                         | 4.8             | 0.36  | 0.50                 |      | µg/L         | 1  | 10/30/2020 06:31 AM |
| Silver                           | ND              | 0.23  | 0.50                 |      | µg/L         | 1  | 10/12/2020 05:33 PM |
| Thallium                         | ND              | 0.19  | 0.50                 |      | µg/L         | 1  | 10/30/2020 06:31 AM |
| Vanadium                         | 2.4             | 0.28  | 1.0                  |      | µg/L         | 1  | 10/12/2020 05:33 PM |
| Zinc                             | ND              | 2.3   | 10                   |      | µg/L         | 1  | 10/12/2020 05:33 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: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-002

**Client Sample ID:** CW-01M-LF-Q420  
**Collection Date:** 10/8/2020 2:11:00 PM  
**Matrix:** GROUNDWATER

| Analyses                         | Result          | MDL   | PQL                  | Qual | Units        | DF | Date Analyzed       |
|----------------------------------|-----------------|-------|----------------------|------|--------------|----|---------------------|
| <b>DISSOLVED METALS BY ICPMS</b> |                 |       |                      |      |              |    |                     |
| <b>EPA 200.8</b>                 |                 |       |                      |      |              |    |                     |
| RunID: NV00922-ICP8_201012B      | QC Batch: 82504 |       | PrepDate: 10/10/2020 |      | Analyst: CEI |    |                     |
| Antimony                         | ND              | 0.16  | 0.50                 |      | µg/L         | 1  | 10/12/2020 06:28 PM |
| Arsenic                          | 1.3             | 0.081 | 0.10                 |      | µg/L         | 1  | 10/30/2020 06:59 AM |
| Barium                           | 82              | 0.15  | 1.0                  |      | µg/L         | 1  | 10/12/2020 06:28 PM |
| Beryllium                        | ND              | 0.042 | 0.50                 |      | µg/L         | 1  | 10/12/2020 06:28 PM |
| Cadmium                          | ND              | 0.053 | 0.50                 |      | µg/L         | 1  | 10/12/2020 06:28 PM |
| Cobalt                           | ND              | 0.042 | 0.50                 |      | µg/L         | 1  | 10/12/2020 06:28 PM |
| Copper                           | ND              | 0.55  | 1.0                  |      | µg/L         | 1  | 10/12/2020 06:28 PM |
| Lead                             | ND              | 0.13  | 1.0                  |      | µg/L         | 1  | 10/12/2020 06:28 PM |
| Manganese                        | ND              | 0.26  | 0.50                 |      | µg/L         | 1  | 10/12/2020 06:28 PM |
| Molybdenum                       | 17              | 0.21  | 0.50                 |      | µg/L         | 1  | 10/12/2020 06:28 PM |
| Nickel                           | ND              | 0.26  | 1.0                  |      | µg/L         | 1  | 10/12/2020 06:28 PM |
| Selenium                         | 4.6             | 0.36  | 0.50                 |      | µg/L         | 1  | 10/30/2020 06:59 AM |
| Silver                           | ND              | 0.23  | 0.50                 |      | µg/L         | 1  | 10/12/2020 06:28 PM |
| Thallium                         | ND              | 0.19  | 0.50                 |      | µg/L         | 1  | 10/30/2020 06:59 AM |
| Vanadium                         | 2.5             | 0.28  | 1.0                  |      | µg/L         | 1  | 10/12/2020 06:28 PM |
| Zinc                             | ND              | 2.3   | 10                   |      | µg/L         | 1  | 10/12/2020 06:28 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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-003

Client Sample ID: OW-05S-LF-Q420  
 Collection Date: 10/8/2020 11:51:00 AM  
 Matrix: GROUNDWATER

| Analyses                         | Result          | MDL  | PQL                  | Qual | Units        | DF | Date Analyzed       |
|----------------------------------|-----------------|------|----------------------|------|--------------|----|---------------------|
| <b>DISSOLVED METALS BY ICPMS</b> |                 |      |                      |      |              |    |                     |
| <b>EPA 200.8</b>                 |                 |      |                      |      |              |    |                     |
| RunID: NV00922-ICP8_201012B      | QC Batch: 82504 |      | PrepDate: 10/10/2020 |      | Analyst: CEI |    |                     |
| Molybdenum                       | 10              | 0.21 | 0.50                 |      | µg/L         | 1  | 10/12/2020 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-004

**Client Sample ID:** OW-05D-Q420  
**Collection Date:** 10/8/2020 12:00:00 PM  
**Matrix:** GROUNDWATER

| Analyses                         | Result          | MDL   | PQL                  | Qual | Units        | DF | Date Analyzed       |
|----------------------------------|-----------------|-------|----------------------|------|--------------|----|---------------------|
| <b>DISSOLVED METALS BY ICPMS</b> |                 |       |                      |      |              |    |                     |
| <b>EPA 200.8</b>                 |                 |       |                      |      |              |    |                     |
| RunID: NV00922-ICP8_201012B      | QC Batch: 82504 |       | PrepDate: 10/10/2020 |      | Analyst: CEI |    |                     |
| Antimony                         | 0.69            | 0.16  | 0.50                 |      | µg/L         | 1  | 10/12/2020 06:56 PM |
| Arsenic                          | 3.0             | 0.081 | 0.10                 |      | µg/L         | 1  | 10/30/2020 07:03 AM |
| Barium                           | 25              | 0.15  | 1.0                  |      | µg/L         | 1  | 10/12/2020 06:56 PM |
| Beryllium                        | ND              | 0.042 | 0.50                 |      | µg/L         | 1  | 10/12/2020 06:56 PM |
| Cadmium                          | ND              | 0.053 | 0.50                 |      | µg/L         | 1  | 10/12/2020 06:56 PM |
| Cobalt                           | 5.3             | 0.042 | 0.50                 |      | µg/L         | 1  | 10/12/2020 06:56 PM |
| Copper                           | ND              | 0.55  | 1.0                  |      | µg/L         | 1  | 10/12/2020 06:56 PM |
| Lead                             | ND              | 0.13  | 1.0                  |      | µg/L         | 1  | 10/12/2020 06:56 PM |
| Manganese                        | 0.58            | 0.26  | 0.50                 |      | µg/L         | 1  | 10/12/2020 06:56 PM |
| Molybdenum                       | 26              | 0.21  | 0.50                 |      | µg/L         | 1  | 10/12/2020 06:56 PM |
| Nickel                           | ND              | 0.26  | 1.0                  |      | µg/L         | 1  | 10/12/2020 06:56 PM |
| Selenium                         | 4.3             | 0.36  | 0.50                 |      | µg/L         | 1  | 10/30/2020 07:03 AM |
| Silver                           | ND              | 0.23  | 0.50                 |      | µg/L         | 1  | 10/12/2020 06:56 PM |
| Thallium                         | ND              | 0.19  | 0.50                 |      | µg/L         | 1  | 10/30/2020 07:03 AM |
| Vanadium                         | 2.3             | 0.28  | 1.0                  |      | µg/L         | 1  | 10/12/2020 06:56 PM |
| Zinc                             | ND              | 2.3   | 10                   |      | µg/L         | 1  | 10/12/2020 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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-005

**Client Sample ID:** MW-901-Q420  
**Collection Date:** 10/8/2020 2:21:00 PM  
**Matrix:** GROUNDWATER

| Analyses                         | Result          | MDL   | PQL                  | Qual | Units        | DF | Date Analyzed       |
|----------------------------------|-----------------|-------|----------------------|------|--------------|----|---------------------|
| <b>DISSOLVED METALS BY ICPMS</b> |                 |       |                      |      |              |    |                     |
| <b>EPA 200.8</b>                 |                 |       |                      |      |              |    |                     |
| RunID: NV00922-ICP8_201012B      | QC Batch: 82504 |       | PrepDate: 10/10/2020 |      | Analyst: CEI |    |                     |
| Antimony                         | ND              | 0.16  | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:28 PM |
| Arsenic                          | 1.3             | 0.081 | 0.10                 |      | µg/L         | 1  | 10/30/2020 07:08 AM |
| Barium                           | 81              | 0.15  | 1.0                  |      | µg/L         | 1  | 10/12/2020 07:28 PM |
| Beryllium                        | ND              | 0.042 | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:28 PM |
| Cadmium                          | ND              | 0.053 | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:28 PM |
| Cobalt                           | ND              | 0.042 | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:28 PM |
| Copper                           | ND              | 0.55  | 1.0                  |      | µg/L         | 1  | 10/12/2020 07:28 PM |
| Lead                             | ND              | 0.13  | 1.0                  |      | µg/L         | 1  | 10/12/2020 07:28 PM |
| Manganese                        | ND              | 0.26  | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:28 PM |
| Molybdenum                       | 17              | 0.21  | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:28 PM |
| Nickel                           | ND              | 0.26  | 1.0                  |      | µg/L         | 1  | 10/12/2020 07:28 PM |
| Selenium                         | 4.7             | 0.36  | 0.50                 |      | µg/L         | 1  | 10/30/2020 07:08 AM |
| Silver                           | ND              | 0.23  | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:28 PM |
| Thallium                         | ND              | 0.19  | 0.50                 |      | µg/L         | 1  | 10/30/2020 07:08 AM |
| Vanadium                         | 2.5             | 0.28  | 1.0                  |      | µg/L         | 1  | 10/12/2020 07:28 PM |
| Zinc                             | ND              | 2.3   | 10                   |      | µg/L         | 1  | 10/12/2020 07:28 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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-006

**Client Sample ID:** OW-02D-Q420  
**Collection Date:** 10/8/2020 10:19:00 AM  
**Matrix:** GROUNDWATER

| Analyses                         | Result          | MDL  | PQL                  | Qual | Units        | DF | Date Analyzed       |
|----------------------------------|-----------------|------|----------------------|------|--------------|----|---------------------|
| <b>DISSOLVED METALS BY ICPMS</b> |                 |      |                      |      |              |    |                     |
| <b>EPA 200.8</b>                 |                 |      |                      |      |              |    |                     |
| RunID: NV00922-ICP8_201012B      | QC Batch: 82504 |      | PrepDate: 10/10/2020 |      | Analyst: CEI |    |                     |
| Molybdenum                       | 23              | 0.21 | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:42 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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## ASSET Laboratories

## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-007

**Client Sample ID:** OW-05M-LF-Q420  
**Collection Date:** 10/8/2020 1:03:00 PM  
**Matrix:** GROUNDWATER

| Analyses                         | Result          | MDL   | PQL                  | Qual | Units        | DF | Date Analyzed       |
|----------------------------------|-----------------|-------|----------------------|------|--------------|----|---------------------|
| <b>DISSOLVED METALS BY ICPMS</b> |                 |       |                      |      |              |    |                     |
| <b>EPA 200.8</b>                 |                 |       |                      |      |              |    |                     |
| RunID: NV00922-ICP8_201012B      | QC Batch: 82504 |       | PrepDate: 10/10/2020 |      | Analyst: CEI |    |                     |
| Antimony                         | ND              | 0.16  | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:56 PM |
| Arsenic                          | 1.0             | 0.081 | 0.10                 |      | µg/L         | 1  | 10/30/2020 07:13 AM |
| Barium                           | 33              | 0.15  | 1.0                  |      | µg/L         | 1  | 10/12/2020 07:56 PM |
| Beryllium                        | ND              | 0.042 | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:56 PM |
| Cadmium                          | ND              | 0.053 | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:56 PM |
| Cobalt                           | 3.3             | 0.042 | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:56 PM |
| Copper                           | ND              | 0.55  | 1.0                  |      | µg/L         | 1  | 10/12/2020 07:56 PM |
| Lead                             | ND              | 0.13  | 1.0                  |      | µg/L         | 1  | 10/12/2020 07:56 PM |
| Manganese                        | 16              | 0.26  | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:56 PM |
| Molybdenum                       | 23              | 0.21  | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:56 PM |
| Nickel                           | ND              | 0.26  | 1.0                  |      | µg/L         | 1  | 10/12/2020 07:56 PM |
| Selenium                         | 4.6             | 0.36  | 0.50                 |      | µg/L         | 1  | 10/30/2020 07:13 AM |
| Silver                           | ND              | 0.23  | 0.50                 |      | µg/L         | 1  | 10/12/2020 07:56 PM |
| Thallium                         | ND              | 0.19  | 0.50                 |      | µg/L         | 1  | 10/30/2020 07:13 AM |
| Vanadium                         | 2.0             | 0.28  | 1.0                  |      | µg/L         | 1  | 10/12/2020 07:56 PM |
| Zinc                             | ND              | 2.3   | 10                   |      | µg/L         | 1  | 10/12/2020 07:56 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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-008

Client Sample ID: OW-02M-Q420  
 Collection Date: 10/8/2020 9:11:00 AM  
 Matrix: GROUNDWATER

| Analyses                    | Result          | MDL  | PQL                  | Qual | Units        | DF | Date Analyzed       |
|-----------------------------|-----------------|------|----------------------|------|--------------|----|---------------------|
| DISSOLVED METALS BY ICPMS   |                 |      |                      |      |              |    |                     |
| EPA 200.8                   |                 |      |                      |      |              |    |                     |
| RunID: NV00922-ICP8_201012B | QC Batch: 82504 |      | PrepDate: 10/10/2020 |      | Analyst: CEI |    |                     |
| Molybdenum                  | 20              | 0.21 | 0.50                 |      | µg/L         | 1  | 10/12/2020 08:19 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-009

**Client Sample ID:** OW-02S-Q420  
**Collection Date:** 10/8/2020 10:57:00 AM  
**Matrix:** GROUNDWATER

| Analyses                         | Result          | MDL  | PQL                  | Qual | Units        | DF | Date Analyzed       |
|----------------------------------|-----------------|------|----------------------|------|--------------|----|---------------------|
| <b>DISSOLVED METALS BY ICPMS</b> |                 |      |                      |      |              |    |                     |
| <b>EPA 200.8</b>                 |                 |      |                      |      |              |    |                     |
| RunID: NV00922-ICP8_201012B      | QC Batch: 82504 |      | PrepDate: 10/10/2020 |      | Analyst: CEI |    |                     |
| Molybdenum                       | 22              | 0.21 | 0.50                 |      | µg/L         | 1  | 10/12/2020 08:33 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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## ASSET Laboratories

Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8\_WDISS\_TPK

| Sample ID: <b>MB-82504</b> | SampType: <b>MBLK</b>  | TestCode: <b>200.8_WDISS</b> Units: <b>µg/L</b> |           |             |      | Prep Date: <b>10/10/2020</b>     |           |             |      | RunNo: <b>148068</b>  |      |  |
|----------------------------|------------------------|-------------------------------------------------|-----------|-------------|------|----------------------------------|-----------|-------------|------|-----------------------|------|--|
| Client ID: <b>PBW</b>      | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>                        |           |             |      | Analysis Date: <b>10/12/2020</b> |           |             |      | SeqNo: <b>3970679</b> |      |  |
| Analyte                    | Result                 | PQL                                             | SPK value | SPK Ref Val | %REC | LowLimit                         | HighLimit | RPD Ref Val | %RPD | RPDLimit              | Qual |  |
| Antimony                   | ND                     | 0.50                                            |           |             |      |                                  |           |             |      |                       |      |  |
| Barium                     | ND                     | 1.0                                             |           |             |      |                                  |           |             |      |                       |      |  |
| Beryllium                  | ND                     | 0.50                                            |           |             |      |                                  |           |             |      |                       |      |  |
| Cadmium                    | ND                     | 0.50                                            |           |             |      |                                  |           |             |      |                       |      |  |
| Cobalt                     | ND                     | 0.50                                            |           |             |      |                                  |           |             |      |                       |      |  |
| Copper                     | ND                     | 1.0                                             |           |             |      |                                  |           |             |      |                       |      |  |
| Lead                       | ND                     | 1.0                                             |           |             |      |                                  |           |             |      |                       |      |  |
| Manganese                  | ND                     | 0.50                                            |           |             |      |                                  |           |             |      |                       |      |  |
| Molybdenum                 | ND                     | 0.50                                            |           |             |      |                                  |           |             |      |                       |      |  |
| Nickel                     | ND                     | 1.0                                             |           |             |      |                                  |           |             |      |                       |      |  |
| Silver                     | ND                     | 0.50                                            |           |             |      |                                  |           |             |      |                       |      |  |
| Vanadium                   | ND                     | 1.0                                             |           |             |      |                                  |           |             |      |                       |      |  |
| Zinc                       | ND                     | 10                                              |           |             |      |                                  |           |             |      |                       |      |  |

| Sample ID: <b>LCS-82504</b> | SampType: <b>LCS</b>   | TestCode: <b>200.8_WDISS</b> Units: <b>µg/L</b> |           |             |      | Prep Date: <b>10/10/2020</b>     |           |             | RunNo: <b>148068</b>  |          |      |
|-----------------------------|------------------------|-------------------------------------------------|-----------|-------------|------|----------------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>                        |           |             |      | Analysis Date: <b>10/12/2020</b> |           |             | SeqNo: <b>3970680</b> |          |      |
| Analyte                     | Result                 | PQL                                             | SPK value | SPK Ref Val | %REC | LowLimit                         | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Antimony                    | 10.563                 | 0.50                                            | 10.00     | 0           | 106  | 85                               | 115       |             |                       |          |      |
| Barium                      | 9.742                  | 1.0                                             | 10.00     | 0           | 97.4 | 85                               | 115       |             |                       |          |      |
| Beryllium                   | 9.761                  | 0.50                                            | 10.00     | 0           | 97.6 | 85                               | 115       |             |                       |          |      |
| Cadmium                     | 10.167                 | 0.50                                            | 10.00     | 0           | 102  | 85                               | 115       |             |                       |          |      |
| Cobalt                      | 9.794                  | 0.50                                            | 10.00     | 0           | 97.9 | 85                               | 115       |             |                       |          |      |
| Copper                      | 9.884                  | 1.0                                             | 10.00     | 0           | 98.8 | 85                               | 115       |             |                       |          |      |
| Lead                        | 9.965                  | 1.0                                             | 10.00     | 0           | 99.7 | 85                               | 115       |             |                       |          |      |
| Manganese                   | 98.675                 | 0.50                                            | 100.0     | 0           | 98.7 | 85                               | 115       |             |                       |          |      |
| Molybdenum                  | 9.902                  | 0.50                                            | 10.00     | 0           | 99.0 | 85                               | 115       |             |                       |          |      |
| Nickel                      | 10.082                 | 1.0                                             | 10.00     | 0           | 101  | 85                               | 115       |             |                       |          |      |

## Qualifiers:

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

Calculations are based on raw values



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.8\_WDISS\_TPK

| Sample ID: <b>LCS-82504</b> | SampType: <b>LCS</b>   | TestCode: <b>200.8_WDISS</b> Units: <b>µg/L</b> |           |             |      | Prep Date: <b>10/10/2020</b>     |           |             | RunNo: <b>148068</b>  |          |      |
|-----------------------------|------------------------|-------------------------------------------------|-----------|-------------|------|----------------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>                        |           |             |      | Analysis Date: <b>10/12/2020</b> |           |             | SeqNo: <b>3970680</b> |          |      |
| Analyte                     | Result                 | PQL                                             | SPK value | SPK Ref Val | %REC | LowLimit                         | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Silver                      | 10.438                 | 0.50                                            | 10.00     | 0           | 104  | 85                               | 115       |             |                       |          |      |
| Vanadium                    | 9.724                  | 1.0                                             | 10.00     | 0           | 97.2 | 85                               | 115       |             |                       |          |      |
| Zinc                        | 10.229                 | 10                                              | 10.00     | 0           | 102  | 85                               | 115       |             |                       |          |      |

|                            |                 |                                   |           |             |      |                           |           |             |                |          |      |
|----------------------------|-----------------|-----------------------------------|-----------|-------------|------|---------------------------|-----------|-------------|----------------|----------|------|
| Sample ID: N042508-001B-MS | SampType: MS    | TestCode: 200.8_WDISS Units: µg/L |           |             |      | Prep Date: 10/10/2020     |           |             | RunNo: 148068  |          |      |
| Client ID: ZZZZZZ          | Batch ID: 82504 | TestNo: EPA 200.8                 |           |             |      | Analysis Date: 10/12/2020 |           |             | SeqNo: 3970688 |          |      |
| Analyte                    | Result          | PQL                               | SPK value | SPK Ref Val | %REC | LowLimit                  | HighLimit | RPD Ref Val | %RPD           | RPDLimit | Qual |
| Antimony                   | 11.123          | 0.50                              | 10.00     | 0           | 111  | 75                        | 125       |             |                |          |      |
| Barium                     | 41.352          | 1.0                               | 10.00     | 32.36       | 89.9 | 75                        | 125       |             |                |          |      |
| Beryllium                  | 7.106           | 0.50                              | 10.00     | 0           | 71.1 | 75                        | 125       |             |                |          | S    |
| Cadmium                    | 10.202          | 0.50                              | 10.00     | 0           | 102  | 75                        | 125       |             |                |          |      |
| Cobalt                     | 9.114           | 0.50                              | 10.00     | 0.04969     | 90.6 | 75                        | 125       |             |                |          |      |
| Copper                     | 9.340           | 1.0                               | 10.00     | 0           | 93.4 | 75                        | 125       |             |                |          |      |
| Lead                       | 10.593          | 1.0                               | 10.00     | 0           | 106  | 75                        | 125       |             |                |          |      |
| Manganese                  | 112.526         | 0.50                              | 100.0     | 18.93       | 93.6 | 75                        | 125       |             |                |          |      |
| Molybdenum                 | 33.828          | 0.50                              | 10.00     | 22.75       | 111  | 75                        | 125       |             |                |          |      |
| Nickel                     | ND              | 1.0                               | 10.00     | 0           | 0    | 75                        | 125       |             |                |          | S    |
| Silver                     | 10.225          | 0.50                              | 10.00     | 0           | 102  | 75                        | 125       |             |                |          |      |
| Vanadium                   | 17.758          | 1.0                               | 10.00     | 7.946       | 98.1 | 75                        | 125       |             |                |          |      |
| Zinc                       | 3.784           | 10                                | 10.00     | 0           | 37.8 | 75                        | 125       |             |                |          | S    |

| Sample ID: <b>N042508-001B-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>200.8_WDISS</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148068</b>  |          |           |             |       |          |      |
|------------------------------------|------------------------|------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|-------|----------|------|
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     |                    | Analysis Date: <b>10/12/2020</b> | SeqNo: <b>3970693</b> |          |           |             |       |          |      |
| Analyte                            | Result                 | PQL                          | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Antimony                           | 11.455                 | 0.50                         | 10.00              | 0                                | 115                   | 75       | 125       | 11.12       | 2.94  | 20       |      |
| Barium                             | 41.037                 | 1.0                          | 10.00              | 32.36                            | 86.8                  | 75       | 125       | 41.35       | 0.765 | 20       |      |
| Beryllium                          | 7.056                  | 0.50                         | 10.00              | 0                                | 70.6                  | 75       | 125       | 7.106       | 0.703 | 20       | S    |
| Cadmium                            | 10.147                 | 0.50                         | 10.00              | 0                                | 101                   | 75       | 125       | 10.20       | 0.535 | 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 |                                      |   |                                                              |



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.8\_WDISS\_TPK

| Sample ID: <b>N042508-001B-MSD</b> |         | SampType: <b>MSD</b>   | TestCode: <b>200.8_WDISS</b> Units: <b>µg/L</b> |             |      | Prep Date: <b>10/10/2020</b>     |           |             | RunNo: <b>148068</b>  |          |      |
|------------------------------------|---------|------------------------|-------------------------------------------------|-------------|------|----------------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: <b>ZZZZZZ</b>           |         | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>                        |             |      | Analysis Date: <b>10/12/2020</b> |           |             | SeqNo: <b>3970693</b> |          |      |
| Analyte                            | Result  | PQL                    | SPK value                                       | SPK Ref Val | %REC | LowLimit                         | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Cobalt                             | 9.213   | 0.50                   | 10.00                                           | 0.04969     | 91.6 | 75                               | 125       | 9.114       | 1.08                  | 20       |      |
| Copper                             | 9.326   | 1.0                    | 10.00                                           | 0           | 93.3 | 75                               | 125       | 9.340       | 0.147                 | 20       |      |
| Lead                               | 10.730  | 1.0                    | 10.00                                           | 0           | 107  | 75                               | 125       | 10.59       | 1.28                  | 20       |      |
| Manganese                          | 113.613 | 0.50                   | 100.0                                           | 18.93       | 94.7 | 75                               | 125       | 112.5       | 0.961                 | 20       |      |
| Molybdenum                         | 32.838  | 0.50                   | 10.00                                           | 22.75       | 101  | 75                               | 125       | 33.83       | 2.97                  | 20       |      |
| Nickel                             | ND      | 1.0                    | 10.00                                           | 0           | 0    | 75                               | 125       | 0           | 0                     | 20       | S    |
| Silver                             | 10.102  | 0.50                   | 10.00                                           | 0           | 101  | 75                               | 125       | 10.22       | 1.21                  | 20       |      |
| Vanadium                           | 17.900  | 1.0                    | 10.00                                           | 7.946       | 99.5 | 75                               | 125       | 17.76       | 0.798                 | 20       |      |
| Zinc                               | 3.836   | 10                     | 10.00                                           | 0           | 38.4 | 75                               | 125       | 3.784       | 0                     | 20       | S    |

| Sample ID: <b>N042522-001C-MS</b> |         | SampType: <b>MS</b>    | TestCode: <b>200.8_WDISS</b> Units: <b>µg/L</b> |             |      | Prep Date: <b>10/10/2020</b>     |           |             | RunNo: <b>148068</b>  |          |      |
|-----------------------------------|---------|------------------------|-------------------------------------------------|-------------|------|----------------------------------|-----------|-------------|-----------------------|----------|------|
| Client ID: <b>ZZZZZZ</b>          |         | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>                        |             |      | Analysis Date: <b>10/12/2020</b> |           |             | SeqNo: <b>3970738</b> |          |      |
| Analyte                           | Result  | PQL                    | SPK value                                       | SPK Ref Val | %REC | LowLimit                         | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Antimony                          | 11.423  | 0.50                   | 10.00                                           | 0           | 114  | 75                               | 125       |             |                       |          |      |
| Barium                            | 32.092  | 1.0                    | 10.00                                           | 22.08       | 100  | 75                               | 125       |             |                       |          |      |
| Beryllium                         | 7.049   | 0.50                   | 10.00                                           | 0           | 70.5 | 75                               | 125       |             |                       |          | S    |
| Cadmium                           | 10.559  | 0.50                   | 10.00                                           | 0           | 106  | 75                               | 125       |             |                       |          |      |
| Cobalt                            | 12.648  | 0.50                   | 10.00                                           | 3.398       | 92.5 | 75                               | 125       |             |                       |          |      |
| Copper                            | 9.197   | 1.0                    | 10.00                                           | 0           | 92.0 | 75                               | 125       |             |                       |          |      |
| Lead                              | 10.820  | 1.0                    | 10.00                                           | 0           | 108  | 75                               | 125       |             |                       |          |      |
| Manganese                         | 105.110 | 0.50                   | 100.0                                           | 7.543       | 97.6 | 75                               | 125       |             |                       |          |      |
| Molybdenum                        | 31.733  | 0.50                   | 10.00                                           | 19.52       | 122  | 75                               | 125       |             |                       |          |      |
| Nickel                            | ND      | 1.0                    | 10.00                                           | 0           | 0    | 75                               | 125       |             |                       |          | S    |
| Silver                            | 10.070  | 0.50                   | 10.00                                           | 0           | 101  | 75                               | 125       |             |                       |          |      |
| Vanadium                          | 12.722  | 1.0                    | 10.00                                           | 2.400       | 103  | 75                               | 125       |             |                       |          |      |
| Zinc                              | 3.452   | 10                     | 10.00                                           | 0           | 34.5 | 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 |                                      |   |                                                              |



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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.8\_WDISS\_TPK

| Sample ID: <b>MB-82504</b> | SampType: <b>MBLK</b>  | TestCode: <b>200.8_WDISS</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148363</b>  |          |           |             |      |          |      |
|----------------------------|------------------------|------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>PBW</b>      | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     |                    | Analysis Date: <b>10/30/2020</b> | SeqNo: <b>3985811</b> |          |           |             |      |          |      |
| Analyte                    | Result                 | PQL                          | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                    | ND                     | 0.10                         |                    |                                  |                       |          |           |             |      |          |      |
| Selenium                   | ND                     | 0.50                         |                    |                                  |                       |          |           |             |      |          |      |
| Thallium                   | ND                     | 0.50                         |                    |                                  |                       |          |           |             |      |          |      |

| Sample ID: <b>LCS-82504</b> | SampType: <b>LCS</b>   | TestCode: <b>200.8_WDISS</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148363</b>  |          |           |             |      |          |      |
|-----------------------------|------------------------|------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>LCSW</b>      | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     |                    | Analysis Date: <b>10/30/2020</b> | SeqNo: <b>3985812</b> |          |           |             |      |          |      |
| Analyte                     | Result                 | PQL                          | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                     | 10.496                 | 0.10                         | 10.00              | 0                                | 105                   | 85       | 115       |             |      |          |      |
| Selenium                    | 10.140                 | 0.50                         | 10.00              | 0                                | 101                   | 85       | 115       |             |      |          |      |
| Thallium                    | 9.722                  | 0.50                         | 10.00              | 0                                | 97.2                  | 85       | 115       |             |      |          |      |

|                            |                 |                       |             |                           |                |          |           |             |      |          |      |
|----------------------------|-----------------|-----------------------|-------------|---------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: N042508-001B-MS | SampType: MS    | TestCode: 200.8_WDISS | Units: µg/L | Prep Date: 10/10/2020     | RunNo: 148363  |          |           |             |      |          |      |
| Client ID: ZZZZZZ          | Batch ID: 82504 | TestNo: EPA 200.8     |             | Analysis Date: 10/30/2020 | SeqNo: 3985821 |          |           |             |      |          |      |
| Analyte                    | Result          | PQL                   | SPK value   | SPK Ref Val               | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                    | 14.481          | 0.10                  | 10.00       | 3.154                     | 113            | 75       | 125       |             |      |          |      |
| Selenium                   | 15.263          | 0.50                  | 10.00       | 4.744                     | 105            | 75       | 125       |             |      |          |      |
| Thallium                   | 9.218           | 0.50                  | 10.00       | 0                         | 92.2           | 75       | 125       |             |      |          |      |

| Sample ID: <b>N042508-001B-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>200.8_WDISS</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148363</b>  |          |           |             |       |          |      |
|------------------------------------|------------------------|------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|-------|----------|------|
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     |                    | Analysis Date: <b>10/30/2020</b> | SeqNo: <b>3985822</b> |          |           |             |       |          |      |
| Analyte                            | Result                 | PQL                          | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Arsenic                            | 14.762                 | 0.10                         | 10.00              | 3.154                            | 116                   | 75       | 125       | 14.48       | 1.92  | 20       |      |
| Selenium                           | 15.436                 | 0.50                         | 10.00              | 4.744                            | 107                   | 75       | 125       | 15.26       | 1.13  | 20       |      |
| Thallium                           | 9.257                  | 0.50                         | 10.00              | 0                                | 92.6                  | 75       | 125       | 9.218       | 0.424 | 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**

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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.8\_WDISS\_TPK

| Sample ID: <b>N042522-001C-MS</b> | SampType: <b>MS</b>    | TestCode: <b>200.8_WDISS</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148363</b>  |          |           |             |      |          |      |
|-----------------------------------|------------------------|------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     |                    | Analysis Date: <b>10/30/2020</b> | SeqNo: <b>3985832</b> |          |           |             |      |          |      |
| Analyte                           | Result                 | PQL                          | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                           | 12.928                 | 0.10                         | 10.00              | 1.358                            | 116                   | 75       | 125       |             |      |          |      |
| Selenium                          | 15.797                 | 0.50                         | 10.00              | 4.826                            | 110                   | 75       | 125       |             |      |          |      |
| Thallium                          | 9.163                  | 0.50                         | 10.00              | 0                                | 91.6                  | 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 |                                      |   |                                                              |



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## ASSET Laboratories

Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8\_WDISS\_TPK

| Sample ID: <b>N042508-001B-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.8_WDISS</b> | Units: <b>µg/L</b>               | Prep Date:            | RunNo: <b>148068</b> |          |           |             |      |          |      |
|-----------------------------------|------------------------|------------------------------|----------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     | Analysis Date: <b>10/12/2020</b> | SeqNo: <b>3970685</b> |                      |          |           |             |      |          |      |
| Analyte                           | Result                 | PQL                          | SPK value                        | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Antimony                          | 10.998                 | 0.50                         | 10.00                            | 0                     | 110                  | 80       | 120       |             |      |          |      |
| Barium                            | 41.199                 | 1.0                          | 10.00                            | 32.36                 | 88.4                 | 80       | 120       |             |      |          |      |
| Beryllium                         | 7.017                  | 0.50                         | 10.00                            | 0                     | 70.2                 | 80       | 120       |             |      |          | S    |
| Cadmium                           | 10.137                 | 0.50                         | 10.00                            | 0                     | 101                  | 80       | 120       |             |      |          |      |
| Cobalt                            | 9.065                  | 0.50                         | 10.00                            | 0.04969               | 90.2                 | 80       | 120       |             |      |          |      |
| Copper                            | 9.295                  | 1.0                          | 10.00                            | 0                     | 93.0                 | 80       | 120       |             |      |          |      |
| Lead                              | 10.565                 | 1.0                          | 10.00                            | 0                     | 106                  | 80       | 120       |             |      |          |      |
| Manganese                         | 113.213                | 0.50                         | 100.0                            | 18.93                 | 94.3                 | 80       | 120       |             |      |          |      |
| Molybdenum                        | 33.648                 | 0.50                         | 10.00                            | 22.75                 | 109                  | 80       | 120       |             |      |          |      |
| Nickel                            | ND                     | 1.0                          | 10.00                            | 0                     | 0                    | 80       | 120       |             |      |          | S    |
| Silver                            | 10.227                 | 0.50                         | 10.00                            | 0                     | 102                  | 80       | 120       |             |      |          |      |
| Vanadium                          | 17.966                 | 1.0                          | 10.00                            | 7.946                 | 100                  | 80       | 120       |             |      |          |      |
| Zinc                              | 4.052                  | 10                           | 10.00                            | 0                     | 40.5                 | 80       | 120       |             |      |          | S    |

| Sample ID: <b>N042522-001C-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.8_WDISS</b> |           | Units: <b>µg/L</b> | Prep Date:                       |          |           | RunNo: <b>148068</b>  |      |          |      |
|-----------------------------------|------------------------|------------------------------|-----------|--------------------|----------------------------------|----------|-----------|-----------------------|------|----------|------|
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     |           |                    | Analysis Date: <b>10/12/2020</b> |          |           | SeqNo: <b>3970735</b> |      |          |      |
| Analyte                           | Result                 | PQL                          | SPK value | SPK Ref Val        | %REC                             | LowLimit | HighLimit | RPD Ref Val           | %RPD | RPDLimit | Qual |
| Antimony                          | 11.434                 | 0.50                         | 10.00     | 0                  | 114                              | 80       | 120       |                       |      |          |      |
| Barium                            | 31.626                 | 1.0                          | 10.00     | 22.08              | 95.5                             | 80       | 120       |                       |      |          |      |
| Beryllium                         | 7.183                  | 0.50                         | 10.00     | 0                  | 71.8                             | 80       | 120       |                       |      |          | S    |
| Cadmium                           | 10.339                 | 0.50                         | 10.00     | 0                  | 103                              | 80       | 120       |                       |      |          |      |
| Cobalt                            | 12.548                 | 0.50                         | 10.00     | 3.398              | 91.5                             | 80       | 120       |                       |      |          |      |
| Copper                            | 9.181                  | 1.0                          | 10.00     | 0                  | 91.8                             | 80       | 120       |                       |      |          |      |
| Lead                              | 10.813                 | 1.0                          | 10.00     | 0                  | 108                              | 80       | 120       |                       |      |          |      |
| Manganese                         | 104.061                | 0.50                         | 100.0     | 7.543              | 96.5                             | 80       | 120       |                       |      |          |      |
| Molybdenum                        | 31.776                 | 0.50                         | 10.00     | 19.52              | 123                              | 80       | 120       |                       |      |          | S    |
| Nickel                            | ND                     | 1.0                          | 10.00     | 0                  | 0                                | 80       | 120       |                       |      |          | S    |

## Qualifiers:

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



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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.8\_WDISS\_TPK

| Sample ID: <b>N042522-001C-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.8_WDISS</b> | Units: <b>µg/L</b>               | Prep Date:            | RunNo: <b>148068</b> |          |           |             |      |          |      |
|-----------------------------------|------------------------|------------------------------|----------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     | Analysis Date: <b>10/12/2020</b> | SeqNo: <b>3970735</b> |                      |          |           |             |      |          |      |
| Analyte                           | Result                 | PQL                          | SPK value                        | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Silver                            | 10.003                 | 0.50                         | 10.00                            | 0                     | 100                  | 80       | 120       |             |      |          |      |
| Vanadium                          | 12.552                 | 1.0                          | 10.00                            | 2.400                 | 102                  | 80       | 120       |             |      |          |      |
| Zinc                              | 3.474                  | 10                           | 10.00                            | 0                     | 34.7                 | 80       | 120       |             |      |          | S    |

| Sample ID: <b>N042508-001B-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.8_WDISS</b> | Units: <b>µg/L</b>               | Prep Date:            | RunNo: <b>148363</b> |          |           |             |      |          |      |
|-----------------------------------|------------------------|------------------------------|----------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     | Analysis Date: <b>10/30/2020</b> | SeqNo: <b>3985820</b> |                      |          |           |             |      |          |      |
| Analyte                           | Result                 | PQL                          | SPK value                        | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                           | 14.405                 | 0.10                         | 10.00                            | 3.154                 | 113                  | 80       | 120       |             |      |          |      |
| Selenium                          | 15.396                 | 0.50                         | 10.00                            | 4.744                 | 107                  | 80       | 120       |             |      |          |      |
| Thallium                          | 9.758                  | 0.50                         | 10.00                            | 0                     | 97.6                 | 80       | 120       |             |      |          |      |

| Sample ID: <b>N042522-001C-PS</b> | SampType: <b>PS</b>    | TestCode: <b>200.8_WDISS</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>148363</b>  |          |           |             |      |          |      |
|-----------------------------------|------------------------|------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>     |                    | Analysis Date: <b>10/30/2020</b> | SeqNo: <b>3985831</b> |          |           |             |      |          |      |
| Analyte                           | Result                 | PQL                          | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Arsenic                           | 13.088                 | 0.10                         | 10.00              | 1.358                            | 117                   | 80       | 120       |             |      |          |      |
| Selenium                          | 15.822                 | 0.50                         | 10.00              | 4.826                            | 110                   | 80       | 120       |             |      |          |      |
| Thallium                          | 9.005                  | 0.50                         | 10.00              | 0                                | 90.0                  | 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 |                                      |   |                                                              |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-001

**Client Sample ID:** CW-01D-LF-Q420  
**Collection Date:** 10/8/2020 2:10:00 PM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units      | DF           | Date Analyzed       |
|-----------------------------------|-------------------|-------|------|-----------|------------|--------------|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |            |              |                     |
| <b>EPA 218.6</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-IC7_201010A        | QC Batch: R147919 |       |      | PrepDate: |            | Analyst: RAB |                     |
| Hexavalent Chromium               | 0.59              | 0.033 | 0.20 |           | µg/L       | 1            | 10/10/2020 11:53 AM |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |            |              |                     |
| <b>EPA 200.8</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       |      | PrepDate: | 10/10/2020 | Analyst: CEI |                     |
| Chromium                          | 2.0               | 0.13  | 1.0  |           | µg/L       | 1            | 10/12/2020 05:33 PM |

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



**ASSET LABORATORIES**  
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## ASSET Laboratories

## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-002

**Client Sample ID:** CW-01M-LF-Q420  
**Collection Date:** 10/8/2020 2:11:00 PM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units      | DF           | Date Analyzed       |
|-----------------------------------|-------------------|-------|------|-----------|------------|--------------|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |            |              |                     |
| <b>EPA 218.6</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-IC7_201010A        | QC Batch: R147919 |       |      | PrepDate: |            | Analyst: RAB |                     |
| Hexavalent Chromium               | 0.60              | 0.033 | 0.20 |           | µg/L       | 1            | 10/10/2020 12:22 PM |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |            |              |                     |
| <b>EPA 200.8</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       |      | PrepDate: | 10/10/2020 | Analyst: CEI |                     |
| Chromium                          | ND                | 0.13  | 1.0  |           | µg/L       | 1            | 10/12/2020 06:28 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-003

**Client Sample ID:** OW-05S-LF-Q420  
**Collection Date:** 10/8/2020 11:51:00 AM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units      | DF | Date Analyzed       |
|-----------------------------------|-------------------|-------|------|-----------|------------|----|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |            |    |                     |
| <b>EPA 218.6</b>                  |                   |       |      |           |            |    |                     |
| RunID: NV00922-IC7_201010A        | QC Batch: R147919 |       |      | PrepDate: |            |    | Analyst: RAB        |
| Hexavalent Chromium               | 10                | 0.033 | 0.20 |           | µg/L       | 1  | 10/10/2020 10:53 AM |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |            |    |                     |
| <b>EPA 200.8</b>                  |                   |       |      |           |            |    |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       |      | PrepDate: | 10/10/2020 |    | Analyst: CEI        |
| Chromium                          | 10                | 0.13  | 1.0  |           | µg/L       | 1  | 10/12/2020 06:42 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-004

**Client Sample ID:** OW-05D-Q420  
**Collection Date:** 10/8/2020 12:00:00 PM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units      | DF           | Date Analyzed       |
|-----------------------------------|-------------------|-------|------|-----------|------------|--------------|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |            |              |                     |
| <b>EPA 218.6</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-IC7_201010A        | QC Batch: R147919 |       |      | PrepDate: |            | Analyst: RAB |                     |
| Hexavalent Chromium               | 0.63              | 0.033 | 0.20 |           | µg/L       | 1            | 10/10/2020 12:31 PM |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |            |              |                     |
| <b>EPA 200.8</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       |      | PrepDate: | 10/10/2020 | Analyst: CEI |                     |
| Chromium                          | 1.8               | 0.13  | 1.0  |           | µg/L       | 1            | 10/12/2020 06:56 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-005

**Client Sample ID:** MW-901-Q420  
**Collection Date:** 10/8/2020 2:21:00 PM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units      | DF           | Date Analyzed       |
|-----------------------------------|-------------------|-------|------|-----------|------------|--------------|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |            |              |                     |
| <b>EPA 218.6</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-IC7_201010A        | QC Batch: R147919 |       |      | PrepDate: |            | Analyst: RAB |                     |
| Hexavalent Chromium               | 0.58              | 0.033 | 0.20 |           | µg/L       | 1            | 10/10/2020 12:41 PM |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |            |              |                     |
| <b>EPA 200.8</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       |      | PrepDate: | 10/10/2020 | Analyst: CEI |                     |
| Chromium                          | ND                | 0.13  | 1.0  |           | µg/L       | 1            | 10/12/2020 07:28 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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-006

**Client Sample ID:** OW-02D-Q420  
**Collection Date:** 10/8/2020 10:19:00 AM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units      | DF           | Date Analyzed       |
|-----------------------------------|-------------------|-------|------|-----------|------------|--------------|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |            |              |                     |
| <b>EPA 218.6</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-IC7_201010A        | QC Batch: R147919 |       |      | PrepDate: |            | Analyst: RAB |                     |
| Hexavalent Chromium               | 0.50              | 0.033 | 0.20 |           | µg/L       | 1            | 10/10/2020 12:50 PM |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |            |              |                     |
| <b>EPA 200.8</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       |      | PrepDate: | 10/10/2020 | Analyst: CEI |                     |
| Chromium                          | 1.4               | 0.13  | 1.0  |           | µg/L       | 1            | 10/12/2020 07:42 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-007

**Client Sample ID:** OW-05M-LF-Q420  
**Collection Date:** 10/8/2020 1:03:00 PM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units      | DF           | Date Analyzed       |
|-----------------------------------|-------------------|-------|------|-----------|------------|--------------|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |            |              |                     |
| <b>EPA 218.6</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-IC7_201010A        | QC Batch: R147919 |       |      | PrepDate: |            | Analyst: RAB |                     |
| Hexavalent Chromium               | 0.49              | 0.033 | 0.20 |           | µg/L       | 1            | 10/10/2020 01:00 PM |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |            |              |                     |
| <b>EPA 200.8</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       |      | PrepDate: | 10/10/2020 | Analyst: CEI |                     |
| Chromium                          | 16                | 0.13  | 1.0  |           | µg/L       | 1            | 10/12/2020 07:56 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-008

**Client Sample ID:** OW-02M-Q420  
**Collection Date:** 10/8/2020 9:11:00 AM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL   | PQL  | Qual      | Units      | DF           | Date Analyzed       |
|-----------------------------------|-------------------|-------|------|-----------|------------|--------------|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |       |      |           |            |              |                     |
| <b>EPA 218.6</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-IC7_201010A        | QC Batch: R147919 |       |      | PrepDate: |            | Analyst: RAB |                     |
| Hexavalent Chromium               | 2.0               | 0.033 | 0.20 |           | µg/L       | 1            | 10/10/2020 10:34 AM |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |       |      |           |            |              |                     |
| <b>EPA 200.8</b>                  |                   |       |      |           |            |              |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |       |      | PrepDate: | 10/10/2020 | Analyst: CEI |                     |
| Chromium                          | 3.2               | 0.13  | 1.0  |           | µg/L       | 1            | 10/12/2020 08:19 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-009

**Client Sample ID:** OW-02S-Q420  
**Collection Date:** 10/8/2020 10:57:00 AM  
**Matrix:** GROUNDWATER

| Analyses                          | Result            | MDL  | PQL | Qual      | Units      | DF           | Date Analyzed       |
|-----------------------------------|-------------------|------|-----|-----------|------------|--------------|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b>  |                   |      |     |           |            |              |                     |
| <b>EPA 218.6</b>                  |                   |      |     |           |            |              |                     |
| RunID: NV00922-IC7_201010A        | QC Batch: R147919 |      |     | PrepDate: |            | Analyst: RAB |                     |
| Hexavalent Chromium               | 16                | 0.17 | 1.0 |           | µg/L       | 5            | 10/10/2020 10:43 AM |
| <b>DISSOLVED METALS BY ICP-MS</b> |                   |      |     |           |            |              |                     |
| <b>EPA 200.8</b>                  |                   |      |     |           |            |              |                     |
| RunID: NV00922-ICP8_201012B       | QC Batch: 82504   |      |     | PrepDate: | 10/10/2020 | Analyst: CEI |                     |
| Chromium                          | 16                | 0.13 | 1.0 |           | µg/L       | 1            | 10/12/2020 08:33 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-010

Client Sample ID: EB-758-Q420  
 Collection Date: 10/8/2020 2:50:00 PM  
 Matrix: GROUNDWATER

| Analyses                         | Result            | MDL   | PQL       | Qual | Units        | DF | Date Analyzed       |
|----------------------------------|-------------------|-------|-----------|------|--------------|----|---------------------|
| <b>HEXAVALENT CHROMIUM BY IC</b> |                   |       |           |      |              |    |                     |
| <b>EPA 218.6</b>                 |                   |       |           |      |              |    |                     |
| RunID: NV00922-IC7_201010A       | QC Batch: R147919 |       | PrepDate: |      | Analyst: RAB |    |                     |
| Hexavalent Chromium              | ND                | 0.033 | 0.20      |      | µg/L         | 1  | 10/10/2020 03:03 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-011

Client Sample ID: EB-757-Q420  
 Collection Date: 10/8/2020 2:40:00 PM  
 Matrix: GROUNDWATER

| Analyses                   | Result            | MDL   | PQL       | Qual | Units        | DF | Date Analyzed       |
|----------------------------|-------------------|-------|-----------|------|--------------|----|---------------------|
| HEXAVALENT CHROMIUM BY IC  |                   |       |           |      |              |    |                     |
| EPA 218.6                  |                   |       |           |      |              |    |                     |
| RunID: NV00922-IC7_201010A | QC Batch: R147919 |       | PrepDate: |      | Analyst: RAB |    |                     |
| Hexavalent Chromium        | ND                | 0.033 | 0.20      |      | µg/L         | 1  | 10/10/2020 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                                        |    |                                            |



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Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8Dis\_CrPGE\_TPK

|                            |                        |                               |                    |                                  |                                                        |
|----------------------------|------------------------|-------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>MB-82504</b> | SampType: <b>MBLK</b>  | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148068</b>                                   |
| Client ID: <b>PBW</b>      | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/12/2020</b> | SeqNo: <b>3970486</b>                                  |
| Analyte                    | Result                 | PQL                           | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                   | ND                     | 1.0                           |                    |                                  |                                                        |

|                             |                        |                               |                    |                                  |                                                        |
|-----------------------------|------------------------|-------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>LCS-82504</b> | SampType: <b>LCS</b>   | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148068</b>                                   |
| Client ID: <b>LCSW</b>      | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/12/2020</b> | SeqNo: <b>3970487</b>                                  |
| Analyte                     | Result                 | PQL                           | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                    | 9.636                  | 1.0                           | 10.00              | 0                                | 96.4 85 115                                            |

|                                   |                        |                               |                    |                                  |                                                        |
|-----------------------------------|------------------------|-------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042508-001B-MS</b> | SampType: <b>MS</b>    | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148068</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/12/2020</b> | SeqNo: <b>3970498</b>                                  |
| Analyte                           | Result                 | PQL                           | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                          | 408.147                | 5.0                           | 10.00              | 397.3                            | 109 75 125                                             |

|                                    |                        |                               |                    |                                  |                                                        |
|------------------------------------|------------------------|-------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042508-001B-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148068</b>                                   |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/12/2020</b> | SeqNo: <b>3970501</b>                                  |
| Analyte                            | Result                 | PQL                           | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                           | 408.037                | 5.0                           | 10.00              | 397.3                            | 107 75 125 408.1 0.0270 20                             |

|                                   |                        |                               |                    |                                  |                                                        |
|-----------------------------------|------------------------|-------------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042522-001C-MS</b> | SampType: <b>MS</b>    | TestCode: <b>200.8Dis_CrP</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>148068</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82504</b> | TestNo: <b>EPA 200.8</b>      |                    | Analysis Date: <b>10/12/2020</b> | SeqNo: <b>3970545</b>                                  |
| Analyte                           | Result                 | PQL                           | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                          | 11.606                 | 1.0                           | 10.00              | 1.985                            | 96.2 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 |                                      |   |                                                              |



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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode: 218.6\_WPGE**

|                              |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-R147919</b> | SampType: <b>MBLK</b>    | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>147919</b>  |          |           |             |      |          |      |
| Client ID: <b>PBW</b>        | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3962179</b> |          |           |             |      |          |      |
| Analyte                      | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Hexavalent Chromium ND 0.20

|                               |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|-------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-R147919</b> | SampType: <b>LCS</b>     | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>147919</b>  |          |           |             |      |          |      |
| Client ID: <b>LCSW</b>        | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3962180</b> |          |           |             |      |          |      |
| Analyte                       | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Hexavalent Chromium 4.950 0.20 5.000 0 99.0 90 110

|                                  |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-009AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>147919</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3962184</b> |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Hexavalent Chromium 40.504 1.0 25.00 15.70 99.2 90 110

|                                   |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|-----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-009AMSD</b> | SampType: <b>MSD</b>     | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>147919</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3962185</b> |          |           |             |      |          |      |
| Analyte                           | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Hexavalent Chromium 39.896 1.0 25.00 15.70 96.8 90 110 40.50 1.51 20

|                                  |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-008AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>147919</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3962186</b> |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Hexavalent Chromium 2.996 0.20 1.000 1.979 102 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 |                                      |   |                                                              |



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 218.6\_WPGE

|                                  |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-003AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>147919</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3962187</b> |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |        |      |       |       |     |    |     |  |  |  |  |
|---------------------|--------|------|-------|-------|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 15.551 | 0.20 | 5.000 | 10.43 | 102 | 90 | 110 |  |  |  |  |
|---------------------|--------|------|-------|-------|-----|----|-----|--|--|--|--|

|                                  |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-001AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>147919</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3962196</b> |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |        |      |    |     |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.512 | 0.20 | 1.000 | 0.5908 | 92.1 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|

|                                  |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-002AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>147919</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3962197</b> |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |        |      |    |     |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.596 | 0.20 | 1.000 | 0.6023 | 99.4 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|

|                                  |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-004AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>147919</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3962198</b> |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |        |      |    |     |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.610 | 0.20 | 1.000 | 0.6271 | 98.2 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|

|                                  |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-005AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                       | RunNo: <b>147919</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3962199</b> |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |        |      |    |     |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.548 | 0.20 | 1.000 | 0.5811 | 96.7 | 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 |                                      |   |                                                              |



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 218.6\_WPGE

|                                  |                          |                             |                                  |                       |                      |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|----------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-006AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>               | Prep Date:            | RunNo: <b>147919</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3962200</b> |                      |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value                        | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |        |     |    |     |  |  |  |  |
|---------------------|-------|------|-------|--------|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.527 | 0.20 | 1.000 | 0.4992 | 103 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|--------|-----|----|-----|--|--|--|--|

|                                  |                          |                             |                                  |                       |                      |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|----------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-007AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>               | Prep Date:            | RunNo: <b>147919</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3962203</b> |                      |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value                        | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |        |      |    |     |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.451 | 0.20 | 1.000 | 0.4902 | 96.1 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|--------|------|----|-----|--|--|--|--|

|                                   |                          |                             |                    |                                  |      |          |           |                       |      |          |      |
|-----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: <b>N042527-016ADUP</b> | SampType: <b>DUP</b>     | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b> | Prep Date:                       |      |          |           | RunNo: <b>147919</b>  |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    |                    | Analysis Date: <b>10/10/2020</b> |      |          |           | SeqNo: <b>3962205</b> |      |          |      |
| Analyte                           | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC | LowLimit | HighLimit | RPD Ref Val           | %RPD | RPDLimit | Qual |

|                     |       |      |  |  |  |  |  |       |       |    |  |
|---------------------|-------|------|--|--|--|--|--|-------|-------|----|--|
| Hexavalent Chromium | 3.906 | 0.20 |  |  |  |  |  | 3.886 | 0.518 | 20 |  |
|---------------------|-------|------|--|--|--|--|--|-------|-------|----|--|

|                                  |                          |                             |                                  |                       |                      |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|----------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-010AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>               | Prep Date:            | RunNo: <b>147919</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3962209</b> |                      |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value                        | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |   |     |    |     |  |  |  |  |
|---------------------|-------|------|-------|---|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.002 | 0.20 | 1.000 | 0 | 100 | 90 | 110 |  |  |  |  |
|---------------------|-------|------|-------|---|-----|----|-----|--|--|--|--|

|                                  |                          |                             |                                  |                       |                      |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|----------------------------------|-----------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-011AMS</b> | SampType: <b>MS</b>      | TestCode: <b>218.6_WPGE</b> | Units: <b>µg/L</b>               | Prep Date:            | RunNo: <b>147919</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147919</b> | TestNo: <b>EPA 218.6</b>    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3962211</b> |                      |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value                        | SPK Ref Val           | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                     |       |      |       |   |     |    |     |  |  |  |  |
|---------------------|-------|------|-------|---|-----|----|-----|--|--|--|--|
| Hexavalent Chromium | 1.033 | 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 |                                      |   |                                                              |



**ASSET LABORATORIES**

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## ASSET Laboratories

## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-001

Client Sample ID: CW-01D-LF-Q420  
 Collection Date: 10/8/2020 2:10:00 PM  
 Matrix: GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TURBIDITY

## SM 2130B

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201009A | QC Batch: R147902 |      |      | PrepDate: |   | Analyst: QBM       |
| Turbidity                 | 8.6               | 0.10 | 0.10 | NTU       | 1 | 10/9/2020 12:30 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-002

**Client Sample ID:** CW-01M-LF-Q420  
**Collection Date:** 10/8/2020 2:11:00 PM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TURBIDITY

## SM 2130B

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201009A | QC Batch: R147902 |      |      | PrepDate: |   | Analyst: QBM       |
| Turbidity                 | 1.7               | 0.10 | 0.10 | NTU       | 1 | 10/9/2020 12:30 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-003

Client Sample ID: OW-05S-LF-Q420  
 Collection Date: 10/8/2020 11:51:00 AM  
 Matrix: GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TURBIDITY

## SM 2130B

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201009A | QC Batch: R147902 |      |      | PrepDate: |   | Analyst: QBM       |
| Turbidity                 | 0.13              | 0.10 | 0.10 | NTU       | 1 | 10/9/2020 12:30 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-004

**Client Sample ID:** OW-05D-Q420  
**Collection Date:** 10/8/2020 12:00:00 PM  
**Matrix:** GROUNDWATER

| Analyses                  | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed      |
|---------------------------|-------------------|------|-----------|------|--------------|----|--------------------|
| <b>TURBIDITY</b>          |                   |      |           |      |              |    |                    |
| <b>SM 2130B</b>           |                   |      |           |      |              |    |                    |
| RunID: NV00922-WC_201009A | QC Batch: R147902 |      | PrepDate: |      | Analyst: QBM |    |                    |
| Turbidity                 | 0.84              | 0.10 | 0.10      |      | NTU          | 1  | 10/9/2020 12:30 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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-005

**Client Sample ID:** MW-901-Q420  
**Collection Date:** 10/8/2020 2:21:00 PM  
**Matrix:** GROUNDWATER

| Analyses                  | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed      |
|---------------------------|-------------------|------|-----------|------|--------------|----|--------------------|
| <b>TURBIDITY</b>          |                   |      |           |      |              |    |                    |
| <b>SM 2130B</b>           |                   |      |           |      |              |    |                    |
| RunID: NV00922-WC_201009A | QC Batch: R147902 |      | PrepDate: |      | Analyst: QBM |    |                    |
| Turbidity                 | 0.62              | 0.10 | 0.10      |      | NTU          | 1  | 10/9/2020 12:30 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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-006

**Client Sample ID:** OW-02D-Q420  
**Collection Date:** 10/8/2020 10:19:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TURBIDITY

## SM 2130B

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201009A | QC Batch: R147902 |      |      | PrepDate: |   | Analyst: QBM       |
| Turbidity                 | 3.4               | 0.10 | 0.10 | NTU       | 1 | 10/9/2020 12:30 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-007

Client Sample ID: OW-05M-LF-Q420  
 Collection Date: 10/8/2020 1:03:00 PM  
 Matrix: GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TURBIDITY

## SM 2130B

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201009A | QC Batch: R147902 |      |      | PrepDate: |   | Analyst: QBM       |
| Turbidity                 | 26                | 0.10 | 0.10 | NTU       | 1 | 10/9/2020 12:30 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-008

**Client Sample ID:** OW-02M-Q420  
**Collection Date:** 10/8/2020 9:11:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TURBIDITY

## SM 2130B

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201009A | QC Batch: R147902 |      |      | PrepDate: |   | Analyst: QBM       |
| Turbidity                 | 0.52              | 0.10 | 0.10 | NTU       | 1 | 10/9/2020 12:30 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-009

**Client Sample ID:** OW-02S-Q420  
**Collection Date:** 10/8/2020 10:57:00 AM  
**Matrix:** GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## TURBIDITY

## SM 2130B

|                           |                   |      |      |           |   |                    |
|---------------------------|-------------------|------|------|-----------|---|--------------------|
| RunID: NV00922-WC_201009A | QC Batch: R147902 |      |      | PrepDate: |   | Analyst: QBM       |
| Turbidity                 | 1.2               | 0.10 | 0.10 | NTU       | 1 | 10/9/2020 12:30 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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## ASSET Laboratories

Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 2130\_W

|                              |                          |                         |                   |                                 |                       |          |           |             |      |          |      |
|------------------------------|--------------------------|-------------------------|-------------------|---------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-R147902</b> | SampType: <b>MBLK</b>    | TestCode: <b>2130_W</b> | Units: <b>NTU</b> | Prep Date:                      | RunNo: <b>147902</b>  |          |           |             |      |          |      |
| Client ID: <b>PBW</b>        | Batch ID: <b>R147902</b> | TestNo: <b>SM 2130B</b> |                   | Analysis Date: <b>10/9/2020</b> | SeqNo: <b>3961535</b> |          |           |             |      |          |      |
| Analyte                      | Result                   | PQL                     | SPK value         | SPK Ref Val                     | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Turbidity                    | ND                       | 0.10                    |                   |                                 |                       |          |           |             |      |          |      |

|                                   |                          |                         |                   |                                 |                       |          |           |             |       |          |      |
|-----------------------------------|--------------------------|-------------------------|-------------------|---------------------------------|-----------------------|----------|-----------|-------------|-------|----------|------|
| Sample ID: <b>N042522-007DDUP</b> | SampType: <b>DUP</b>     | TestCode: <b>2130_W</b> | Units: <b>NTU</b> | Prep Date:                      | RunNo: <b>147902</b>  |          |           |             |       |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147902</b> | TestNo: <b>SM 2130B</b> |                   | Analysis Date: <b>10/9/2020</b> | SeqNo: <b>3961543</b> |          |           |             |       |          |      |
| Analyte                           | Result                   | PQL                     | SPK value         | SPK Ref Val                     | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Turbidity                         | 25.600                   | 0.10                    |                   |                                 |                       |          |           | 25.50       | 0.391 | 30       |      |

## Qualifiers:

|    |                                                 |                                      |                                      |   |                                                              |
|----|-------------------------------------------------|--------------------------------------|--------------------------------------|---|--------------------------------------------------------------|
| B  | Analyte detected in 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 |                                      |   |                                                              |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-001

Client Sample ID: CW-01D-LF-Q420  
 Collection Date: 10/8/2020 2:10:00 PM  
 Matrix: GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## ALKALINITY, SPECIATED

## SM 2320 B

|                                           |                   |     |     |           |   |                    |
|-------------------------------------------|-------------------|-----|-----|-----------|---|--------------------|
| RunID: NV00922-WC_201009C                 | QC Batch: R147905 |     |     | PrepDate: |   | Analyst: QBM       |
| Alkalinity, Total (As CaCO <sub>3</sub> ) | 90                | 1.2 | 5.0 | mg/L      | 1 | 10/9/2020 09:20 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-002

Client Sample ID: CW-01M-LF-Q420  
 Collection Date: 10/8/2020 2:11:00 PM  
 Matrix: GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## ALKALINITY, SPECIATED

## SM 2320 B

|                              |                   |     |     |           |   |                    |
|------------------------------|-------------------|-----|-----|-----------|---|--------------------|
| RunID: NV00922-WC_201009C    | QC Batch: R147905 |     |     | PrepDate: |   | Analyst: QBM       |
| Alkalinity, Total (As CaCO3) | 89                | 1.2 | 5.0 | mg/L      | 1 | 10/9/2020 09:20 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-004

Client Sample ID: OW-05D-Q420  
 Collection Date: 10/8/2020 12:00:00 PM  
 Matrix: GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## ALKALINITY, SPECIATED

## SM 2320 B

|                                           |                   |     |     |           |   |                    |
|-------------------------------------------|-------------------|-----|-----|-----------|---|--------------------|
| RunID: NV00922-WC_201009C                 | QC Batch: R147905 |     |     | PrepDate: |   | Analyst: QBM       |
| Alkalinity, Total (As CaCO <sub>3</sub> ) | 71                | 1.2 | 5.0 | mg/L      | 1 | 10/9/2020 09:20 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-005

Client Sample ID: MW-901-Q420  
 Collection Date: 10/8/2020 2:21:00 PM  
 Matrix: GROUNDWATER

| Analyses                                  | Result            | MDL | PQL       | Qual | Units        | DF | Date Analyzed      |
|-------------------------------------------|-------------------|-----|-----------|------|--------------|----|--------------------|
| ALKALINITY, SPECIATED                     |                   |     |           |      |              |    |                    |
| SM 2320 B                                 |                   |     |           |      |              |    |                    |
| RunID: NV00922-WC_201009C                 | QC Batch: R147905 |     | PrepDate: |      | Analyst: QBM |    |                    |
| Alkalinity, Total (As CaCO <sub>3</sub> ) | 90                | 1.2 | 5.0       |      | mg/L         | 1  | 10/9/2020 09:20 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                                        |                                            |                                     |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-007

Client Sample ID: OW-05M-LF-Q420  
 Collection Date: 10/8/2020 1:03:00 PM  
 Matrix: GROUNDWATER

| Analyses | Result | MDL | PQL | Qual | Units | DF | Date Analyzed |
|----------|--------|-----|-----|------|-------|----|---------------|
|----------|--------|-----|-----|------|-------|----|---------------|

## ALKALINITY, SPECIATED

## SM 2320 B

|                                           |                   |     |     |           |   |                    |
|-------------------------------------------|-------------------|-----|-----|-----------|---|--------------------|
| RunID: NV00922-WC_201009C                 | QC Batch: R147905 |     |     | PrepDate: |   | Analyst: QBM       |
| Alkalinity, Total (As CaCO <sub>3</sub> ) | 86                | 1.2 | 5.0 | mg/L      | 1 | 10/9/2020 09:20 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                                        |    |                                            |



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## ASSET Laboratories

Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 2320\_W\_SP

|                               |                          |                            |                    |                                 |      |          |           |                       |      |          |      |
|-------------------------------|--------------------------|----------------------------|--------------------|---------------------------------|------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: <b>LCS-R147905</b> | SampType: <b>LCS</b>     | TestCode: <b>2320_W_SP</b> | Units: <b>mg/L</b> | Prep Date:                      |      |          |           | RunNo: <b>147905</b>  |      |          |      |
| Client ID: <b>LCSW</b>        | Batch ID: <b>R147905</b> | TestNo: <b>SM 2320 B</b>   |                    | Analysis Date: <b>10/9/2020</b> |      |          |           | SeqNo: <b>3961569</b> |      |          |      |
| Analyte                       | Result                   | PQL                        | SPK value          | SPK Ref Val                     | %REC | LowLimit | HighLimit | RPD Ref Val           | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3)  | 100.423                  | 5.0                        | 100.0              | 0                               | 100  | 85       | 115       |                       |      |          |      |

|                              |                          |                            |                    |                                 |      |          |           |                       |      |          |      |
|------------------------------|--------------------------|----------------------------|--------------------|---------------------------------|------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: <b>MB-R147905</b> | SampType: <b>MBLK</b>    | TestCode: <b>2320_W_SP</b> | Units: <b>mg/L</b> | Prep Date:                      |      |          |           | RunNo: <b>147905</b>  |      |          |      |
| Client ID: <b>PBW</b>        | Batch ID: <b>R147905</b> | TestNo: <b>SM 2320 B</b>   |                    | Analysis Date: <b>10/9/2020</b> |      |          |           | SeqNo: <b>3961570</b> |      |          |      |
| 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: <b>N042508-001CDUP</b> | SampType: <b>DUP</b>     | TestCode: <b>2320_W_SP</b> | Units: <b>mg/L</b> | Prep Date:                      |      |          |           | RunNo: <b>147905</b>  |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147905</b> | TestNo: <b>SM 2320 B</b>   |                    | Analysis Date: <b>10/9/2020</b> |      |          |           | SeqNo: <b>3961572</b> |      |          |      |
| Analyte                           | Result                   | PQL                        | SPK value          | SPK Ref Val                     | %REC | LowLimit | HighLimit | RPD Ref Val           | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3)      | 146.934                  | 5.0                        |                    |                                 |      |          |           | 146.9                 | 0    | 30       |      |

|                                  |                          |                            |                    |                                 |      |          |           |                       |      |          |      |
|----------------------------------|--------------------------|----------------------------|--------------------|---------------------------------|------|----------|-----------|-----------------------|------|----------|------|
| Sample ID: <b>N042508-001CMS</b> | SampType: <b>MS</b>      | TestCode: <b>2320_W_SP</b> | Units: <b>mg/L</b> | Prep Date:                      |      |          |           | RunNo: <b>147905</b>  |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147905</b> | TestNo: <b>SM 2320 B</b>   |                    | Analysis Date: <b>10/9/2020</b> |      |          |           | SeqNo: <b>3961573</b> |      |          |      |
| Analyte                          | Result                   | PQL                        | SPK value          | SPK Ref Val                     | %REC | LowLimit | HighLimit | RPD Ref Val           | %RPD | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3)     | 244.186                  | 5.0                        | 100.0              | 146.9                           | 97.3 | 75       | 125       |                       |      |          |      |

|                                   |                          |                            |                    |                                 |      |          |           |                       |       |          |      |
|-----------------------------------|--------------------------|----------------------------|--------------------|---------------------------------|------|----------|-----------|-----------------------|-------|----------|------|
| Sample ID: <b>N042508-001CMSD</b> | SampType: <b>MSD</b>     | TestCode: <b>2320_W_SP</b> | Units: <b>mg/L</b> | Prep Date:                      |      |          |           | RunNo: <b>147905</b>  |       |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147905</b> | TestNo: <b>SM 2320 B</b>   |                    | Analysis Date: <b>10/9/2020</b> |      |          |           | SeqNo: <b>3961574</b> |       |          |      |
| Analyte                           | Result                   | PQL                        | SPK value          | SPK Ref Val                     | %REC | LowLimit | HighLimit | RPD Ref Val           | %RPD  | RPDLimit | Qual |
| Alkalinity, Total (As CaCO3)      | 245.243                  | 5.0                        | 100.0              | 146.9                           | 98.3 | 75       | 125       | 244.2                 | 0.432 | 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 |                                      |   |                                                              |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-001

Client Sample ID: CW-01D-LF-Q420  
 Collection Date: 10/8/2020 2:10:00 PM  
 Matrix: GROUNDWATER

| Analyses                                  | Result          | MDL  | PQL  | Qual                 | Units | DF                  | Date Analyzed |
|-------------------------------------------|-----------------|------|------|----------------------|-------|---------------------|---------------|
| DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE |                 |      |      |                      |       |                     |               |
| EPA 245.1                                 |                 |      |      |                      |       |                     |               |
| RunID: NV00922-AA2_201010B                | QC Batch: 82522 |      |      | PrepDate: 10/10/2020 |       | Analyst: DJ         |               |
| Mercury                                   | ND              | 0.13 | 0.20 | µg/L                 | 1     | 10/10/2020 01:13 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: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-002

Client Sample ID: CW-01M-LF-Q420  
 Collection Date: 10/8/2020 2:11:00 PM  
 Matrix: GROUNDWATER

| Analyses                                  | Result          | MDL  | PQL  | Qual                 | Units | DF                  | Date Analyzed |
|-------------------------------------------|-----------------|------|------|----------------------|-------|---------------------|---------------|
| DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE |                 |      |      |                      |       |                     |               |
| EPA 245.1                                 |                 |      |      |                      |       |                     |               |
| RunID: NV00922-AA2_201010B                | QC Batch: 82522 |      |      | PrepDate: 10/10/2020 |       | Analyst: DJ         |               |
| Mercury                                   | ND              | 0.13 | 0.20 | µg/L                 | 1     | 10/10/2020 01:16 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-004

**Client Sample ID:** OW-05D-Q420  
**Collection Date:** 10/8/2020 12:00:00 PM  
**Matrix:** GROUNDWATER

| Analyses                                         | Result          | MDL  | PQL  | Qual      | Units      | DF          | Date Analyzed       |
|--------------------------------------------------|-----------------|------|------|-----------|------------|-------------|---------------------|
| <b>DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE</b> |                 |      |      |           |            |             |                     |
| <b>EPA 245.1</b>                                 |                 |      |      |           |            |             |                     |
| RunID: NV00922-AA2_201010B                       | QC Batch: 82522 |      |      | PrepDate: | 10/10/2020 | Analyst: DJ |                     |
| Mercury                                          | ND              | 0.13 | 0.20 |           | µg/L       | 1           | 10/10/2020 01:20 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-005

**Client Sample ID:** MW-901-Q420  
**Collection Date:** 10/8/2020 2:21:00 PM  
**Matrix:** GROUNDWATER

| Analyses                                         | Result          | MDL  | PQL  | Qual      | Units      | DF          | Date Analyzed       |
|--------------------------------------------------|-----------------|------|------|-----------|------------|-------------|---------------------|
| <b>DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE</b> |                 |      |      |           |            |             |                     |
| <b>EPA 245.1</b>                                 |                 |      |      |           |            |             |                     |
| RunID: NV00922-AA2_201010B                       | QC Batch: 82522 |      |      | PrepDate: | 10/10/2020 | Analyst: DJ |                     |
| Mercury                                          | ND              | 0.13 | 0.20 |           | µg/L       | 1           | 10/10/2020 01:23 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-007

**Client Sample ID:** OW-05M-LF-Q420  
**Collection Date:** 10/8/2020 1:03:00 PM  
**Matrix:** GROUNDWATER

| Analyses                                         | Result          | MDL  | PQL  | Qual      | Units      | DF          | Date Analyzed       |
|--------------------------------------------------|-----------------|------|------|-----------|------------|-------------|---------------------|
| <b>DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE</b> |                 |      |      |           |            |             |                     |
| <b>EPA 245.1</b>                                 |                 |      |      |           |            |             |                     |
| RunID: NV00922-AA2_201010B                       | QC Batch: 82522 |      |      | PrepDate: | 10/10/2020 | Analyst: DJ |                     |
| Mercury                                          | ND              | 0.13 | 0.20 |           | µg/L       | 1           | 10/10/2020 01:37 PM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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## ASSET Laboratories

Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 245.1\_WD

|                            |                        |                           |                    |                                  |                                                        |
|----------------------------|------------------------|---------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>MB-82522</b> | SampType: <b>MBLK</b>  | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>147909</b>                                   |
| Client ID: <b>PBW</b>      | Batch ID: <b>82522</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3961847</b>                                  |
| Analyte                    | Result                 | PQL                       | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Mercury                    | ND                     | 0.20                      |                    |                                  |                                                        |

|                             |                        |                           |                    |                                  |                                                        |
|-----------------------------|------------------------|---------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>LCS-82522</b> | SampType: <b>LCS</b>   | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>147909</b>                                   |
| Client ID: <b>LCSW</b>      | Batch ID: <b>82522</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3961849</b>                                  |
| Analyte                     | Result                 | PQL                       | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Mercury                     | 4.530                  | 0.20                      | 5.000              | 0                                | 90.6 85 115                                            |

|                                   |                        |                           |                    |                                  |                                                        |
|-----------------------------------|------------------------|---------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042507-003C-MS</b> | SampType: <b>MS</b>    | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>147909</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82522</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3961853</b>                                  |
| Analyte                           | Result                 | PQL                       | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Mercury                           | 4.130                  | 0.20                      | 5.000              | 0                                | 82.6 75 125                                            |

|                                    |                        |                           |                    |                                  |                                                        |
|------------------------------------|------------------------|---------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042507-003C-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>147909</b>                                   |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82522</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3961854</b>                                  |
| Analyte                            | Result                 | PQL                       | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Mercury                            | 4.130                  | 0.20                      | 5.000              | 0                                | 82.6 75 125 4.130 0 20                                 |

|                                   |                        |                           |                    |                                  |                                                        |
|-----------------------------------|------------------------|---------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042513-001C-MS</b> | SampType: <b>MS</b>    | TestCode: <b>245.1_WD</b> | Units: <b>µg/L</b> | Prep Date: <b>10/10/2020</b>     | RunNo: <b>147909</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>82522</b> | TestNo: <b>EPA 245.1</b>  |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3961858</b>                                  |
| Analyte                           | Result                 | PQL                       | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Mercury                           | 4.530                  | 0.20                      | 5.000              | 0                                | 90.6 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 |                                      |   |                                                              |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-001

Client Sample ID: CW-01D-LF-Q420  
 Collection Date: 10/8/2020 2:10:00 PM  
 Matrix: GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed       |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|---------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Chloride                            | 2200              | 17    | 250  |           | mg/L  | 500          | 10/10/2020 02:59 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Fluoride                            | 2.5               | 0.048 | 0.50 |           | mg/L  | 5            | 10/10/2020 08:07 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Sulfate                             | 500               | 2.0   | 25   |           | mg/L  | 50           | 10/10/2020 01:19 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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-002

**Client Sample ID:** CW-01M-LF-Q420  
**Collection Date:** 10/8/2020 2:11:00 PM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed       |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|---------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Chloride                            | 2200              | 17    | 250  |           | mg/L  | 500          | 10/10/2020 04:39 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Fluoride                            | 2.2               | 0.048 | 0.50 |           | mg/L  | 5            | 10/10/2020 08:21 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Sulfate                             | 510               | 2.0   | 25   |           | mg/L  | 50           | 10/10/2020 01:34 PM |

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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-003

Client Sample ID: OW-05S-LF-Q420  
 Collection Date: 10/8/2020 11:51:00 AM  
 Matrix: GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed       |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|---------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Chloride                            | 1700              | 17    | 250  |           | mg/L  | 500          | 10/10/2020 04:54 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Fluoride                            | 1.7               | 0.048 | 0.50 |           | mg/L  | 5            | 10/10/2020 08:35 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Sulfate                             | 350               | 2.0   | 25   |           | mg/L  | 50           | 10/10/2020 01:48 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: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-004

Client Sample ID: OW-05D-Q420  
 Collection Date: 10/8/2020 12:00:00 PM  
 Matrix: GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed       |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|---------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| EPA 300.0                           |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Chloride                            | 2100              | 17    | 250  |           | mg/L  | 500          | 10/10/2020 05:08 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| EPA 300.0                           |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Fluoride                            | 3.0               | 0.048 | 0.50 |           | mg/L  | 5            | 10/10/2020 08:50 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| EPA 300.0                           |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Sulfate                             | 470               | 2.0   | 25   |           | mg/L  | 50           | 10/10/2020 11:39 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: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-005

**Client Sample ID:** MW-901-Q420  
**Collection Date:** 10/8/2020 2:21:00 PM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed       |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|---------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Chloride                            | 2200              | 17    | 250  |           | mg/L  | 500          | 10/10/2020 04:11 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Fluoride                            | 2.2               | 0.048 | 0.50 |           | mg/L  | 5            | 10/10/2020 09:04 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Sulfate                             | 510               | 2.0   | 25   |           | mg/L  | 50           | 10/10/2020 02:02 PM |

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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-006

**Client Sample ID:** OW-02D-Q420  
**Collection Date:** 10/8/2020 10:19:00 AM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed       |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|---------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Chloride                            | 2200              | 17    | 250  |           | mg/L  | 500          | 10/10/2020 05:22 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Fluoride                            | 2.7               | 0.048 | 0.50 |           | mg/L  | 5            | 10/10/2020 09:18 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Sulfate                             | 490               | 2.0   | 25   |           | mg/L  | 50           | 10/10/2020 12:08 PM |

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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-007

**Client Sample ID:** OW-05M-LF-Q420  
**Collection Date:** 10/8/2020 1:03:00 PM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed       |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|---------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Chloride                            | 2100              | 17    | 250  |           | mg/L  | 500          | 10/10/2020 05:37 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Fluoride                            | 2.6               | 0.048 | 0.50 |           | mg/L  | 5            | 10/10/2020 09:32 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Sulfate                             | 490               | 2.0   | 25   |           | mg/L  | 50           | 10/10/2020 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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-008

**Client Sample ID:** OW-02M-Q420  
**Collection Date:** 10/8/2020 9:11:00 AM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed       |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|---------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Chloride                            | 2200              | 17    | 250  |           | mg/L  | 500          | 10/10/2020 05:51 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Fluoride                            | 2.1               | 0.048 | 0.50 |           | mg/L  | 5            | 10/10/2020 09:47 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Sulfate                             | 490               | 2.0   | 25   |           | mg/L  | 50           | 10/10/2020 02:31 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: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-009

**Client Sample ID:** OW-02S-Q420  
**Collection Date:** 10/8/2020 10:57:00 AM  
**Matrix:** GROUNDWATER

| Analyses                            | Result            | MDL   | PQL  | Qual      | Units | DF           | Date Analyzed       |
|-------------------------------------|-------------------|-------|------|-----------|-------|--------------|---------------------|
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Chloride                            | 1100              | 7.0   | 100  |           | mg/L  | 200          | 10/10/2020 06:05 PM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Fluoride                            | 3.2               | 0.048 | 0.50 |           | mg/L  | 5            | 10/10/2020 10:30 AM |
| <b>ANIONS BY ION CHROMATOGRAPHY</b> |                   |       |      |           |       |              |                     |
| <b>EPA 300.0</b>                    |                   |       |      |           |       |              |                     |
| RunID: NV00922-IC8_201010A          | QC Batch: R147939 |       |      | PrepDate: |       | Analyst: RAB |                     |
| Sulfate                             | 180               | 0.80  | 10   |           | mg/L  | 20           | 10/10/2020 02:45 PM |

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



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## ASSET Laboratories

Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 300\_W\_CLPGE

|                          |                   |                     |             |                           |                |          |           |             |      |          |      |
|--------------------------|-------------------|---------------------|-------------|---------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-R147939_CL | SampType: MBLK    | TestCode: 300_W_CLP | Units: mg/L | Prep Date:                | RunNo: 147939  |          |           |             |      |          |      |
| Client ID: PBW           | Batch ID: R147939 | TestNo: EPA 300.0   |             | Analysis Date: 10/10/2020 | SeqNo: 3964055 |          |           |             |      |          |      |
| Analyte                  | Result            | PQL                 | SPK value   | SPK Ref Val               | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride                 | ND                | 0.50                |             |                           |                |          |           |             |      |          |      |

|                           |                   |                     |             |                           |                |          |           |             |      |          |      |
|---------------------------|-------------------|---------------------|-------------|---------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-R147939_CL | SampType: LCS     | TestCode: 300_W_CLP | Units: mg/L | Prep Date:                | RunNo: 147939  |          |           |             |      |          |      |
| Client ID: LCSW           | Batch ID: R147939 | TestNo: EPA 300.0   |             | Analysis Date: 10/10/2020 | SeqNo: 3964056 |          |           |             |      |          |      |
| Analyte                   | Result            | PQL                 | SPK value   | SPK Ref Val               | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride                  | 2.010             | 0.50                | 2.000       | 0                         | 100            | 90       | 110       |             |      |          |      |

|                           |                   |                     |             |                           |                |          |           |             |      |          |      |
|---------------------------|-------------------|---------------------|-------------|---------------------------|----------------|----------|-----------|-------------|------|----------|------|
| Sample ID: N042522-001DMS | SampType: MS      | TestCode: 300_W_CLP | Units: mg/L | Prep Date:                | RunNo: 147939  |          |           |             |      |          |      |
| Client ID: ZZZZZZ         | Batch ID: R147939 | TestNo: EPA 300.0   |             | Analysis Date: 10/10/2020 | SeqNo: 3964062 |          |           |             |      |          |      |
| Analyte                   | Result            | PQL                 | SPK value   | SPK Ref Val               | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloride                  | 3231.900          | 250                 | 1000        | 2193                      | 104            | 80       | 120       |             |      |          |      |

|                            |                   |                     |             |                           |                |          |           |             |        |          |      |
|----------------------------|-------------------|---------------------|-------------|---------------------------|----------------|----------|-----------|-------------|--------|----------|------|
| Sample ID: N042522-001DMSD | SampType: MSD     | TestCode: 300_W_CLP | Units: mg/L | Prep Date:                | RunNo: 147939  |          |           |             |        |          |      |
| Client ID: ZZZZZZ          | Batch ID: R147939 | TestNo: EPA 300.0   |             | Analysis Date: 10/10/2020 | SeqNo: 3964063 |          |           |             |        |          |      |
| Analyte                    | Result            | PQL                 | SPK value   | SPK Ref Val               | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Chloride                   | 3229.150          | 250                 | 1000        | 2193                      | 104            | 80       | 120       | 3232        | 0.0851 | 20       |      |

|                            |                   |                     |             |                           |                |          |           |             |       |          |      |
|----------------------------|-------------------|---------------------|-------------|---------------------------|----------------|----------|-----------|-------------|-------|----------|------|
| Sample ID: N042522-005DDUP | SampType: DUP     | TestCode: 300_W_CLP | Units: mg/L | Prep Date:                | RunNo: 147939  |          |           |             |       |          |      |
| Client ID: ZZZZZZ          | Batch ID: R147939 | TestNo: EPA 300.0   |             | Analysis Date: 10/10/2020 | SeqNo: 3964067 |          |           |             |       |          |      |
| Analyte                    | Result            | PQL                 | SPK value   | SPK Ref Val               | %REC           | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Chloride                   | 2224.400          | 250                 |             |                           |                |          |           | 2242        | 0.795 | 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 |                                      |   |                                                              |



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"Serving Clients with Passion and Professionalism"

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 300\_W\_FPGE

|                                |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|--------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-R147939_F</b> | SampType: <b>MBLK</b>    | TestCode: <b>300_W_FPGE</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>147939</b>  |          |           |             |      |          |      |
| Client ID: <b>PBW</b>          | Batch ID: <b>R147939</b> | TestNo: <b>EPA 300.0</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3964023</b> |          |           |             |      |          |      |
| Analyte                        | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride ND 0.10

|                                 |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|---------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-R147939_F</b> | SampType: <b>LCS</b>     | TestCode: <b>300_W_FPGE</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>147939</b>  |          |           |             |      |          |      |
| Client ID: <b>LCSW</b>          | Batch ID: <b>R147939</b> | TestNo: <b>EPA 300.0</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3964024</b> |          |           |             |      |          |      |
| Analyte                         | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 1.326 0.10 1.250 0 106 90 110

|                                   |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|-----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-002DDUP</b> | SampType: <b>DUP</b>     | TestCode: <b>300_W_FPGE</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>147939</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147939</b> | TestNo: <b>EPA 300.0</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3964036</b> |          |           |             |      |          |      |
| Analyte                           | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 2.250 0.50 2.208 1.91 20

|                                  |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-008DMS</b> | SampType: <b>MS</b>      | TestCode: <b>300_W_FPGE</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>147939</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147939</b> | TestNo: <b>EPA 300.0</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3964037</b> |          |           |             |      |          |      |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 8.637 0.50 6.250 2.126 104 80 120

|                                   |                          |                             |                    |                                  |                       |          |           |             |      |          |      |
|-----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-008DMSD</b> | SampType: <b>MSD</b>     | TestCode: <b>300_W_FPGE</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>147939</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147939</b> | TestNo: <b>EPA 300.0</b>    |                    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3964038</b> |          |           |             |      |          |      |
| Analyte                           | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

Fluoride 8.480 0.50 6.250 2.126 102 80 120 8.636 1.83 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 |                                      |   |                                                              |



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**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 300\_W\_SO4PGE

|                                  |                          |                             |                                  |                       |                                                        |
|----------------------------------|--------------------------|-----------------------------|----------------------------------|-----------------------|--------------------------------------------------------|
| Sample ID: <b>MB-R147939_SO4</b> | SampType: <b>MBLK</b>    | TestCode: <b>300_W_SO4P</b> | Units: <b>mg/L</b>               | Prep Date:            | RunNo: <b>147939</b>                                   |
| Client ID: <b>PBW</b>            | Batch ID: <b>R147939</b> | TestNo: <b>EPA 300.0</b>    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3964087</b> |                                                        |
| Analyte                          | Result                   | PQL                         | SPK value                        | SPK Ref Val           | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Sulfate 0.247 0.50

|                                   |                          |                             |                                  |                       |                                                        |
|-----------------------------------|--------------------------|-----------------------------|----------------------------------|-----------------------|--------------------------------------------------------|
| Sample ID: <b>LCS-R147939_SO4</b> | SampType: <b>LCS</b>     | TestCode: <b>300_W_SO4P</b> | Units: <b>mg/L</b>               | Prep Date:            | RunNo: <b>147939</b>                                   |
| Client ID: <b>LCSW</b>            | Batch ID: <b>R147939</b> | TestNo: <b>EPA 300.0</b>    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3964088</b> |                                                        |
| Analyte                           | Result                   | PQL                         | SPK value                        | SPK Ref Val           | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Sulfate 4.043 0.50 4.000 0 101 90 110

|                                   |                          |                             |                                  |                       |                                                        |
|-----------------------------------|--------------------------|-----------------------------|----------------------------------|-----------------------|--------------------------------------------------------|
| Sample ID: <b>N042522-004DDUP</b> | SampType: <b>DUP</b>     | TestCode: <b>300_W_SO4P</b> | Units: <b>mg/L</b>               | Prep Date:            | RunNo: <b>147939</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147939</b> | TestNo: <b>EPA 300.0</b>    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3964092</b> |                                                        |
| Analyte                           | Result                   | PQL                         | SPK value                        | SPK Ref Val           | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Sulfate 472.590 25 471.0 0.346 20

|                                  |                          |                             |                                  |                       |                                                        |
|----------------------------------|--------------------------|-----------------------------|----------------------------------|-----------------------|--------------------------------------------------------|
| Sample ID: <b>N042522-006DMS</b> | SampType: <b>MS</b>      | TestCode: <b>300_W_SO4P</b> | Units: <b>mg/L</b>               | Prep Date:            | RunNo: <b>147939</b>                                   |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R147939</b> | TestNo: <b>EPA 300.0</b>    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3964094</b> |                                                        |
| Analyte                          | Result                   | PQL                         | SPK value                        | SPK Ref Val           | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Sulfate 701.810 25 200.0 489.9 106 80 120

|                                   |                          |                             |                                  |                       |                                                        |
|-----------------------------------|--------------------------|-----------------------------|----------------------------------|-----------------------|--------------------------------------------------------|
| Sample ID: <b>N042522-006DMSD</b> | SampType: <b>MSD</b>     | TestCode: <b>300_W_SO4P</b> | Units: <b>mg/L</b>               | Prep Date:            | RunNo: <b>147939</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R147939</b> | TestNo: <b>EPA 300.0</b>    | Analysis Date: <b>10/10/2020</b> | SeqNo: <b>3964095</b> |                                                        |
| Analyte                           | Result                   | PQL                         | SPK value                        | SPK Ref Val           | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |

Sulfate 691.210 25 200.0 489.9 101 80 120 701.8 1.52 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 |                                      |   |                                                              |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-001

Client Sample ID: CW-01D-LF-Q420  
 Collection Date: 10/8/2020 2:10:00 PM  
 Matrix: GROUNDWATER

| Analyses                               | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|----------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| NITRATE/NITRITE-N BY CADMIUM REDUCTION |                   |      |           |      |              |    |                     |
| SM4500-NO3F                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201016B              | QC Batch: R148047 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                   | 2.6               | 0.16 | 0.25      |      | mg/L         | 5  | 10/16/2020 01:24 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-002

Client Sample ID: CW-01M-LF-Q420  
 Collection Date: 10/8/2020 2:11:00 PM  
 Matrix: GROUNDWATER

| Analyses                               | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|----------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| NITRATE/NITRITE-N BY CADMIUM REDUCTION |                   |      |           |      |              |    |                     |
| SM4500-NO3F                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201016B              | QC Batch: R148047 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                   | 3.0               | 0.16 | 0.25      |      | mg/L         | 5  | 10/16/2020 01:25 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-003

Client Sample ID: OW-05S-LF-Q420  
 Collection Date: 10/8/2020 11:51:00 AM  
 Matrix: GROUNDWATER

| Analyses                               | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|----------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| NITRATE/NITRITE-N BY CADMIUM REDUCTION |                   |      |           |      |              |    |                     |
| SM4500-NO3F                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201016B              | QC Batch: R148047 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                   | 3.2               | 0.16 | 0.25      |      | mg/L         | 5  | 10/16/2020 01:26 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                                        |    |                                            |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-004

Client Sample ID: OW-05D-Q420  
 Collection Date: 10/8/2020 12:00:00 PM  
 Matrix: GROUNDWATER

| Analyses                               | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|----------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| NITRATE/NITRITE-N BY CADMIUM REDUCTION |                   |      |           |      |              |    |                     |
| SM4500-NO3F                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201016B              | QC Batch: R148047 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                   | 2.4               | 0.16 | 0.25      |      | mg/L         | 5  | 10/16/2020 01:18 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



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-005

Client Sample ID: MW-901-Q420  
 Collection Date: 10/8/2020 2:21:00 PM  
 Matrix: GROUNDWATER

| Analyses                               | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|----------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| NITRATE/NITRITE-N BY CADMIUM REDUCTION |                   |      |           |      |              |    |                     |
| SM4500-NO3F                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201016B              | QC Batch: R148047 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                   | 5.4               | 0.16 | 0.25      |      | mg/L         | 5  | 10/16/2020 01:27 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                                        |                                            |                                     |



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 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046



## ASSET Laboratories

## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-006

Client Sample ID: OW-02D-Q420  
 Collection Date: 10/8/2020 10:19:00 AM  
 Matrix: GROUNDWATER

| Analyses                               | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|----------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| NITRATE/NITRITE-N BY CADMIUM REDUCTION |                   |      |           |      |              |    |                     |
| SM4500-NO3F                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201016B              | QC Batch: R148047 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                   | 3.1               | 0.16 | 0.25      |      | mg/L         | 5  | 10/16/2020 01:28 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



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## ASSET Laboratories

## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-007

Client Sample ID: OW-05M-LF-Q420  
 Collection Date: 10/8/2020 1:03:00 PM  
 Matrix: GROUNDWATER

| Analyses                               | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|----------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| NITRATE/NITRITE-N BY CADMIUM REDUCTION |                   |      |           |      |              |    |                     |
| SM4500-NO3F                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201016B              | QC Batch: R148047 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                   | 3.1               | 0.16 | 0.25      |      | mg/L         | 5  | 10/16/2020 01:29 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-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-008

Client Sample ID: OW-02M-Q420  
 Collection Date: 10/8/2020 9:11:00 AM  
 Matrix: GROUNDWATER

| Analyses                               | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|----------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| NITRATE/NITRITE-N BY CADMIUM REDUCTION |                   |      |           |      |              |    |                     |
| SM4500-NO3F                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201016B              | QC Batch: R148047 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                   | 2.8               | 0.16 | 0.25      |      | mg/L         | 5  | 10/16/2020 01:29 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-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-009

Client Sample ID: OW-02S-Q420  
 Collection Date: 10/8/2020 10:57:00 AM  
 Matrix: GROUNDWATER

| Analyses                               | Result            | MDL  | PQL       | Qual | Units        | DF | Date Analyzed       |
|----------------------------------------|-------------------|------|-----------|------|--------------|----|---------------------|
| NITRATE/NITRITE-N BY CADMIUM REDUCTION |                   |      |           |      |              |    |                     |
| SM4500-NO3F                            |                   |      |           |      |              |    |                     |
| RunID: NV00922-WC_201016B              | QC Batch: R148047 |      | PrepDate: |      | Analyst: JBB |    |                     |
| Nitrate/Nitrite as N                   | 3.2               | 0.16 | 0.25      |      | mg/L         | 5  | 10/16/2020 01:30 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                                        |    |                                            |



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## ASSET Laboratories

Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 4500N03F\_W\_PGE

|                              |                          |                             |                    |                                  |                                                        |
|------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>MB-R148047</b> | SampType: <b>MBLK</b>    | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>148047</b>                                   |
| Client ID: <b>PBW</b>        | Batch ID: <b>R148047</b> | TestNo: <b>SM4500-NO3</b>   |                    | Analysis Date: <b>10/16/2020</b> | SeqNo: <b>3969644</b>                                  |
| 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: <b>LCS-R148047</b> | SampType: <b>LCS</b>     | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>148047</b>                                   |
| Client ID: <b>LCSW</b>        | Batch ID: <b>R148047</b> | TestNo: <b>SM4500-NO3</b>   |                    | Analysis Date: <b>10/16/2020</b> | SeqNo: <b>3969645</b>                                  |
| Analyte                       | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Nitrate/Nitrite as N          | 0.474                    | 0.050                       | 0.5000             | 0                                | 94.8 85 115                                            |

|                                   |                          |                             |                    |                                  |                                                        |
|-----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042522-004EDUP</b> | SampType: <b>DUP</b>     | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>148047</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R148047</b> | TestNo: <b>SM4500-NO3</b>   |                    | Analysis Date: <b>10/16/2020</b> | SeqNo: <b>3969647</b>                                  |
| Analyte                           | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Nitrate/Nitrite as N              | 2.558                    | 0.25                        |                    |                                  | 2.384 7.04 20                                          |

|                                  |                          |                             |                    |                                  |                                                        |
|----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042522-004EMS</b> | SampType: <b>MS</b>      | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>148047</b>                                   |
| Client ID: <b>ZZZZZZ</b>         | Batch ID: <b>R148047</b> | TestNo: <b>SM4500-NO3</b>   |                    | Analysis Date: <b>10/16/2020</b> | SeqNo: <b>3969648</b>                                  |
| Analyte                          | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Nitrate/Nitrite as N             | 4.783                    | 0.25                        | 2.500              | 2.384                            | 95.9 75 125                                            |

|                                   |                          |                             |                    |                                  |                                                        |
|-----------------------------------|--------------------------|-----------------------------|--------------------|----------------------------------|--------------------------------------------------------|
| Sample ID: <b>N042522-004EMSD</b> | SampType: <b>MSD</b>     | TestCode: <b>4500N03F_W</b> | Units: <b>mg/L</b> | Prep Date:                       | RunNo: <b>148047</b>                                   |
| Client ID: <b>ZZZZZZ</b>          | Batch ID: <b>R148047</b> | TestNo: <b>SM4500-NO3</b>   |                    | Analysis Date: <b>10/16/2020</b> | SeqNo: <b>3969649</b>                                  |
| Analyte                           | Result                   | PQL                         | SPK value          | SPK Ref Val                      | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Nitrate/Nitrite as N              | 5.382                    | 0.25                        | 2.500              | 2.384                            | 120 75 125 4.782 11.8 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 |                                      |   |                                                              |



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## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-001

Client Sample ID: CW-01D-LF-Q420  
 Collection Date: 10/8/2020 2:10:00 PM  
 Matrix: GROUNDWATER

| Analyses                    | Result          | MDL | PQL | Qual      | Units      | DF          | Date Analyzed       |
|-----------------------------|-----------------|-----|-----|-----------|------------|-------------|---------------------|
| TOTAL METALS BY ICP         |                 |     |     |           |            |             |                     |
|                             | EPA 3010A       |     |     | EPA 6010B |            |             |                     |
| RunID: NV00922-ICP2_201021A | QC Batch: 82649 |     |     | PrepDate: | 10/20/2020 | Analyst: DJ |                     |
| Iron                        | 930             | 18  | 20  |           | ug/L       | 1           | 10/21/2020 10:26 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: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-002

Client Sample ID: CW-01M-LF-Q420  
 Collection Date: 10/8/2020 2:11:00 PM  
 Matrix: GROUNDWATER

| Analyses                    | Result          | MDL | PQL | Qual      | Units      | DF          | Date Analyzed       |
|-----------------------------|-----------------|-----|-----|-----------|------------|-------------|---------------------|
| TOTAL METALS BY ICP         |                 |     |     |           |            |             |                     |
|                             | EPA 3010A       |     |     | EPA 6010B |            |             |                     |
| RunID: NV00922-ICP2_201021A | QC Batch: 82649 |     |     | PrepDate: | 10/20/2020 | Analyst: DJ |                     |
| Iron                        | 170             | 18  | 20  |           | ug/L       | 1           | 10/21/2020 10:51 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                                        |    |                                            |



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## ASSET Laboratories

## ANALYTICAL RESULTS

Print Date: 01-Nov-20

CLIENT: ARCADIS U.S., Inc. - California  
 Lab Order: N042522  
 Project: PG&E Topock - CMP, RC000753.801D  
 Lab ID: N042522-004

Client Sample ID: OW-05D-Q420  
 Collection Date: 10/8/2020 12:00:00 PM  
 Matrix: GROUNDWATER

| Analyses                    | Result          | MDL | PQL | Qual      | Units      | DF          | Date Analyzed       |
|-----------------------------|-----------------|-----|-----|-----------|------------|-------------|---------------------|
| TOTAL METALS BY ICP         |                 |     |     |           |            |             |                     |
|                             | EPA 3010A       |     |     | EPA 6010B |            |             |                     |
| RunID: NV00922-ICP2_201021A | QC Batch: 82649 |     |     | PrepDate: | 10/20/2020 | Analyst: DJ |                     |
| Iron                        | 85              | 18  | 20  |           | ug/L       | 1           | 10/21/2020 10:56 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: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-005

**Client Sample ID:** MW-901-Q420  
**Collection Date:** 10/8/2020 2:21:00 PM  
**Matrix:** GROUNDWATER

| Analyses                    | Result           | MDL | PQL | Qual             | Units      | DF          | Date Analyzed       |
|-----------------------------|------------------|-----|-----|------------------|------------|-------------|---------------------|
| <b>TOTAL METALS BY ICP</b>  |                  |     |     |                  |            |             |                     |
|                             | <b>EPA 3010A</b> |     |     | <b>EPA 6010B</b> |            |             |                     |
| RunID: NV00922-ICP2_201021A | QC Batch: 82649  |     |     | PrepDate:        | 10/20/2020 | Analyst: DJ |                     |
| Iron                        | 190              | 18  | 20  |                  | ug/L       | 1           | 10/21/2020 11:09 AM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Lab Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D  
**Lab ID:** N042522-007

**Client Sample ID:** OW-05M-LF-Q420  
**Collection Date:** 10/8/2020 1:03:00 PM  
**Matrix:** GROUNDWATER

| Analyses                    | Result           | MDL | PQL                  | Qual | Units       | DF | Date Analyzed       |
|-----------------------------|------------------|-----|----------------------|------|-------------|----|---------------------|
| <b>TOTAL METALS BY ICP</b>  |                  |     |                      |      |             |    |                     |
|                             | <b>EPA 3010A</b> |     | <b>EPA 6010B</b>     |      |             |    |                     |
| RunID: NV00922-ICP2_201021A | QC Batch: 82649  |     | PrepDate: 10/20/2020 |      | Analyst: DJ |    |                     |
| Iron                        | 2900             | 18  | 20                   |      | ug/L        | 1  | 10/21/2020 11:14 AM |

|                    |    |                                                              |    |                                            |
|--------------------|----|--------------------------------------------------------------|----|--------------------------------------------|
| <b>Qualifiers:</b> | B  | Analyte detected in the associated Method Blank              | E  | Value above quantitation range             |
|                    | H  | Holding times for preparation or analysis exceeded           | ND | Not Detected 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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## ASSET Laboratories

Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 6010\_WPGEPPB

|                            |                        |                                    |                    |                                  |                       |          |           |             |      |          |      |
|----------------------------|------------------------|------------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-82649</b> | SampType: <b>MBLK</b>  | TestCode: <b>6010_WPGE</b>         | Units: <b>ug/L</b> | Prep Date: <b>10/20/2020</b>     | RunNo: <b>148161</b>  |          |           |             |      |          |      |
| Client ID: <b>PBW</b>      | Batch ID: <b>82649</b> | TestNo: <b>EPA 6010B EPA 3010A</b> |                    | Analysis Date: <b>10/21/2020</b> | SeqNo: <b>3975657</b> |          |           |             |      |          |      |
| Analyte                    | Result                 | PQL                                | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Iron                       | ND                     | 20                                 |                    |                                  |                       |          |           |             |      |          |      |

|                              |                        |                                    |                    |                                  |                       |          |           |             |      |          |      |
|------------------------------|------------------------|------------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS1-82649</b> | SampType: <b>LCS</b>   | TestCode: <b>6010_WPGE</b>         | Units: <b>ug/L</b> | Prep Date: <b>10/20/2020</b>     | RunNo: <b>148161</b>  |          |           |             |      |          |      |
| Client ID: <b>LCSW</b>       | Batch ID: <b>82649</b> | TestNo: <b>EPA 6010B EPA 3010A</b> |                    | Analysis Date: <b>10/21/2020</b> | SeqNo: <b>3975659</b> |          |           |             |      |          |      |
| Analyte                      | Result                 | PQL                                | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Iron                         | 103.777                | 20                                 | 100.0              | 0                                | 104                   | 85       | 115       |             |      |          |      |

|                                    |                        |                                    |                    |                                  |                       |          |           |             |      |          |      |
|------------------------------------|------------------------|------------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-001F-MS1</b> | SampType: <b>MS</b>    | TestCode: <b>6010_WPGE</b>         | Units: <b>ug/L</b> | Prep Date: <b>10/20/2020</b>     | RunNo: <b>148161</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82649</b> | TestNo: <b>EPA 6010B EPA 3010A</b> |                    | Analysis Date: <b>10/21/2020</b> | SeqNo: <b>3975663</b> |          |           |             |      |          |      |
| Analyte                            | Result                 | PQL                                | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Iron                               | 966.704                | 20                                 | 100.0              | 925.7                            | 41.0                  | 75       | 125       |             |      |          | S    |

|                                    |                        |                                    |                    |                                  |                       |          |           |             |      |          |      |
|------------------------------------|------------------------|------------------------------------|--------------------|----------------------------------|-----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>N042522-001F-MSD</b> | SampType: <b>MSD</b>   | TestCode: <b>6010_WPGE</b>         | Units: <b>ug/L</b> | Prep Date: <b>10/20/2020</b>     | RunNo: <b>148161</b>  |          |           |             |      |          |      |
| Client ID: <b>ZZZZZZ</b>           | Batch ID: <b>82649</b> | TestNo: <b>EPA 6010B EPA 3010A</b> |                    | Analysis Date: <b>10/21/2020</b> | SeqNo: <b>3975664</b> |          |           |             |      |          |      |
| Analyte                            | Result                 | PQL                                | SPK value          | SPK Ref Val                      | %REC                  | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Iron                               | 977.218                | 20                                 | 100.0              | 925.7                            | 51.5                  | 75       | 125       | 966.7       | 1.08 | 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 |                                      |   |                                                              |



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 3151 W. Post Rd., Las Vegas, NV 89118  
 ELAP Cert 2676 | NV Cert NV00922  
 ORELAP/NELAP Cert 4046

## ASSET Laboratories

Date: 01-Nov-20

**CLIENT:** ARCADIS U.S., Inc. - California  
**Work Order:** N042522  
**Project:** PG&E Topock - CMP, RC000753.801D

## ANALYTICAL QC SUMMARY REPORT

TestCode: 6010\_WPGEPPB

|                                   |  |                        |  |                            |           |                    |      |                                  |           |             |                       |          |      |
|-----------------------------------|--|------------------------|--|----------------------------|-----------|--------------------|------|----------------------------------|-----------|-------------|-----------------------|----------|------|
| Sample ID: <b>N042522-001F-PS</b> |  | SampType: <b>PS</b>    |  | TestCode: <b>6010_WPGE</b> |           | Units: <b>ug/L</b> |      | Prep Date:                       |           |             | RunNo: <b>148161</b>  |          |      |
| Client ID: <b>ZZZZZZ</b>          |  | Batch ID: <b>82649</b> |  | TestNo: <b>EPA 6010B</b>   |           | <b>EPA 3010A</b>   |      | Analysis Date: <b>10/21/2020</b> |           |             | SeqNo: <b>3975662</b> |          |      |
| Analyte                           |  | Result                 |  | PQL                        | SPK value | SPK Ref Val        | %REC | LowLimit                         | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Iron                              |  | 1413.493               |  | 20                         | 100.0     | 925.7              | 488  | 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 |                                      |   |                                                              |



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|                                                                                                                      |  |                                                                                                              |  |                                                                                                              |  |                                                                                                              |  |                                                                                                              |  |                                                                                                              |  |
|----------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------|--|
| Client: Arcadis                                                                                                      |  | Report to: Dan Bush                                                                                          |  | Bill to: Marty Bloes                                                                                         |  | EDD Requirement                                                                                              |  | QA/QC                                                                                                        |  | Sample Receipt Condition                                                                                     |  |
| Address: 1410 Rocky Ridge Dr # 330                                                                                   |  | Company: Arcadis                                                                                             |  | Address:                                                                                                     |  | Excel EDD                                                                                                    |  | RTNE                                                                                                         |  | Y N                                                                                                          |  |
| Address: Roseville, CA 95661                                                                                         |  | Email: dan.bush@arcadis.com<br>daniel.moore@critigen.com                                                     |  | Address:                                                                                                     |  | Geotracker                                                                                                   |  | RWQCB                                                                                                        |  | <input checked="" type="checkbox"/>                                                                          |  |
| Phone: 916-786-3302                                                                                                  |  | Fax:                                                                                                         |  | Address:                                                                                                     |  | Labspec                                                                                                      |  | CalTrans                                                                                                     |  |                                                                                                              |  |
| Submitted By:                                                                                                        |  | Address: 1410 Rocky Ridge Dr # 330<br>Roseville, CA 95661                                                    |  | Email to: mbloes@pivox.com                                                                                   |  | P.O.#                                                                                                        |  | Others                                                                                                       |  | <input checked="" type="checkbox"/>                                                                          |  |
| Title:                                                                                                               |  | Phone: 916-786-3302                                                                                          |  | Fax:                                                                                                         |  | Specify:                                                                                                     |  | RWQCB                                                                                                        |  | LEVEL III                                                                                                    |  |
| Signature:                                                                                                           |  | Date:                                                                                                        |  | Ground-water                                                                                                 |  | 250 mL poly                                                                                                  |  | 1 L poly                                                                                                     |  | 1 L poly                                                                                                     |  |
| I hereby authorize ASSET Labs to perform the tests indicated below.                                                  |  | Sampled By:                                                                                                  |  | Potable                                                                                                      |  | Soil                                                                                                         |  | NPDES                                                                                                        |  | Other Solid                                                                                                  |  |
| Project Name: PG&E Topcock - CMP                                                                                     |  | Signature:                                                                                                   |  | Date:                                                                                                        |  | Surface                                                                                                      |  | Turn Around Time (TAT)                                                                                       |  | Special Instruction:                                                                                         |  |
| Project Number: RC000753.801D                                                                                        |  | Sample ID/Location                                                                                           |  | Sample Date                                                                                                  |  | Sample Time                                                                                                  |  | Others                                                                                                       |  | Remarks                                                                                                      |  |
| Item No.                                                                                                             |  | Laboratory Work Order No.                                                                                    |  | Sample ID/Location                                                                                           |  | Sample Date                                                                                                  |  | Sample Time                                                                                                  |  | Others                                                                                                       |  |
| 1                                                                                                                    |  | CW-01D-LF-Q420                                                                                               |  | 10/8/2020                                                                                                    |  | 14:40                                                                                                        |  |                                                                                                              |  |                                                                                                              |  |
| 2                                                                                                                    |  | CW-01M-LF-Q420                                                                                               |  | 10/8/2020                                                                                                    |  | 14:11                                                                                                        |  |                                                                                                              |  |                                                                                                              |  |
| 3                                                                                                                    |  | OW-05S-LF-Q420                                                                                               |  | 10/8/2020                                                                                                    |  | 11:51                                                                                                        |  |                                                                                                              |  |                                                                                                              |  |
| 4                                                                                                                    |  | OW-05D-Q420                                                                                                  |  | 10/8/2020                                                                                                    |  | 12:00                                                                                                        |  |                                                                                                              |  |                                                                                                              |  |
| 5                                                                                                                    |  | MW-901-Q420                                                                                                  |  | 10/8/2020                                                                                                    |  | 14:21                                                                                                        |  |                                                                                                              |  |                                                                                                              |  |
| 6                                                                                                                    |  | N042522-06                                                                                                   |  | OW-02D-Q420                                                                                                  |  | 10/8/2020                                                                                                    |  | 10:19                                                                                                        |  |                                                                                                              |  |
| 7                                                                                                                    |  | OW-05M-LF-Q420                                                                                               |  | 10/8/2020                                                                                                    |  | 13:03                                                                                                        |  |                                                                                                              |  |                                                                                                              |  |
| 8                                                                                                                    |  | -08                                                                                                          |  | OW-02M-Q420                                                                                                  |  | 10/8/2020                                                                                                    |  | 9:11                                                                                                         |  |                                                                                                              |  |
| 9                                                                                                                    |  | -09                                                                                                          |  | OW-02S-Q420                                                                                                  |  | 10/8/2020                                                                                                    |  | 10:57                                                                                                        |  |                                                                                                              |  |
| 10                                                                                                                   |  |                                                                                                              |  | EB-758-Q420                                                                                                  |  | 10/8/2020                                                                                                    |  | 14:50                                                                                                        |  |                                                                                                              |  |
| 11                                                                                                                   |  |                                                                                                              |  | EB-757-Q420                                                                                                  |  | 10/8/2020                                                                                                    |  | 14:40                                                                                                        |  |                                                                                                              |  |
| Relinquished by (Signature and Printed Name):                                                                        |  | Date/Time:                                                                                                   |  | Relinquished by (Signature and Printed Name):                                                                |  | Date/Time:                                                                                                   |  | Relinquished by (Signature and Printed Name):                                                                |  | Date/Time:                                                                                                   |  |
| Relinquished by (Signature and Printed Name):                                                                        |  | Date/Time:                                                                                                   |  | Relinquished by (Signature and Printed Name):                                                                |  | Date/Time:                                                                                                   |  | Relinquished by (Signature and Printed Name):                                                                |  | Date/Time:                                                                                                   |  |
| Relinquished by (Signature and Printed Name):                                                                        |  | Date/Time:                                                                                                   |  | Relinquished by (Signature and Printed Name):                                                                |  | Date/Time:                                                                                                   |  | Relinquished by (Signature and Printed Name):                                                                |  | Date/Time:                                                                                                   |  |
| Terms                                                                                                                |  | 5. Trip Blanks and Equipment Blanks are billable sample.                                                     |  | 5. Trip Blanks and Equipment Blanks are billable sample.                                                     |  | 6. Asset Laboratories is not responsible for samples collected using incorrect methodology.                  |  | 6. Asset Laboratories is not responsible for samples collected using incorrect methodology.                  |  | 6. Asset Laboratories is not responsible for samples collected using incorrect methodology.                  |  |
| 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                                 |  | 2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis                                 |  | 2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis                                 |  | 2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis                                 |  | 2. Regular TAT is 5-7 business days, surcharges will apply for rush analysis                                 |  |
| Less than 24 Hrs.=200% Next Day=100% 3 Workdays=50% 4 Workdays=20%                                                   |  | Less than 24 Hrs.=200% Next Day=100% 3 Workdays=50% 4 Workdays=20%                                           |  | Less than 24 Hrs.=200% Next Day=100% 3 Workdays=50% 4 Workdays=20%                                           |  | Less than 24 Hrs.=200% Next Day=100% 3 Workdays=50% 4 Workdays=20%                                           |  | Less than 24 Hrs.=200% Next Day=100% 3 Workdays=50% 4 Workdays=20%                                           |  | Less than 24 Hrs.=200% Next Day=100% 3 Workdays=50% 4 Workdays=20%                                           |  |
| 3. Custom EDD formats will be an additional 3% of the total project price.                                           |  | 3. Custom EDD formats will be an additional 3% of the total project price.                                   |  | 3. Custom EDD formats will be an additional 3% of the total project price.                                   |  | 3. Custom EDD formats will be an additional 3% of the total project price.                                   |  | 3. Custom EDD formats will be an additional 3% of the total project price.                                   |  | 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         |  | 4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total |  | 4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total |  | 4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total |  | 4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total |  | 4. Add 10% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharge applied on total |  |
| Preservatives:                                                                                                       |  | H=HCL                                                                                                        |  | N=HNO3                                                                                                       |  | S=H2SO4                                                                                                      |  | C=4°C                                                                                                        |  | Container Type:                                                                                              |  |
| Z=Zn(AC)2                                                                                                            |  | O=NaOH                                                                                                       |  | T=Na2S2O3                                                                                                    |  |                                                                                                              |  |                                                                                                              |  | J=Jar                                                                                                        |  |
| Others/Specify:                                                                                                      |  | B                                                                                                            |  | (NH4)2SO4/NH4OH                                                                                              |  |                                                                                                              |  |                                                                                                              |  | M=Metal                                                                                                      |  |
| TAT Starts at 8 AM the following day if samples received after 3:00PM.                                               |  |                                                                                                              |  |                                                                                                              |  |                                                                                                              |  |                                                                                                              |  | G=Glass                                                                                                      |  |
|                                                                                                                      |  |                                                                                                              |  |                                                                                                              |  |                                                                                                              |  |                                                                                                              |  | C=Can                                                                                                        |  |

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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: 10/8/2020

Workorder: N042522

Rep sample Temp (Deg C): 2.6/1.8

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

Comments:

Checklist Completed By: BHN *BHdez* 10/9/2020

Reviewed By:

*MBC*

10/12/2020



**Subject:** RE: N042522 COC and Work Order Summary for Samples Received 10/8/2020  
**From:** "Madsen, Laura" <Laura.Madsen@arcadis.com>  
**Date:** 10/12/2020, 2:19 PM  
**To:** "samplecontrol.lv@assetlaboratories.com" <samplecontrol.lv@assetlaboratories.com>, Yoandra Rodriguez <yoandra@assetlaboratories.com>, "Andreafe. Gallardo" <andrea.gallardo@assetlaboratories.com>  
**CC:** Tina Rice <Tina.Rice@critigen.com>

Hi Yoandra,

The COC submitted with the samples had some extra analytes inadvertently marked. Please use this revised COC for Samples:

OW-02D-Q420  
OW-02M-Q420  
OW-02S-Q420

Can you please revise the lab login?

Thanks!

Laura

**From:** Sample Control <samplecontrol.lv@assetlaboratories.com>  
**Sent:** Friday, October 9, 2020 1:46 PM  
**To:** Bush, Dan <Dan.Bush@arcadis.com>; Dan Moore <Daniel.Moore@critigen.com>  
**Cc:** Madsen, Laura <Laura.Madsen@arcadis.com>; Sean.Maurel@arcadis.com; Tina Rice <Tina.Rice@critigen.com>; rsunjara@blainetech.com; Nicholas.Vadpey@arcadis.com; Harmon, Alison <Ali.Harmon@arcadis.com>; Serna, Erica <Erica.Serna@arcadis.com>; Borelis, Mariah <Mariah.Borelis@arcadis.com>; Bloes, Marty <mbloes@pivox.com>; ntep@blainetech.com  
**Subject:** N042522 COC and Work Order Summary for Samples Received 10/8/2020

Hi Dan Bush:

Enclosed are COC and WO Summary for samples received 10/8/2020. If you have any questions, please contact your Project Manager listed below.



A new column "Matrix\_Spike" has been added in the excel file. If the "MS/MSD" field is ticked when logging in the testcode, the "Matrix\_Spike" column will be marked "YES".

**Marlon Cartin**

3151 W. Post Road

Las Vegas, Nevada

89118

**Tel. No.:** (702)-307-2659 Ext. 410

**Cel. No.:** (702)-439-0421

**Email:** [marlon@assetlaboratories.com](mailto:marlon@assetlaboratories.com)

Thank you for using ASSET Laboratories.

Sincerely,

Mary Ann Balilu

Sample Control Officer



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Nevada: 3151 W. Post Road, Las Vegas, NV 89118 | **P:** 702.307.2659 | **F:** 702.307.2691

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— Attachments: —

Topock COC\_CMP\_4Q 10.8.20.xlsx

70.6 KB

# ASSET Laboratories

## WORK ORDER Summary

12-Oct-20

**WorkOrder:** N042522

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/8/2020

**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 |
|--------------|------------------|----------------------|------------|-------------|-------------|-------------------------------------------|--------------------------|--------------------------|-------------------------------------|---------|
| N042522-001A | CW-01D-LF-Q420   | 10/8/2020 2:10:00 PM | 10/22/2020 | Groundwater | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-001B |                  |                      | 10/22/2020 |             | SM4500-NH3D | AMMONIA-N BY ION SELECTIVE ELECTRODE      | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SUB     |
| N042522-001C |                  |                      | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 245.1   | DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             |             | DISSOLVED MERCURY PREP                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-001D |                  |                      | 10/22/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             |             | Total Dissolved Solids Prep               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | SM 2130B    | TURBIDITY                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | SM 2320 B   | ALKALINITY, SPECIATED                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | SM 1030F1   | Cation-Anion Balance Calculation          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-001E |                  |                      | 10/22/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-001F |                  |                      | 10/22/2020 |             | EPA 3010A   | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 6010B   | TOTAL METALS BY ICP                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |

# ASSET Laboratories

## WORK ORDER Summary

12-Oct-20

**WorkOrder:** N042522

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/8/2020

**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 |
|--------------|------------------|----------------------|------------|-------------|-------------|-------------------------------------------|--------------------------|--------------------------|-------------------------------------|---------|
| N042522-002A | CW-01M-LF-Q420   | 10/8/2020 2:11:00 PM | 10/22/2020 | Groundwater | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-002B |                  |                      | 10/22/2020 |             | SM4500-NH3D | AMMONIA-N BY ION SELECTIVE ELECTRODE      | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SUB     |
| N042522-002C |                  |                      | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 245.1   | DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             |             | DISSOLVED MERCURY PREP                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-002D |                  |                      | 10/22/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             |             | Total Dissolved Solids Prep               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | SM 2130B    | TURBIDITY                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | SM 2320 B   | ALKALINITY, SPECIATED                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | SM 1030F1   | Cation-Anion Balance Calculation          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-002E |                  |                      | 10/22/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-002F |                  |                      | 10/22/2020 |             | EPA 3010A   | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 6010B   | TOTAL METALS BY ICP                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |

# ASSET Laboratories

## WORK ORDER Summary

12-Oct-20

**WorkOrder:** N042522

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/8/2020

**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 |
|--------------|------------------|-----------------------|------------|-------------|-------------|----------------------------------------|--------------------------|--------------------------|-------------------------------------|---------|
| N042522-003A | OW-05S-LF-Q420   | 10/8/2020 11:51:00 AM | 10/22/2020 | Groundwater | EPA 218.6   | Hexavalent Chromium by IC              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-003B |                  |                       | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICP-MS             | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-003C |                  |                       | 10/22/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             |             | Total Dissolved Solids Prep            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM 2130B    | TURBIDITY                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM 1030F1   | Cation-Anion Balance Calculation       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-003D |                  |                       | 10/22/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-004A | OW-05D-Q420      | 10/8/2020 12:00:00 PM | 10/22/2020 |             | EPA 218.6   | Hexavalent Chromium by IC              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-004B |                  |                       | 10/22/2020 |             | SM4500-NH3D | AMMONIA-N BY ION SELECTIVE ELECTRODE   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SUB     |
| N042522-004C |                  |                       | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |

# ASSET Laboratories

## WORK ORDER Summary

12-Oct-20

**WorkOrder:** N042522

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/8/2020

**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 |
|--------------|------------------|-----------------------|------------|-------------|-------------|-------------------------------------------|--------------------------|--------------------------|-------------------------------------|---------|
| N042522-004C | OW-05D-Q420      | 10/8/2020 12:00:00 PM | 10/22/2020 | Groundwater | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 245.1   | DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             |             | DISSOLVED MERCURY PREP                    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-004D |                  |                       | 10/22/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             |             | Total Dissolved Solids Prep               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM 2130B    | TURBIDITY                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM 2320 B   | ALKALINITY, SPECIATED                     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM 1030F1   | Cation-Anion Balance Calculation          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-004E |                  |                       | 10/22/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-004F |                  |                       | 10/22/2020 |             | EPA 3010A   | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 6010B   | TOTAL METALS BY ICP                       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-005A | MW-901-Q420      | 10/8/2020 2:21:00 PM  | 10/22/2020 |             | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-005B |                  |                       | 10/22/2020 |             | SM4500-NH3D | AMMONIA-N BY ION SELECTIVE ELECTRODE      | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SUB     |
| N042522-005C |                  |                       | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |

# ASSET Laboratories

## WORK ORDER Summary

12-Oct-20

**WorkOrder:** N042522

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/8/2020

**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 |
|--------------|------------------|-----------------------|------------|-------------|-------------|-------------------------------------------|-------------------------------------|--------------------------|-------------------------------------|---------|
| N042522-005C | MW-901-Q420      | 10/8/2020 2:21:00 PM  | 10/22/2020 | Groundwater | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 245.1   | DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             |             | DISSOLVED MERCURY PREP                    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-005D |                  |                       | 10/22/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                      | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             |             | Total Dissolved Solids Prep               | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM 2130B    | TURBIDITY                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM 2320 B   | ALKALINITY, SPECIATED                     | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM 1030F1   | Cation-Anion Balance Calculation          | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-005E |                  |                       | 10/22/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-005F |                  |                       | 10/22/2020 |             | EPA 3010A   | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 6010B   | TOTAL METALS BY ICP                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-006A | OW-02D-Q420      | 10/8/2020 10:19:00 AM | 10/22/2020 |             | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-006B |                  |                       | 10/22/2020 |             | SM4500-NH3D | AMMONIA-N BY ION SELECTIVE ELECTRODE      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SUB     |
| N042522-006C |                  |                       | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |

# ASSET Laboratories

## WORK ORDER Summary

12-Oct-20

**WorkOrder:** N042522

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/8/2020

**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 |
|--------------|------------------|-----------------------|------------|-------------|-------------|-------------------------------------------|-------------------------------------|--------------------------|-------------------------------------|---------|
| N042522-006C | OW-02D-Q420      | 10/8/2020 10:19:00 AM | 10/22/2020 | Groundwater | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 245.1   | DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             |             | DISSOLVED MERCURY PREP                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-006D |                  |                       | 10/22/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                      | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             |             | Total Dissolved Solids Prep               | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM 2130B    | TURBIDITY                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM 2320 B   | ALKALINITY, SPECIATED                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | SM 1030F1   | Cation-Anion Balance Calculation          | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-006E |                  |                       | 10/22/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-006F |                  |                       | 10/22/2020 |             | EPA 3010A   | AQPREP TOTAL METALS: ICP, FLAA            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 6010B   | TOTAL METALS BY ICP                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-007A | OW-05M-LF-Q420   | 10/8/2020 1:03:00 PM  | 10/22/2020 |             | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-007B |                  |                       | 10/22/2020 |             | SM4500-NH3D | AMMONIA-N BY ION SELECTIVE ELECTRODE      | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SUB     |
| N042522-007C |                  |                       | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |



# ASSET Laboratories

## WORK ORDER Summary

12-Oct-20

**WorkOrder:** N042522

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/8/2020

**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 |
|--------------|------------------|----------------------|------------|-------------|-------------|-------------------------------------------|-------------------------------------|--------------------------|-------------------------------------|---------|
| N042522-007C | OW-05M-LF-Q420   | 10/8/2020 1:03:00 PM | 10/22/2020 | Groundwater | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 245.1   | DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             |             | DISSOLVED MERCURY PREP                    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-007D |                  |                      | 10/22/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                      | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             |             | Total Dissolved Solids Prep               | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | SM 2130B    | TURBIDITY                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | SM 2320 B   | ALKALINITY, SPECIATED                     | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | SM 1030F1   | Cation-Anion Balance Calculation          | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-007E |                  |                      | 10/22/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-007F |                  |                      | 10/22/2020 |             | EPA 3010A   | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 6010B   | TOTAL METALS BY ICP                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-008A | OW-02M-Q420      | 10/8/2020 9:11:00 AM | 10/22/2020 |             | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
| N042522-008B |                  |                      | 10/22/2020 |             | SM4500-NH3D | AMMONIA-N BY ION SELECTIVE ELECTRODE      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SUB     |
| N042522-008C |                  |                      | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |
|              |                  |                      | 10/22/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | WW      |

# ASSET Laboratories

## WORK ORDER Summary

12-Oct-20

**WorkOrder:** N042522

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/8/2020

**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 |
|--------------|------------------|-----------------------|------------|-------------|-------------|-------------------------------------------|-------------------------------------|--------------------------|--------------------------|---------|
| N042522-008C | OW-02M-Q420      | 10/8/2020 9:11:00 AM  | 10/22/2020 | Groundwater | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 245.1   | DISSOLVED MERCURY BY COLD VAPOR TECHNIQUE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             |             | DISSOLVED MERCURY PREP                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042522-008D |                  |                       | 10/22/2020 |             | EPA 120.1   | SPECIFIC CONDUCTANCE                      | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             |             | Total Dissolved Solids Prep               | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | SM 2130B    | TURBIDITY                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | SM 2320 B   | ALKALINITY, SPECIATED                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY              | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | SM 1030F1   | Cation-Anion Balance Calculation          | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042522-008E |                  |                       | 10/22/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION    | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042522-008F |                  |                       | 10/22/2020 |             | EPA 3010A   | AQPREP TOTAL METALS: ICP, FLAA            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 6010B   | TOTAL METALS BY ICP                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042522-009A | OW-02S-Q420      | 10/8/2020 10:57:00 AM | 10/22/2020 |             | EPA 218.6   | Hexavalent Chromium by IC                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042522-009B |                  |                       | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 200.7   | DISSOLVED METALS BY ICP                   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             |             | AQPREP TOTAL METALS: ICP, FLAA            | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICPMS                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 200.8   | DISSOLVED METALS BY ICP-MS                | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | WW      |

# ASSET Laboratories

## WORK ORDER Summary

12-Oct-20

**WorkOrder:** N042522

**Client ID:** ARCUS02

**Project:** PG&E Topock - CMP, RC000753.801D

**QC Level:** Level IV

**Date Received:** 10/8/2020

**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 |
|--------------|------------------|-----------------------|------------|-------------|-------------|----------------------------------------|--------------------------|--------------------------|--------------------------|---------|
| N042522-009C | OW-02S-Q420      | 10/8/2020 10:57:00 AM | 10/22/2020 | Groundwater | EPA 120.1   | SPECIFIC CONDUCTANCE                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | SM2540C     | TOTAL FILTERABLE RESIDUE               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             |             | Total Dissolved Solids Prep            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | SM 2130B    | TURBIDITY                              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | EPA 300.0   | ANIONS BY ION CHROMATOGRAPHY           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
|              |                  |                       | 10/22/2020 |             | SM 1030F1   | Cation-Anion Balance Calculation       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042522-009D |                  |                       | 10/22/2020 |             | SM4500-NO3F | NITRATE/NITRITE-N BY CADMIUM REDUCTION | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042522-010A | EB-758-Q420      | 10/8/2020 2:50:00 PM  | 10/22/2020 |             | EPA 218.6   | Hexavalent Chromium by IC              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042522-011A | EB-757-Q420      | 10/8/2020 2:40:00 PM  | 10/22/2020 |             | EPA 218.6   | Hexavalent Chromium by IC              | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | WW      |
| N042522-012A | FOLDER           | 10/22/2020            | 10/22/2020 |             | EDD         | RWQCB                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB     |
|              |                  |                       | 10/22/2020 |             | Folder      | Folder                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB     |
|              |                  |                       | 10/22/2020 |             | Folder      | Level IV Report                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB     |
|              |                  |                       | 10/22/2020 |             | Folder      | Folder                                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | LAB     |



## ASSET Laboratories

3151-3153 W Post Rd., Las Vegas, NV 89118

www.atl-labs.com

TEL: 7023072659

FAX: 7023072691

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

QC Level: Level IV

**Subcontractor:**

BC Labs  
4100 Atlas Court  
Bakersfield, CA 93308

TEL: (661) 327-4911  
FAX: (661) 327-1918  
Acct #:

Field Sampler: Signed

12-Oct-20

| Sample ID                     | Matrix      | Date Collected        | Bottle Type | Requested Tests |  |  |
|-------------------------------|-------------|-----------------------|-------------|-----------------|--|--|
|                               |             |                       |             | SM4500-NH3D     |  |  |
| N042522-001B / CW-01D-LF-Q420 | Groundwater | 10/8/2020 2:10:00 PM  | 16OZP       | 1               |  |  |
| N042522-002B / CW-01M-LF-Q420 | Groundwater | 10/8/2020 2:11:00 PM  | 16OZP       | 1               |  |  |
| N042522-004B / OW-05D-Q420    | Groundwater | 10/8/2020 12:00:00 PM | 16OZP       | 1               |  |  |
| N042522-005B / MW-901-Q420    | Groundwater | 10/8/2020 2:21:00 PM  | 16OZP       | 1               |  |  |
| N042522-007B / OW-05M-LF-Q420 | Groundwater | 10/8/2020 1:03:00 PM  | 16OZP       | 1               |  |  |

General Comments: PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com

Please use PO#:N42522A Please email Invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: Standard TAT.

Please analyze for Ammonia by SM500NH3D. EDD requirement Labspec7 edata,

GSO #: 500755104

|                             |                 |                    |           |
|-----------------------------|-----------------|--------------------|-----------|
|                             | Date/Time       |                    | Date/Time |
| Relinquished by: <u>YLT</u> | 10/12/2020 1630 | Received by: _____ | _____     |
| Relinquished by: _____      | _____           | Received by: _____ | _____     |



**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949



Date of Report: 10/16/2020

Marlon B. Cartin

ASSET Laboratories- Las Vegas

3151-3153 W. Post Rd  
Las Vegas, NV 89118

Client Project: N042522

BCL Project: Level IV + labSpec7

BCL Work Order: 2030020

Invoice ID: B395030

Enclosed are the results of analyses for samples received by the laboratory on 10/13/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval  
Client Service Rep

Stuart Buttram  
Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



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**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 2030020 Page 1 of 2

**CHAIN-OF-CUSTODY RECORD**

**ASSET Laboratories**  
3151-3153 W Post Rd., Las Vegas, NV 89118  
www.asl-labs.com  
TEL: 7023072659 FAX: 7023072691

Page 1 of 1

QC Level: Level IV

Field Sampler: Signed

Subcontractor:

BC Labs

4100 Atlas Court

Bakersfield, CA 93308

TEL: (661) 327-4911

FAX: (661) 327-1918

Acct #:

20-30020

12-Oct-20

| Sample ID                       | Matrix      | Date Collected        | Bottle Type | Requested Tests |
|---------------------------------|-------------|-----------------------|-------------|-----------------|
| 1 N042522-001B / CW-01D-LF-Q420 | Groundwater | 10/8/2020 2:10:00 PM  | 16OZP       | 1               |
| 2 N042522-002B / CW-01M-LF-Q420 | Groundwater | 10/8/2020 2:11:00 PM  | 16OZP       | 1               |
| 3 N042522-004B / CW-05D-Q420    | Groundwater | 10/8/2020 12:00:00 PM | 16OZP       | 1               |
| 4 N042522-005B / MW-901-Q420    | Groundwater | 10/8/2020 2:21:00 PM  | 16OZP       | 1               |
| 5 N042522-007B / CW-05M-LF-Q420 | Groundwater | 10/8/2020 1:03:00 PM  | 16OZP       | 1               |

CHAIN BY [Signature] DISTRIBUTION [Signature]  
SUB OUT ☐

General Comments:

PLEASE EMAIL SAMPLE RECEIPT ACKNOWLEDGEMENT TO THE PM. ALWAYS CC: sonny.lorenzo@assetlaboratories.com

Please use PO#N42522A

Please email invoices and Account Receivable Statements to elvira@assetlaboratories.com. For questions, call Marlon at (702)-307-2659. Please e-mail results to reports.lv@assetlaboratories.com by: Standard TAT.

Please analyze for Ammonia by SM500NH3D. EDO requirement LabSpec7 edata.

GSO #: 500755104

|                                     |                                   |                                 |                                  |
|-------------------------------------|-----------------------------------|---------------------------------|----------------------------------|
| Relinquished by: <u>[Signature]</u> | Date/Time: <u>10/12/2020 1630</u> | Received by: <u>[Signature]</u> | Date/Time: <u>10-13-20 10:00</u> |
| Relinquished by: _____              | Date/Time: _____                  | Received by: _____              | Date/Time: _____                 |

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 2030020 Page 2 of 2

| BC LABORATORIES INC.                                                                                                                                                                                                                                                            |  | COOLER RECEIPT FORM                                                   |                                                                                                          | Page 1 of 1                    |                                                          |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------|--|--|--|--|--|--|
| Submission #: <u>2030020</u>                                                                                                                                                                                                                                                    |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| <b>SHIPPING INFORMATION</b>                                                                                                                                                                                                                                                     |  |                                                                       | <b>SHIPPING CONTAINER</b>                                                                                |                                | <b>FREE LIQUID</b>                                       |  |  |  |  |  |  |
| Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/>                                                                                                                                             |  |                                                                       | Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> |                                | YES <input type="checkbox"/> NO <input type="checkbox"/> |  |  |  |  |  |  |
| BC Lab Field Service <input type="checkbox"/> Other <input checked="" type="checkbox"/> (Specify) <u>GLS</u>                                                                                                                                                                    |  |                                                                       | Other <input type="checkbox"/> (Specify) _____                                                           |                                | W / S                                                    |  |  |  |  |  |  |
| Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____                                                                                                             |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____                                                                                                                                  |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>                                                                                                                                               |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| COC Received                                                                                                                                                                                                                                                                    |  | Emissivity: <u>97</u> Container: <u>PE</u> Thermometer ID: <u>274</u> |                                                                                                          | Date/Time <u>10-13-20 1010</u> |                                                          |  |  |  |  |  |  |
| <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                                                                                                                                                                                                             |  | Temperature: (A) <u>3.4</u> °C / (C) <u>3.2</u> °C                    |                                                                                                          | Analyst Init <u>TKJ</u>        |                                                          |  |  |  |  |  |  |
| SAMPLE CONTAINERS                                                                                                                                                                                                                                                               |  | SAMPLE NUMBERS                                                        |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                 |  | 1 2 3 4 5 6 7 8 9 10                                                  |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| QT FR UNPRES                                                                                                                                                                                                                                                                    |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| 4oz / Box / 16oz PE UNPRES                                                                                                                                                                                                                                                      |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| 2oz Cr <sup>6</sup>                                                                                                                                                                                                                                                             |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| QT INORGANIC CHEMICAL METALS                                                                                                                                                                                                                                                    |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz                                                                                                                                                                                                                                      |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| PT CYANIDE                                                                                                                                                                                                                                                                      |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| PT NITROGEN FORMS                                                                                                                                                                                                                                                               |  | A A A A A                                                             |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| PT TOTAL SULFIDE                                                                                                                                                                                                                                                                |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| 2oz NITRATE / NITRITE                                                                                                                                                                                                                                                           |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| PT TOTAL ORGANIC CARBON                                                                                                                                                                                                                                                         |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| PT CHEMICAL OXYGEN DEMAND                                                                                                                                                                                                                                                       |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| PIA PHENOLICS                                                                                                                                                                                                                                                                   |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| 40ml VOA VIAL TRAVEL BLANK                                                                                                                                                                                                                                                      |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| 40ml VOA VIAL                                                                                                                                                                                                                                                                   |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| QT EPA 1664                                                                                                                                                                                                                                                                     |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| PT ODOR                                                                                                                                                                                                                                                                         |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| RADIOLOGICAL                                                                                                                                                                                                                                                                    |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| BACTERIOLOGICAL                                                                                                                                                                                                                                                                 |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| 40 ml VOA VIAL- 504                                                                                                                                                                                                                                                             |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| QT EPA 508/608/8080                                                                                                                                                                                                                                                             |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| QT EPA 515.1/8150                                                                                                                                                                                                                                                               |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| QT EPA 525                                                                                                                                                                                                                                                                      |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| QT EPA 525 TRAVEL BLANK                                                                                                                                                                                                                                                         |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| 40ml EPA 547                                                                                                                                                                                                                                                                    |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| 40ml EPA 531.1                                                                                                                                                                                                                                                                  |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| 3oz EPA 548                                                                                                                                                                                                                                                                     |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| QT EPA 549                                                                                                                                                                                                                                                                      |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| QT EPA 8015M                                                                                                                                                                                                                                                                    |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| QT EPA 8270                                                                                                                                                                                                                                                                     |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| 3oz / 16oz / 32oz AMBER                                                                                                                                                                                                                                                         |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| 3oz / 16oz / 32oz JAR                                                                                                                                                                                                                                                           |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| SOIL SIEVE                                                                                                                                                                                                                                                                      |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| PCB VIAL                                                                                                                                                                                                                                                                        |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| PLASTIC BAG                                                                                                                                                                                                                                                                     |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| TEDLAR BAG                                                                                                                                                                                                                                                                      |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| FERROUS IRON                                                                                                                                                                                                                                                                    |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| INCORE                                                                                                                                                                                                                                                                          |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| SMART KIT                                                                                                                                                                                                                                                                       |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| UMMA CANISTER                                                                                                                                                                                                                                                                   |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| Comments: _____                                                                                                                                                                                                                                                                 |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| Sample Numbering Completed By: <u>GJR</u> Date/Time: <u>10/13 1826</u>                                                                                                                                                                                                          |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| = Actual / C = Corrected                                                                                                                                                                                                                                                        |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| Rev 21 05/23/2016                                                                                                                                                                                                                                                               |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |
| B:\WPDoc\WordPerfect\LAB_DOCS\FORMS\ISANRECrev 201                                                                                                                                                                                                                              |  |                                                                       |                                                                                                          |                                |                                                          |  |  |  |  |  |  |

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ASSET Laboratories- Las Vegas  
3151-3153 W. Post Rd  
Las Vegas, NV 89118

**Reported:** 10/16/2020 14:55  
**Project:** Level IV + labSpec7  
**Project Number:** N042522  
**Project Manager:** Marlon B. Cartin

## Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information |                               |                       |                  |
|------------|---------------------------|-------------------------------|-----------------------|------------------|
| 2030020-01 | <b>COC Number:</b>        | ---                           | <b>Receive Date:</b>  | 10/13/2020 10:10 |
|            | <b>Project Number:</b>    | ---                           | <b>Sampling Date:</b> | 10/08/2020 14:10 |
|            | <b>Sampling Location:</b> | ---                           | <b>Sample Depth:</b>  | ---              |
|            | <b>Sampling Point:</b>    | N042522-001B / CW-01D-LF-Q420 | <b>Lab Matrix:</b>    | Water            |
|            | <b>Sampled By:</b>        | Client                        | <b>Sample Type:</b>   | Groundwater      |
|            |                           |                               |                       |                  |
| 2030020-02 | <b>COC Number:</b>        | ---                           | <b>Receive Date:</b>  | 10/13/2020 10:10 |
|            | <b>Project Number:</b>    | ---                           | <b>Sampling Date:</b> | 10/08/2020 14:11 |
|            | <b>Sampling Location:</b> | ---                           | <b>Sample Depth:</b>  | ---              |
|            | <b>Sampling Point:</b>    | N042522-002B / CW-01M-LF-Q420 | <b>Lab Matrix:</b>    | Water            |
|            | <b>Sampled By:</b>        | Client                        | <b>Sample Type:</b>   | Groundwater      |
|            |                           |                               |                       |                  |
| 2030020-03 | <b>COC Number:</b>        | ---                           | <b>Receive Date:</b>  | 10/13/2020 10:10 |
|            | <b>Project Number:</b>    | ---                           | <b>Sampling Date:</b> | 10/08/2020 12:00 |
|            | <b>Sampling Location:</b> | ---                           | <b>Sample Depth:</b>  | ---              |
|            | <b>Sampling Point:</b>    | N042522-004B / OW-05D-Q420    | <b>Lab Matrix:</b>    | Water            |
|            | <b>Sampled By:</b>        | Client                        | <b>Sample Type:</b>   | Groundwater      |
|            |                           |                               |                       |                  |
| 2030020-04 | <b>COC Number:</b>        | ---                           | <b>Receive Date:</b>  | 10/13/2020 10:10 |
|            | <b>Project Number:</b>    | ---                           | <b>Sampling Date:</b> | 10/08/2020 14:21 |
|            | <b>Sampling Location:</b> | ---                           | <b>Sample Depth:</b>  | ---              |
|            | <b>Sampling Point:</b>    | N042522-005B / MW-901-Q420    | <b>Lab Matrix:</b>    | Water            |
|            | <b>Sampled By:</b>        | Client                        | <b>Sample Type:</b>   | Groundwater      |
|            |                           |                               |                       |                  |
| 2030020-05 | <b>COC Number:</b>        | ---                           | <b>Receive Date:</b>  | 10/13/2020 10:10 |
|            | <b>Project Number:</b>    | ---                           | <b>Sampling Date:</b> | 10/08/2020 13:03 |
|            | <b>Sampling Location:</b> | ---                           | <b>Sample Depth:</b>  | ---              |
|            | <b>Sampling Point:</b>    | N042522-007B / OW-05M-LF-Q420 | <b>Lab Matrix:</b>    | Water            |
|            | <b>Sampled By:</b>        | Client                        | <b>Sample Type:</b>   | Groundwater      |
|            |                           |                               |                       |                  |

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**Reported:** 10/16/2020 14:55  
**Project:** Level IV + labSpec7  
**Project Number:** N042522  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

|                          |               |                            |                                                            |               |                |                  |              |
|--------------------------|---------------|----------------------------|------------------------------------------------------------|---------------|----------------|------------------|--------------|
| <b>BCL Sample ID:</b>    | 2030020-01    | <b>Client Sample Name:</b> | N042522-001B / CW-01D-LF-Q420, 10/8/2020 2:10:00PM, Client |               |                |                  |              |
| <b>Constituent</b>       | <b>Result</b> | <b>Units</b>               | <b>RL</b>                                                  | <b>Method</b> | <b>MB Bias</b> | <b>Lab Quals</b> | <b>Run #</b> |
| Ammonia as N (Distilled) | ND            | mg/L                       | 0.20                                                       | SM-4500-NH3G  | ND             |                  | 1            |

| Run # | Method       | Prep Date      | Run            |  | Analyst | Instrument | Dilution | QC       |              |
|-------|--------------|----------------|----------------|--|---------|------------|----------|----------|--------------|
|       |              |                | Date/Time      |  |         |            |          | Batch ID | Prep Method  |
| 1     | SM-4500-NH3G | 10/15/20 10:30 | 10/15/20 16:21 |  | JMH2    | SC-2       | 1.064    | B089957  | SM 4500-NH3G |

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**Reported:** 10/16/2020 14:55  
**Project:** Level IV + labSpec7  
**Project Number:** N042522  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

| <b>BCL Sample ID:</b>    | 2030020-02 | <b>Client Sample Name:</b> | N042522-002B / CW-01M-LF-Q420, 10/8/2020 2:11:00PM, Client |              |         |           |       |
|--------------------------|------------|----------------------------|------------------------------------------------------------|--------------|---------|-----------|-------|
| Constituent              | Result     | Units                      | RL                                                         | Method       | MB Bias | Lab Quals | Run # |
| Ammonia as N (Distilled) | ND         | mg/L                       | 0.20                                                       | SM-4500-NH3G | ND      |           | 1     |

| Run # | Method       | Prep Date      | Run Date/Time  | Analyst | Instrument | Dilution | QC Batch ID | Prep Method  |
|-------|--------------|----------------|----------------|---------|------------|----------|-------------|--------------|
| 1     | SM-4500-NH3G | 10/15/20 10:30 | 10/15/20 16:23 | JMH2    | SC-2       | 1.068    | B089957     | SM 4500-NH3G |

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**Reported:** 10/16/2020 14:55  
**Project:** Level IV + labSpec7  
**Project Number:** N042522  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

| <b>BCL Sample ID:</b>    | 2030020-03 | <b>Client Sample Name:</b> | N042522-004B / OW-05D-Q420, 10/8/2020 12:00:00PM, Client |              |         |           |       |
|--------------------------|------------|----------------------------|----------------------------------------------------------|--------------|---------|-----------|-------|
| Constituent              | Result     | Units                      | RL                                                       | Method       | MB Bias | Lab Quals | Run # |
| Ammonia as N (Distilled) | ND         | mg/L                       | 0.20                                                     | SM-4500-NH3G | ND      |           | 1     |

| Run # | Method       | Prep Date      | Run Date/Time  | Analyst | Instrument | Dilution | QC Batch ID | Prep Method  |
|-------|--------------|----------------|----------------|---------|------------|----------|-------------|--------------|
| 1     | SM-4500-NH3G | 10/15/20 10:30 | 10/15/20 16:23 | JMH2    | SC-2       | 1.062    | B089957     | SM 4500-NH3G |

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**Reported:** 10/16/2020 14:55  
**Project:** Level IV + labSpec7  
**Project Number:** N042522  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

|                          |               |                            |                                                         |               |                |                  |              |
|--------------------------|---------------|----------------------------|---------------------------------------------------------|---------------|----------------|------------------|--------------|
| <b>BCL Sample ID:</b>    | 2030020-04    | <b>Client Sample Name:</b> | N042522-005B / MW-901-Q420, 10/8/2020 2:21:00PM, Client |               |                |                  |              |
| <b>Constituent</b>       | <b>Result</b> | <b>Units</b>               | <b>RL</b>                                               | <b>Method</b> | <b>MB Bias</b> | <b>Lab Quals</b> | <b>Run #</b> |
| Ammonia as N (Distilled) | ND            | mg/L                       | 0.20                                                    | SM-4500-NH3G  | ND             |                  | 1            |

| Run # | Method       | Prep Date      | Run            |  | Analyst | Instrument | Dilution | QC       |              |
|-------|--------------|----------------|----------------|--|---------|------------|----------|----------|--------------|
|       |              |                | Date/Time      |  |         |            |          | Batch ID | Prep Method  |
| 1     | SM-4500-NH3G | 10/15/20 10:30 | 10/15/20 16:24 |  | JMH2    | SC-2       | 1.077    | B089957  | SM 4500-NH3G |

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**Project:** Level IV + labSpec7  
**Project Number:** N042522  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

| <b>BCL Sample ID:</b>    | 2030020-05 | <b>Client Sample Name:</b> | N042522-007B / OW-05M-LF-Q420, 10/8/2020 1:03:00PM, Client |              |         |           |       |
|--------------------------|------------|----------------------------|------------------------------------------------------------|--------------|---------|-----------|-------|
| Constituent              | Result     | Units                      | RL                                                         | Method       | MB Bias | Lab Quals | Run # |
| Ammonia as N (Distilled) | ND         | mg/L                       | 0.20                                                       | SM-4500-NH3G | ND      |           | 1     |

| Run # | Method       | Prep Date      | Run Date/Time  | Analyst | Instrument | Dilution | QC Batch ID | Prep Method  |
|-------|--------------|----------------|----------------|---------|------------|----------|-------------|--------------|
| 1     | SM-4500-NH3G | 10/15/20 10:30 | 10/15/20 16:25 | JMH2    | SC-2       | 1.079    | B089957     | SM 4500-NH3G |

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**Reported:** 10/16/2020 14:55  
**Project:** Level IV + labSpec7  
**Project Number:** N042522  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

### Quality Control Report - Method Blank Analysis

| Constituent                 | QC Sample ID | MB Result | Units | RL   | Lab Quals |
|-----------------------------|--------------|-----------|-------|------|-----------|
| <b>QC Batch ID: B089957</b> |              |           |       |      |           |
| Ammonia as N (Distilled)    | B089957-BLK1 | ND        | mg/L  | 0.20 |           |

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Las Vegas, NV 89118

**Reported:** 10/16/2020 14:55  
**Project:** Level IV + labSpec7  
**Project Number:** N042522  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

### Quality Control Report - Laboratory Control Sample

|                      |                          |             |        |             |        |                  |      | <u>Control Limits</u> |          |     |
|----------------------|--------------------------|-------------|--------|-------------|--------|------------------|------|-----------------------|----------|-----|
| Constituent          | QC Sample ID             | Type        | Result | Spike Level | Units  | Percent Recovery | RPD  | Percent Recovery      | RPD      | Lab |
| Quals                |                          |             |        |             |        |                  |      |                       |          |     |
| QC Batch ID: B089957 |                          |             |        |             |        |                  |      |                       |          |     |
|                      | Ammonia as N (Distilled) | B089957-BS1 | LCS    | 1.8225      | 2.0000 | mg/L             | 91.1 |                       | 85 - 115 |     |

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Las Vegas, NV 89118

**Reported:** 10/16/2020 14:55  
**Project:** Level IV + labSpec7  
**Project Number:** N042522  
**Project Manager:** Marlon B. Cartin

## Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

|                          |      |                       |               |        |             |       |     |                  | Control Limits |                  |           |
|--------------------------|------|-----------------------|---------------|--------|-------------|-------|-----|------------------|----------------|------------------|-----------|
| Constituent              | Type | Source Sample ID      | Source Result | Result | Spike Added | Units | RPD | Percent Recovery | RPD            | Percent Recovery | Lab Quals |
| QC Batch ID: B089957     |      | Used client sample: N |               |        |             |       |     |                  |                |                  |           |
| Ammonia as N (Distilled) | DUP  | 2028567-01            | 1.0829        | 1.0492 |             | mg/L  | 3.2 |                  | 20             |                  |           |
|                          | MS   | 2028567-01            | 1.0829        | 3.2738 | 2.2989      | mg/L  |     | 95.3             |                | 80 - 120         |           |
|                          | MSD  | 2028567-01            | 1.0829        | 3.4272 | 2.2989      | mg/L  | 4.6 | 102              | 20             | 80 - 120         |           |

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### Notes And Definitions

MDL Method Detection Limit

ND Analyte Not Detected

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