

April 26, 2024

Ms. Amy Rodrigues  
GCC Rio Grande, Inc.  
3372 Lime Road  
Pueblo, CO 81004

RE: 2024 Q1 Quarterly Groundwater Report; Pueblo Plant, Permit #M-2002-004

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Dear Ms. Rodrigues,

This letter addresses the 2024, quarter 1 groundwater compliance monitoring field activities and results, as a summary to be included with the quarterly data submittal of all field data sheets and laboratory results, as well as the updated groundwater monitoring data summary table, per DRMS requirements as stated in their letter dated February 28, 2024, RE: Adequacy Review of Quarterly Hydrology Reports. 2023, 2<sup>nd</sup> Quarter, 3<sup>rd</sup> Quarter, 4<sup>th</sup> Quarter, Permit #M-2002-004.

During 2024 Q1 monitoring the following wells exceeded the 0.33-foot EPA low-flow methodology target for maximum drawdown for low-flow/low-stress purging and sample collection, as indicated in bold in the following Table 1. The subject wells are completed in a classic arid west fractured sedimentary bedrock, resulting in very low-yield well conditions. As shown in the Table 1, drawdowns in excess of 0.33 feet occurred at MW-8, MW-9, MW-10, MW-11, MW-12, and MW-14 despite keeping purge and sample flow rates within the target 0.03 to 0.10 gpm and the total purge and sample production time to a minimum. Regardless, as there is a historical data set of at least 9 quarters for all of these wells, time-series plots for several constituents shown in Figures 1, 2, and 3 below indicate a data consistency to support that the current sample collection method, despite drawdown exceeding EPA methodology, does produce representative groundwater chemistry results.

It is noted that in 2024 Q1, for all wells but MW-14, the total purge volumes at sample collection time were aligned with the respective sample pump full tubing volumes, whereby stabilization parameter documentation apparently began at the start time of purging rather than at the time the full target tubing volume was produced. Per the TR-11 SAP Appendix 1 GCC Rio Grande Pueblo Plant Groundwater Monitoring Well Compliance Sampling Procedure, step 7(i) "Once the given target tubing purge volume has been discharged, monitor the individual water quality field parameters utilizing the VuSitu app for stabilization over 3 consecutive measurements...". Going forward with 2024Q2 compliance monitoring at each well, the three sets of recorded stabilization parameters recorded, each three minutes apart, including the final (third) set of sample parameters, must not be recorded until the initial prescribed tubing volume has been produced.

The following Table 1 shows what the actual tubing purge volume totals are, based on the given measured flow rates and static depths to water prior to sampling. The use of the full length of sample pump tubing to calculate the tubing purge volume was meant to be conservative as they all represent overestimations due to relatively deep static depths to water. In 2024 Q1 all wells but MW-14 were under-purged based on these calculations, however, since the target purge volumes are based on displacing the full tubing volume, which does not include the empty tubing from surface to static water level given these pumps do not have check valves (exception is the bladder pump at MW-14), all 2024 Q1 monitoring did in fact purge all stagnant water from the tubing prior to sample collection by 0.1 gallons or more.

Table 1 – 2024 Q1 Sampling Purge Rates, Volumes, & Drawdowns

| Monitoring Well ID | 2024Q1 Purge & Sample Flow Rate as Measured in Graduated Beaker (gpm) | Sample Pump Tubing Volume - Fixed Length on Dedicated Pump (gal) | 2024Q1 Purge & Sample Flow Volume as Measured in Bucket at Sample Collection (gal) | 2024Q1 Target Total Purge Volume Based on Measured Purge Flow Rate (gal) | 2024Q1 Total Purge Volume Difference Target vs Actual (gal) | 2024Q1 Static Water Level (ft TOC) | 2024Q1 Pumping Water Level at Sample Collection (ft TOC) | 2024Q1 Purge & Sample Drawdown (ft) | Pump Set Depth (ft TOC) | Actual Tubing Volume to Displace Factoring Tubing Water Column Length (gal) |
|--------------------|-----------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------|----------------------------------------------------------|-------------------------------------|-------------------------|-----------------------------------------------------------------------------|
| MW-6               | 0.05                                                                  | 0.3                                                              | <b>0.3</b>                                                                         | 0.6                                                                      | <b>-0.3</b>                                                 | 34.16                              | 34.14                                                    | -0.02                               | 55.7                    | 0.1                                                                         |
| MW-7               | 0.05                                                                  | 0.3                                                              | <b>0.3</b>                                                                         | 0.6                                                                      | <b>-0.3</b>                                                 | 34.06                              | 34.14                                                    | 0.08                                | 55.0                    | 0.1                                                                         |
| MW-8               | 0.03                                                                  | 0.4                                                              | <b>0.4</b>                                                                         | 0.6                                                                      | <b>-0.2</b>                                                 | 33.10                              | 39.35                                                    | <b>6.25</b>                         | 62.5                    | 0.1                                                                         |
| MW-9               | 0.08                                                                  | 0.2                                                              | <b>0.2</b>                                                                         | 0.7                                                                      | <b>-0.5</b>                                                 | 25.77                              | 28.44                                                    | <b>2.67</b>                         | 38.6                    | 0.1                                                                         |
| MW-10              | 0.07                                                                  | 0.5                                                              | <b>0.5</b>                                                                         | 0.9                                                                      | <b>-0.4</b>                                                 | 25.21                              | 36.48                                                    | <b>11.27</b>                        | 79.0                    | 0.2                                                                         |
| MW-11              | 0.04                                                                  | 0.4                                                              | <b>0.4</b>                                                                         | 0.6                                                                      | <b>-0.2</b>                                                 | 54.60                              | 57.66                                                    | <b>3.06</b>                         | 68.5                    | 0.1                                                                         |
| MW-12              | 0.07                                                                  | 0.5                                                              | <b>0.5</b>                                                                         | 0.9                                                                      | <b>-0.4</b>                                                 | 58.65                              | 63.33                                                    | <b>4.68</b>                         | 85.4                    | 0.1                                                                         |
| MW-13              | 0.04                                                                  | 1.0                                                              | <b>1.0</b>                                                                         | 1.2                                                                      | <b>-0.2</b>                                                 | 117.18                             | 117.01                                                   | -0.17                               | 167.5                   | 0.3                                                                         |
| MW-14              | 0.04                                                                  | 0.6                                                              | 1.2                                                                                | 0.8                                                                      | 0.4                                                         | 97.32                              | 109.66                                                   | <b>12.34</b>                        | 203.6                   | 0.6                                                                         |

Time series plots for concentrations of sulfate, total dissolved solids (TDS), and total alkalinity are provided as Figures 1, 2, and 3, respectively, to demonstrate consistency of the 2024 Q1 data with respect to conservative constituent concentrations and trends through time within the Fort Hayes Limestone, Codell Sandstone, and Blue Hills Shale lithologic units. Further discussion of major ion and trace element chemistry is provided in the annual groundwater report submitted in January of each year.

Groundwater quality at monitoring locations completed in the Ft. Hayes Limestone (MW-6, MW-7, MW-11, and MW-13) during the 2024 Q1 sampling event was consistent with concentrations and trends through time for sulfate, TDS, and total alkalinity (Figures 1 through 3). Although alkalinity at the downgradient location, MW-13 has fluctuated over time, recent data from the 2024 Q1 sampling event follow the decreasing trend of the previous two sampling events.

Similarly, groundwater quality at monitoring locations completed in the underlying Codell Sandstone (MW-8, MW-9, MW-12, and MW-14) during the 2024 Q1 sampling event was consistent with concentrations and trends through time (Figures 1 through 3). Concentrations of TDS appear to be increasing through time in the downgradient MW-14 location. Concentrations of alkalinity have stabilized in the last four sampling events, with minor seasonal variation observed.

Monitoring location MW-10 is located upgradient of mine panel four and completed in the Blue Hills Shale. Concentrations of sulfate and TDS have been declining and alkalinity increasing, with the 2024 Q1 sampling results trending in line with previous sampling events (Figures 1 through 3).



Figure 1. Concentrations of Sulfate in the Ft. Hayes Limestone, Codell Sandstone, and Blue Hills Shale.



Figure 2. Concentrations of Total Dissolved Solids in the Ft. Hayes Limestone, Codell Sandstone, and Blue Hills Shale.

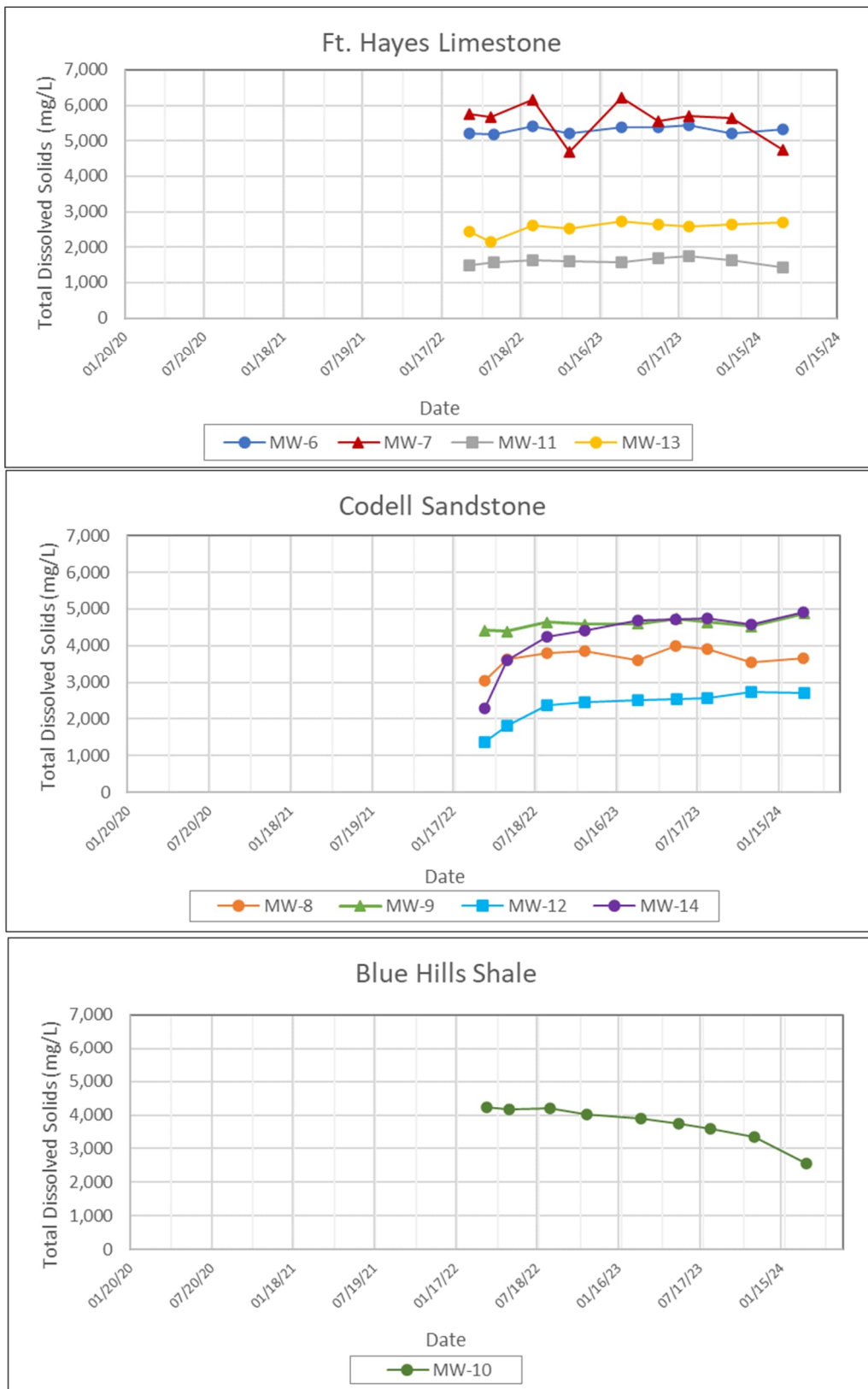
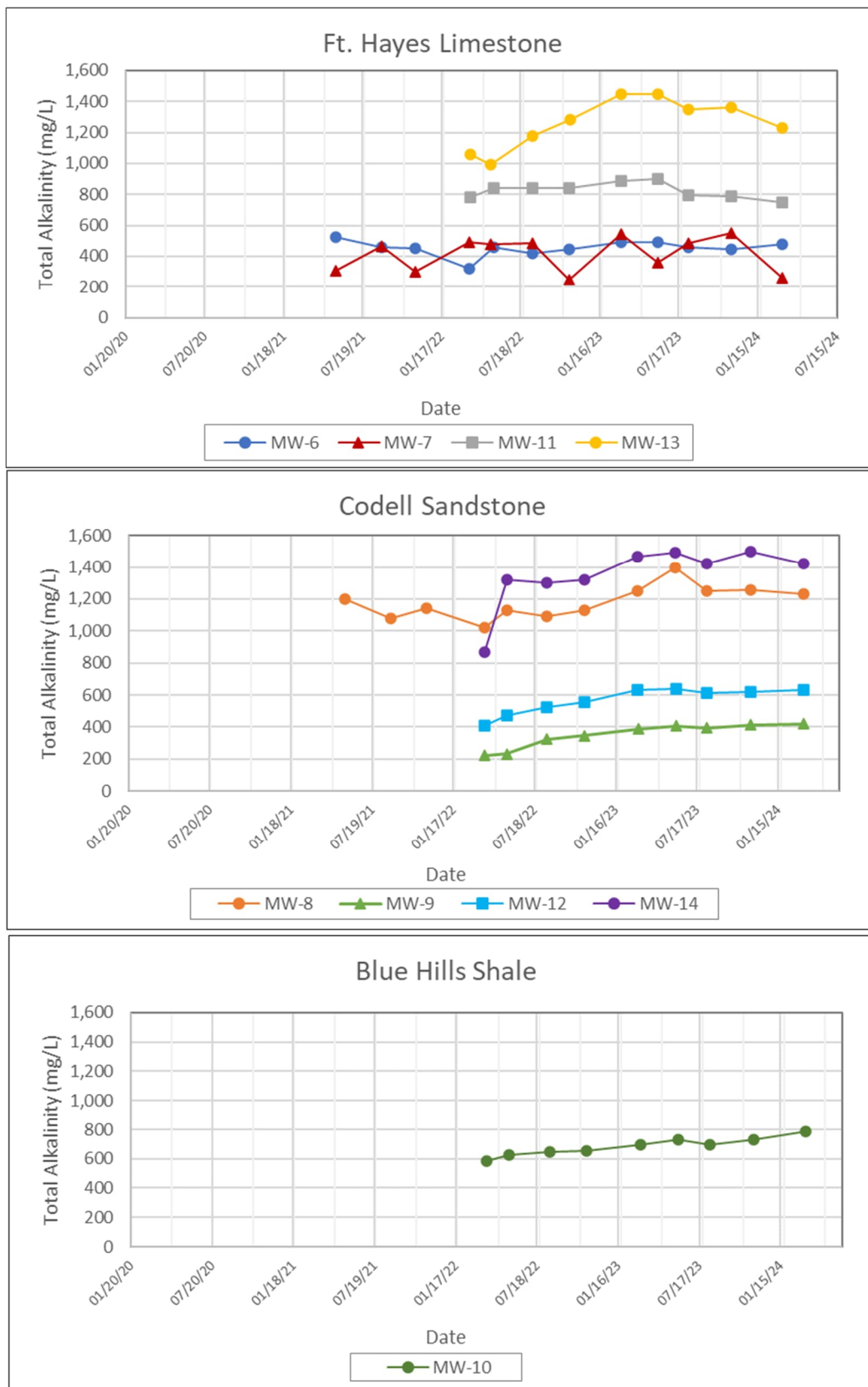
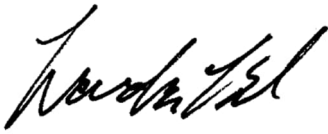


Figure 3. Total Alkalinity in the Ft. Hayes Limestone, Codell Sandstone, and Blue Hills Shale.



Regards,

SLR International Corporation



Landon Beck  
Principal Hydrogeologist  
[lbeck@slrconsulting.com](mailto:lbeck@slrconsulting.com)

Attachments: 2024 Q1 GW Monitoring field forms, lab reports and updated summary table

CC: None





## Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant  
(719) 647-6800  
3372 Lime Road  
Pueblo, CO 81004  
[www.gcc.com](http://www.gcc.com)

|                                                                      |                                                                   |
|----------------------------------------------------------------------|-------------------------------------------------------------------|
| Reference Number:<br><b>GCC_RGPP-20240318-1314032001-18359928947</b> | Form Name:<br><b>Wells - GCC Pueblo Compliance Water Sampling</b> |
| Submitter Name:<br><b>Amy Rodrigues   amy.rodrigues</b>              | Date Sent on Device:<br><b>Mar 18, 2024 1:56:21 PM MDT</b>        |

### SITE INFORMATION

#### Location

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
| Project Site                                          | GCC Rio Grande Pueblo Plant |
| Sample ID                                             | MW-6                        |
| Water present to measure/sample?                      | Yes                         |
| Is the water present within 0.25 feet of the well TD? | No                          |

|                                           |       |
|-------------------------------------------|-------|
| Wellhead Stick-Up from Ground Level       | 2.52  |
| Reference Point to Depth to Water Level   |       |
| Reference Point (ft)                      |       |
| Static Depth to Water (ft)                | 34.16 |
| Well Total Depth (ft below top of casing) | 56.4  |
| Depth to Water below ground Surface (ft)  | 31.64 |
| Well Diameter (In)                        | 2     |

#### Misc

**Site Photo****Water Quality Meter****Water Quality Meter Make/Model/SN**

In-Situ AquaTroll 400 SN 896017

**Calibration Date/Time:**

Mar 11, 2024 9:00:00 AM MDT

**Calibration Parameters**

Specific Conductivity (SC)

pH

Oxygen Reduction Potential (ORP)

Dissolved Oxygen (DO or RDO)

**AquaTroll calibration log generated?**

Yes

**SAMPLING DETAILS****Weather**

Cloudy

**Air Temperature (°F)**

55

**Date**

Mar 11, 2024

**Time**

1:12:00 PM MDT

**Micro-Purge Stabilization Parameters #1****Parameter Date/Time**

Mar 11, 2024 1:07:00 PM MDT

**Sample Temperature (°C)**

14.54

**Specific Conductivity (µS/cm)**

5178.40

**pH (S.U.)**

6.93

**Oxygen Reduction Potential (mV)**

-65.04

**Dissolved Oxygen (mg/L)**

1.93

**Micro-Purge Stabilization Parameters #2**

|                                        |                             |
|----------------------------------------|-----------------------------|
| <b>Parameter Date/Time</b>             | Mar 11, 2024 1:10:00 PM MDT |
| <b>Sample Temperature (°C)</b>         | 14.53                       |
| <b>Specific Conductivity (µS/cm)</b>   | 5170.70                     |
| <b>pH (S.U.)</b>                       | 6.93                        |
| <b>Oxygen Reduction Potential (mV)</b> | -54.42                      |
| <b>Dissolved Oxygen (mg/L)</b>         | 1.84                        |

**Micro-Purge Stabilization Parameters #3 (FINAL)**

|                                        |                             |
|----------------------------------------|-----------------------------|
| <b>Parameter Date/Time</b>             | Mar 11, 2024 1:12:00 PM MDT |
| <b>Sample Temperature (°C)</b>         | 14.54                       |
| <b>Specific Conductivity (µS/cm)</b>   | 5146.58                     |
| <b>pH (S.U.)</b>                       | 6.93                        |
| <b>Oxygen Reduction Potential (mV)</b> | -46.01                      |
| <b>Dissolved Oxygen (mg/L)</b>         | 1.82                        |

**Purge and Sampling**

|                                                     |                                                                                                                                                              |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Water level measured at sample time?</b>         | Depth to Water (ft TOC) measured at Sample Time                                                                                                              |
| <b>Depth to Water (ft TOC)</b>                      | 34.14                                                                                                                                                        |
| <b>Was flow rate measured?</b>                      | Flow Rate was measured.                                                                                                                                      |
| <b>Flow Rate (gpm)</b>                              | 0.05                                                                                                                                                         |
| <b>Total Purged (gal)</b>                           | 0.30                                                                                                                                                         |
| <b>Geographic Sample Location</b>                   | 3372 Lime Rd, North Avondale, CO 81022, USA<br>latitude: 38.12894593692263 altitude: 1535.1145<br>longitude: -104.60617332729008 [ <a href="#">viewMap</a> ] |
| <b>Sample(s) collected for laboratory analysis?</b> | Yes                                                                                                                                                          |

**Sampler**

|                     |                                                   |
|---------------------|---------------------------------------------------|
| <b>Sampler Name</b> | Amy Rodrigues – GCC Pueblo Environmental Engineer |
|---------------------|---------------------------------------------------|

## Sampler's Signature



## SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

## Sample Submittal Information

LAB SAMPLE

1 OF 1

## Details

|                              |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| Method of Sample Collection  | MW-6 – Dedicated Proactive Environmental SS<br>Sample Champ XL 12-volt low-flow<br>submersible pump |
| Lab Sample Name              | MW-6                                                                                                |
| Sample Date/Time             | Mar 11, 2024 1:12:00 PM MDT                                                                         |
| Lab Suite                    | GW-Compliance                                                                                       |
| Number of Bottles/Containers | 3                                                                                                   |
| Lab Sample Type              | Normal                                                                                              |

## Sample Handling

SAMPLE HANDLING

1 OF 3

## Bottle Details

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| ACZ Labs Bottle Sticker            | None                                           |
| Bottle Volume (mL)                 | 500                                            |
| Bottle Composition                 | Poly                                           |
| Bottle Quantity                    | 1                                              |
| Field-Filtered to 0.45 µm (Yes/No) | No                                             |
| Preservative (Type)                | Raw/None                                       |
| Analysis                           | Wet Chemistry - no preservative, no filtration |

SAMPLE HANDLING

2 OF 3

Bottle Details

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| ACZ Labs Bottle Sticker            | White                                           |
| Bottle Volume (mL)                 | 250                                             |
| Bottle Composition                 | Poly                                            |
| Bottle Quantity                    | 1                                               |
| Field-Filtered to 0.45 µm (Yes/No) | Yes                                             |
| Preservative (Type)                | Raw/None                                        |
| Analysis                           | Wet Chemistry - no preservative, field-filtered |

SAMPLE HANDLING

3 OF 3

Bottle Details

|                                    |                                                                       |
|------------------------------------|-----------------------------------------------------------------------|
| ACZ Labs Bottle Sticker            | Green PC                                                              |
| Bottle Volume (mL)                 | 125                                                                   |
| Bottle Composition                 | Poly                                                                  |
| Bottle Quantity                    | 1                                                                     |
| Field-Filtered to 0.45 µm (Yes/No) | Yes                                                                   |
| Preservative (Type)                | Nitric Acid                                                           |
| Analysis                           | Metals (dissolved including ICPMS) - nitric preserved, field-filtered |



## Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant  
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[www.gcc.com](http://www.gcc.com)

|                                                                      |                                                                   |
|----------------------------------------------------------------------|-------------------------------------------------------------------|
| Reference Number:<br><b>GCC_RGPP-20240318-1314032001-18359934796</b> | Form Name:<br><b>Wells - GCC Pueblo Compliance Water Sampling</b> |
| Submitter Name:<br><b>Amy Rodrigues   amy.rodrigues</b>              | Date Sent on Device:<br><b>Mar 18, 2024 2:47:41 PM MDT</b>        |

### SITE INFORMATION

#### Location

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
| Project Site                                          | GCC Rio Grande Pueblo Plant |
| Sample ID                                             | MW-7                        |
| Water present to measure/sample?                      | Yes                         |
| Is the water present within 0.25 feet of the well TD? | No                          |

|                                           |       |
|-------------------------------------------|-------|
| Wellhead Stick-Up from Ground Level       | 2.66  |
| Reference Point to Depth to Water Level   |       |
| Reference Point (ft)                      |       |
| Static Depth to Water (ft)                | 34.06 |
| Well Total Depth (ft below top of casing) | 56.1  |
| Depth to Water below ground Surface (ft)  | 31.40 |
| Well Diameter (In)                        | 2     |

#### Misc

**Site Photo****Water Quality Meter****Water Quality Meter Make/Model/SN**

In-Situ AquaTroll 400 SN 896017

**Calibration Date/Time:**

Mar 11, 2024 9:00:00 AM MDT

**Calibration Parameters**

Specific Conductivity (SC)

pH

Oxygen Reduction Potential (ORP)

Dissolved Oxygen (DO or RDO)

**AquaTroll calibration log generated?**

Yes

**SAMPLING DETAILS****Weather**

Cloudy

**Air Temperature (°F)**

63

**Date**

Mar 11, 2024

**Time**

1:39:00 PM MDT

**Micro-Purge Stabilization Parameters #1****Parameter Date/Time**

Mar 11, 2024 1:34:00 PM MDT

**Sample Temperature (°C)**

14.48

**Specific Conductivity (µS/cm)**

4838.79

**pH (S.U.)**

7.10

**Oxygen Reduction Potential (mV)**

-23.93

**Dissolved Oxygen (mg/L)**

3.05

**Micro-Purge Stabilization Parameters #2**

|                                        |                             |
|----------------------------------------|-----------------------------|
| <b>Parameter Date/Time</b>             | Mar 11, 2024 1:36:00 PM MDT |
| <b>Sample Temperature (°C)</b>         | 14.57                       |
| <b>Specific Conductivity (µS/cm)</b>   | 4791.74                     |
| <b>pH (S.U.)</b>                       | 7.09                        |
| <b>Oxygen Reduction Potential (mV)</b> | -34.22                      |
| <b>Dissolved Oxygen (mg/L)</b>         | 2.94                        |

**Micro-Purge Stabilization Parameters #3 (FINAL)**

|                                        |                             |
|----------------------------------------|-----------------------------|
| <b>Parameter Date/Time</b>             | Mar 11, 2024 1:39:00 PM MDT |
| <b>Sample Temperature (°C)</b>         | 14.76                       |
| <b>Specific Conductivity (µS/cm)</b>   | 4728.35                     |
| <b>pH (S.U.)</b>                       | 7.09                        |
| <b>Oxygen Reduction Potential (mV)</b> | -39.67                      |
| <b>Dissolved Oxygen (mg/L)</b>         | 2.74                        |

**Purge and Sampling**

|                                                     |                                                                                                                                                              |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Water level measured at sample time?</b>         | Depth to Water (ft TOC) measured at Sample Time                                                                                                              |
| <b>Depth to Water (ft TOC)</b>                      | 34.14                                                                                                                                                        |
| <b>Was flow rate measured?</b>                      | Flow Rate was measured.                                                                                                                                      |
| <b>Flow Rate (gpm)</b>                              | 0.05                                                                                                                                                         |
| <b>Total Purged (gal)</b>                           | 0.30                                                                                                                                                         |
| <b>Geographic Sample Location</b>                   | 3372 Lime Rd, North Avondale, CO 81022, USA<br>latitude: 38.12894593692263 altitude: 1535.1317<br>longitude: -104.60617332729008 [ <a href="#">viewMap</a> ] |
| <b>Sample(s) collected for laboratory analysis?</b> | Yes                                                                                                                                                          |

**Sampler**

|                     |                                                   |
|---------------------|---------------------------------------------------|
| <b>Sampler Name</b> | Amy Rodrigues – GCC Pueblo Environmental Engineer |
|---------------------|---------------------------------------------------|

## Sampler's Signature



## SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

## Sample Submittal Information

LAB SAMPLE

1 OF 3

## Details

## Method of Sample Collection

MW-7 – Dedicated Proactive Environmental SS  
Sample Champ XL 12-volt low-flow  
submersible pump

## Lab Sample Name

MW-7

## Sample Date/Time

Mar 11, 2024 1:39:00 PM MDT

## Lab Suite

GW-Compliance

## Number of Bottles/Containers

3

## Lab Sample Type

Normal

LAB SAMPLE

2 OF 3

## Details

## Method of Sample Collection

MW-7 – Dedicated Proactive Environmental SS  
Sample Champ XL 12-volt low-flow  
submersible pump

## Lab Sample Name

MW-2B

## Sample Date/Time

Mar 11, 2024 12:00:00 PM MDT

## Lab Suite

GW-Compliance

## Number of Bottles/Containers

3

## Lab Sample Type

Duplicate

LAB SAMPLE

3 OF 3

## Details

|                                     |                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Method of Sample Collection</b>  | MW-7 – Dedicated Proactive Environmental SS<br>Sample Champ XL 12-volt low-flow<br>submersible pump |
| <b>Lab Sample Name</b>              | Method Blank                                                                                        |
| <b>Sample Date/Time</b>             | Mar 11, 2024 12:30:00 PM MDT                                                                        |
| <b>Lab Suite</b>                    | GW-Compliance                                                                                       |
| <b>Number of Bottles/Containers</b> | 3                                                                                                   |
| <b>Lab Sample Type</b>              | Method Blank                                                                                        |

## Sample Handling

SAMPLE HANDLING

1 OF 3

## Bottle Details

|                                           |                                                |
|-------------------------------------------|------------------------------------------------|
| <b>ACZ Labs Bottle Sticker</b>            | None                                           |
| <b>Bottle Volume (mL)</b>                 | 500                                            |
| <b>Bottle Composition</b>                 | Poly                                           |
| <b>Bottle Quantity</b>                    | 1                                              |
| <b>Field-Filtered to 0.45 µm (Yes/No)</b> | No                                             |
| <b>Preservative (Type)</b>                | Raw/None                                       |
| <b>Analysis</b>                           | Wet Chemistry - no preservative, no filtration |

SAMPLE HANDLING

2 OF 3

## Bottle Details

|                                           |                                                 |
|-------------------------------------------|-------------------------------------------------|
| <b>ACZ Labs Bottle Sticker</b>            | White                                           |
| <b>Bottle Volume (mL)</b>                 | 250                                             |
| <b>Bottle Composition</b>                 | Poly                                            |
| <b>Bottle Quantity</b>                    | 1                                               |
| <b>Field-Filtered to 0.45 µm (Yes/No)</b> | Yes                                             |
| <b>Preservative (Type)</b>                | Raw/None                                        |
| <b>Analysis</b>                           | Wet Chemistry - no preservative, field-filtered |

SAMPLE HANDLING

3 OF 3

**Bottle Details**

|                                           |                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------|
| <b>ACZ Labs Bottle Sticker</b>            | Green PC                                                              |
| <b>Bottle Volume (mL)</b>                 | 125                                                                   |
| <b>Bottle Composition</b>                 | Poly                                                                  |
| <b>Bottle Quantity</b>                    | 1                                                                     |
| <b>Field-Filtered to 0.45 µm (Yes/No)</b> | Yes                                                                   |
| <b>Preservative (Type)</b>                | Nitric Acid                                                           |
| <b>Analysis</b>                           | Metals (dissolved including ICPMS) - nitric preserved, field-filtered |



## Wells - GCC Pueblo Compliance Water Sampling

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[www.gcc.com](http://www.gcc.com)

|                                                                      |                                                                   |
|----------------------------------------------------------------------|-------------------------------------------------------------------|
| Reference Number:<br><b>GCC_RGPP-20240318-1314032001-18359934971</b> | Form Name:<br><b>Wells - GCC Pueblo Compliance Water Sampling</b> |
| Submitter Name:<br><b>Amy Rodrigues   amy.rodrigues</b>              | Date Sent on Device:<br><b>Mar 18, 2024 2:55:56 PM MDT</b>        |

### SITE INFORMATION

#### Location

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
| Project Site                                          | GCC Rio Grande Pueblo Plant |
| Sample ID                                             | MW-8                        |
| Water present to measure/sample?                      | Yes                         |
| Is the water present within 0.25 feet of the well TD? | No                          |

|                                           |       |
|-------------------------------------------|-------|
| Wellhead Stick-Up from Ground Level       | 2.16  |
| Reference Point to Depth to Water Level   |       |
| Reference Point (ft)                      |       |
| Static Depth to Water (ft)                | 33.10 |
| Well Total Depth (ft below top of casing) | 65.65 |
| Depth to Water below ground Surface (ft)  | 30.94 |
| Well Diameter (In)                        | 2     |

#### Misc

**Site Photo****Water Quality Meter****Water Quality Meter Make/Model/SN**

In-Situ AquaTroll 400 SN 896017

**Calibration Date/Time:**

Mar 11, 2024 9:00:00 AM MDT

**Calibration Parameters**

Specific Conductivity (SC)

pH

Oxygen Reduction Potential (ORP)

Dissolved Oxygen (DO or RDO)

**AquaTroll calibration log generated?**

Yes

**SAMPLING DETAILS****Weather**

Cloudy

**Air Temperature (°F)**

63

**Date**

Mar 11, 2024

**Time**

2:14:00 PM MDT

**Micro-Purge Stabilization Parameters #1****Parameter Date/Time**

Mar 11, 2024 2:09:00 PM MDT

**Sample Temperature (°C)**

14.44

**Specific Conductivity (µS/cm)**

5004.60

**pH (S.U.)**

7.17

**Oxygen Reduction Potential (mV)**

-162.16

**Dissolved Oxygen (mg/L)**

3.55

**Micro-Purge Stabilization Parameters #2**

|                                        |                             |
|----------------------------------------|-----------------------------|
| <b>Parameter Date/Time</b>             | Mar 11, 2024 2:12:00 PM MDT |
| <b>Sample Temperature (°C)</b>         | 14.63                       |
| <b>Specific Conductivity (µS/cm)</b>   | 4982.54                     |
| <b>pH (S.U.)</b>                       | 7.16                        |
| <b>Oxygen Reduction Potential (mV)</b> | -165.53                     |
| <b>Dissolved Oxygen (mg/L)</b>         | 2.50                        |

**Micro-Purge Stabilization Parameters #3 (FINAL)**

|                                        |                             |
|----------------------------------------|-----------------------------|
| <b>Parameter Date/Time</b>             | Mar 11, 2024 2:14:00 PM MDT |
| <b>Sample Temperature (°C)</b>         | 14.67                       |
| <b>Specific Conductivity (µS/cm)</b>   | 4968.55                     |
| <b>pH (S.U.)</b>                       | 7.16                        |
| <b>Oxygen Reduction Potential (mV)</b> | -169.84                     |
| <b>Dissolved Oxygen (mg/L)</b>         | 2.53                        |

**Purge and Sampling**

|                                                     |                                                                                                                                                              |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Water level measured at sample time?</b>         | Depth to Water (ft TOC) measured at Sample Time                                                                                                              |
| <b>Depth to Water (ft TOC)</b>                      | 39.35                                                                                                                                                        |
| <b>Was flow rate measured?</b>                      | Flow Rate was measured.                                                                                                                                      |
| <b>Flow Rate (gpm)</b>                              | 0.03                                                                                                                                                         |
| <b>Total Purged (gal)</b>                           | 0.40                                                                                                                                                         |
| <b>Geographic Sample Location</b>                   | 3372 Lime Rd, North Avondale, CO 81022, USA<br>latitude: 38.12894593692263 altitude: 1535.1356<br>longitude: -104.60617332729008 [ <a href="#">viewMap</a> ] |
| <b>Sample(s) collected for laboratory analysis?</b> | Yes                                                                                                                                                          |

**Sampler**

|                     |                                                   |
|---------------------|---------------------------------------------------|
| <b>Sampler Name</b> | Amy Rodrigues – GCC Pueblo Environmental Engineer |
|---------------------|---------------------------------------------------|

## Sampler's Signature



## SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

## Sample Submittal Information

LAB SAMPLE

1 OF 1

## Details

|                              |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| Method of Sample Collection  | MW-8 – Dedicated Proactive Environmental SS<br>Sample Champ XL 12-volt low-flow<br>submersible pump |
| Lab Sample Name              | MW-8                                                                                                |
| Sample Date/Time             | Mar 11, 2024 2:14:00 PM MDT                                                                         |
| Lab Suite                    | GW-Compliance                                                                                       |
| Number of Bottles/Containers | 3                                                                                                   |
| Lab Sample Type              | Normal                                                                                              |

## Sample Handling

SAMPLE HANDLING

1 OF 3

## Bottle Details

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| ACZ Labs Bottle Sticker            | None                                           |
| Bottle Volume (mL)                 | 500                                            |
| Bottle Composition                 | Poly                                           |
| Bottle Quantity                    | 1                                              |
| Field-Filtered to 0.45 µm (Yes/No) | No                                             |
| Preservative (Type)                | Raw/None                                       |
| Analysis                           | Wet Chemistry - no preservative, no filtration |

## SAMPLE HANDLING

2 OF 3

## Bottle Details

|                                           |                                                 |
|-------------------------------------------|-------------------------------------------------|
| <b>ACZ Labs Bottle Sticker</b>            | White                                           |
| <b>Bottle Volume (mL)</b>                 | 250                                             |
| <b>Bottle Composition</b>                 | Poly                                            |
| <b>Bottle Quantity</b>                    | 1                                               |
| <b>Field-Filtered to 0.45 µm (Yes/No)</b> | Yes                                             |
| <b>Preservative (Type)</b>                | Raw/None                                        |
| <b>Analysis</b>                           | Wet Chemistry - no preservative, field-filtered |

## SAMPLE HANDLING

3 OF 3

## Bottle Details

|                                           |                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------|
| <b>ACZ Labs Bottle Sticker</b>            | Green PC                                                              |
| <b>Bottle Volume (mL)</b>                 | 125                                                                   |
| <b>Bottle Composition</b>                 | Poly                                                                  |
| <b>Bottle Quantity</b>                    | 1                                                                     |
| <b>Field-Filtered to 0.45 µm (Yes/No)</b> | Yes                                                                   |
| <b>Preservative (Type)</b>                | Nitric Acid                                                           |
| <b>Analysis</b>                           | Metals (dissolved including ICPMS) - nitric preserved, field-filtered |



## Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant  
(719) 647-6800  
3372 Lime Road  
Pueblo, CO 81004  
www.gcc.com

|                                                                      |                                                                   |
|----------------------------------------------------------------------|-------------------------------------------------------------------|
| Reference Number:<br><b>GCC_RGPP-20240318-1314032001-18359944396</b> | Form Name:<br><b>Wells - GCC Pueblo Compliance Water Sampling</b> |
| Submitter Name:<br><b>Amy Rodrigues   amy.rodrigues</b>              | Date Sent on Device:<br><b>Mar 18, 2024 3:47:01 PM MDT</b>        |

### SITE INFORMATION

#### Location

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
| Project Site                                          | GCC Rio Grande Pueblo Plant |
| Sample ID                                             | MW-9                        |
| Water present to measure/sample?                      | Yes                         |
| Is the water present within 0.25 feet of the well TD? | No                          |

|                                           |       |
|-------------------------------------------|-------|
| Wellhead Stick-Up from Ground Level       | 2.08  |
| Reference Point to Depth to Water Level   |       |
| Reference Point (ft)                      |       |
| Static Depth to Water (ft)                | 25.77 |
| Well Total Depth (ft below top of casing) | 42.23 |
| Depth to Water below ground Surface (ft)  | 23.69 |
| Well Diameter (In)                        | 2     |

#### Misc

**Site Photo****Water Quality Meter****Water Quality Meter Make/Model/SN**

In-Situ AquaTroll 400 SN 896017

**Calibration Date/Time:**

Mar 11, 2024 9:00:00 AM MDT

**Calibration Parameters**

Specific Conductivity (SC)

pH

Oxygen Reduction Potential (ORP)

Dissolved Oxygen (DO or RDO)

**AquaTroll calibration log generated?**

Yes

**SAMPLING DETAILS****Weather**

Partly Sunny

**Air Temperature (°F)**

55

**Date**

Mar 12, 2024

**Time**

11:30:00 AM MDT

**Micro-Purge Stabilization Parameters #1****Parameter Date/Time**

Mar 12, 2024 11:24:00 AM MDT

**Sample Temperature (°C)**

15.64

**Specific Conductivity (µS/cm)**

5066.51

**pH (S.U.)**

6.87

**Oxygen Reduction Potential (mV)**

-130.42

**Dissolved Oxygen (mg/L)**

1.88

**Micro-Purge Stabilization Parameters #2**

|                                        |                              |
|----------------------------------------|------------------------------|
| <b>Parameter Date/Time</b>             | Mar 12, 2024 11:27:00 AM MDT |
| <b>Sample Temperature (°C)</b>         | 15.62                        |
| <b>Specific Conductivity (µS/cm)</b>   | 5099.18                      |
| <b>pH (S.U.)</b>                       | 6.86                         |
| <b>Oxygen Reduction Potential (mV)</b> | -128.37                      |
| <b>Dissolved Oxygen (mg/L)</b>         | 1.71                         |

**Micro-Purge Stabilization Parameters #3 (FINAL)**

|                                        |                              |
|----------------------------------------|------------------------------|
| <b>Parameter Date/Time</b>             | Mar 12, 2024 11:30:00 AM MDT |
| <b>Sample Temperature (°C)</b>         | 15.84                        |
| <b>Specific Conductivity (µS/cm)</b>   | 5086.67                      |
| <b>pH (S.U.)</b>                       | 6.86                         |
| <b>Oxygen Reduction Potential (mV)</b> | -126.59                      |
| <b>Dissolved Oxygen (mg/L)</b>         | 1.58                         |

**Purge and Sampling**

|                                                     |                                                                                                                                                              |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Water level measured at sample time?</b>         | Depth to Water (ft TOC) measured at Sample Time                                                                                                              |
| <b>Depth to Water (ft TOC)</b>                      | 28.44                                                                                                                                                        |
| <b>Was flow rate measured?</b>                      | Flow Rate was measured.                                                                                                                                      |
| <b>Flow Rate (gpm)</b>                              | 0.08                                                                                                                                                         |
| <b>Total Purged (gal)</b>                           | 0.20                                                                                                                                                         |
| <b>Geographic Sample Location</b>                   | 3372 Lime Rd, North Avondale, CO 81022, USA<br>latitude: 38.12894593692263 altitude: 1535.1311<br>longitude: -104.60617332729008 [ <a href="#">viewMap</a> ] |
| <b>Sample(s) collected for laboratory analysis?</b> | Yes                                                                                                                                                          |

**Sampler**

|                     |                                                   |
|---------------------|---------------------------------------------------|
| <b>Sampler Name</b> | Amy Rodrigues – GCC Pueblo Environmental Engineer |
|---------------------|---------------------------------------------------|

## Sampler's Signature



## SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

## Sample Submittal Information

LAB SAMPLE

1 OF 1

## Details

|                              |                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| Method of Sample Collection  | MW-9 – Dedicated Proactive Environmental SS<br>Sample Champ XL 12-volt low-flow<br>submersible pump |
| Lab Sample Name              | MW-9                                                                                                |
| Sample Date/Time             | Mar 12, 2024 11:30:00 AM MDT                                                                        |
| Lab Suite                    | GW-Compliance                                                                                       |
| Number of Bottles/Containers | 3                                                                                                   |
| Lab Sample Type              | Normal                                                                                              |

## Sample Handling

SAMPLE HANDLING

1 OF 3

## Bottle Details

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| ACZ Labs Bottle Sticker            | None                                           |
| Bottle Volume (mL)                 | 500                                            |
| Bottle Composition                 | Poly                                           |
| Bottle Quantity                    | 1                                              |
| Field-Filtered to 0.45 µm (Yes/No) | No                                             |
| Preservative (Type)                | Raw/None                                       |
| Analysis                           | Wet Chemistry - no preservative, no filtration |

SAMPLE HANDLING

2 OF 3

Bottle Details

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| ACZ Labs Bottle Sticker            | White                                           |
| Bottle Volume (mL)                 | 250                                             |
| Bottle Composition                 | Poly                                            |
| Bottle Quantity                    | 1                                               |
| Field-Filtered to 0.45 µm (Yes/No) | Yes                                             |
| Preservative (Type)                | Raw/None                                        |
| Analysis                           | Wet Chemistry - no preservative, field-filtered |

SAMPLE HANDLING

3 OF 3

Bottle Details

|                                    |                                                                       |
|------------------------------------|-----------------------------------------------------------------------|
| ACZ Labs Bottle Sticker            | Green PC                                                              |
| Bottle Volume (mL)                 | 125                                                                   |
| Bottle Composition                 | Poly                                                                  |
| Bottle Quantity                    | 1                                                                     |
| Field-Filtered to 0.45 µm (Yes/No) | Yes                                                                   |
| Preservative (Type)                | Nitric Acid                                                           |
| Analysis                           | Metals (dissolved including ICPMS) - nitric preserved, field-filtered |



## Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant  
(719) 647-6800  
3372 Lime Road  
Pueblo, CO 81004  
[www.gcc.com](http://www.gcc.com)

|                                                                      |                                                                   |
|----------------------------------------------------------------------|-------------------------------------------------------------------|
| Reference Number:<br><b>GCC_RGPP-20240318-1314032001-18359944455</b> | Form Name:<br><b>Wells - GCC Pueblo Compliance Water Sampling</b> |
| Submitter Name:<br><b>Amy Rodrigues   amy.rodrigues</b>              | Date Sent on Device:<br><b>Mar 18, 2024 3:55:57 PM MDT</b>        |

### SITE INFORMATION

#### Location

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
| Project Site                                          | GCC Rio Grande Pueblo Plant |
| Sample ID                                             | MW-10                       |
| Water present to measure/sample?                      | Yes                         |
| Is the water present within 0.25 feet of the well TD? | No                          |

|                                           |       |
|-------------------------------------------|-------|
| Wellhead Stick-Up from Ground Level       | 2.24  |
| Reference Point to Depth to Water Level   |       |
| Reference Point (ft)                      |       |
| Static Depth to Water (ft)                | 25.21 |
| Well Total Depth (ft below top of casing) | 82.55 |
| Depth to Water below ground Surface (ft)  | 22.97 |
| Well Diameter (In)                        | 2     |

#### Misc

**Site Photo****Water Quality Meter****Water Quality Meter Make/Model/SN**

In-Situ AquaTroll 400 SN 896017

**Calibration Date/Time:**

Mar 11, 2024 9:00:00 AM MDT

**Calibration Parameters**

Specific Conductivity (SC)

pH

Oxygen Reduction Potential (ORP)

Dissolved Oxygen (DO or RDO)

**AquaTroll calibration log generated?**

Yes

**SAMPLING DETAILS****Weather**

Partly Sunny

**Air Temperature (°F)**

55

**Date**

Mar 12, 2024

**Time**

12:02:00 PM MDT

**Comments**Dissolved oxygen was not recorded for well.  
Issue wasn't identified in field.**Micro-Purge Stabilization Parameters #1****Parameter Date/Time**

Mar 12, 2024 11:57:00 AM MDT

**Sample Temperature (°C)**

15.07

**Specific Conductivity (µS/cm)**

4154.54

**pH (S.U.)**

7.80

**Oxygen Reduction Potential (mV)**

-162.27

|                                                        |                                                                                                                                                              |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dissolved Oxygen (mg/L)</b>                         | 0.00                                                                                                                                                         |
| <b>Micro-Purge Stabilization Parameters #2</b>         |                                                                                                                                                              |
| <b>Parameter Date/Time</b>                             | Mar 12, 2024 12:00:00 PM MDT                                                                                                                                 |
| <b>Sample Temperature (°C)</b>                         | 15.32                                                                                                                                                        |
| <b>Specific Conductivity (µS/cm)</b>                   | 3606.01                                                                                                                                                      |
| <b>pH (S.U.)</b>                                       | 7.78                                                                                                                                                         |
| <b>Oxygen Reduction Potential (mV)</b>                 | -158.13                                                                                                                                                      |
| <b>Dissolved Oxygen (mg/L)</b>                         | 0.00                                                                                                                                                         |
| <b>Micro-Purge Stabilization Parameters #3 (FINAL)</b> |                                                                                                                                                              |
| <b>Parameter Date/Time</b>                             | Mar 12, 2024 12:02:00 PM MDT                                                                                                                                 |
| <b>Sample Temperature (°C)</b>                         | 15.40                                                                                                                                                        |
| <b>Specific Conductivity (µS/cm)</b>                   | 3502.21                                                                                                                                                      |
| <b>pH (S.U.)</b>                                       | 7.76                                                                                                                                                         |
| <b>Oxygen Reduction Potential (mV)</b>                 | -156.30                                                                                                                                                      |
| <b>Dissolved Oxygen (mg/L)</b>                         | 0.00                                                                                                                                                         |
| <b>Purge and Sampling</b>                              |                                                                                                                                                              |
| <b>Water level measured at sample time?</b>            | Depth to Water (ft TOC) measured at Sample Time                                                                                                              |
| <b>Depth to Water (ft TOC)</b>                         | 36.48                                                                                                                                                        |
| <b>Was flow rate measured?</b>                         | Flow Rate was measured.                                                                                                                                      |
| <b>Flow Rate (gpm)</b>                                 | 0.07                                                                                                                                                         |
| <b>Total Purged (gal)</b>                              | 0.50                                                                                                                                                         |
| <b>Geographic Sample Location</b>                      | 3372 Lime Rd, North Avondale, CO 81022, USA<br>latitude: 38.12894593692263 altitude: 1535.1399<br>longitude: -104.60617332729008 [ <a href="#">viewMap</a> ] |
| <b>Sample(s) collected for laboratory analysis?</b>    | Yes                                                                                                                                                          |
| <b>Sampler</b>                                         |                                                                                                                                                              |
| <b>Sampler Name</b>                                    | Amy Rodrigues – GCC Pueblo Environmental Engineer                                                                                                            |

## Sampler's Signature



## SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

## Sample Submittal Information

LAB SAMPLE

1 OF 1

## Details

|                              |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Method of Sample Collection  | MW-10 – Dedicated Proactive Environmental<br>SS Sample Champ XL 12-volt low-flow<br>submersible pump |
| Lab Sample Name              | MW-10                                                                                                |
| Sample Date/Time             | Mar 12, 2024 12:02:00 PM MDT                                                                         |
| Lab Suite                    | GW-Compliance                                                                                        |
| Number of Bottles/Containers | 3                                                                                                    |
| Lab Sample Type              | Normal                                                                                               |

## Sample Handling

SAMPLE HANDLING

1 OF 3

## Bottle Details

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| ACZ Labs Bottle Sticker            | None                                           |
| Bottle Volume (mL)                 | 500                                            |
| Bottle Composition                 | Poly                                           |
| Bottle Quantity                    | 1                                              |
| Field-Filtered to 0.45 µm (Yes/No) | No                                             |
| Preservative (Type)                | Raw/None                                       |
| Analysis                           | Wet Chemistry - no preservative, no filtration |

## SAMPLE HANDLING

2 OF 3

## Bottle Details

|                                           |                                                 |
|-------------------------------------------|-------------------------------------------------|
| <b>ACZ Labs Bottle Sticker</b>            | White                                           |
| <b>Bottle Volume (mL)</b>                 | 250                                             |
| <b>Bottle Composition</b>                 | Poly                                            |
| <b>Bottle Quantity</b>                    | 1                                               |
| <b>Field-Filtered to 0.45 µm (Yes/No)</b> | Yes                                             |
| <b>Preservative (Type)</b>                | Raw/None                                        |
| <b>Analysis</b>                           | Wet Chemistry - no preservative, field-filtered |

## SAMPLE HANDLING

3 OF 3

## Bottle Details

|                                           |                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------|
| <b>ACZ Labs Bottle Sticker</b>            | Green PC                                                              |
| <b>Bottle Volume (mL)</b>                 | 125                                                                   |
| <b>Bottle Composition</b>                 | Poly                                                                  |
| <b>Bottle Quantity</b>                    | 1                                                                     |
| <b>Field-Filtered to 0.45 µm (Yes/No)</b> | Yes                                                                   |
| <b>Preservative (Type)</b>                | Nitric Acid                                                           |
| <b>Analysis</b>                           | Metals (dissolved including ICPMS) - nitric preserved, field-filtered |



## Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant  
(719) 647-6800  
3372 Lime Road  
Pueblo, CO 81004  
[www.gcc.com](http://www.gcc.com)

|                                                                      |                                                                   |
|----------------------------------------------------------------------|-------------------------------------------------------------------|
| Reference Number:<br><b>GCC_RGPP-20240318-1314032001-18359943093</b> | Form Name:<br><b>Wells - GCC Pueblo Compliance Water Sampling</b> |
| Submitter Name:<br><b>Amy Rodrigues   amy.rodrigues</b>              | Date Sent on Device:<br><b>Mar 18, 2024 3:06:28 PM MDT</b>        |

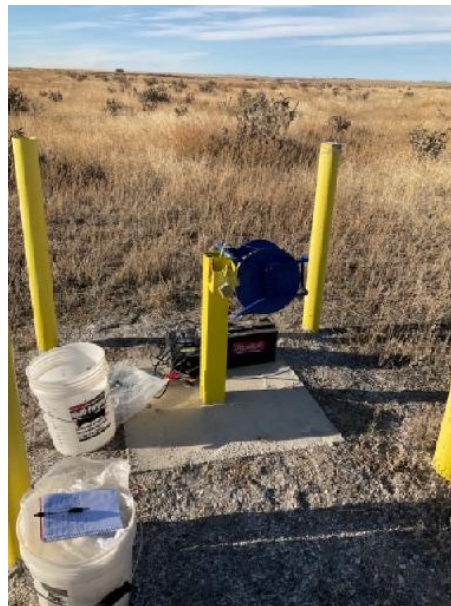
### SITE INFORMATION

#### Location

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
| Project Site                                          | GCC Rio Grande Pueblo Plant |
| Sample ID                                             | MW-11                       |
| Water present to measure/sample?                      | Yes                         |
| Is the water present within 0.25 feet of the well TD? | No                          |

|                                           |       |
|-------------------------------------------|-------|
| Wellhead Stick-Up from Ground Level       | 2.18  |
| Reference Point to Depth to Water Level   |       |
| Reference Point (ft)                      |       |
| Static Depth to Water (ft)                | 54.60 |
| Well Total Depth (ft below top of casing) | 72.68 |
| Depth to Water below ground Surface (ft)  | 52.42 |
| Well Diameter (In)                        | 2     |

#### Misc

**Site Photo****Water Quality Meter****Water Quality Meter Make/Model/SN**

In-Situ AquaTroll 400 SN 896017

**Calibration Date/Time:**

Mar 11, 2024 9:00:00 AM MDT

**Calibration Parameters**

Specific Conductivity (SC)

pH

Oxygen Reduction Potential (ORP)

Dissolved Oxygen (DO or RDO)

**AquaTroll calibration log generated?**

Yes

**SAMPLING DETAILS****Weather**

Partly Sunny

**Air Temperature (°F)**

55

**Date**

Mar 12, 2024

**Time**

9:21:00 AM MDT

**Micro-Purge Stabilization Parameters #1****Parameter Date/Time**

Mar 12, 2024 9:16:00 AM MDT

**Sample Temperature (°C)**

15.43

**Specific Conductivity (µS/cm)**

2266.63

**pH (S.U.)**

7.30

**Oxygen Reduction Potential (mV)**

-316.62

**Are you sure? This value seems very unlikely based on past data?**

Yes

**ORP - Out of Range**

Suspect conditions not observed before but I think the parameter value is accurate

**Dissolved Oxygen (mg/L)**

2.45

**Micro-Purge Stabilization Parameters #2****Parameter Date/Time**

Mar 12, 2024 9:02:00 AM MDT

**Sample Temperature (°C)**

15.57

**Specific Conductivity (µS/cm)**

2154.83

**pH (S.U.)**

7.25

**Oxygen Reduction Potential (mV)**

-307.37

**Are you sure? This value seems very unlikely based on past data?** Yes**ORP - Out of Range**

Suspect conditions not observed before but I think the parameter value is accurate

**Dissolved Oxygen (mg/L)**

2.39

**Micro-Purge Stabilization Parameters #3 (FINAL)****Parameter Date/Time**

Mar 12, 2024 9:21:00 AM MDT

**Sample Temperature (°C)**

15.62

**Specific Conductivity (µS/cm)**

2092.60

**pH (S.U.)**

7.25

**Oxygen Reduction Potential (mV)**

-299.45

**Dissolved Oxygen (mg/L)**

2.67

**Purge and Sampling****Water level measured at sample time?**

Depth to Water (ft TOC) measured at Sample Time

**Depth to Water (ft TOC)**

57.66

**Was flow rate measured?**

Flow Rate was measured.

**Flow Rate (gpm)**

0.04

**Total Purged (gal)**

0.40

**Geographic Sample Location**3372 Lime Rd, North Avondale, CO 81022, USA  
latitude: 38.12894593692263 altitude: 1535.1459  
longitude: -104.60617332729008 [ [viewMap](#) ]**Sample(s) collected for laboratory analysis?** Yes

## Sampler

**Sampler Name**

Amy Rodrigues – GCC Pueblo Environmental Engineer

**Sampler's Signature**

## SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

### Sample Submittal Information

LAB SAMPLE

1 OF 1

### Details

**Method of Sample Collection**MW-11 – Dedicated Proactive Environmental  
SS Sample Champ XL 12-volt low-flow  
submersible pump**Lab Sample Name**

MW-11

**Sample Date/Time**

Mar 12, 2024 9:21:00 AM MDT

**Lab Suite**

GW-Compliance

**Number of Bottles/Containers**

3

**Lab Sample Type**

Normal

### Sample Handling

SAMPLE HANDLING

1 OF 3

### Bottle Details

**ACZ Labs Bottle Sticker**

None

**Bottle Volume (mL)**

500

**Bottle Composition**

Poly

**Bottle Quantity**

1

|                                           |                                                |
|-------------------------------------------|------------------------------------------------|
| <b>Field-Filtered to 0.45 µm (Yes/No)</b> | No                                             |
| <b>Preservative (Type)</b>                | Raw/None                                       |
| <b>Analysis</b>                           | Wet Chemistry - no preservative, no filtration |

## SAMPLE HANDLING

2 OF 3

## Bottle Details

|                                           |                                                 |
|-------------------------------------------|-------------------------------------------------|
| <b>ACZ Labs Bottle Sticker</b>            | White                                           |
| <b>Bottle Volume (mL)</b>                 | 250                                             |
| <b>Bottle Composition</b>                 | Poly                                            |
| <b>Bottle Quantity</b>                    | 1                                               |
| <b>Field-Filtered to 0.45 µm (Yes/No)</b> | Yes                                             |
| <b>Preservative (Type)</b>                | Raw/None                                        |
| <b>Analysis</b>                           | Wet Chemistry - no preservative, field-filtered |

## SAMPLE HANDLING

3 OF 3

## Bottle Details

|                                           |                                                                       |
|-------------------------------------------|-----------------------------------------------------------------------|
| <b>ACZ Labs Bottle Sticker</b>            | Green PC                                                              |
| <b>Bottle Volume (mL)</b>                 | 125                                                                   |
| <b>Bottle Composition</b>                 | Poly                                                                  |
| <b>Bottle Quantity</b>                    | 1                                                                     |
| <b>Field-Filtered to 0.45 µm (Yes/No)</b> | Yes                                                                   |
| <b>Preservative (Type)</b>                | Nitric Acid                                                           |
| <b>Analysis</b>                           | Metals (dissolved including ICPMS) - nitric preserved, field-filtered |



## Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant  
(719) 647-6800  
3372 Lime Road  
Pueblo, CO 81004  
[www.gcc.com](http://www.gcc.com)

|                                                                      |                                                                   |
|----------------------------------------------------------------------|-------------------------------------------------------------------|
| Reference Number:<br><b>GCC_RGPP-20240318-1314032001-18359943163</b> | Form Name:<br><b>Wells - GCC Pueblo Compliance Water Sampling</b> |
| Submitter Name:<br><b>Amy Rodrigues   amy.rodrigues</b>              | Date Sent on Device:<br><b>Mar 18, 2024 3:13:44 PM MDT</b>        |

### SITE INFORMATION

#### Location

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
| Project Site                                          | GCC Rio Grande Pueblo Plant |
| Sample ID                                             | MW-12                       |
| Water present to measure/sample?                      | Yes                         |
| Is the water present within 0.25 feet of the well TD? | No                          |

|                                           |       |
|-------------------------------------------|-------|
| Wellhead Stick-Up from Ground Level       | 2.29  |
| Reference Point to Depth to Water Level   |       |
| Reference Point (ft)                      |       |
| Static Depth to Water (ft)                | 58.65 |
| Well Total Depth (ft below top of casing) | 88.8  |
| Depth to Water below ground Surface (ft)  | 56.36 |
| Well Diameter (In)                        | 2     |

#### Misc

**Site Photo****Water Quality Meter****Water Quality Meter Make/Model/SN**

In-Situ AquaTroll 400 SN 896017

**Calibration Date/Time:**

Mar 11, 2024 9:00:00 AM MDT

**Calibration Parameters**

Specific Conductivity (SC)

pH

Oxygen Reduction Potential (ORP)

Dissolved Oxygen (DO or RDO)

**AquaTroll calibration log generated?**

Yes

**SAMPLING DETAILS****Weather**

Partly Sunny

**Air Temperature (°F)**

55

**Date**

Mar 12, 2024

**Time**

9:42:00 AM MDT

**Micro-Purge Stabilization Parameters #1****Parameter Date/Time**

Mar 12, 2024 9:37:00 AM MDT

**Sample Temperature (°C)**

14.74

**Specific Conductivity (µS/cm)**

4522.57

**pH (S.U.)**

7.70

**Oxygen Reduction Potential (mV)**

-276.01

**Dissolved Oxygen (mg/L)**

1.54

**Micro-Purge Stabilization Parameters #2**

|                                        |                             |
|----------------------------------------|-----------------------------|
| <b>Parameter Date/Time</b>             | Mar 12, 2024 9:40:00 AM MDT |
| <b>Sample Temperature (°C)</b>         | 14.85                       |
| <b>Specific Conductivity (µS/cm)</b>   | 4523.10                     |
| <b>pH (S.U.)</b>                       | 7.70                        |
| <b>Oxygen Reduction Potential (mV)</b> | -270.63                     |
| <b>Dissolved Oxygen (mg/L)</b>         | 1.51                        |

**Micro-Purge Stabilization Parameters #3 (FINAL)**

|                                        |                             |
|----------------------------------------|-----------------------------|
| <b>Parameter Date/Time</b>             | Mar 12, 2024 9:42:00 AM MDT |
| <b>Sample Temperature (°C)</b>         | 14.96                       |
| <b>Specific Conductivity (µS/cm)</b>   | 4510.05                     |
| <b>pH (S.U.)</b>                       | 7.70                        |
| <b>Oxygen Reduction Potential (mV)</b> | -266.92                     |
| <b>Dissolved Oxygen (mg/L)</b>         | 1.55                        |

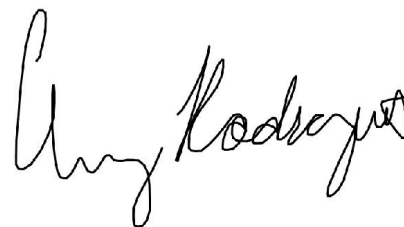
**Purge and Sampling**

|                                                     |                                                                                                                                                              |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Water level measured at sample time?</b>         | Depth to Water (ft TOC) measured at Sample Time                                                                                                              |
| <b>Depth to Water (ft TOC)</b>                      | 63.33                                                                                                                                                        |
| <b>Was flow rate measured?</b>                      | Flow Rate was measured.                                                                                                                                      |
| <b>Flow Rate (gpm)</b>                              | 0.07                                                                                                                                                         |
| <b>Total Purged (gal)</b>                           | 0.50                                                                                                                                                         |
| <b>Geographic Sample Location</b>                   | 3372 Lime Rd, North Avondale, CO 81022, USA<br>latitude: 38.12894593692263 altitude: 1535.1344<br>longitude: -104.60617332729008 [ <a href="#">viewMap</a> ] |
| <b>Sample(s) collected for laboratory analysis?</b> | Yes                                                                                                                                                          |

**Sampler**

|                     |                                                   |
|---------------------|---------------------------------------------------|
| <b>Sampler Name</b> | Amy Rodrigues – GCC Pueblo Environmental Engineer |
|---------------------|---------------------------------------------------|

## Sampler's Signature



## SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

## Sample Submittal Information

LAB SAMPLE

1 OF 1

## Details

|                              |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Method of Sample Collection  | MW-12 – Dedicated Proactive Environmental<br>SS Sample Champ XL 12-volt low-flow<br>submersible pump |
| Lab Sample Name              | MW-12                                                                                                |
| Sample Date/Time             | Mar 12, 2024 9:42:00 AM MDT                                                                          |
| Lab Suite                    | GW-Compliance                                                                                        |
| Number of Bottles/Containers | 3                                                                                                    |
| Lab Sample Type              | Normal                                                                                               |

## Sample Handling

SAMPLE HANDLING

1 OF 3

## Bottle Details

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| ACZ Labs Bottle Sticker            | None                                           |
| Bottle Volume (mL)                 | 500                                            |
| Bottle Composition                 | Poly                                           |
| Bottle Quantity                    | 1                                              |
| Field-Filtered to 0.45 µm (Yes/No) | No                                             |
| Preservative (Type)                | Raw/None                                       |
| Analysis                           | Wet Chemistry - no preservative, no filtration |

SAMPLE HANDLING

2 OF 3

Bottle Details

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| ACZ Labs Bottle Sticker            | White                                           |
| Bottle Volume (mL)                 | 250                                             |
| Bottle Composition                 | Poly                                            |
| Bottle Quantity                    | 1                                               |
| Field-Filtered to 0.45 µm (Yes/No) | Yes                                             |
| Preservative (Type)                | Raw/None                                        |
| Analysis                           | Wet Chemistry - no preservative, field-filtered |

SAMPLE HANDLING

3 OF 3

Bottle Details

|                                    |                                                                       |
|------------------------------------|-----------------------------------------------------------------------|
| ACZ Labs Bottle Sticker            | Green PC                                                              |
| Bottle Volume (mL)                 | 125                                                                   |
| Bottle Composition                 | Poly                                                                  |
| Bottle Quantity                    | 1                                                                     |
| Field-Filtered to 0.45 µm (Yes/No) | Yes                                                                   |
| Preservative (Type)                | Nitric Acid                                                           |
| Analysis                           | Metals (dissolved including ICPMS) - nitric preserved, field-filtered |



## Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant  
(719) 647-6800  
3372 Lime Road  
Pueblo, CO 81004  
[www.gcc.com](http://www.gcc.com)

|                                                                      |                                                                   |
|----------------------------------------------------------------------|-------------------------------------------------------------------|
| Reference Number:<br><b>GCC_RGPP-20240318-1314032001-18359927296</b> | Form Name:<br><b>Wells - GCC Pueblo Compliance Water Sampling</b> |
| Submitter Name:<br><b>Amy Rodrigues   amy.rodrigues</b>              | Date Sent on Device:<br><b>Mar 18, 2024 12:45:31 PM MDT</b>       |

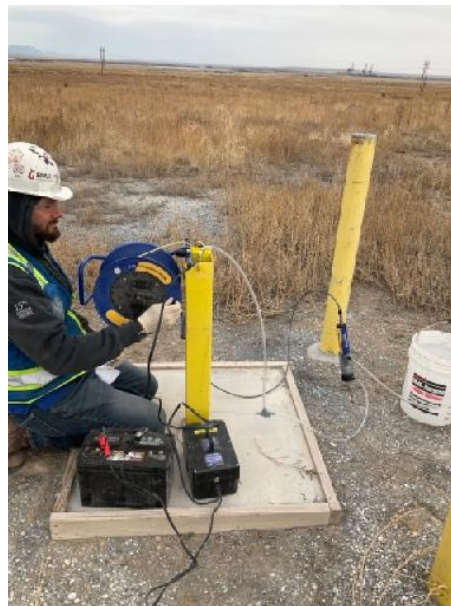
### SITE INFORMATION

#### Location

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
| Project Site                                          | GCC Rio Grande Pueblo Plant |
| Sample ID                                             | MW-13                       |
| Water present to measure/sample?                      | Yes                         |
| Is the water present within 0.25 feet of the well TD? | No                          |

|                                           |        |
|-------------------------------------------|--------|
| Wellhead Stick-Up from Ground Level       | 2.19   |
| Reference Point to Depth to Water Level   |        |
| Reference Point (ft)                      |        |
| Static Depth to Water (ft)                | 117.18 |
| Well Total Depth (ft below top of casing) | 177.88 |
| Depth to Water below ground Surface (ft)  | 114.99 |
| Well Diameter (In)                        | 2      |

#### Misc

**Site Photo****Water Quality Meter****Water Quality Meter Make/Model/SN**

In-Situ AquaTroll 400 SN 896017

**Calibration Date/Time:**

Mar 11, 2024 9:00:00 AM MDT

**Calibration Parameters**

Specific Conductivity (SC)

pH

Oxygen Reduction Potential (ORP)

Dissolved Oxygen (DO or RDO)

**AquaTroll calibration log generated?**

Yes

**SAMPLING DETAILS****Weather**

Cloudy

**Air Temperature (°F)**

51

**Date**

Mar 11, 2024

**Time**

11:37:00 AM MDT

**Micro-Purge Stabilization Parameters #1****Parameter Date/Time**

Mar 11, 2024 11:31:00 AM MDT

**Sample Temperature (°C)**

15.30

**Specific Conductivity (µS/cm)**

3854.31

**pH (S.U.)**

7.93

**Oxygen Reduction Potential (mV)**

-173.95

**Dissolved Oxygen (mg/L)**

1.75

**Micro-Purge Stabilization Parameters #2**

|                                        |                              |
|----------------------------------------|------------------------------|
| <b>Parameter Date/Time</b>             | Mar 11, 2024 11:33:00 AM MDT |
| <b>Sample Temperature (°C)</b>         | 15.39                        |
| <b>Specific Conductivity (µS/cm)</b>   | 3846.54                      |
| <b>pH (S.U.)</b>                       | 7.93                         |
| <b>Oxygen Reduction Potential (mV)</b> | -176.16                      |
| <b>Dissolved Oxygen (mg/L)</b>         | 1.50                         |

**Micro-Purge Stabilization Parameters #3 (FINAL)**

|                                        |                              |
|----------------------------------------|------------------------------|
| <b>Parameter Date/Time</b>             | Mar 11, 2024 11:37:00 AM MDT |
| <b>Sample Temperature (°C)</b>         | 15.41                        |
| <b>Specific Conductivity (µS/cm)</b>   | 3783.18                      |
| <b>pH (S.U.)</b>                       | 7.95                         |
| <b>Oxygen Reduction Potential (mV)</b> | -180.05                      |
| <b>Dissolved Oxygen (mg/L)</b>         | 1.46                         |

**Purge and Sampling**

|                                                     |                                                                                                                                                              |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Water level measured at sample time?</b>         | Depth to Water (ft TOC) measured at Sample Time                                                                                                              |
| <b>Depth to Water (ft TOC)</b>                      | 117.01                                                                                                                                                       |
| <b>Was flow rate measured?</b>                      | Flow Rate was measured.                                                                                                                                      |
| <b>Flow Rate (gpm)</b>                              | 0.04                                                                                                                                                         |
| <b>Total Purged (gal)</b>                           | 1.00                                                                                                                                                         |
| <b>Geographic Sample Location</b>                   | 3372 Lime Rd, North Avondale, CO 81022, USA<br>latitude: 38.12894593692263 altitude: 1535.1412<br>longitude: -104.60617332729008 [ <a href="#">viewMap</a> ] |
| <b>Sample(s) collected for laboratory analysis?</b> | Yes                                                                                                                                                          |

**Sampler**

|                     |                                                   |
|---------------------|---------------------------------------------------|
| <b>Sampler Name</b> | Amy Rodrigues – GCC Pueblo Environmental Engineer |
|---------------------|---------------------------------------------------|

## Sampler's Signature



## SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

## Sample Submittal Information

LAB SAMPLE

1 OF 1

## Details

|                              |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Method of Sample Collection  | MW-13 – Dedicated Proactive Environmental<br>SS Sample Champ XL 12-volt low-flow<br>submersible pump |
| Lab Sample Name              | MW-13                                                                                                |
| Sample Date/Time             | Mar 11, 2024 11:37:00 AM MDT                                                                         |
| Lab Suite                    | GW-Compliance                                                                                        |
| Number of Bottles/Containers | 3                                                                                                    |
| Lab Sample Type              | Normal                                                                                               |

## Sample Handling

SAMPLE HANDLING

1 OF 3

## Bottle Details

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| ACZ Labs Bottle Sticker            | None                                           |
| Bottle Volume (mL)                 | 500                                            |
| Bottle Composition                 | Poly                                           |
| Bottle Quantity                    | 1                                              |
| Field-Filtered to 0.45 µm (Yes/No) | No                                             |
| Preservative (Type)                | Raw/None                                       |
| Analysis                           | Wet Chemistry - no preservative, no filtration |

SAMPLE HANDLING

2 OF 3

Bottle Details

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| ACZ Labs Bottle Sticker            | White                                           |
| Bottle Volume (mL)                 | 250                                             |
| Bottle Composition                 | Poly                                            |
| Bottle Quantity                    | 1                                               |
| Field-Filtered to 0.45 µm (Yes/No) | Yes                                             |
| Preservative (Type)                | Raw/None                                        |
| Analysis                           | Wet Chemistry - no preservative, field-filtered |

SAMPLE HANDLING

3 OF 3

Bottle Details

|                                    |                                                                       |
|------------------------------------|-----------------------------------------------------------------------|
| ACZ Labs Bottle Sticker            | Green PC                                                              |
| Bottle Volume (mL)                 | 125                                                                   |
| Bottle Composition                 | Poly                                                                  |
| Bottle Quantity                    | 1                                                                     |
| Field-Filtered to 0.45 µm (Yes/No) | Yes                                                                   |
| Preservative (Type)                | Nitric Acid                                                           |
| Analysis                           | Metals (dissolved including ICPMS) - nitric preserved, field-filtered |



## Wells - GCC Pueblo Compliance Water Sampling

GCC Pueblo Quarry and Cement Plant  
(719) 647-6800  
3372 Lime Road  
Pueblo, CO 81004  
[www.gcc.com](http://www.gcc.com)

|                                                                      |                                                                   |
|----------------------------------------------------------------------|-------------------------------------------------------------------|
| Reference Number:<br><b>GCC_RGPP-20240318-1314032001-18359927172</b> | Form Name:<br><b>Wells - GCC Pueblo Compliance Water Sampling</b> |
| Submitter Name:<br><b>Amy Rodrigues   amy.rodrigues</b>              | Date Sent on Device:<br><b>Mar 18, 2024 12:34:33 PM MDT</b>       |

### SITE INFORMATION

#### Location

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
| Project Site                                          | GCC Rio Grande Pueblo Plant |
| Sample ID                                             | MW-14                       |
| Water present to measure/sample?                      | Yes                         |
| Is the water present within 0.25 feet of the well TD? | No                          |

|                                           |        |
|-------------------------------------------|--------|
| Wellhead Stick-Up from Ground Level       | 2.11   |
| Reference Point to Depth to Water Level   |        |
| Reference Point (ft)                      |        |
| Static Depth to Water (ft)                | 97.32  |
| Well Total Depth (ft below top of casing) | 207.83 |
| Depth to Water below ground Surface (ft)  | 95.21  |
| Well Diameter (In)                        | 2      |

#### Misc

**Site Photo****Water Quality Meter**

|                                             |                                                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Water Quality Meter Make/Model/SN</b>    | In-Situ AquaTroll 400 SN 896017                                                                      |
| <b>Calibration Date/Time:</b>               | Mar 11, 2024 9:00:00 AM MDT                                                                          |
| <b>Calibration Parameters</b>               | Specific Conductivity (SC)<br>pH<br>Oxygen Reduction Potential (ORP)<br>Dissolved Oxygen (DO or RDO) |
| <b>AquaTroll calibration log generated?</b> | Yes                                                                                                  |

**SAMPLING DETAILS**

|                             |                 |
|-----------------------------|-----------------|
| <b>Weather</b>              | Cloudy          |
| <b>Air Temperature (°F)</b> | 51              |
| <b>Date</b>                 | Mar 11, 2024    |
| <b>Time</b>                 | 10:47:00 AM MDT |

**Micro-Purge Stabilization Parameters #1**

|                                        |                              |
|----------------------------------------|------------------------------|
| <b>Parameter Date/Time</b>             | Mar 11, 2024 10:41:00 AM MDT |
| <b>Sample Temperature (°C)</b>         | 14.72                        |
| <b>Specific Conductivity (µS/cm)</b>   | 6586.25                      |
| <b>pH (S.U.)</b>                       | 7.61                         |
| <b>Oxygen Reduction Potential (mV)</b> | -109.54                      |
| <b>Dissolved Oxygen (mg/L)</b>         | 1.94                         |

**Micro-Purge Stabilization Parameters #2**

|                                        |                              |
|----------------------------------------|------------------------------|
| <b>Parameter Date/Time</b>             | Mar 11, 2024 10:44:00 AM MDT |
| <b>Sample Temperature (°C)</b>         | 14.80                        |
| <b>Specific Conductivity (µS/cm)</b>   | 6399.14                      |
| <b>pH (S.U.)</b>                       | 7.58                         |
| <b>Oxygen Reduction Potential (mV)</b> | -112.17                      |
| <b>Dissolved Oxygen (mg/L)</b>         | 1.44                         |

**Micro-Purge Stabilization Parameters #3 (FINAL)**

|                                        |                              |
|----------------------------------------|------------------------------|
| <b>Parameter Date/Time</b>             | Mar 11, 2024 10:47:00 AM MDT |
| <b>Sample Temperature (°C)</b>         | 14.83                        |
| <b>Specific Conductivity (µS/cm)</b>   | 6462.37                      |
| <b>pH (S.U.)</b>                       | 7.57                         |
| <b>Oxygen Reduction Potential (mV)</b> | -114.57                      |
| <b>Dissolved Oxygen (mg/L)</b>         | 2.24                         |

**Purge and Sampling**

|                                                     |                                                                                                                                                              |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Water level measured at sample time?</b>         | Depth to Water (ft TOC) measured at Sample Time                                                                                                              |
| <b>Depth to Water (ft TOC)</b>                      | 109.66                                                                                                                                                       |
| <b>Was flow rate measured?</b>                      | Flow Rate was measured.                                                                                                                                      |
| <b>Flow Rate (gpm)</b>                              | 0.04                                                                                                                                                         |
| <b>Total Purged (gal)</b>                           | 1.20                                                                                                                                                         |
| <b>Geographic Sample Location</b>                   | 3372 Lime Rd, North Avondale, CO 81022, USA<br>latitude: 38.12894593692263 altitude: 1535.1417<br>longitude: -104.60617332729008 [ <a href="#">viewMap</a> ] |
| <b>Sample(s) collected for laboratory analysis?</b> | Yes                                                                                                                                                          |

**Sampler**

|                     |                                                   |
|---------------------|---------------------------------------------------|
| <b>Sampler Name</b> | Amy Rodrigues – GCC Pueblo Environmental Engineer |
|---------------------|---------------------------------------------------|

## Sampler's Signature



## SAMPLE(S) COLLECTED FOR LABORATORY ANALYSIS

## Sample Submittal Information

LAB SAMPLE

1 OF 1

## Details

|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| Method of Sample Collection  | MW-14 – Dedicated QED SS Well Wizard<br>T1300 low-flow bladder pump |
| Lab Sample Name              | MW-14                                                               |
| Sample Date/Time             | Mar 11, 2024 10:47:00 AM MDT                                        |
| Lab Suite                    | GW-Compliance                                                       |
| Number of Bottles/Containers | 3                                                                   |
| Lab Sample Type              | Normal                                                              |

## Sample Handling

SAMPLE HANDLING

1 OF 3

## Bottle Details

|                                    |                                                |
|------------------------------------|------------------------------------------------|
| ACZ Labs Bottle Sticker            | None                                           |
| Bottle Volume (mL)                 | 500                                            |
| Bottle Composition                 | Poly                                           |
| Bottle Quantity                    | 1                                              |
| Field-Filtered to 0.45 µm (Yes/No) | No                                             |
| Preservative (Type)                | Raw/None                                       |
| Analysis                           | Wet Chemistry - no preservative, no filtration |

SAMPLE HANDLING

2 OF 3

Bottle Details

|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| ACZ Labs Bottle Sticker            | White                                           |
| Bottle Volume (mL)                 | 250                                             |
| Bottle Composition                 | Poly                                            |
| Bottle Quantity                    | 1                                               |
| Field-Filtered to 0.45 µm (Yes/No) | Yes                                             |
| Preservative (Type)                | Raw/None                                        |
| Analysis                           | Wet Chemistry - no preservative, field-filtered |

SAMPLE HANDLING

3 OF 3

Bottle Details

|                                    |                                                                       |
|------------------------------------|-----------------------------------------------------------------------|
| ACZ Labs Bottle Sticker            | Green PC                                                              |
| Bottle Volume (mL)                 | 125                                                                   |
| Bottle Composition                 | Poly                                                                  |
| Bottle Quantity                    | 1                                                                     |
| Field-Filtered to 0.45 µm (Yes/No) | Yes                                                                   |
| Preservative (Type)                | Nitric Acid                                                           |
| Analysis                           | Metals (dissolved including ICPMS) - nitric preserved, field-filtered |

DIANE SHORT & ASSOCIATES, INC. \_\_\_\_\_

2634 S. DeFrame Circle  
Lakewood CO 80228  
303:271-9642  
dsa7cbc@eazyqagc.com

**INORGANIC DATA QUALITY REVIEW REPORT  
METALS BY ICPMS, ICP, CVAA, WET CHEMISTRY AND SPECIAL METHODS**

|                    |                                                                                                                                                                                                                                                                                                                         |                |                 |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|
| SDG                | L86455, L86481                                                                                                                                                                                                                                                                                                          |                |                 |
| PROJECT            | GCC Rio Grande – First Quarter 2024, Resource Hydrogeologic Services and GCC, Pueblo CO                                                                                                                                                                                                                                 |                |                 |
| LABORATORY         | ACZ Laboratories, Steamboat Springs, CO                                                                                                                                                                                                                                                                                 |                |                 |
| SAMPLE MATRIX      | Water                                                                                                                                                                                                                                                                                                                   | SAMPLING DATE: | 3/11, 3/12/2024 |
| ANALYSES REQUESTED | EPA 200.7 (metals by ICP, dissolved), EPA 200.8 (metals by ICPMS, dissolved), EPA 245.1 (mercury, dissolved), SM4500F-C (Fluoride), M353.2 (nitrate + nitrite as nitrogen, nitrite as nitrogen, nitrate as nitrogen); SM2540C (total dissolved solids); D516-02/-07/-11 -Sulfate by turbidimetry; SM4500Cl-E (Chloride) |                |                 |
| SAMPLE NUMBER      | MW-2B, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, METHOD BLANK                                                                                                                                                                                                                                          |                |                 |

DATA REVIEWER: John Huntington \_\_\_\_\_

QA REVIEWER: Diane Short & Associates, Inc. INITIALS/DATE: DL 4/30/2024

Telephone Logs included Yes ☐ No ☒ X  
Contractual Violations Yes ☐ No ☒ X

The Contract Laboratory Program National Functional Guidelines for Inorganic Data Review 2016 (NFG) and the requested EPA Methods, Methods of Chemical Analysis of Water and Wastes (MCAWW) and Standard Methods (SM, current updates) have been referenced by the reviewer to perform this data validation review. The review includes evaluation of calibration, holding times and Quality Control (QC) for all samples; and 10% review of transcription and calculation algorithms from the raw data. Determining the exact analytical sequence was performed to verify that the frequencies of QC sample analyses were met, where applicable, on 10% of the data. General comments regarding the data/analytical quality are part of the review when raw data are submitted. The reports use Diane Short & Associates (DSA) validation qualifiers in the text and tables that include the compilation of the reasons for qualification and the associated values, as defined in each section for QC outliers. The United States Environmental Protection Agency (EPA) qualifiers have been provided. The DSA qualifiers, EPA qualifiers, and validation codes are included in the Electronic Data Deliverable (EDD). Note: those items in this report which have an asterisk (\*) are specific to inductively coupled plasma-mass spectrometry (ICP-MS) and may include inductively coupled plasma-atomic emission spectroscopy (ICP-AES) as applicable.

## I. DELIVERABLES

All deliverables were present as specified in the Statement of Work (SOW), SW-846, or in the project contract. This includes the Case Narrative.

Yes ☒ No ☐

Data were submitted for EPA 200.7 (16 metals by ICP, dissolved), EPA 200.8 (4 metals by ICPMS, dissolved), EPA 245.1 (mercury, dissolved), SM4500F-C (Fluoride), M353.2 (nitrate + nitrite as nitrogen, nitrite as nitrogen, nitrate as nitrogen); SM2540C (total dissolved solids); D516-02/-07/-11 -Sulfate by turbidimetry; SM4500Cl-E (Chloride). Note that for these SDGs, pH was not requested.

The data were validated at EPA Level III (EPA Stage 2B) with a minimum of 10% validated as EPA raw data review).

The laboratory has reported detections to the MDL and has flagged results between the MDL and the PQL with a "B". This is noted because many laboratories use "J" instead of "B" for this purpose, so the meaning of this flag needs to be kept in mind when reviewing the data. The definition of lab flags is provided in the report in the Inorganic Reference section.

## II. ANALYTICAL REPORT FORMS

A. The Analytical Report or Data Sheets are present and complete for all requested analyses.

Yes ☒ No ☐

B. Holding Times

1. The contract holding times were met for all analyses (time of sample receipt to date of analysis).

Yes ☒ No ☐ N/A ☐

Data are qualified from date of collection to analysis, as presented in the next section.

2. The method holding times were met for all analyses (time of sample collection to date of analysis per the holding times in the project QAPP).

Yes ☐ No ☒

The method holding times were met for all analyses, with the following clarifications and exceptions. Results reported by the lab are qualified as JH#, where # is the number of days since sampling. An outlier that is greater than 4x the hold time is rejected. Qualified results not rejected. should be considered as estimates due to time and temperature changes in the samples.

One sample in L86455 had to be diluted after the initial analysis for TDS. The reanalysis was out of the 7-day holding time. The TDS result for this sample is qualified as JH#, where # is the number of days outside of holding time. These results could possibly be biased due to chemical changes between analyses. Any bias should be minor in this case. In addition, this sample is the field duplicate for MW-7 and its TDS result is nearly identical to that of the parent sample.

Qualifiers added are shown below and in the qualified EDD.

| CLIENTID | LABID     | ANALYTE                         | RESULT | QUAL | UNITS | MDL | PQL | DSA | EPA |
|----------|-----------|---------------------------------|--------|------|-------|-----|-----|-----|-----|
| MW-2B    | L86455-06 | Residue, Filterable (TDS) @180C | 4720   | H    | mg/L  | 200 | 400 | JH1 | J-  |

3. Samples were properly preserved to pH < 2 for metals, and applicable preservative was used for other methods.

Yes   X   No        N/A       

#### C. Chains of Custody (COC)

Chains of Custody (COC) were reviewed and all fields were complete, signatures were present, and cross outs were clean and initialed.

Yes   X   No       

All sample analyses were sent under a COC to ACZ Labs, Steamboat Springs, CO. Temperatures on receipt were all in control.

Clarification: Per the GCC project manager, “the sample called “METHOD BLANK” on the COC associated with SDG L86455 is essentially a field blank with DI water and a spare well pump. It is a requirement begun in 4<sup>th</sup> quarter 2023 to have one of these per quarterly sample event. The validator recommends that this field blank be called something else to avoid confusion with laboratory method blanks.

### III. CALIBRATION AND STANDARDIZATION

1. Initial calibration, mass calibration, and resolution checks for both low and high mass isotopes were within 0.1 atomic mass unit (amu) of the true value. (\*)

Yes   X   No       

All requisite instrument tuning or performance measures were done according to the method requirements. (\*).

US EPA Tune Check Sample reports were provided in the raw data and reports indicated the tunes passed in all cases.

2. Mass calibration and resolution checks for both low and high mass isotopes produced a peak width of approximately 0.6 to 0.9 amu at 10% peak height. (\*)

Yes   X   No       

#### 3. Instrument Stability

A tuning solution was analyzed a minimum of four times, and the relative standard deviation (RSD) of absolute signals for all analytes was less than 5%. (\*)

Yes   X   No       

#### B. Instrument Performance and Calibration Standards

1. The Initial Calibration Verification (ICV) standard was within the required control limits of  $\pm 10\%$  of the established value for all analytes. (80 – 120% for mercury, 85 – 115% for Se species)

Yes   X   No       

2. The Continuing Calibration Verification (CCV) standards were analyzed at the required frequency following every 10 analyses.

Yes   X   No       

Sequencing was performed to verify that the frequencies were met for client samples and for proper application of the qualifiers.

3. The CCV standard percent recovery results were within the required control limits of 90 – 110% (80 – 120 % for mercury, 75 – 125% for Se species)

Yes   X   No         

All CCVs were within criteria.

4. The correlation coefficients met the  $\geq 0.995$  criterion, as applicable to the method for mercury.

Yes   X   No         

#### IV. CONTRACT REQUIRED DETECTION LIMIT (CRDL) STANDARDS

1. The 2x CRDL standards were analyzed for metals as required in the QAPP.

Yes   X   No          N/A         

A CRDL check is not required for Method 200.8. However, the laboratory initial calibration run each day has a low-level standard that is very near the reporting limit. This meets method requirements. The 200.7 method does include an RL Check standard that meets criteria.

2. The 2x CRDL standards were within the required control limits of 70 – 130% (ICP: 50 – 150% for Lead, Antimony, and Thallium; ICPMS: 50 – 150% for Cobalt, Manganese, and Zinc).

Yes   X   No         

All CRDLs were within criteria.

#### V. INTERFERENCES

Isobaric Elemental and Molecular Interferences (\* for ICP-MS)

The isotope selected was free of isobaric elemental and elemental interferences as measured by the Interference Check Sample Solutions A and AB (ICSA/ICSAB) for ICP-AES and ICP-MS.

Yes   X   No         

Data are only qualified if the interfering analyte is present in the sample and at levels near the high end of the linear range of the instrument. For Method 200.7, the recovery of the spectral interference check standard (SIC) is reported in the QC as a recovery for each element analyzed. All are in control. Method 200.8 does not specify the use of interference check standards. The laboratory has used collision deactivation and accepted reagent gas technology to minimize interference for ICP/MS.

#### VI. LABORATORY REAGENT BLANK (LRB) OR PREPARATION BLANK

A. Blanks were prepared and analyzed at the required frequency of at least one per each set of samples.

Yes   X   No         

The ICB is used as the method blank for metals. This is acceptable since no digestion was performed on the samples prior to analysis.

B. All analytes in the blank were less than the MDL.

Yes          No   X  

Analytes reported as contaminants in the Preparation Blank are qualified with the DSA qualifier “UMB#,” where # is the value of the associated blank. Only detected data less than 10x the blank for metals or 5x the blank for other analyses are qualified. Such data are fully usable as non-detected values at the reported concentration or elevated reporting limit.

The alkalinity method blank has low detections in both SDGS. In SDG L86455, the METHOD BLANK sample (a field blank) has a detection very similar to the associated method blank levels and is qualified as UMB9.1, indicating that it should be regarded as a non-detect. In all other samples, the alkalinity results are greater than 5 times the laboratory preparation blank and no qualifiers are required.

No other analytes require qualification for preparation blank contamination.

C. The source of contamination was corrected, and the samples were reanalyzed.

Yes \_\_\_\_\_ No \_\_\_\_\_ N/A   X  

## VII. CALIBRATION BLANKS

The highest blank associated with any particular analyte is used for the qualification process and is the value entered after the DSA “B” blank-qualifier descriptor.

A. Calibration Blanks were prepared and analyzed at the required frequency after each set of 10 samples as required by the method.

Yes   X   No \_\_\_\_\_

Sequencing was required to verify association with client samples.

B. The Calibration Blank results were within the required control limits or did not require data qualification.

Yes   X   No \_\_\_\_\_ N/A \_\_\_\_\_

Analytes reported as contaminants in the Calibration Blanks are qualified with the DSA qualifier “UCB#,” where # is the value of the blank. Such data are fully usable as non-detected values at the reported concentration or elevated reporting limit. Only detected data less than  $10 \times$  blank for metals and  $5 \times$  blank for other analyse are qualified.

There are no reported detections in the CCBs except for sodium and sulfate in SDG L86455. The sodium and sulfate levels in associated samples are  $> 10 \times$  the CCB levels and no qualifiers are required. In the METHOD BLANK field blank, a low level of sodium is detected but the CCBs related to that sample show no detections. No qualifiers are required.

C. Field, decon rinse or other Field Blanks are contained and identified in the package.

Yes   X   No \_\_\_\_\_ N/A \_\_\_\_\_

The METHOD BLANK field sample is a field blank. The results for the field blank are used to evaluate associated samples (those taken on the same day) after qualification of the field blank for associated method blank contamination.

D. The reported results for the Field Blanks are less than the CRDL or less than the MDL, whichever is lower.

Yes \_\_\_\_\_ No   X   N/A \_\_\_\_\_

In this case, several samples in SDG L86455 are qualified due to the field blank, as shown in the table below. All the samples had low-level detections of zinc which were very similar to the levels in the field blank. The results for zinc are qualified as UFB0.091 indicating that zinc should be regarded as non-detections in these samples. Although zinc detections in SDG L86481 are not qualified since the samples are collected on a different day, Those levels are very similar, and it is possible that dissolved zinc is a false positive in these samples as well. Zinc is a common contaminant of containers and sampling equipment. It may be that distilled water rather than deionized water is being used.

| CLIENTID  | LABID | ANALYTE                                   | RESULT | QUAL | UNITS | MDL  | PQL  | DSA      | EPA |
|-----------|-------|-------------------------------------------|--------|------|-------|------|------|----------|-----|
| L86455-01 | MW-14 | Zinc, dissolved                           | 0.093  |      | mg/L  | 0.02 | 0.05 | UFB0.091 | UB  |
| L86455-02 | MW-13 | Magnesium, dissolved                      | 1.93   |      | mg/L  | 0.2  | 1    | UFB0.45  | UB  |
| L86455-02 | MW-13 | Zinc, dissolved                           | 0.067  |      | mg/L  | 0.02 | 0.05 | UFB0.091 | UB  |
| L86455-02 | MW-13 | Hardness as CaCO <sub>3</sub> (dissolved) | 26.0   |      | mg/L  | 0.2  | 5    | UFB2.7   | UB  |
| L86455-03 | MW-6  | Zinc, dissolved                           | 0.095  |      | mg/L  | 0.02 | 0.05 | UFB0.091 | UB  |
| L86455-04 | MW-7  | Zinc, dissolved                           | 0.080  |      | mg/L  | 0.02 | 0.05 | UFB0.091 | UB  |
| L86455-05 | MW-8  | Zinc, dissolved                           | 0.090  |      | mg/L  | 0.02 | 0.05 | UFB0.091 | UB  |
| L86455-06 | MW-2B | Zinc, dissolved                           | 0.085  |      | mg/L  | 0.02 | 0.05 | UFB0.091 | UB  |

### VIII. INTERNAL STANDARD RESPONSES (\*)

A. A minimum of three internal standards were present in all standards and blanks at identical levels.

Yes   X   No       

B. The absolute response of each internal standard (IS) was within the required EPA control limits of 60 – 125%.

Yes   X   No       

For the analytes reported.

C. Dilutions were performed as required by the method to minimize errors if the internal standard analyte is naturally present in a sample.

Yes        No        N/A   X  

D. If not, the appropriate test procedures were performed, and the required corrections made.

Yes        No        N/A   X  

### IX. MATRIX SPIKES

A. Matrix Spike and Matrix Spike Duplicate (MS/MSD) samples were prepared and analyzed at one per every 20 or fewer samples for each matrix and each sampling event per day as required.

Yes   X   No       

Matrix spikes, duplicates, and matrix spike duplicates were present. For wet chemistry, a matrix spike and a matrix duplicate are analyzed. The project manager will determine if the project frequency is met for these methods. Matrix spikes associated with this set of data are shown in the table below. It is recommended that the client collect Representative samples for each method and designate them to the laboratory to be used for the MS/MSDs. As these samples are collected quarterly, only 1 QC sample per method would be required per year.

| Spiked Sample – L86455 | Methods                          |
|------------------------|----------------------------------|
| MW-13                  | M245.1 CVAA, SM4500F-C -Fluoride |
| MW-02B                 | M245.1 CVAA                      |

|                        |                                 |
|------------------------|---------------------------------|
| MW-7                   | D516-02/-07/-11 - TURBIDIMETRIC |
| Spiked Sample – L86481 |                                 |
| MW-11                  | M200.7 ICP - copper             |

B. The MS/MSD percent recoveries were within the required control limits of 75 – 125%.

Yes \_\_\_\_\_ No   X   N/A \_\_\_\_\_

When matrix spikes are present, associated data are qualified with the DSA qualifier JMS#, where # is the value of the %R for the associated MS or MSD. Data may be biased high or low proportional to the spike recovery. The laboratory ‘flags’ data as M1 whether they are > 4x spike or within the qualifying limits. The laboratory flags are not recommended for use in evaluating the data as MS/MSD recoveries are not used for qualification of data if the result in the parent sample is > 4x the spike. Non-detected data are not qualified for high spikes. Only those MS/MSDs with parent samples in these projects are considered.

For some methods, such as Method 300.0 and Method 353.2, the laboratory uses a recovery window of 90-110%. Results are only qualified if the recoveries are outside the window specified above.

In SDG L86455, the recovery of mercury in the spike of MW-13 was 50% in the MS and 48% in the MSD. All other MS/MSD recoveries for ICP and ICP-MS metals in this SDG are acceptable. The results for the parent sample are qualified as JMS48 to indicate a possible low bias for mercury in the sample.

| CLIENTID | LABID     | ANALYTE            | RESULT | Lab Flag | UNITS | MDL    | PQL   | DSA   | EPA |
|----------|-----------|--------------------|--------|----------|-------|--------|-------|-------|-----|
| MW-13    | L86455-02 | Mercury, dissolved |        | U        | mg/L  | 0.0002 | 0.001 | JMS48 | J-  |

C. A Post Digestion Spike was prepared and analyzed if required.

Yes \_\_\_\_\_ No \_\_\_\_\_ N/A   X  

Not required in this case.

D. The MS/MSD samples were client samples.

Yes   X   No \_\_\_\_\_

MS/MSD analyses were also performed on client samples from other SDGs but are not pertinent for qualification.

## X. MATRIX DUPLICATE

A. Matrix Duplicate samples were prepared and analyzed per every 20 samples for each matrix.

Yes   X   No \_\_\_\_\_

Lab duplicates are present for Nitrate, nitrite, chloride, alkalinity, TDS, and sulfate. Some of these are associated with other SDGs and are not evaluated here. Matrix duplicates and MS/MSD RPDS are in control.

| Parent Sample SDG L86455 | Methods                              |
|--------------------------|--------------------------------------|
| MW-14                    | M353.2 - Automated Cadmium Reduction |
| Parent Sample SDG L86481 |                                      |
| MW-10                    | SM2320B – alkalinity, TDS            |

B. The MS/MSD or MD relative percent difference (RPD) values were within the required control limit of  $\leq 20$  RPD for water samples or  $\leq 35\%$  RPD for soil samples. If either of the MD results is less than  $5 \times$  RL, the RPD is not used. In that case the difference between the results is evaluated and the QC limit is the difference between the original and the duplicate results ( $\pm 1 \times$  RL for water samples or  $\pm 2 \times$  RL for soil samples). If the parent sample result is greater than  $4 \times$  the spike concentration, the MS/MSD is not evaluated. Only detected results are qualified for MS/MSD RPD outliers. Only those MS/MSDs with parent samples in these projects are considered.

Yes   X   No           

Data are qualified with the DSA qualifier JD#, where # is the value of the RPD for the associated MD or MS/MSD analyses, when there are outliers. In this case there are no qualifiers.

## **XI. LABORATORY CONTROL SAMPLE**

A. Laboratory Control Samples (LCS) were prepared and analyzed per every 20 samples for each matrix.

Yes   X   No           

B. The LCS recoveries were within the required control limits of 80 – 120% for metals and for wet chemistry analyses 85 – 115% .

Yes   X   No           

All LCS analyses were within criteria.

## **XII. FIELD QC**

A. Field QC samples were identified.

Yes   X   No           

Sample MW-2B is a blind duplicate of sample MW-7.

B. Field duplicates were within the guidance limit of  $< 30\%$  RPD for water samples or  $< 50\%$  RPD for soil samples. If values are less than  $5 \times$  RL, the water limit is  $\pm 1 \times$  RL or the soil limit is  $\pm 2 \times$  RL.

Yes   X   No            N/A           

## **XIII. SERIAL DILUTION**

A. Serial Dilutions were analyzed for every 20 samples if the analyte concentrations were greater than  $50 \times$  IDL.

Yes   X   No            N/A           

Analyte concentrations are too low to require serial dilutions.

B. The percent difference (% D) criteria of  $\pm 10\%$  were met.

Yes            No            N/A   X  

When outliers are present, data are qualified with the DSA qualifier JE#, where # is the %D. Data could be biased, usually high, due to non-linear matrix or chemical effects.

## **XIV. CALCULATIONS**

A. Data calculations were checked when required, and significant figures were correctly reported.

Yes   X   No           

Over 25% of the data were checked from the raw data to the EDD values for each method and each SDG.

B. Appropriate dilution factors were applied to the calculated sample concentrations.

Yes   X   No       

C. Data were acceptable for the total versus dissolved and the cation/ anion balance.

Yes   X   No   NA  

Total metals were not requested, so the total vs dissolved check cannot be performed. The cation-anion balance and calculated TDS are performed and are in control. These parameters are not evaluated for the METHOD BLANK field blank, since the levels of cations, anions, and TDS are too low to give meaningful comparisons.

## **XV. OVERALL ASSESSMENT OF THE CASE**

The laboratory has complied with the requested methods and the data is considered fully useable for project purposes with consideration of the following qualifications or comments.

Data were submitted for EPA 200.7 (16 metals by ICP, dissolved), EPA 200.8 (4 metals by ICPMS, dissolved), EPA 245.1 (mercury, dissolved), SM4500F-C (Fluoride), M353.2 (nitrate + nitrite as nitrogen, nitrite as nitrogen, nitrate as nitrogen); SM2540C (total dissolved solids); D516-02/-07/-11 -Sulfate by turbidimetry; SM4500Cl-E (Chloride). Note that for these SDGs, pH was not requested.

The data were validated at EPA Level III (EPA Stage 2B) with a minimum of 10% validated as EPA raw data review).

The laboratory has reported detections to the MDL and has flagged results between the MDL and the PQL with a “B”. This is noted because many laboratories use “J” instead of “B” for this purpose, so the meaning of this flag needs to be kept in mind when reviewing the data. The definition of lab flags are provided in the laboratory report in the Inorganic Reference section.

### Chain of Custody and Sample Preservation

All sample analyses were sent under a COC to ACZ Labs, Steamboat Springs, CO. Temperatures on receipt were all in control.

Clarification: Per the GCC project manager, “the sample called “METHOD BLANK” on the COC associated with SDG L86455 is essentially a field blank with DI water and a spare well pump. It is a requirement begun in 4<sup>th</sup> quarter 2023 to have one of these per quarterly sample event. The validator recommends that this field blank be called something else to avoid confusion with laboratory method blanks.

### Holding Times

The method holding times were met for all analyses, with the following clarifications and exceptions. Results reported by the lab are qualified as JH#, where # is the number of days since sampling. An outlier that is greater than 4x the hold time is rejected. Qualified results not rejected. should be considered as estimates due to time and temperature changes in the samples.

One sample in L86455 had to be diluted after the initial analysis for TDS. The reanalysis was out of the 7-day holding time. The TDS result for this sample is qualified as JH#, where # is the number of days outside of holding time. These results could possibly be biased due to chemical changes between analyses. Any bias should be minor in this case. In addition, this sample is the field duplicate for MW-7 and its TDS result is nearly identical to that of the parent sample.

Qualifiers added are shown in the body of this report and in the qualified EDD.

### Method Blanks

The ICB is used as the method blank for metals. This is acceptable since no digestion was performed on the samples prior to analysis.

Analytes reported as contaminants in the Preparation Blank are qualified with the DSA qualifier “UMB#,” where # is the value of the associated blank. Only detected data less than 10x the blank for metals or 5x the blank for other analyses are qualified. Such data are fully usable as non-detected values at the reported concentration or elevated reporting limit.

The alkalinity method blank has low detections in both SDGS. In SDG L86455, the METHOD BLANK sample (a field blank) has a detection very similar to the associated method blank levels and is qualified as UMB9.1, indicating that it should be regarded as a non-detect. In all other samples, the alkalinity results are greater than 5x the laboratory preparation blank and no qualifiers are required.

No other analytes require qualification for preparation blank contamination.

### Initial and Continuing Calibration Blanks

Analytes reported as contaminants in the Calibration Blanks are qualified with the DSA qualifier “UCB#,” where # is the value of the blank. Such data are fully usable as non-detected values at the reported concentration or elevated reporting limit. Only detected data less than  $10 \times$  blank for metals and  $5 \times$  blank for other analyses are qualified.

There are no reported detections in the CCBs except for sodium and sulfate in SDG L86455. The sodium and sulfate levels in associated samples are  $> 10 \times$  the CCB levels and no qualifiers are required. In the METHOD BLANK field blank, a low level of sodium is detected but the CCBs related to that sample show no detections. No qualifiers are required.

### Field Blanks

The METHOD BLANK field sample is a field blank. The results for the field blank are used to evaluate associated samples (those taken on the same day) after qualification of the field blank for associated method blank contamination.

In this case, several samples in SDG L86455 are qualified due to the field blank, as shown in the table below. All the samples had low-level detections of zinc which were very similar to the levels in the field blank. The results for zinc are qualified as UFB0.091 indicating that zinc should be regarded as non-detections in these samples. Although zinc detections in SDG L86481 are not qualified since the samples are collected on a different day, Those levels are very similar, and it is possible that dissolved zinc is a false positive in these samples as well. Zinc is a common contaminant of containers and sampling equipment. It may be that distilled water rather than deionized water is being used.

### Matrix Spikes, Matrix Spike Duplicates, and Matrix Duplicates

When matrix spikes are present, associated data are qualified with the DSA qualifier JMS#, where # is the value of the %R for the associated MS or MSD. Data may be biased high or low proportional to the spike recovery. The laboratory ‘flags’ data as M1 whether they are  $> 4 \times$  spike or within the qualifying limits. The laboratory flags are not recommended for use in evaluating the data as MS/MSD recoveries are not used for qualification of data if the result in the parent sample is  $> 4 \times$  the spike. Non-detected data are not qualified for high spikes. Only those MS/MSDs with parent samples in these projects are considered.

For some methods, such as Method 300.0 and Method 353.2, the laboratory uses a recovery window of 90-110%. Results are only qualified if the recoveries are outside the window specified above.

In SDG L86455, the recovery of mercury in the spike of MW-13 was 50% in the MS and 48% in the MSD. All other MS/MSD recoveries for ICP and ICP-MS metals in this SDG are acceptable. The results for the parent sample are qualified as JMS48 to indicate a possible low bias for mercury in the sample.

| CLIENTID | LABID     | ANALYTE            | RESULT | Lab Flag | UNITS | MDL    | PQL   | DSA   | EPA |
|----------|-----------|--------------------|--------|----------|-------|--------|-------|-------|-----|
| MW-13    | L86455-02 | Mercury, dissolved |        | U        | mg/L  | 0.0002 | 0.001 | JMS48 | J-  |

#### Field QC

Sample MW-2B is a blind duplicate of sample MW-7. It is in control.

#### Cation-Anion Balance and Calculated TDS

Total metals were not requested, so the total vs dissolved check cannot be performed. The cation-anion balance and calculated TDS are performed and are in control. These parameters are not evaluated for the METHOD BLANK field blank, since the levels of cations, anions, and TDS are too low to give meaningful comparisons.

TABLE OF QUALIFIED DATA

| CLIENTID     | LABID     | ANALYTE                                   | RESULT | Lab Flag | UNITS | MDL    | PQL   | DSA      | EPA |
|--------------|-----------|-------------------------------------------|--------|----------|-------|--------|-------|----------|-----|
| METHOD BLANK | L86455-07 | Bicarbonate as CaCO <sub>3</sub>          | 7.0    | B        | mg/L  | 2      | 20    | UMB9.1   | UB  |
| MW-13        | L86455-02 | Hardness as CaCO <sub>3</sub> (dissolved) | 26.0   |          | mg/L  | 0.2    | 5     | UFB2.7   | UB  |
| MW-13        | L86455-02 | Magnesium, dissolved                      | 1.93   |          | mg/L  | 0.2    | 1     | UFB0.45  | UB  |
| MW-13        | L86455-02 | Mercury, dissolved                        |        | U        | mg/L  | 0.0002 | 0.001 | JMS48    | J-  |
| MW-2B        | L86455-06 | Residue, Filterable (TDS) @180C           | 4720   | H        | mg/L  | 200    | 400   | JH1      | J-  |
| METHOD BLANK | L86455-07 | Total Alkalinity                          | 7.0    | B        | mg/L  | 2      | 20    | UMB9.1   | UB  |
| MW-14        | L86455-01 | Zinc, dissolved                           | 0.093  |          | mg/L  | 0.02   | 0.05  | UFB0.091 | UB  |
| MW-13        | L86455-02 | Zinc, dissolved                           | 0.067  |          | mg/L  | 0.02   | 0.05  | UFB0.091 | UB  |
| MW-6         | L86455-03 | Zinc, dissolved                           | 0.095  |          | mg/L  | 0.02   | 0.05  | UFB0.091 | UB  |
| MW-7         | L86455-04 | Zinc, dissolved                           | 0.080  |          | mg/L  | 0.02   | 0.05  | UFB0.091 | UB  |
| MW-8         | L86455-05 | Zinc, dissolved                           | 0.090  |          | mg/L  | 0.02   | 0.05  | UFB0.091 | UB  |
| MW-2B        | L86455-06 | Zinc, dissolved                           | 0.085  |          | mg/L  | 0.02   | 0.05  | UFB0.091 | UB  |

March 25, 2024

Report to:  
Amy Rodrigues  
GCC Rio Grande  
3372 Lime Road  
Pueblo, CO 81004

Bill to:  
Amy Rodrigues  
GCC Rio Grande  
3372 Lime Road  
Pueblo, CO 81004

cc: Landon Beck

Project ID:  
ACZ Project ID: L86455

Amy Rodrigues:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 12, 2024. This project has been assigned to ACZ's project number, L86455. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L86455. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after March 25, 2025. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Sue Webber has reviewed and  
approved this report.



GCC Rio Grande

March 25, 2024

Project ID:

ACZ Project ID: L86455

**Sample Receipt**

ACZ Laboratories, Inc. (ACZ) received 7 groundwater samples from GCC Rio Grande on March 12, 2024. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L86455. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

**Holding Times**

All analyses were performed within EPA recommended holding times except for the following:

1. The below is from WG585907, Qualifier: H1, Applies to: L86455-06/TOTAL DISSOLVED SOLIDS - Sample originally run within hold but was pulled out of the workgroup automatically to be run on a dilution. Sample was not able to be rerun until one day past hold.

**Sample Analysis**

These samples were analyzed for inorganic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports.

**GCC Rio Grande**

Project ID:

Sample ID: MW-14

ACZ Sample ID: **L86455-01**

Date Sampled: 03/11/24 10:47

Date Received: 03/12/24

Sample Matrix: Groundwater

## Metals Analysis

| Parameter            | EPA Method    | Dilution | Result   | Qual | XQ | Units | MDL     | PQL     | Date           | Analyst |
|----------------------|---------------|----------|----------|------|----|-------|---------|---------|----------------|---------|
| Aluminum, dissolved  | M200.7 ICP    | 1        | <0.05    | U    |    | mg/L  | 0.05    | 0.25    | 03/14/24 22:21 | wtc     |
| Arsenic, dissolved   | M200.8 ICP-MS | 5        | 0.00362  | B    |    | mg/L  | 0.001   | 0.005   | 03/19/24 21:20 | aps     |
| Beryllium, dissolved | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/14/24 22:21 | wtc     |
| Boron, dissolved     | M200.7 ICP    | 1        | 1.29     |      |    | mg/L  | 0.03    | 0.1     | 03/14/24 22:21 | wtc     |
| Cadmium, dissolved   | M200.8 ICP-MS | 5        | <0.00025 | U    |    | mg/L  | 0.00025 | 0.00125 | 03/19/24 21:20 | aps     |
| Calcium, dissolved   | M200.7 ICP    | 1        | 17.9     |      |    | mg/L  | 0.1     | 0.5     | 03/14/24 22:21 | wtc     |
| Chromium, dissolved  | M200.7 ICP    | 1        | <0.02    | U    |    | mg/L  | 0.02    | 0.05    | 03/14/24 22:21 | wtc     |
| Cobalt, dissolved    | M200.8 ICP-MS | 5        | <0.00025 | U    |    | mg/L  | 0.00025 | 0.00125 | 03/19/24 21:20 | aps     |
| Copper, dissolved    | M200.7 ICP    | 5        | <0.05    | U    |    | mg/L  | 0.05    | 0.25    | 03/18/24 18:08 | brc     |
| Iron, dissolved      | M200.7 ICP    | 1        | 0.980    |      |    | mg/L  | 0.06    | 0.15    | 03/14/24 22:21 | wtc     |
| Lead, dissolved      | M200.8 ICP-MS | 5        | <0.0005  | U    |    | mg/L  | 0.0005  | 0.0025  | 03/19/24 21:20 | aps     |
| Lithium, dissolved   | M200.7 ICP    | 1        | 0.415    |      |    | mg/L  | 0.008   | 0.04    | 03/14/24 22:21 | wtc     |
| Magnesium, dissolved | M200.7 ICP    | 1        | 5.91     |      |    | mg/L  | 0.2     | 1       | 03/14/24 22:21 | wtc     |
| Manganese, dissolved | M200.7 ICP    | 1        | 0.034    | B    |    | mg/L  | 0.01    | 0.05    | 03/14/24 22:21 | wtc     |
| Mercury, dissolved   | M245.1 CVAA   | 1        | <0.0002  | U    | *  | mg/L  | 0.0002  | 0.001   | 03/14/24 16:28 | wtc     |
| Nickel, dissolved    | M200.7 ICP    | 1        | <0.008   | U    |    | mg/L  | 0.008   | 0.04    | 03/14/24 22:21 | wtc     |
| Potassium, dissolved | M200.7 ICP    | 1        | 5.44     |      |    | mg/L  | 0.5     | 1       | 03/14/24 22:21 | wtc     |
| Selenium, dissolved  | M200.8 ICP-MS | 5        | <0.0005  | U    | *  | mg/L  | 0.0005  | 0.00125 | 03/19/24 21:20 | aps     |
| Sodium, dissolved    | M200.7 ICP    | 5        | 1850     |      |    | mg/L  | 1       | 5       | 03/18/24 18:08 | brc     |
| Vanadium, dissolved  | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.025   | 03/14/24 22:21 | wtc     |
| Zinc, dissolved      | M200.7 ICP    | 1        | 0.093    |      |    | mg/L  | 0.02    | 0.05    | 03/14/24 22:21 | wtc     |

**GCC Rio Grande**

Project ID:

Sample ID: MW-14

ACZ Sample ID: **L86455-01**

Date Sampled: 03/11/24 10:47

Date Received: 03/12/24

Sample Matrix: Groundwater

## Wet Chemistry

| Parameter                                 | EPA Method                                                         | Dilution | Result | Qual | XQ | Units | MDL  | PQL  | Date           | Analyst |
|-------------------------------------------|--------------------------------------------------------------------|----------|--------|------|----|-------|------|------|----------------|---------|
| Alkalinity as CaCO <sub>3</sub>           | SM2320B - Titration                                                |          |        |      |    |       |      |      |                |         |
| Bicarbonate as CaCO <sub>3</sub>          |                                                                    | 1        | 1420   |      |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Carbonate as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Hydroxide as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Total Alkalinity                          |                                                                    | 1        | 1420   |      | *  | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Cation-Anion Balance                      | Calculation                                                        |          |        |      |    |       |      |      |                |         |
| Cation-Anion Balance                      |                                                                    |          | -1.2   |      |    | %     |      |      | 03/25/24 0:00  | calc    |
| Sum of Anions                             |                                                                    |          | 85     |      |    | meq/L |      |      | 03/25/24 0:00  | calc    |
| Sum of Cations                            |                                                                    |          | 83.0   |      |    | meq/L |      |      | 03/25/24 0:00  | calc    |
| Chloride                                  | SM4500Cl-E                                                         | 50       | 1700   |      | *  | mg/L  | 50   | 100  | 03/15/24 10:43 | jqr     |
| Fluoride                                  | SM4500F-C                                                          | 1        | 2.98   |      |    | mg/L  | 0.15 | 0.35 | 03/22/24 16:28 | jck     |
| Hardness as CaCO <sub>3</sub> (dissolved) | SM2340B - Calculation                                              |          | 69.0   |      |    | mg/L  | 0.2  | 5    | 03/25/24 0:00  | calc    |
| Nitrate as N                              | Calculation: NO <sub>3</sub> NO <sub>2</sub> minus NO <sub>2</sub> |          | <0.02  | U    |    | mg/L  | 0.02 | 0.1  | 03/25/24 0:00  | calc    |
| Nitrate/Nitrite as N                      | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.02  | U    | *  | mg/L  | 0.02 | 0.1  | 03/13/24 0:33  | pjb     |
| Nitrite as N                              | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.01  | U    | *  | mg/L  | 0.01 | 0.05 | 03/13/24 0:04  | pjb     |
| Residue, Filterable (TDS) @180C           | SM2540C                                                            | 2        | 4920   |      |    | mg/L  | 40   | 80   | 03/15/24 13:20 | emk     |
| Sulfate                                   | ASTM D516-07/-11/-16                                               | 25       | 429    |      | *  | mg/L  | 25   | 125  | 03/15/24 11:51 | jqr     |
| TDS (calculated)                          | Calculation                                                        |          | 4880   |      |    | mg/L  |      |      | 03/25/24 0:00  | calc    |
| TDS (ratio - measured/calculated)         | Calculation                                                        |          | 1.01   |      |    |       |      |      | 03/25/24 0:00  | calc    |

**GCC Rio Grande**

Project ID:

Sample ID: MW-13

ACZ Sample ID: **L86455-02**

Date Sampled: 03/11/24 11:37

Date Received: 03/12/24

Sample Matrix: Groundwater

## Metals Analysis

| Parameter            | EPA Method    | Dilution | Result   | Qual | XQ | Units | MDL     | PQL     | Date           | Analyst |
|----------------------|---------------|----------|----------|------|----|-------|---------|---------|----------------|---------|
| Aluminum, dissolved  | M200.7 ICP    | 1        | <0.05    | U    |    | mg/L  | 0.05    | 0.25    | 03/13/24 21:44 | brc     |
| Arsenic, dissolved   | M200.8 ICP-MS | 5        | <0.001   | U    |    | mg/L  | 0.001   | 0.005   | 03/19/24 21:22 | aps     |
| Beryllium, dissolved | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/13/24 21:44 | brc     |
| Boron, dissolved     | M200.7 ICP    | 1        | 1.07     |      |    | mg/L  | 0.03    | 0.1     | 03/13/24 21:44 | brc     |
| Cadmium, dissolved   | M200.8 ICP-MS | 5        | <0.00025 | U    |    | mg/L  | 0.00025 | 0.00125 | 03/19/24 21:22 | aps     |
| Calcium, dissolved   | M200.7 ICP    | 1        | 7.24     |      |    | mg/L  | 0.1     | 0.5     | 03/13/24 21:44 | brc     |
| Chromium, dissolved  | M200.7 ICP    | 1        | <0.02    | U    |    | mg/L  | 0.02    | 0.05    | 03/13/24 21:44 | brc     |
| Cobalt, dissolved    | M200.8 ICP-MS | 5        | <0.00025 | U    |    | mg/L  | 0.00025 | 0.00125 | 03/19/24 21:22 | aps     |
| Copper, dissolved    | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/15/24 0:36  | wtc     |
| Iron, dissolved      | M200.7 ICP    | 1        | <0.06    | U    |    | mg/L  | 0.06    | 0.15    | 03/13/24 21:44 | brc     |
| Lead, dissolved      | M200.8 ICP-MS | 5        | <0.0005  | U    |    | mg/L  | 0.0005  | 0.0025  | 03/19/24 21:22 | aps     |
| Lithium, dissolved   | M200.7 ICP    | 1        | 0.222    |      |    | mg/L  | 0.008   | 0.04    | 03/13/24 21:44 | brc     |
| Magnesium, dissolved | M200.7 ICP    | 1        | 1.93     |      |    | mg/L  | 0.2     | 1       | 03/13/24 21:44 | brc     |
| Manganese, dissolved | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/13/24 21:44 | brc     |
| Mercury, dissolved   | M245.1 CVAA   | 1        | <0.0002  | U    | *  | mg/L  | 0.0002  | 0.001   | 03/14/24 16:29 | wtc     |
| Nickel, dissolved    | M200.7 ICP    | 1        | <0.008   | U    |    | mg/L  | 0.008   | 0.04    | 03/15/24 0:36  | wtc     |
| Potassium, dissolved | M200.7 ICP    | 1        | 2.91     |      |    | mg/L  | 0.5     | 1       | 03/13/24 21:44 | brc     |
| Selenium, dissolved  | M200.8 ICP-MS | 5        | <0.0005  | U    | *  | mg/L  | 0.0005  | 0.00125 | 03/19/24 21:22 | aps     |
| Sodium, dissolved    | M200.7 ICP    | 1        | 976      |      |    | mg/L  | 0.2     | 1       | 03/13/24 21:44 | brc     |
| Vanadium, dissolved  | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.025   | 03/13/24 21:44 | brc     |
| Zinc, dissolved      | M200.7 ICP    | 1        | 0.067    |      |    | mg/L  | 0.02    | 0.05    | 03/13/24 21:44 | brc     |

**GCC Rio Grande**

Project ID:

Sample ID: MW-13

ACZ Sample ID: **L86455-02**

Date Sampled: 03/11/24 11:37

Date Received: 03/12/24

Sample Matrix: Groundwater

## Wet Chemistry

| Parameter                                 | EPA Method                                                         | Dilution | Result | Qual | XQ | Units | MDL  | PQL  | Date           | Analyst |
|-------------------------------------------|--------------------------------------------------------------------|----------|--------|------|----|-------|------|------|----------------|---------|
| Alkalinity as CaCO <sub>3</sub>           | SM2320B - Titration                                                |          |        |      |    |       |      |      |                |         |
| Bicarbonate as CaCO <sub>3</sub>          |                                                                    | 1        | 1230   |      |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Carbonate as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Hydroxide as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Total Alkalinity                          |                                                                    | 1        | 1230   |      | *  | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Cation-Anion Balance                      | Calculation                                                        |          |        |      |    |       |      |      |                |         |
| Cation-Anion Balance                      |                                                                    |          | -2.2   |      |    | %     |      |      | 03/25/24 0:00  | calc    |
| Sum of Anions                             |                                                                    |          | 46     |      |    | meq/L |      |      | 03/25/24 0:00  | calc    |
| Sum of Cations                            |                                                                    |          | 44     |      |    | meq/L |      |      | 03/25/24 0:00  | calc    |
| Chloride                                  | SM4500Cl-E                                                         | 20       | 656    |      | *  | mg/L  | 20   | 40   | 03/15/24 10:37 | jqr     |
| Fluoride                                  | SM4500F-C                                                          | 1        | 6.34   |      |    | mg/L  | 0.15 | 0.35 | 03/22/24 16:35 | jck     |
| Hardness as CaCO <sub>3</sub> (dissolved) | SM2340B - Calculation                                              |          | 26.0   |      |    | mg/L  | 0.2  | 5    | 03/25/24 0:00  | calc    |
| Nitrate as N                              | Calculation: NO <sub>3</sub> NO <sub>2</sub> minus NO <sub>2</sub> |          | <0.02  | U    |    | mg/L  | 0.02 | 0.1  | 03/25/24 0:00  | calc    |
| Nitrate/Nitrite as N                      | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.02  | U    | *  | mg/L  | 0.02 | 0.1  | 03/13/24 0:07  | pjb     |
| Nitrite as N                              | EPA 353.2 - Automated Cadmium Reduction                            | 1        | 0.012  | B    | *  | mg/L  | 0.01 | 0.05 | 03/13/24 0:07  | pjb     |
| Residue, Filterable (TDS) @180C           | SM2540C                                                            | 2        | 2700   |      |    | mg/L  | 40   | 80   | 03/15/24 13:22 | emk     |
| Sulfate                                   | ASTM D516-07/-11/-16                                               | 25       | 138    |      | *  | mg/L  | 25   | 125  | 03/15/24 11:51 | jqr     |
| TDS (calculated)                          | Calculation                                                        |          | 2540   |      |    | mg/L  |      |      | 03/25/24 0:00  | calc    |
| TDS (ratio - measured/calculated)         | Calculation                                                        |          | 1.06   |      |    |       |      |      | 03/25/24 0:00  | calc    |

**GCC Rio Grande**

Project ID:

Sample ID: MW-6

ACZ Sample ID: **L86455-03**

Date Sampled: 03/11/24 13:12

Date Received: 03/12/24

Sample Matrix: Groundwater

## Metals Analysis

| Parameter            | EPA Method    | Dilution | Result   | Qual | XQ | Units | MDL     | PQL     | Date           | Analyst |
|----------------------|---------------|----------|----------|------|----|-------|---------|---------|----------------|---------|
| Aluminum, dissolved  | M200.7 ICP    | 1        | <0.05    | U    |    | mg/L  | 0.05    | 0.25    | 03/13/24 21:47 | brc     |
| Arsenic, dissolved   | M200.8 ICP-MS | 5        | 0.00120  | B    |    | mg/L  | 0.001   | 0.005   | 03/19/24 21:24 | aps     |
| Beryllium, dissolved | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/13/24 21:47 | brc     |
| Boron, dissolved     | M200.7 ICP    | 1        | 0.256    |      |    | mg/L  | 0.03    | 0.1     | 03/13/24 21:47 | brc     |
| Cadmium, dissolved   | M200.8 ICP-MS | 5        | <0.00025 | U    |    | mg/L  | 0.00025 | 0.00125 | 03/19/24 21:24 | aps     |
| Calcium, dissolved   | M200.7 ICP    | 1        | 386      |      |    | mg/L  | 0.1     | 0.5     | 03/13/24 21:47 | brc     |
| Chromium, dissolved  | M200.7 ICP    | 1        | <0.02    | U    |    | mg/L  | 0.02    | 0.05    | 03/13/24 21:47 | brc     |
| Cobalt, dissolved    | M200.8 ICP-MS | 5        | 0.0355   |      |    | mg/L  | 0.00025 | 0.00125 | 03/19/24 21:24 | aps     |
| Copper, dissolved    | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/15/24 0:39  | wtc     |
| Iron, dissolved      | M200.7 ICP    | 1        | 1.35     |      |    | mg/L  | 0.06    | 0.15    | 03/13/24 21:47 | brc     |
| Lead, dissolved      | M200.8 ICP-MS | 5        | <0.0005  | U    |    | mg/L  | 0.0005  | 0.0025  | 03/19/24 21:24 | aps     |
| Lithium, dissolved   | M200.7 ICP    | 1        | 0.400    |      |    | mg/L  | 0.008   | 0.04    | 03/13/24 21:47 | brc     |
| Magnesium, dissolved | M200.7 ICP    | 1        | 398      |      |    | mg/L  | 0.2     | 1       | 03/13/24 21:47 | brc     |
| Manganese, dissolved | M200.7 ICP    | 1        | 0.415    |      |    | mg/L  | 0.01    | 0.05    | 03/13/24 21:47 | brc     |
| Mercury, dissolved   | M245.1 CVAA   | 1        | <0.0002  | U    |    | mg/L  | 0.0002  | 0.001   | 03/15/24 10:49 | wtc     |
| Nickel, dissolved    | M200.7 ICP    | 1        | 0.0683   |      |    | mg/L  | 0.008   | 0.04    | 03/15/24 0:39  | wtc     |
| Potassium, dissolved | M200.7 ICP    | 1        | 9.90     |      |    | mg/L  | 0.5     | 1       | 03/13/24 21:47 | brc     |
| Selenium, dissolved  | M200.8 ICP-MS | 5        | <0.0005  | U    |    | mg/L  | 0.0005  | 0.00125 | 03/19/24 21:24 | aps     |
| Sodium, dissolved    | M200.7 ICP    | 1        | 543      |      |    | mg/L  | 0.2     | 1       | 03/13/24 21:47 | brc     |
| Vanadium, dissolved  | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.025   | 03/13/24 21:47 | brc     |
| Zinc, dissolved      | M200.7 ICP    | 1        | 0.095    |      |    | mg/L  | 0.02    | 0.05    | 03/13/24 21:47 | brc     |

**GCC Rio Grande**

Project ID:

Sample ID: MW-6

ACZ Sample ID: **L86455-03**

Date Sampled: 03/11/24 13:12

Date Received: 03/12/24

Sample Matrix: Groundwater

Wet Chemistry

| Parameter                                 | EPA Method                                                         | Dilution | Result | Qual | XQ | Units | MDL  | PQL  | Date           | Analyst |
|-------------------------------------------|--------------------------------------------------------------------|----------|--------|------|----|-------|------|------|----------------|---------|
| Alkalinity as CaCO <sub>3</sub>           | SM2320B - Titration                                                |          |        |      |    |       |      |      |                |         |
| Bicarbonate as CaCO <sub>3</sub>          |                                                                    | 1        | 480    |      |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Carbonate as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Hydroxide as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Total Alkalinity                          |                                                                    | 1        | 480    |      | *  | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Cation-Anion Balance                      | Calculation                                                        |          |        |      |    |       |      |      |                |         |
| Cation-Anion Balance                      |                                                                    |          | -2.6   |      |    | %     |      |      | 03/25/24 0:00  | calc    |
| Sum of Anions                             |                                                                    |          | 80     |      |    | meq/L |      |      | 03/25/24 0:00  | calc    |
| Sum of Cations                            |                                                                    |          | 76     |      |    | meq/L |      |      | 03/25/24 0:00  | calc    |
| Chloride                                  | SM4500Cl-E                                                         | 5        | 82.9   |      | *  | mg/L  | 5    | 10   | 03/15/24 10:24 | jqr     |
| Fluoride                                  | SM4500F-C                                                          | 1        | 0.53   |      |    | mg/L  | 0.15 | 0.35 | 03/22/24 16:54 | jck     |
| Hardness as CaCO <sub>3</sub> (dissolved) | SM2340B - Calculation                                              |          | 2600   |      |    | mg/L  | 0.2  | 5    | 03/25/24 0:00  | calc    |
| Nitrate as N                              | Calculation: NO <sub>3</sub> NO <sub>2</sub> minus NO <sub>2</sub> |          | <0.02  | U    |    | mg/L  | 0.02 | 0.1  | 03/25/24 0:00  | calc    |
| Nitrate/Nitrite as N                      | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.02  | U    | *  | mg/L  | 0.02 | 0.1  | 03/13/24 0:08  | pjb     |
| Nitrite as N                              | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.01  | U    | *  | mg/L  | 0.01 | 0.05 | 03/13/24 0:08  | pjb     |
| Residue, Filterable (TDS) @180C           | SM2540C                                                            | 2        | 5310   |      |    | mg/L  | 40   | 80   | 03/15/24 13:24 | emk     |
| Sulfate                                   | ASTM D516-07/-11/-16                                               | 100      | 3230   |      | *  | mg/L  | 100  | 500  | 03/15/24 12:04 | jqr     |
| TDS (calculated)                          | Calculation                                                        |          | 4940   |      |    | mg/L  |      |      | 03/25/24 0:00  | calc    |
| TDS (ratio - measured/calculated)         | Calculation                                                        |          | 1.07   |      |    |       |      |      | 03/25/24 0:00  | calc    |

**GCC Rio Grande**

Project ID:

Sample ID: MW-7

ACZ Sample ID: **L86455-04**

Date Sampled: 03/11/24 13:39

Date Received: 03/12/24

Sample Matrix: Groundwater

## Metals Analysis

| Parameter            | EPA Method    | Dilution | Result   | Qual | XQ | Units | MDL     | PQL     | Date           | Analyst |
|----------------------|---------------|----------|----------|------|----|-------|---------|---------|----------------|---------|
| Aluminum, dissolved  | M200.7 ICP    | 1        | <0.05    | U    |    | mg/L  | 0.05    | 0.25    | 03/13/24 21:51 | brc     |
| Arsenic, dissolved   | M200.8 ICP-MS | 5        | <0.001   | U    |    | mg/L  | 0.001   | 0.005   | 03/19/24 21:26 | aps     |
| Beryllium, dissolved | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/13/24 21:51 | brc     |
| Boron, dissolved     | M200.7 ICP    | 1        | 0.152    |      |    | mg/L  | 0.03    | 0.1     | 03/13/24 21:51 | brc     |
| Cadmium, dissolved   | M200.8 ICP-MS | 5        | <0.00025 | U    |    | mg/L  | 0.00025 | 0.00125 | 03/19/24 21:26 | aps     |
| Calcium, dissolved   | M200.7 ICP    | 1        | 432      |      |    | mg/L  | 0.1     | 0.5     | 03/13/24 21:51 | brc     |
| Chromium, dissolved  | M200.7 ICP    | 1        | <0.02    | U    |    | mg/L  | 0.02    | 0.05    | 03/13/24 21:51 | brc     |
| Cobalt, dissolved    | M200.8 ICP-MS | 5        | 0.00243  |      |    | mg/L  | 0.00025 | 0.00125 | 03/19/24 21:26 | aps     |
| Copper, dissolved    | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/15/24 0:42  | wtc     |
| Iron, dissolved      | M200.7 ICP    | 1        | <0.06    | U    |    | mg/L  | 0.06    | 0.15    | 03/13/24 21:51 | brc     |
| Lead, dissolved      | M200.8 ICP-MS | 5        | <0.0005  | U    |    | mg/L  | 0.0005  | 0.0025  | 03/19/24 21:26 | aps     |
| Lithium, dissolved   | M200.7 ICP    | 1        | 0.336    |      |    | mg/L  | 0.008   | 0.04    | 03/13/24 21:51 | brc     |
| Magnesium, dissolved | M200.7 ICP    | 1        | 379      |      |    | mg/L  | 0.2     | 1       | 03/13/24 21:51 | brc     |
| Manganese, dissolved | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/13/24 21:51 | brc     |
| Mercury, dissolved   | M245.1 CVAA   | 1        | <0.0002  | U    |    | mg/L  | 0.0002  | 0.001   | 03/15/24 10:50 | wtc     |
| Nickel, dissolved    | M200.7 ICP    | 1        | 0.0140   | B    |    | mg/L  | 0.008   | 0.04    | 03/15/24 0:42  | wtc     |
| Potassium, dissolved | M200.7 ICP    | 1        | 11.9     |      |    | mg/L  | 0.5     | 1       | 03/13/24 21:51 | brc     |
| Selenium, dissolved  | M200.8 ICP-MS | 5        | 0.0287   |      |    | mg/L  | 0.0005  | 0.00125 | 03/19/24 21:26 | aps     |
| Sodium, dissolved    | M200.7 ICP    | 1        | 370      |      |    | mg/L  | 0.2     | 1       | 03/13/24 21:51 | brc     |
| Vanadium, dissolved  | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.025   | 03/13/24 21:51 | brc     |
| Zinc, dissolved      | M200.7 ICP    | 1        | 0.080    |      |    | mg/L  | 0.02    | 0.05    | 03/13/24 21:51 | brc     |

**GCC Rio Grande**

Project ID:

Sample ID: MW-7

ACZ Sample ID: **L86455-04**

Date Sampled: 03/11/24 13:39

Date Received: 03/12/24

Sample Matrix: Groundwater

## Wet Chemistry

| Parameter                                 | EPA Method                                                         | Dilution | Result | Qual | XQ | Units | MDL  | PQL  | Date           | Analyst |
|-------------------------------------------|--------------------------------------------------------------------|----------|--------|------|----|-------|------|------|----------------|---------|
| Alkalinity as CaCO <sub>3</sub>           | SM2320B - Titration                                                |          |        |      |    |       |      |      |                |         |
| Bicarbonate as CaCO <sub>3</sub>          |                                                                    | 1        | 260    |      |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Carbonate as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Hydroxide as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Total Alkalinity                          |                                                                    | 1        | 260    |      | *  | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Cation-Anion Balance                      | Calculation                                                        |          |        |      |    |       |      |      |                |         |
| Cation-Anion Balance                      |                                                                    |          | -2.1   |      |    | %     |      |      | 03/25/24 0:00  | calc    |
| Sum of Anions                             |                                                                    |          | 72     |      |    | meq/L |      |      | 03/25/24 0:00  | calc    |
| Sum of Cations                            |                                                                    |          | 69     |      |    | meq/L |      |      | 03/25/24 0:00  | calc    |
| Chloride                                  | SM4500Cl-E                                                         | 1        | 44.8   |      | *  | mg/L  | 1    | 2    | 03/15/24 10:15 | jqr     |
| Fluoride                                  | SM4500F-C                                                          | 1        | 0.51   |      |    | mg/L  | 0.15 | 0.35 | 03/22/24 17:02 | jck     |
| Hardness as CaCO <sub>3</sub> (dissolved) | SM2340B - Calculation                                              |          | 2640   |      |    | mg/L  | 0.2  | 5    | 03/25/24 0:00  | calc    |
| Nitrate as N                              | Calculation: NO <sub>3</sub> NO <sub>2</sub> minus NO <sub>2</sub> |          | 5.41   |      |    | mg/L  | 0.06 | 0.3  | 03/25/24 0:00  | calc    |
| Nitrate/Nitrite as N                      | EPA 353.2 - Automated Cadmium Reduction                            | 3        | 5.41   |      | *  | mg/L  | 0.06 | 0.3  | 03/13/24 0:36  | pjb     |
| Nitrite as N                              | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.01  | U    | *  | mg/L  | 0.01 | 0.05 | 03/13/24 0:14  | pjb     |
| Residue, Filterable (TDS) @180C           | SM2540C                                                            | 2        | 4740   |      |    | mg/L  | 40   | 80   | 03/15/24 13:26 | emk     |
| Sulfate                                   | ASTM D516-07/-11/-16                                               | 100      | 3140   |      | *  | mg/L  | 100  | 500  | 03/15/24 12:09 | jqr     |
| TDS (calculated)                          | Calculation                                                        |          | 4540   |      |    | mg/L  |      |      | 03/25/24 0:00  | calc    |
| TDS (ratio - measured/calculated)         | Calculation                                                        |          | 1.04   |      |    |       |      |      | 03/25/24 0:00  | calc    |

**GCC Rio Grande**

Project ID:

Sample ID: MW-8

ACZ Sample ID: **L86455-05**

Date Sampled: 03/11/24 14:14

Date Received: 03/12/24

Sample Matrix: Groundwater

## Metals Analysis

| Parameter            | EPA Method    | Dilution | Result   | Qual | XQ | Units | MDL     | PQL     | Date           | Analyst |
|----------------------|---------------|----------|----------|------|----|-------|---------|---------|----------------|---------|
| Aluminum, dissolved  | M200.7 ICP    | 1        | <0.05    | U    |    | mg/L  | 0.05    | 0.25    | 03/13/24 21:54 | brc     |
| Arsenic, dissolved   | M200.8 ICP-MS | 5        | <0.001   | U    | *  | mg/L  | 0.001   | 0.005   | 03/19/24 21:51 | aps     |
| Beryllium, dissolved | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/13/24 21:54 | brc     |
| Boron, dissolved     | M200.7 ICP    | 1        | 0.858    |      |    | mg/L  | 0.03    | 0.1     | 03/13/24 21:54 | brc     |
| Cadmium, dissolved   | M200.8 ICP-MS | 5        | <0.00025 | U    | *  | mg/L  | 0.00025 | 0.00125 | 03/19/24 21:51 | aps     |
| Calcium, dissolved   | M200.7 ICP    | 1        | 59.3     |      |    | mg/L  | 0.1     | 0.5     | 03/13/24 21:54 | brc     |
| Chromium, dissolved  | M200.7 ICP    | 1        | <0.02    | U    |    | mg/L  | 0.02    | 0.05    | 03/13/24 21:54 | brc     |
| Cobalt, dissolved    | M200.8 ICP-MS | 5        | 0.000288 | B    | *  | mg/L  | 0.00025 | 0.00125 | 03/19/24 21:51 | aps     |
| Copper, dissolved    | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/15/24 0:46  | wtc     |
| Iron, dissolved      | M200.7 ICP    | 1        | 0.712    |      |    | mg/L  | 0.06    | 0.15    | 03/13/24 21:54 | brc     |
| Lead, dissolved      | M200.8 ICP-MS | 5        | <0.0005  | U    | *  | mg/L  | 0.0005  | 0.0025  | 03/19/24 21:51 | aps     |
| Lithium, dissolved   | M200.7 ICP    | 1        | 0.337    |      |    | mg/L  | 0.008   | 0.04    | 03/13/24 21:54 | brc     |
| Magnesium, dissolved | M200.7 ICP    | 1        | 24.8     |      |    | mg/L  | 0.2     | 1       | 03/13/24 21:54 | brc     |
| Manganese, dissolved | M200.7 ICP    | 1        | 0.187    |      |    | mg/L  | 0.01    | 0.05    | 03/13/24 21:54 | brc     |
| Mercury, dissolved   | M245.1 CVAA   | 1        | <0.0002  | U    |    | mg/L  | 0.0002  | 0.001   | 03/15/24 10:52 | wtc     |
| Nickel, dissolved    | M200.7 ICP    | 1        | <0.008   | U    |    | mg/L  | 0.008   | 0.04    | 03/15/24 0:46  | wtc     |
| Potassium, dissolved | M200.7 ICP    | 1        | 5.20     |      |    | mg/L  | 0.5     | 1       | 03/13/24 21:54 | brc     |
| Selenium, dissolved  | M200.8 ICP-MS | 5        | <0.0005  | U    | *  | mg/L  | 0.0005  | 0.00125 | 03/19/24 21:51 | aps     |
| Sodium, dissolved    | M200.7 ICP    | 2        | 1210     |      |    | mg/L  | 0.4     | 2       | 03/18/24 18:11 | brc     |
| Vanadium, dissolved  | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.025   | 03/13/24 21:54 | brc     |
| Zinc, dissolved      | M200.7 ICP    | 1        | 0.090    |      |    | mg/L  | 0.02    | 0.05    | 03/13/24 21:54 | brc     |

**GCC Rio Grande**

Project ID:

Sample ID: MW-8

ACZ Sample ID: **L86455-05**

Date Sampled: 03/11/24 14:14

Date Received: 03/12/24

Sample Matrix: Groundwater

## Wet Chemistry

| Parameter                                 | EPA Method                                                         | Dilution | Result | Qual | XQ | Units | MDL  | PQL  | Date           | Analyst |
|-------------------------------------------|--------------------------------------------------------------------|----------|--------|------|----|-------|------|------|----------------|---------|
| Alkalinity as CaCO <sub>3</sub>           | SM2320B - Titration                                                |          |        |      |    |       |      |      |                |         |
| Bicarbonate as CaCO <sub>3</sub>          |                                                                    | 1        | 1230   |      |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Carbonate as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Hydroxide as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Total Alkalinity                          |                                                                    | 1        | 1230   |      | *  | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Cation-Anion Balance                      | Calculation                                                        |          |        |      |    |       |      |      |                |         |
| Cation-Anion Balance                      |                                                                    |          | -2.5   |      |    | %     |      |      | 03/25/24 0:00  | calc    |
| Sum of Anions                             |                                                                    |          | 61     |      |    | meq/L |      |      | 03/25/24 0:00  | calc    |
| Sum of Cations                            |                                                                    |          | 58     |      |    | meq/L |      |      | 03/25/24 0:00  | calc    |
| Chloride                                  | SM4500Cl-E                                                         | 20       | 315    |      | *  | mg/L  | 20   | 40   | 03/15/24 10:35 | jqr     |
| Fluoride                                  | SM4500F-C                                                          | 1        | 1.03   |      |    | mg/L  | 0.15 | 0.35 | 03/22/24 17:09 | jck     |
| Hardness as CaCO <sub>3</sub> (dissolved) | SM2340B - Calculation                                              |          | 250    |      |    | mg/L  | 0.2  | 5    | 03/25/24 0:00  | calc    |
| Nitrate as N                              | Calculation: NO <sub>3</sub> NO <sub>2</sub> minus NO <sub>2</sub> |          | <0.02  | U    |    | mg/L  | 0.02 | 0.1  | 03/25/24 0:00  | calc    |
| Nitrate/Nitrite as N                      | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.02  | U    | *  | mg/L  | 0.02 | 0.1  | 03/13/24 0:37  | pjb     |
| Nitrite as N                              | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.01  | U    | *  | mg/L  | 0.01 | 0.05 | 03/13/24 0:15  | pjb     |
| Residue, Filterable (TDS) @180C           | SM2540C                                                            | 5        | 3660   |      |    | mg/L  | 100  | 200  | 03/15/24 13:28 | emk     |
| Sulfate                                   | ASTM D516-07/-11/-16                                               | 50       | 1300   |      | *  | mg/L  | 50   | 250  | 03/19/24 14:55 | cbp     |
| TDS (calculated)                          | Calculation                                                        |          | 3670   |      |    | mg/L  |      |      | 03/25/24 0:00  | calc    |
| TDS (ratio - measured/calculated)         | Calculation                                                        |          | 1.00   |      |    |       |      |      | 03/25/24 0:00  | calc    |

**GCC Rio Grande**

Project ID:

Sample ID: MW-2B

ACZ Sample ID: **L86455-06**

Date Sampled: 03/11/24 12:00

Date Received: 03/12/24

Sample Matrix: Groundwater

## Metals Analysis

| Parameter            | EPA Method    | Dilution | Result   | Qual | XQ | Units | MDL     | PQL     | Date           | Analyst |
|----------------------|---------------|----------|----------|------|----|-------|---------|---------|----------------|---------|
| Aluminum, dissolved  | M200.7 ICP    | 1        | <0.05    | U    |    | mg/L  | 0.05    | 0.25    | 03/13/24 21:57 | brc     |
| Arsenic, dissolved   | M200.8 ICP-MS | 5        | <0.001   | U    | *  | mg/L  | 0.001   | 0.005   | 03/19/24 21:53 | aps     |
| Beryllium, dissolved | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/13/24 21:57 | brc     |
| Boron, dissolved     | M200.7 ICP    | 1        | 0.144    |      |    | mg/L  | 0.03    | 0.1     | 03/13/24 21:57 | brc     |
| Cadmium, dissolved   | M200.8 ICP-MS | 5        | <0.00025 | U    | *  | mg/L  | 0.00025 | 0.00125 | 03/19/24 21:53 | aps     |
| Calcium, dissolved   | M200.7 ICP    | 1        | 446      |      |    | mg/L  | 0.1     | 0.5     | 03/13/24 21:57 | brc     |
| Chromium, dissolved  | M200.7 ICP    | 1        | <0.02    | U    |    | mg/L  | 0.02    | 0.05    | 03/13/24 21:57 | brc     |
| Cobalt, dissolved    | M200.8 ICP-MS | 5        | 0.00193  |      |    | mg/L  | 0.00025 | 0.00125 | 03/19/24 21:53 | aps     |
| Copper, dissolved    | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/15/24 0:49  | wtc     |
| Iron, dissolved      | M200.7 ICP    | 1        | <0.06    | U    |    | mg/L  | 0.06    | 0.15    | 03/13/24 21:57 | brc     |
| Lead, dissolved      | M200.8 ICP-MS | 5        | <0.0005  | U    | *  | mg/L  | 0.0005  | 0.0025  | 03/19/24 21:53 | aps     |
| Lithium, dissolved   | M200.7 ICP    | 1        | 0.329    |      |    | mg/L  | 0.008   | 0.04    | 03/13/24 21:57 | brc     |
| Magnesium, dissolved | M200.7 ICP    | 1        | 382      |      |    | mg/L  | 0.2     | 1       | 03/13/24 21:57 | brc     |
| Manganese, dissolved | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/13/24 21:57 | brc     |
| Mercury, dissolved   | M245.1 CVAA   | 1        | <0.0002  | U    |    | mg/L  | 0.0002  | 0.001   | 03/15/24 10:53 | wtc     |
| Nickel, dissolved    | M200.7 ICP    | 1        | 0.0131   | B    |    | mg/L  | 0.008   | 0.04    | 03/15/24 0:49  | wtc     |
| Potassium, dissolved | M200.7 ICP    | 1        | 12.0     |      |    | mg/L  | 0.5     | 1       | 03/13/24 21:57 | brc     |
| Selenium, dissolved  | M200.8 ICP-MS | 5        | 0.0294   |      |    | mg/L  | 0.0005  | 0.00125 | 03/19/24 21:53 | aps     |
| Sodium, dissolved    | M200.7 ICP    | 1        | 354      |      |    | mg/L  | 0.2     | 1       | 03/13/24 21:57 | brc     |
| Vanadium, dissolved  | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.025   | 03/13/24 21:57 | brc     |
| Zinc, dissolved      | M200.7 ICP    | 1        | 0.085    |      |    | mg/L  | 0.02    | 0.05    | 03/13/24 21:57 | brc     |

**GCC Rio Grande**

Project ID:

Sample ID: MW-2B

ACZ Sample ID: **L86455-06**

Date Sampled: 03/11/24 12:00

Date Received: 03/12/24

Sample Matrix: Groundwater

## Wet Chemistry

| Parameter                                 | EPA Method                                                         | Dilution | Result | Qual | XQ | Units | MDL  | PQL  | Date           | Analyst |
|-------------------------------------------|--------------------------------------------------------------------|----------|--------|------|----|-------|------|------|----------------|---------|
| Alkalinity as CaCO <sub>3</sub>           | SM2320B - Titration                                                |          |        |      |    |       |      |      |                |         |
| Bicarbonate as CaCO <sub>3</sub>          |                                                                    | 1        | 247    |      |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Carbonate as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Hydroxide as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Total Alkalinity                          |                                                                    | 1        | 247    |      | *  | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Cation-Anion Balance                      | Calculation                                                        |          |        |      |    |       |      |      |                |         |
| Cation-Anion Balance                      |                                                                    |          | 2.9    |      |    | %     |      |      | 03/25/24 0:00  | calc    |
| Sum of Anions                             |                                                                    |          | 66     |      |    | meq/L |      |      | 03/25/24 0:00  | calc    |
| Sum of Cations                            |                                                                    |          | 70     |      |    | meq/L |      |      | 03/25/24 0:00  | calc    |
| Chloride                                  | SM4500Cl-E                                                         | 1        | 43.1   |      | *  | mg/L  | 1    | 2    | 03/15/24 10:16 | jqr     |
| Fluoride                                  | SM4500F-C                                                          | 1        | 0.50   |      |    | mg/L  | 0.15 | 0.35 | 03/22/24 17:14 | jck     |
| Hardness as CaCO <sub>3</sub> (dissolved) | SM2340B - Calculation                                              |          | 2690   |      |    | mg/L  | 0.2  | 5    | 03/25/24 0:00  | calc    |
| Nitrate as N                              | Calculation: NO <sub>3</sub> NO <sub>2</sub> minus NO <sub>2</sub> |          | 6.45   |      |    | mg/L  | 0.06 | 0.3  | 03/25/24 0:00  | calc    |
| Nitrate/Nitrite as N                      | EPA 353.2 - Automated Cadmium Reduction                            | 3        | 6.45   |      | *  | mg/L  | 0.06 | 0.3  | 03/13/24 0:38  | pjb     |
| Nitrite as N                              | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.01  | U    | *  | mg/L  | 0.01 | 0.05 | 03/13/24 0:16  | pjb     |
| Residue, Filterable (TDS) @180C           | SM2540C                                                            | 10       | 4720   | H    | *  | mg/L  | 200  | 400  | 03/19/24 9:46  | asn     |
| Sulfate                                   | ASTM D516-07/-11/-16                                               | 200      | 2870   |      | *  | mg/L  | 200  | 1000 | 03/19/24 15:10 | cbp     |
| TDS (calculated)                          | Calculation                                                        |          | 4260   |      |    | mg/L  |      |      | 03/25/24 0:00  | calc    |
| TDS (ratio - measured/calculated)         | Calculation                                                        |          | 1.11   |      |    |       |      |      | 03/25/24 0:00  | calc    |

**GCC Rio Grande**

Project ID:

Sample ID: METHOD BLANK

ACZ Sample ID: **L86455-07**

Date Sampled: 03/11/24 12:30

Date Received: 03/12/24

Sample Matrix: Groundwater

## Metals Analysis

| Parameter            | EPA Method    | Dilution | Result   | Qual | XQ | Units | MDL     | PQL     | Date           | Analyst |
|----------------------|---------------|----------|----------|------|----|-------|---------|---------|----------------|---------|
| Aluminum, dissolved  | M200.7 ICP    | 1        | <0.05    | U    |    | mg/L  | 0.05    | 0.25    | 03/13/24 22:00 | brc     |
| Arsenic, dissolved   | M200.8 ICP-MS | 1        | <0.0002  | U    |    | mg/L  | 0.0002  | 0.001   | 03/19/24 21:55 | aps     |
| Beryllium, dissolved | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/13/24 22:00 | brc     |
| Boron, dissolved     | M200.7 ICP    | 1        | <0.03    | U    |    | mg/L  | 0.03    | 0.1     | 03/13/24 22:00 | brc     |
| Cadmium, dissolved   | M200.8 ICP-MS | 1        | <0.00005 | U    |    | mg/L  | 0.00005 | 0.00025 | 03/19/24 21:55 | aps     |
| Calcium, dissolved   | M200.7 ICP    | 1        | 0.32     | B    |    | mg/L  | 0.1     | 0.5     | 03/13/24 22:00 | brc     |
| Chromium, dissolved  | M200.7 ICP    | 1        | <0.02    | U    |    | mg/L  | 0.02    | 0.05    | 03/13/24 22:00 | brc     |
| Cobalt, dissolved    | M200.8 ICP-MS | 1        | <0.00005 | U    |    | mg/L  | 0.00005 | 0.00025 | 03/19/24 21:55 | aps     |
| Copper, dissolved    | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/18/24 18:14 | brc     |
| Iron, dissolved      | M200.7 ICP    | 1        | <0.06    | U    |    | mg/L  | 0.06    | 0.15    | 03/13/24 22:00 | brc     |
| Lead, dissolved      | M200.8 ICP-MS | 1        | <0.0001  | U    |    | mg/L  | 0.0001  | 0.0005  | 03/19/24 21:55 | aps     |
| Lithium, dissolved   | M200.7 ICP    | 1        | <0.008   | U    |    | mg/L  | 0.008   | 0.04    | 03/13/24 22:00 | brc     |
| Magnesium, dissolved | M200.7 ICP    | 1        | 0.45     | B    |    | mg/L  | 0.2     | 1       | 03/13/24 22:00 | brc     |
| Manganese, dissolved | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/13/24 22:00 | brc     |
| Mercury, dissolved   | M245.1 CVAA   | 1        | <0.0002  | U    |    | mg/L  | 0.0002  | 0.001   | 03/15/24 10:56 | wtc     |
| Nickel, dissolved    | M200.7 ICP    | 1        | <0.008   | U    |    | mg/L  | 0.008   | 0.04    | 03/14/24 18:03 | brc     |
| Potassium, dissolved | M200.7 ICP    | 1        | <0.5     | U    |    | mg/L  | 0.5     | 1       | 03/13/24 22:00 | brc     |
| Selenium, dissolved  | M200.8 ICP-MS | 1        | <0.0001  | U    |    | mg/L  | 0.0001  | 0.00025 | 03/19/24 21:55 | aps     |
| Sodium, dissolved    | M200.7 ICP    | 1        | 0.44     | B    |    | mg/L  | 0.2     | 1       | 03/13/24 22:00 | brc     |
| Vanadium, dissolved  | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.025   | 03/13/24 22:00 | brc     |
| Zinc, dissolved      | M200.7 ICP    | 1        | 0.091    |      |    | mg/L  | 0.02    | 0.05    | 03/13/24 22:00 | brc     |

**GCC Rio Grande**

Project ID:

Sample ID: METHOD BLANK

ACZ Sample ID: **L86455-07**

Date Sampled: 03/11/24 12:30

Date Received: 03/12/24

Sample Matrix: Groundwater

Wet Chemistry

| Parameter                                 | EPA Method                                                         | Dilution | Result | Qual | XQ | Units | MDL  | PQL  | Date           | Analyst |
|-------------------------------------------|--------------------------------------------------------------------|----------|--------|------|----|-------|------|------|----------------|---------|
| Alkalinity as CaCO <sub>3</sub>           | SM2320B - Titration                                                |          |        |      |    |       |      |      |                |         |
| Bicarbonate as CaCO <sub>3</sub>          |                                                                    | 1        | 7.0    | B    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Carbonate as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Hydroxide as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Total Alkalinity                          |                                                                    | 1        | 7.0    | B    | *  | mg/L  | 2    | 20   | 03/22/24 0:00  | jck     |
| Cation-Anion Balance                      | Calculation                                                        |          |        |      |    |       |      |      |                |         |
| Cation-Anion Balance                      |                                                                    |          | n/a    |      |    | %     |      |      | 03/25/24 0:00  | calc    |
| Sum of Anions                             |                                                                    |          | 0.1    | B    |    | meq/L |      |      | 03/25/24 0:00  | calc    |
| Sum of Cations                            |                                                                    |          | <      | U    |    | meq/L |      |      | 03/25/24 0:00  | calc    |
| Chloride                                  | SM4500Cl-E                                                         | 1        | <1     | U    | *  | mg/L  | 1    | 2    | 03/15/24 10:16 | jqr     |
| Fluoride                                  | SM4500F-C                                                          | 1        | <0.15  | U    |    | mg/L  | 0.15 | 0.35 | 03/22/24 17:34 | jck     |
| Hardness as CaCO <sub>3</sub> (dissolved) | SM2340B - Calculation                                              |          | 2.7    | B    |    | mg/L  | 0.2  | 5    | 03/25/24 0:00  | calc    |
| Nitrate as N                              | Calculation: NO <sub>3</sub> NO <sub>2</sub> minus NO <sub>2</sub> |          | <0.02  | U    |    | mg/L  | 0.02 | 0.1  | 03/25/24 0:00  | calc    |
| Nitrate/Nitrite as N                      | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.02  | U    | *  | mg/L  | 0.02 | 0.1  | 03/13/24 0:40  | pjb     |
| Nitrite as N                              | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.01  | U    | *  | mg/L  | 0.01 | 0.05 | 03/13/24 0:18  | pjb     |
| Residue, Filterable (TDS) @180C           | SM2540C                                                            | 1        | <20    | U    | *  | mg/L  | 20   | 40   | 03/15/24 13:32 | emk     |
| Sulfate                                   | ASTM D516-07/-11/-16                                               | 1        | <1     | U    | *  | mg/L  | 1    | 5    | 03/19/24 14:38 | cbp     |
| TDS (calculated)                          | Calculation                                                        |          | 5.57   |      |    | mg/L  |      |      | 03/25/24 0:00  | calc    |
| TDS (ratio - measured/calculated)         | Calculation                                                        |          | n/a    |      |    |       |      |      | 03/25/24 0:00  | calc    |


**Report Header Explanations**

|                |                                                                                                                                                                |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Batch</i>   | A distinct set of samples analyzed at a specific time                                                                                                          |
| <i>Found</i>   | Value of the QC Type of interest                                                                                                                               |
| <i>Limit</i>   | Upper limit for RPD, in %.                                                                                                                                     |
| <i>Lower</i>   | Lower Recovery Limit, in % (except for LCSS, mg/Kg)                                                                                                            |
| <i>MDL</i>     | Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5).<br>Allows for instrument and annual fluctuations. |
| <i>PCN/SCN</i> | A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis                                                                 |
| <i>PQL</i>     | Practical Quantitation Limit. Synonymous with the EPA term "minimum level".                                                                                    |
| <i>QC</i>      | True Value of the Control Sample or the amount added to the Spike                                                                                              |
| <i>Rec</i>     | Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)                                                                               |
| <i>RPD</i>     | Relative Percent Difference, calculation used for Duplicate QC Types                                                                                           |
| <i>Upper</i>   | Upper Recovery Limit, in % (except for LCSS, mg/Kg)                                                                                                            |
| <i>Sample</i>  | Value of the Sample of interest                                                                                                                                |

**QC Sample Types**

|              |                                                        |              |                                              |
|--------------|--------------------------------------------------------|--------------|----------------------------------------------|
| <i>AS</i>    | Analytical Spike (Post Digestion)                      | <i>LCSWD</i> | Laboratory Control Sample - Water Duplicate  |
| <i>ASD</i>   | Analytical Spike (Post Digestion) Duplicate            | <i>LFB</i>   | Laboratory Fortified Blank                   |
| <i>CCB</i>   | Continuing Calibration Blank                           | <i>LFM</i>   | Laboratory Fortified Matrix                  |
| <i>CCV</i>   | Continuing Calibration Verification standard           | <i>LFMD</i>  | Laboratory Fortified Matrix Duplicate        |
| <i>DUP</i>   | Sample Duplicate                                       | <i>LRB</i>   | Laboratory Reagent Blank                     |
| <i>ICB</i>   | Initial Calibration Blank                              | <i>MS</i>    | Matrix Spike                                 |
| <i>ICV</i>   | Initial Calibration Verification standard              | <i>MSD</i>   | Matrix Spike Duplicate                       |
| <i>ICSAB</i> | Inter-element Correction Standard - A plus B solutions | <i>PBS</i>   | Prep Blank - Soil                            |
| <i>LCSS</i>  | Laboratory Control Sample - Soil                       | <i>PBW</i>   | Prep Blank - Water                           |
| <i>LCSSD</i> | Laboratory Control Sample - Soil Duplicate             | <i>PQV</i>   | Practical Quantitation Verification standard |
| <i>LCSW</i>  | Laboratory Control Sample - Water                      | <i>SDL</i>   | Serial Dilution                              |

**QC Sample Type Explanations**

|                         |                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------|
| Blanks                  | Verifies that there is no or minimal contamination in the prep method or calibration procedure. |
| Control Samples         | Verifies the accuracy of the method, including the prep procedure.                              |
| Duplicates              | Verifies the precision of the instrument and/or method.                                         |
| Spikes/Fortified Matrix | Determines sample matrix interferences, if any.                                                 |
| Standard                | Verifies the validity of the calibration.                                                       |

**ACZ Qualifiers (Qual)**

|   |                                                                                                                                                                                             |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B | Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.                                                                               |
| H | Analysis exceeded method hold time. pH is a field test with an immediate hold time.                                                                                                         |
| L | Target analyte response was below the laboratory defined negative threshold.                                                                                                                |
| U | The material was analyzed for, but was not detected above the level of the associated value.<br>The associated value is either the sample quantitation limit or the sample detection limit. |

**Method References**

|     |                                                                                                                |
|-----|----------------------------------------------------------------------------------------------------------------|
| (1) | EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.                               |
| (2) | EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993. |
| (3) | EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.   |
| (4) | EPA SW-846. Test Methods for Evaluating Solid Waste.                                                           |
| (5) | Standard Methods for the Examination of Water and Wastewater.                                                  |

**Comments**

|     |                                                                                                                                    |
|-----|------------------------------------------------------------------------------------------------------------------------------------|
| (1) | QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.                 |
| (2) | Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.                                        |
| (3) | Animal matrices for Inorganic analyses are reported on an "as received" basis.                                                     |
| (4) | An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result. |
| (5) | If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.                                            |

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

GCC

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Alkalinity as CaCO3**

SM2320B - Titration

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG586165</b> |      |                |            |          |        |       |       |      |       |       |     |       |      |
| WG586165PBW1    | PBW  | 03/22/24 22:02 |            |          |        | 9.1   | mg/L  |      | -20   | 20    |     |       |      |
| WG586165LCSW3   | LCSW | 03/22/24 22:14 | WC240320-1 | 820.0001 |        | 807.2 | mg/L  | 98   | 90    | 110   |     |       |      |
| L86455-07DUP    | DUP  | 03/22/24 23:57 |            |          | 7      | 3.7   | mg/L  |      |       |       | 62  | 20    | RA   |
| WG586165LCSW6   | LCSW | 03/23/24 0:07  | WC240320-1 | 820.0001 |        | 814.5 | mg/L  | 99   | 90    | 110   |     |       |      |
| WG586165PBW2    | PBW  | 03/23/24 0:14  |            |          |        | 5.4   | mg/L  |      | -20   | 20    |     |       |      |
| WG586165LCSW9   | LCSW | 03/23/24 2:07  | WC240320-1 | 820.0001 |        | 824.3 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG586165PBW3    | PBW  | 03/23/24 2:14  |            |          |        | 4.9   | mg/L  |      | -20   | 20    |     |       |      |
| WG586165LCSW12  | LCSW | 03/23/24 4:08  | WC240320-1 | 820.0001 |        | 819.7 | mg/L  | 100  | 90    | 110   |     |       |      |
| WG586165PBW4    | PBW  | 03/23/24 4:15  |            |          |        | 4.2   | mg/L  |      | -20   | 20    |     |       |      |
| WG586165LCSW15  | LCSW | 03/23/24 6:06  | WC240320-1 | 820.0001 |        | 846.4 | mg/L  | 103  | 90    | 110   |     |       |      |
| WG586165PBW5    | PBW  | 03/23/24 6:13  |            |          |        | 9.1   | mg/L  |      | -20   | 20    |     |       |      |
| WG586165LCSW18  | LCSW | 03/23/24 8:08  | WC240320-1 | 820.0001 |        | 835.7 | mg/L  | 102  | 90    | 110   |     |       |      |

**Aluminum, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC        | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585631</b> |      |                |            |           |        |       |       |      |       |       |     |       |      |
| WG585631ICV     | ICV  | 03/13/24 20:38 | II240305-3 | 2         |        | 1.961 | mg/L  | 98   | 95    | 105   |     |       |      |
| WG585631ICB     | ICB  | 03/13/24 20:44 |            |           |        | U     | mg/L  |      | -0.15 | 0.15  |     |       |      |
| WG585631PQV     | PQV  | 03/13/24 20:47 | II240221-2 | .25025    |        | .206  | mg/L  | 82   | 70    | 130   |     |       |      |
| WG585631SIC     | SIC  | 03/13/24 20:50 | II240222-2 | 200.45025 |        | 204.8 | mg/L  | 102  | 1     | 200   |     |       |      |
| WG585631LFB     | LFB  | 03/13/24 20:56 | II240306-3 | 1.001     |        | .972  | mg/L  | 97   | 85    | 115   |     |       |      |
| WG585631CCV1    | CCV  | 03/13/24 21:26 | II240313-2 | 1         |        | .94   | mg/L  | 94   | 90    | 110   |     |       |      |
| WG585631CCB1    | CCB  | 03/13/24 21:29 |            |           |        | U     | mg/L  |      | -0.15 | 0.15  |     |       |      |
| WG585631CCV2    | CCV  | 03/13/24 22:03 | II240313-2 | 1         |        | .932  | mg/L  | 93   | 90    | 110   |     |       |      |
| WG585631CCB2    | CCB  | 03/13/24 22:06 |            |           |        | U     | mg/L  |      | -0.15 | 0.15  |     |       |      |
| L86465-01AS     | AS   | 03/13/24 22:16 | II240306-3 | 1.001     | U      | .999  | mg/L  | 100  | 85    | 115   |     |       |      |
| L86465-01ASD    | ASD  | 03/13/24 22:18 | II240306-3 | 1.001     | U      | .996  | mg/L  | 100  | 85    | 115   | 0   | 20    |      |
| WG585631CCV3    | CCV  | 03/13/24 22:25 | II240313-2 | 1         |        | .944  | mg/L  | 94   | 90    | 110   |     |       |      |
| WG585631CCB3    | CCB  | 03/13/24 22:28 |            |           |        | U     | mg/L  |      | -0.15 | 0.15  |     |       |      |
| <b>WG585626</b> |      |                |            |           |        |       |       |      |       |       |     |       |      |
| WG585626ICV     | ICV  | 03/14/24 20:39 | II240305-3 | 2         |        | 2.015 | mg/L  | 101  | 95    | 105   |     |       |      |
| WG585626ICB     | ICB  | 03/14/24 20:44 |            |           |        | U     | mg/L  |      | -0.15 | 0.15  |     |       |      |
| WG585626PQV     | PQV  | 03/14/24 20:47 | II240221-2 | .25025    |        | .252  | mg/L  | 101  | 70    | 130   |     |       |      |
| WG585626SIC     | SIC  | 03/14/24 20:50 | II240222-2 | 200.45025 |        | 205.2 | mg/L  | 102  | 1     | 200   |     |       |      |
| WG585626LFB     | LFB  | 03/14/24 20:57 | II240306-3 | 1.001     |        | 1.034 | mg/L  | 103  | 85    | 115   |     |       |      |
| WG585626CCV1    | CCV  | 03/14/24 21:27 | II240313-2 | 1         |        | .996  | mg/L  | 100  | 90    | 110   |     |       |      |
| WG585626CCB1    | CCB  | 03/14/24 21:30 |            |           |        | U     | mg/L  |      | -0.15 | 0.15  |     |       |      |
| WG585626CCV2    | CCV  | 03/14/24 22:03 | II240313-2 | 1         |        | 1     | mg/L  | 100  | 90    | 110   |     |       |      |
| WG585626CCB2    | CCB  | 03/14/24 22:06 |            |           |        | U     | mg/L  |      | -0.15 | 0.15  |     |       |      |
| L86447-08AS     | AS   | 03/14/24 22:16 | II240306-3 | 1.001     | U      | 1.052 | mg/L  | 105  | 85    | 115   |     |       |      |
| L86447-08ASD    | ASD  | 03/14/24 22:19 | II240306-3 | 1.001     | U      | 1.056 | mg/L  | 105  | 85    | 115   | 0   | 20    |      |
| WG585626CCV3    | CCV  | 03/14/24 22:25 | II240313-2 | 1         |        | .996  | mg/L  | 100  | 90    | 110   |     |       |      |
| WG585626CCB3    | CCB  | 03/14/24 22:28 |            |           |        | U     | mg/L  |      | -0.15 | 0.15  |     |       |      |

GCC

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Arsenic, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG585937</b> |      |                |            |       |        |        |       |      |          |         |     |       |      |
| WG585937ICV     | ICV  | 03/19/24 20:31 | MS240109-5 | .05   |        | .05256 | mg/L  | 105  | 90       | 110     |     |       |      |
| WG585937ICB     | ICB  | 03/19/24 20:33 |            |       |        | U      | mg/L  |      | -0.00044 | 0.00044 |     |       |      |
| WG585937LFB     | LFB  | 03/19/24 20:35 | MS240213-3 | .0501 |        | .05302 | mg/L  | 106  | 85       | 115     |     |       |      |
| WG585937CCV1    | CCV  | 03/19/24 20:53 | MS240305-4 | .1002 |        | .10196 | mg/L  | 102  | 90       | 110     |     |       |      |
| WG585937CCB1    | CCB  | 03/19/24 20:55 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |      |
| L86453-08AS     | AS   | 03/19/24 21:11 | MS240213-3 | .0501 | U      | .05733 | mg/L  | 114  | 70       | 130     |     |       |      |
| L86453-08ASD    | ASD  | 03/19/24 21:13 | MS240213-3 | .0501 | U      | .05745 | mg/L  | 115  | 70       | 130     | 0   | 20    |      |
| WG585937CCV2    | CCV  | 03/19/24 21:15 | MS240305-4 | .1002 |        | .10003 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585937CCB2    | CCB  | 03/19/24 21:17 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |      |
| WG585937CCV3    | CCV  | 03/19/24 21:28 | MS240305-4 | .1002 |        | .10248 | mg/L  | 102  | 90       | 110     |     |       |      |
| WG585937CCB3    | CCB  | 03/19/24 21:29 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |      |
| <b>WG585938</b> |      |                |            |       |        |        |       |      |          |         |     |       |      |
| WG585938ICV     | ICV  | 03/19/24 21:46 | MS240109-5 | .05   |        | .04995 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585938ICB     | ICB  | 03/19/24 21:47 |            |       |        | U      | mg/L  |      | -0.00044 | 0.00044 |     |       |      |
| WG585938LFB     | LFB  | 03/19/24 21:49 | MS240213-3 | .0501 |        | .0513  | mg/L  | 102  | 85       | 115     |     |       |      |
| L86479-01AS     | AS   | 03/19/24 22:02 | MS240213-3 | .0501 | .00055 | .05591 | mg/L  | 110  | 70       | 130     |     |       |      |
| L86479-01ASD    | ASD  | 03/19/24 22:04 | MS240213-3 | .0501 | .00055 | .05626 | mg/L  | 111  | 70       | 130     | 1   | 20    |      |
| WG585938CCV1    | CCV  | 03/19/24 22:07 | MS240305-4 | .1002 |        | .09775 | mg/L  | 98   | 90       | 110     |     |       |      |
| WG585938CCB1    | CCB  | 03/19/24 22:09 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |      |
| WG585938CCV2    | CCV  | 03/19/24 22:29 | MS240305-4 | .1002 |        | .09632 | mg/L  | 96   | 90       | 110     |     |       |      |
| WG585938CCB2    | CCB  | 03/19/24 22:31 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |      |
| WG585938CCV3    | CCV  | 03/19/24 22:42 | MS240305-4 | .1002 |        | .09494 | mg/L  | 95   | 90       | 110     |     |       |      |
| WG585938CCB3    | CCB  | 03/19/24 22:44 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |      |

GCC

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Beryllium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585631</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG585631ICV     | ICV  | 03/13/24 20:38 | II240305-3 | 2      |        | 1.891 | mg/L  | 95   | 95    | 105   |     |       |      |
| WG585631ICB     | ICB  | 03/13/24 20:44 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585631PQV     | PQV  | 03/13/24 20:47 | II240221-2 | .05005 |        | .05   | mg/L  | 100  | 70    | 130   |     |       |      |
| WG585631SIC     | SIC  | 03/13/24 20:50 | II240222-2 | .10015 |        | .098  | mg/L  | 98   | 80    | 120   |     |       |      |
| WG585631LFB     | LFB  | 03/13/24 20:56 | II240306-3 | .5005  |        | .494  | mg/L  | 99   | 85    | 115   |     |       |      |
| WG585631CCV1    | CCV  | 03/13/24 21:26 | II240313-2 | 1      |        | .943  | mg/L  | 94   | 90    | 110   |     |       |      |
| WG585631CCB1    | CCB  | 03/13/24 21:29 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585631CCV2    | CCV  | 03/13/24 22:03 | II240313-2 | 1      |        | .948  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585631CCB2    | CCB  | 03/13/24 22:06 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| L86465-01AS     | AS   | 03/13/24 22:16 | II240306-3 | .5005  | U      | .493  | mg/L  | 99   | 85    | 115   |     |       |      |
| L86465-01ASD    | ASD  | 03/13/24 22:18 | II240306-3 | .5005  | U      | .496  | mg/L  | 99   | 85    | 115   | 1   | 20    |      |
| WG585631CCV3    | CCV  | 03/13/24 22:25 | II240313-2 | 1      |        | .95   | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585631CCB3    | CCB  | 03/13/24 22:28 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| <b>WG585626</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG585626ICV     | ICV  | 03/14/24 20:39 | II240305-3 | 2      |        | 1.927 | mg/L  | 96   | 95    | 105   |     |       |      |
| WG585626ICB     | ICB  | 03/14/24 20:44 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585626PQV     | PQV  | 03/14/24 20:47 | II240221-2 | .05005 |        | .052  | mg/L  | 104  | 70    | 130   |     |       |      |
| WG585626SIC     | SIC  | 03/14/24 20:50 | II240222-2 | .10015 |        | .1    | mg/L  | 100  | 80    | 120   |     |       |      |
| WG585626LFB     | LFB  | 03/14/24 20:57 | II240306-3 | .5005  |        | .503  | mg/L  | 100  | 85    | 115   |     |       |      |
| WG585626CCV1    | CCV  | 03/14/24 21:27 | II240313-2 | 1      |        | .954  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585626CCB1    | CCB  | 03/14/24 21:30 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585626CCV2    | CCV  | 03/14/24 22:03 | II240313-2 | 1      |        | .96   | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585626CCB2    | CCB  | 03/14/24 22:06 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| L86447-08AS     | AS   | 03/14/24 22:16 | II240306-3 | .5005  | U      | .512  | mg/L  | 102  | 85    | 115   |     |       |      |
| L86447-08ASD    | ASD  | 03/14/24 22:19 | II240306-3 | .5005  | U      | .509  | mg/L  | 102  | 85    | 115   | 1   | 20    |      |
| WG585626CCV3    | CCV  | 03/14/24 22:25 | II240313-2 | 1      |        | .959  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585626CCB3    | CCB  | 03/14/24 22:28 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |

GCC

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Boron, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585631</b> |      |                |            |       |        |       |       |      |       |       |     |       |      |
| WG585631ICV     | ICV  | 03/13/24 20:38 | II240305-3 | 2     |        | 1.998 | mg/L  | 100  | 95    | 105   |     |       |      |
| WG585631ICB     | ICB  | 03/13/24 20:44 |            |       |        | U     | mg/L  |      | -0.09 | 0.09  |     |       |      |
| WG585631PQV     | PQV  | 03/13/24 20:47 | II240221-2 | .1001 |        | .102  | mg/L  | 102  | 70    | 130   |     |       |      |
| WG585631SIC     | SIC  | 03/13/24 20:50 | II240222-2 | .1001 |        | .105  | mg/L  | 105  | 80    | 120   |     |       |      |
| WG585631LFB     | LFB  | 03/13/24 20:56 | II240306-3 | .5005 |        | .508  | mg/L  | 101  | 85    | 115   |     |       |      |
| WG585631CCV1    | CCV  | 03/13/24 21:26 | II240313-2 | 1     |        | 1.007 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG585631CCB1    | CCB  | 03/13/24 21:29 |            |       |        | U     | mg/L  |      | -0.09 | 0.09  |     |       |      |
| WG585631CCV2    | CCV  | 03/13/24 22:03 | II240313-2 | 1     |        | .999  | mg/L  | 100  | 90    | 110   |     |       |      |
| WG585631CCB2    | CCB  | 03/13/24 22:06 |            |       |        | U     | mg/L  |      | -0.09 | 0.09  |     |       |      |
| L86465-01AS     | AS   | 03/13/24 22:16 | II240306-3 | .5005 | .089   | .595  | mg/L  | 101  | 85    | 115   |     |       |      |
| L86465-01ASD    | ASD  | 03/13/24 22:18 | II240306-3 | .5005 | .089   | .6    | mg/L  | 102  | 85    | 115   | 1   | 20    |      |
| WG585631CCV3    | CCV  | 03/13/24 22:25 | II240313-2 | 1     |        | 1.013 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG585631CCB3    | CCB  | 03/13/24 22:28 |            |       |        | U     | mg/L  |      | -0.09 | 0.09  |     |       |      |
| <b>WG585626</b> |      |                |            |       |        |       |       |      |       |       |     |       |      |
| WG585626ICV     | ICV  | 03/14/24 20:39 | II240305-3 | 2     |        | 2.033 | mg/L  | 102  | 95    | 105   |     |       |      |
| WG585626ICB     | ICB  | 03/14/24 20:44 |            |       |        | U     | mg/L  |      | -0.09 | 0.09  |     |       |      |
| WG585626PQV     | PQV  | 03/14/24 20:47 | II240221-2 | .1001 |        | .118  | mg/L  | 118  | 70    | 130   |     |       |      |
| WG585626SIC     | SIC  | 03/14/24 20:50 | II240222-2 | .1001 |        | .116  | mg/L  | 116  | 80    | 120   |     |       |      |
| WG585626LFB     | LFB  | 03/14/24 20:57 | II240306-3 | .5005 |        | .531  | mg/L  | 106  | 85    | 115   |     |       |      |
| WG585626CCV1    | CCV  | 03/14/24 21:27 | II240313-2 | 1     |        | 1.02  | mg/L  | 102  | 90    | 110   |     |       |      |
| WG585626CCB1    | CCB  | 03/14/24 21:30 |            |       |        | U     | mg/L  |      | -0.09 | 0.09  |     |       |      |
| WG585626CCV2    | CCV  | 03/14/24 22:03 | II240313-2 | 1     |        | 1.027 | mg/L  | 103  | 90    | 110   |     |       |      |
| WG585626CCB2    | CCB  | 03/14/24 22:06 |            |       |        | U     | mg/L  |      | -0.09 | 0.09  |     |       |      |
| L86447-08AS     | AS   | 03/14/24 22:16 | II240306-3 | .5005 | U      | .537  | mg/L  | 107  | 85    | 115   |     |       |      |
| L86447-08ASD    | ASD  | 03/14/24 22:19 | II240306-3 | .5005 | U      | .541  | mg/L  | 108  | 85    | 115   | 1   | 20    |      |
| WG585626CCV3    | CCV  | 03/14/24 22:25 | II240313-2 | 1     |        | 1.031 | mg/L  | 103  | 90    | 110   |     |       |      |
| WG585626CCB3    | CCB  | 03/14/24 22:28 |            |       |        | U     | mg/L  |      | -0.09 | 0.09  |     |       |      |

**GCC**

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Cadmium, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found   | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|---------|-------|------|----------|---------|-----|-------|------|
| <b>WG585937</b> |      |                |            |        |        |         |       |      |          |         |     |       |      |
| WG585937ICV     | ICV  | 03/19/24 20:31 | MS240109-5 | .05    |        | .052361 | mg/L  | 105  | 90       | 110     |     |       |      |
| WG585937ICB     | ICB  | 03/19/24 20:33 |            |        |        | U       | mg/L  |      | -0.00011 | 0.00011 |     |       |      |
| WG585937LFB     | LFB  | 03/19/24 20:35 | MS240213-3 | .05005 |        | .052891 | mg/L  | 106  | 85       | 115     |     |       |      |
| WG585937CCV1    | CCV  | 03/19/24 20:53 | MS240305-4 | .1001  |        | .102478 | mg/L  | 102  | 90       | 110     |     |       |      |
| WG585937CCB1    | CCB  | 03/19/24 20:55 |            |        |        | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |
| L86453-08AS     | AS   | 03/19/24 21:11 | MS240213-3 | .05005 | U      | .056022 | mg/L  | 112  | 70       | 130     |     |       |      |
| L86453-08ASD    | ASD  | 03/19/24 21:13 | MS240213-3 | .05005 | U      | .056339 | mg/L  | 113  | 70       | 130     | 1   | 20    |      |
| WG585937CCV2    | CCV  | 03/19/24 21:15 | MS240305-4 | .1001  |        | .101404 | mg/L  | 101  | 90       | 110     |     |       |      |
| WG585937CCB2    | CCB  | 03/19/24 21:17 |            |        |        | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |
| WG585937CCV3    | CCV  | 03/19/24 21:28 | MS240305-4 | .1001  |        | .103255 | mg/L  | 103  | 90       | 110     |     |       |      |
| WG585937CCB3    | CCB  | 03/19/24 21:29 |            |        |        | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |
| <b>WG585938</b> |      |                |            |        |        |         |       |      |          |         |     |       |      |
| WG585938ICV     | ICV  | 03/19/24 21:46 | MS240109-5 | .05    |        | .050586 | mg/L  | 101  | 90       | 110     |     |       |      |
| WG585938ICB     | ICB  | 03/19/24 21:47 |            |        |        | U       | mg/L  |      | -0.00011 | 0.00011 |     |       |      |
| WG585938LFB     | LFB  | 03/19/24 21:49 | MS240213-3 | .05005 |        | .049891 | mg/L  | 100  | 85       | 115     |     |       |      |
| L86479-01AS     | AS   | 03/19/24 22:02 | MS240213-3 | .05005 | U      | .054555 | mg/L  | 109  | 70       | 130     |     |       |      |
| L86479-01ASD    | ASD  | 03/19/24 22:04 | MS240213-3 | .05005 | U      | .053224 | mg/L  | 106  | 70       | 130     | 2   | 20    |      |
| WG585938CCV1    | CCV  | 03/19/24 22:07 | MS240305-4 | .1001  |        | .098799 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG585938CCB1    | CCB  | 03/19/24 22:09 |            |        |        | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |
| WG585938CCV2    | CCV  | 03/19/24 22:29 | MS240305-4 | .1001  |        | .097771 | mg/L  | 98   | 90       | 110     |     |       |      |
| WG585938CCB2    | CCB  | 03/19/24 22:31 |            |        |        | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |
| WG585938CCV3    | CCV  | 03/19/24 22:42 | MS240305-4 | .1001  |        | .098415 | mg/L  | 98   | 90       | 110     |     |       |      |
| WG585938CCB3    | CCB  | 03/19/24 22:44 |            |        |        | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |

**GCC**

ACZ Project ID: **L86455**

*NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.*

**Calcium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585631</b> |      |                |            |          |        |       |       |      |       |       |     |       |      |
| WG585631ICV     | ICV  | 03/13/24 20:38 | II240305-3 | 100      |        | 95.82 | mg/L  | 96   | 95    | 105   |     |       |      |
| WG585631ICB     | ICB  | 03/13/24 20:44 |            |          |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG585631PQV     | PQV  | 03/13/24 20:47 | II240221-2 | .5025    |        | .44   | mg/L  | 88   | 70    | 130   |     |       |      |
| WG585631SIC     | SIC  | 03/13/24 20:50 | II240222-2 | 201.5025 |        | 198.7 | mg/L  | 99   | 1     | 200   |     |       |      |
| WG585631LFB     | LFB  | 03/13/24 20:56 | II240306-3 | 67.94555 |        | 67.11 | mg/L  | 99   | 85    | 115   |     |       |      |
| WG585631CCV1    | CCV  | 03/13/24 21:26 | II240313-2 | 50       |        | 47.69 | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585631CCB1    | CCB  | 03/13/24 21:29 |            |          |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG585631CCV2    | CCV  | 03/13/24 22:03 | II240313-2 | 50       |        | 47.93 | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585631CCB2    | CCB  | 03/13/24 22:06 |            |          |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| L86465-01AS     | AS   | 03/13/24 22:16 | II240306-3 | 67.94555 | 137    | 202.8 | mg/L  | 97   | 85    | 115   |     |       |      |
| L86465-01ASD    | ASD  | 03/13/24 22:18 | II240306-3 | 67.94555 | 137    | 200   | mg/L  | 93   | 85    | 115   | 1   | 20    |      |
| WG585631CCV3    | CCV  | 03/13/24 22:25 | II240313-2 | 50       |        | 48.09 | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585631CCB3    | CCB  | 03/13/24 22:28 |            |          |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| <b>WG585626</b> |      |                |            |          |        |       |       |      |       |       |     |       |      |
| WG585626ICV     | ICV  | 03/14/24 20:39 | II240305-3 | 100      |        | 97.72 | mg/L  | 98   | 95    | 105   |     |       |      |
| WG585626ICB     | ICB  | 03/14/24 20:44 |            |          |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG585626PQV     | PQV  | 03/14/24 20:47 | II240221-2 | .5025    |        | .51   | mg/L  | 101  | 70    | 130   |     |       |      |
| WG585626SIC     | SIC  | 03/14/24 20:50 | II240222-2 | 201.5025 |        | 197.5 | mg/L  | 98   | 1     | 200   |     |       |      |
| WG585626LFB     | LFB  | 03/14/24 20:57 | II240306-3 | 67.94555 |        | 68.68 | mg/L  | 101  | 85    | 115   |     |       |      |
| WG585626CCV1    | CCV  | 03/14/24 21:27 | II240313-2 | 50       |        | 48.44 | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585626CCB1    | CCB  | 03/14/24 21:30 |            |          |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG585626CCV2    | CCV  | 03/14/24 22:03 | II240313-2 | 50       |        | 48.64 | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585626CCB2    | CCB  | 03/14/24 22:06 |            |          |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| L86447-08AS     | AS   | 03/14/24 22:16 | II240306-3 | 67.94555 | .22    | 69.86 | mg/L  | 102  | 85    | 115   |     |       |      |
| L86447-08ASD    | ASD  | 03/14/24 22:19 | II240306-3 | 67.94555 | .22    | 69.83 | mg/L  | 102  | 85    | 115   | 0   | 20    |      |
| WG585626CCV3    | CCV  | 03/14/24 22:25 | II240313-2 | 50       |        | 48.56 | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585626CCB3    | CCB  | 03/14/24 22:28 |            |          |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |

**GCC**

ACZ Project ID: **L86455**

*NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.*

**Chloride**

SM4500CI-E

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585615</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG585615ICV     | ICV  | 03/15/24 9:45  | WI231211-1 | 39.96  |        | 40.48 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG585615ICB     | ICB  | 03/15/24 9:45  |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585615CCV1    | CCV  | 03/15/24 10:04 | WI240111-9 | 25.025 |        | 25.41 | mg/L  | 102  | 90    | 110   |     |       |      |
| WG585615CCB1    | CCB  | 03/15/24 10:04 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585615PQV     | PQV  | 03/15/24 10:04 | WI240213-4 | 2.002  |        | 2.11  | mg/L  | 105  | 50    | 150   |     |       |      |
| WG585615LFB     | LFB  | 03/15/24 10:05 | WI231211-4 | 20.02  |        | 21.67 | mg/L  | 108  | 90    | 110   |     |       |      |
| WG585615CCV2    | CCV  | 03/15/24 10:07 | WI240111-9 | 25.025 |        | 26.48 | mg/L  | 106  | 90    | 110   |     |       |      |
| WG585615CCB2    | CCB  | 03/15/24 10:08 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585615CCV3    | CCV  | 03/15/24 10:15 | WI240111-9 | 25.025 |        | 26.54 | mg/L  | 106  | 90    | 110   |     |       |      |
| WG585615CCB3    | CCB  | 03/15/24 10:15 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585615CCV4    | CCV  | 03/15/24 10:22 | WI240111-9 | 25.025 |        | 25.58 | mg/L  | 102  | 90    | 110   |     |       |      |
| WG585615CCB4    | CCB  | 03/15/24 10:22 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585615CCV5    | CCV  | 03/15/24 10:24 | WI240111-9 | 25.025 |        | 26.58 | mg/L  | 106  | 90    | 110   |     |       |      |
| WG585615CCB5    | CCB  | 03/15/24 10:25 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585615CCV6    | CCV  | 03/15/24 10:27 | WI240111-9 | 25.025 |        | 26.47 | mg/L  | 106  | 90    | 110   |     |       |      |
| WG585615CCB6    | CCB  | 03/15/24 10:27 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| L86465-01DUP    | DUP  | 03/15/24 10:30 |            |        | 57.6   | 58.51 | mg/L  |      |       |       | 2   | 20    |      |
| WG585615CCV7    | CCV  | 03/15/24 10:30 | WI240111-9 | 25.025 |        | 26.55 | mg/L  | 106  | 90    | 110   |     |       |      |
| WG585615CCB7    | CCB  | 03/15/24 10:30 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585615CCV8    | CCV  | 03/15/24 10:33 | WI240111-9 | 25.025 |        | 25.33 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG585615CCB8    | CCB  | 03/15/24 10:34 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| L86463-01AS     | AS   | 03/15/24 10:37 | WI231211-4 | 20.02  | 34.5   | 34.78 | mg/L  | 1    | 90    | 110   |     |       | M2   |
| WG585615CCV9    | CCV  | 03/15/24 10:38 | WI240111-9 | 25.025 |        | 26.7  | mg/L  | 107  | 90    | 110   |     |       |      |
| WG585615CCB9    | CCB  | 03/15/24 10:38 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585615CCV10   | CCV  | 03/15/24 10:43 | WI240111-9 | 25.025 |        | 26.55 | mg/L  | 106  | 90    | 110   |     |       |      |
| WG585615CCB10   | CCB  | 03/15/24 10:43 |            |        |        | U     | mg/L  |      |       |       |     |       |      |

GCC

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Chromium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585631</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG585631ICV     | ICV  | 03/13/24 20:38 | II240305-3 | 2      |        | 1.9   | mg/L  | 95   | 95    | 105   |     |       |      |
| WG585631ICB     | ICB  | 03/13/24 20:44 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG585631PQV     | PQV  | 03/13/24 20:47 | II240221-2 | .05005 |        | .052  | mg/L  | 104  | 70    | 130   |     |       |      |
| WG585631SIC     | SIC  | 03/13/24 20:50 | II240222-2 | .1001  |        | .099  | mg/L  | 99   | 80    | 120   |     |       |      |
| WG585631LFB     | LFB  | 03/13/24 20:56 | II240306-3 | .5005  |        | .496  | mg/L  | 99   | 85    | 115   |     |       |      |
| WG585631CCV1    | CCV  | 03/13/24 21:26 | II240313-2 | 1      |        | .955  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585631CCB1    | CCB  | 03/13/24 21:29 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG585631CCV2    | CCV  | 03/13/24 22:03 | II240313-2 | 1      |        | .958  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585631CCB2    | CCB  | 03/13/24 22:06 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| L86465-01AS     | AS   | 03/13/24 22:16 | II240306-3 | .5005  | U      | .495  | mg/L  | 99   | 85    | 115   |     |       |      |
| L86465-01ASD    | ASD  | 03/13/24 22:18 | II240306-3 | .5005  | U      | .498  | mg/L  | 100  | 85    | 115   | 1   | 20    |      |
| WG585631CCV3    | CCV  | 03/13/24 22:25 | II240313-2 | 1      |        | .961  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585631CCB3    | CCB  | 03/13/24 22:28 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| <b>WG585626</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG585626ICV     | ICV  | 03/14/24 20:39 | II240305-3 | 2      |        | 1.935 | mg/L  | 97   | 95    | 105   |     |       |      |
| WG585626ICB     | ICB  | 03/14/24 20:44 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG585626PQV     | PQV  | 03/14/24 20:47 | II240221-2 | .05005 |        | .064  | mg/L  | 128  | 70    | 130   |     |       |      |
| WG585626SIC     | SIC  | 03/14/24 20:50 | II240222-2 | .1001  |        | .113  | mg/L  | 113  | 80    | 120   |     |       |      |
| WG585626LFB     | LFB  | 03/14/24 20:57 | II240306-3 | .5005  |        | .521  | mg/L  | 104  | 85    | 115   |     |       |      |
| WG585626CCV1    | CCV  | 03/14/24 21:27 | II240313-2 | 1      |        | .973  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585626CCB1    | CCB  | 03/14/24 21:30 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG585626CCV2    | CCV  | 03/14/24 22:03 | II240313-2 | 1      |        | .984  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585626CCB2    | CCB  | 03/14/24 22:06 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| L86447-08AS     | AS   | 03/14/24 22:16 | II240306-3 | .5005  | U      | .525  | mg/L  | 105  | 85    | 115   |     |       |      |
| L86447-08ASD    | ASD  | 03/14/24 22:19 | II240306-3 | .5005  | U      | .525  | mg/L  | 105  | 85    | 115   | 0   | 20    |      |
| WG585626CCV3    | CCV  | 03/14/24 22:25 | II240313-2 | 1      |        | .985  | mg/L  | 99   | 90    | 110   |     |       |      |
| WG585626CCB3    | CCB  | 03/14/24 22:28 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |

**GCC**

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Cobalt, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample  | Found   | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|---------|---------|-------|------|----------|---------|-----|-------|------|
| <b>WG585937</b> |      |                |            |        |         |         |       |      |          |         |     |       |      |
| WG585937ICV     | ICV  | 03/19/24 20:31 | MS240109-5 | .05    |         | .053537 | mg/L  | 107  | 90       | 110     |     |       |      |
| WG585937ICB     | ICB  | 03/19/24 20:33 |            |        |         | U       | mg/L  |      | -0.00011 | 0.00011 |     |       |      |
| WG585937LFB     | LFB  | 03/19/24 20:35 | MS240213-3 | .05005 |         | .053878 | mg/L  | 108  | 85       | 115     |     |       |      |
| WG585937CCV1    | CCV  | 03/19/24 20:53 | MS240305-4 | .1001  |         | .099959 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585937CCB1    | CCB  | 03/19/24 20:55 |            |        |         | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |
| L86453-08AS     | AS   | 03/19/24 21:11 | MS240213-3 | .05005 | U       | .054116 | mg/L  | 108  | 70       | 130     |     |       |      |
| L86453-08ASD    | ASD  | 03/19/24 21:13 | MS240213-3 | .05005 | U       | .054148 | mg/L  | 108  | 70       | 130     | 0   | 20    |      |
| WG585937CCV2    | CCV  | 03/19/24 21:15 | MS240305-4 | .1001  |         | .101124 | mg/L  | 101  | 90       | 110     |     |       |      |
| WG585937CCB2    | CCB  | 03/19/24 21:17 |            |        |         | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |
| WG585937CCV3    | CCV  | 03/19/24 21:28 | MS240305-4 | .1001  |         | .102532 | mg/L  | 102  | 90       | 110     |     |       |      |
| WG585937CCB3    | CCB  | 03/19/24 21:29 |            |        |         | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |
| <b>WG585938</b> |      |                |            |        |         |         |       |      |          |         |     |       |      |
| WG585938ICV     | ICV  | 03/19/24 21:46 | MS240109-5 | .05    |         | .052987 | mg/L  | 106  | 90       | 110     |     |       |      |
| WG585938ICB     | ICB  | 03/19/24 21:47 |            |        |         | U       | mg/L  |      | -0.00011 | 0.00011 |     |       |      |
| WG585938LFB     | LFB  | 03/19/24 21:49 | MS240213-3 | .05005 |         | .054211 | mg/L  | 108  | 85       | 115     |     |       |      |
| L86479-01AS     | AS   | 03/19/24 22:02 | MS240213-3 | .05005 | .000265 | .053712 | mg/L  | 107  | 70       | 130     |     |       |      |
| L86479-01ASD    | ASD  | 03/19/24 22:04 | MS240213-3 | .05005 | .000265 | .052499 | mg/L  | 104  | 70       | 130     | 2   | 20    |      |
| WG585938CCV1    | CCV  | 03/19/24 22:07 | MS240305-4 | .1001  |         | .099833 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585938CCB1    | CCB  | 03/19/24 22:09 |            |        |         | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |
| WG585938CCV2    | CCV  | 03/19/24 22:29 | MS240305-4 | .1001  |         | .099803 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585938CCB2    | CCB  | 03/19/24 22:31 |            |        |         | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |
| WG585938CCV3    | CCV  | 03/19/24 22:42 | MS240305-4 | .1001  |         | .099578 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG585938CCB3    | CCB  | 03/19/24 22:44 |            |        |         | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |

**GCC**

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Copper, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585684</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG585684ICV     | ICV  | 03/14/24 23:01 | II240305-3 | 2      |        | 1.903 | mg/L  | 95   | 95    | 105   |     |       |      |
| WG585684ICB     | ICB  | 03/14/24 23:07 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585684PQV     | PQV  | 03/14/24 23:10 | II240221-2 | .05005 |        | .047  | mg/L  | 94   | 70    | 130   |     |       |      |
| WG585684SIC     | SIC  | 03/14/24 23:13 | II240222-2 | .1001  |        | .096  | mg/L  | 96   | 80    | 120   |     |       |      |
| WG585684LFB     | LFB  | 03/14/24 23:20 | II240306-3 | .5005  |        | .508  | mg/L  | 101  | 85    | 115   |     |       |      |
| WG585684CCV1    | CCV  | 03/14/24 23:52 | II240313-2 | 1      |        | .954  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585684CCB1    | CCB  | 03/14/24 23:55 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| L85240-12AS     | AS   | 03/15/24 0:17  | II240306-3 | .5005  | U      | .506  | mg/L  | 101  | 85    | 115   |     |       |      |
| L85240-12ASD    | ASD  | 03/15/24 0:20  | II240306-3 | .5005  | U      | .508  | mg/L  | 101  | 85    | 115   | 0   | 20    |      |
| WG585684CCV2    | CCV  | 03/15/24 0:29  | II240313-2 | 1      |        | .952  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585684CCB2    | CCB  | 03/15/24 0:33  |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585684CCV3    | CCV  | 03/15/24 0:53  | II240313-2 | 1      |        | .941  | mg/L  | 94   | 90    | 110   |     |       |      |
| WG585684CCB3    | CCB  | 03/15/24 0:56  |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| <b>WG585802</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG585802ICV     | ICV  | 03/18/24 16:55 | II240305-3 | 2      |        | 1.911 | mg/L  | 96   | 95    | 105   |     |       |      |
| WG585802ICB     | ICB  | 03/18/24 17:01 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585802PQV     | PQV  | 03/18/24 17:04 | II240221-2 | .05005 |        | .051  | mg/L  | 102  | 70    | 130   |     |       |      |
| WG585802SIC     | SIC  | 03/18/24 17:07 | II240222-2 | .1001  |        | .107  | mg/L  | 107  | 80    | 120   |     |       |      |
| WG585802LFB     | LFB  | 03/18/24 17:14 | II240306-3 | .5005  |        | .498  | mg/L  | 100  | 85    | 115   |     |       |      |
| WG585802CCV1    | CCV  | 03/18/24 17:45 | II240313-2 | 1      |        | .95   | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585802CCB1    | CCB  | 03/18/24 17:48 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585802CCV2    | CCV  | 03/18/24 18:24 | II240313-2 | 1      |        | .962  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585802CCB2    | CCB  | 03/18/24 18:27 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| L86506-01AS     | AS   | 03/18/24 18:33 | II240306-3 | .5005  | U      | .508  | mg/L  | 101  | 85    | 115   |     |       |      |
| L86506-01ASD    | ASD  | 03/18/24 18:37 | II240306-3 | .5005  | U      | .516  | mg/L  | 103  | 85    | 115   | 2   | 20    |      |
| WG585802CCV3    | CCV  | 03/18/24 18:47 | II240313-2 | 1      |        | .961  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585802CCB3    | CCB  | 03/18/24 18:50 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |

**Fluoride**

SM4500F-C

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG586161</b> |      |                |            |       |        |       |       |      |       |       |     |       |      |
| WG586161ICV     | ICV  | 03/22/24 14:45 | WC240322-2 | 2.002 |        | 2.02  | mg/L  | 101  | 90    | 110   |     |       |      |
| WG586161ICB     | ICB  | 03/22/24 14:50 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG586161PQV     | PQV  | 03/22/24 14:56 | WC240314-1 | .35   |        | .36   | mg/L  | 103  | 50    | 150   |     |       |      |
| WG586161LFB     | LFB  | 03/22/24 15:04 | WC230825-1 | 5.005 |        | 5     | mg/L  | 100  | 90    | 110   |     |       |      |
| L86453-01AS     | AS   | 03/22/24 15:13 | WC230825-1 | 5.005 | .18    | 5.21  | mg/L  | 100  | 90    | 110   |     |       |      |
| L86453-01ASD    | ASD  | 03/22/24 15:19 | WC230825-1 | 5.005 | .18    | 5.21  | mg/L  | 100  | 90    | 110   | 0   | 20    |      |
| WG586161CCV1    | CCV  | 03/22/24 16:00 | WC240322-2 | 2.002 |        | 2.001 | mg/L  | 100  | 90    | 110   |     |       |      |
| WG586161CCB1    | CCB  | 03/22/24 16:08 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| L86455-02AS     | AS   | 03/22/24 16:41 | WC230825-1 | 5.005 | 6.34   | 11.51 | mg/L  | 103  | 90    | 110   |     |       |      |
| L86455-02ASD    | ASD  | 03/22/24 16:49 | WC230825-1 | 5.005 | 6.34   | 11.4  | mg/L  | 101  | 90    | 110   | 1   | 20    |      |
| WG586161CCV2    | CCV  | 03/22/24 17:18 | WC240322-2 | 2.002 |        | 2.105 | mg/L  | 105  | 90    | 110   |     |       |      |
| WG586161CCB2    | CCB  | 03/22/24 17:26 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG586161CCV3    | CCV  | 03/22/24 17:59 | WC240322-2 | 2.002 |        | 2.076 | mg/L  | 104  | 90    | 110   |     |       |      |
| WG586161CCB3    | CCB  | 03/22/24 18:07 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |

**GCC**

ACZ Project ID: **L86455**

*NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.*

**Iron, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC        | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585631</b> |      |                |            |           |        |       |       |      |       |       |     |       |      |
| WG585631ICV     | ICV  | 03/13/24 20:38 | II240305-3 | 2         |        | 1.946 | mg/L  | 97   | 95    | 105   |     |       |      |
| WG585631ICB     | ICB  | 03/13/24 20:44 |            |           |        | U     | mg/L  |      | -0.18 | 0.18  |     |       |      |
| WG585631PQV     | PQV  | 03/13/24 20:47 | II240221-2 | .15045    |        | .111  | mg/L  | 74   | 70    | 130   |     |       |      |
| WG585631SIC     | SIC  | 03/13/24 20:50 | II240222-2 | 200.75045 |        | 201.2 | mg/L  | 100  | 1     | 200   |     |       |      |
| WG585631LFB     | LFB  | 03/13/24 20:56 | II240306-3 | 1.003     |        | 1.004 | mg/L  | 100  | 85    | 115   |     |       |      |
| WG585631CCV1    | CCV  | 03/13/24 21:26 | II240313-2 | 1         |        | .94   | mg/L  | 94   | 90    | 110   |     |       |      |
| WG585631CCB1    | CCB  | 03/13/24 21:29 |            |           |        | U     | mg/L  |      | -0.18 | 0.18  |     |       |      |
| WG585631CCV2    | CCV  | 03/13/24 22:03 | II240313-2 | 1         |        | .944  | mg/L  | 94   | 90    | 110   |     |       |      |
| WG585631CCB2    | CCB  | 03/13/24 22:06 |            |           |        | U     | mg/L  |      | -0.18 | 0.18  |     |       |      |
| L86465-01AS     | AS   | 03/13/24 22:16 | II240306-3 | 1.003     | U      | 1.01  | mg/L  | 101  | 85    | 115   |     |       |      |
| L86465-01ASD    | ASD  | 03/13/24 22:18 | II240306-3 | 1.003     | U      | 1.028 | mg/L  | 102  | 85    | 115   | 2   | 20    |      |
| WG585631CCV3    | CCV  | 03/13/24 22:25 | II240313-2 | 1         |        | .945  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585631CCB3    | CCB  | 03/13/24 22:28 |            |           |        | U     | mg/L  |      | -0.18 | 0.18  |     |       |      |
| <b>WG585626</b> |      |                |            |           |        |       |       |      |       |       |     |       |      |
| WG585626ICV     | ICV  | 03/14/24 20:39 | II240305-3 | 2         |        | 1.984 | mg/L  | 99   | 95    | 105   |     |       |      |
| WG585626ICB     | ICB  | 03/14/24 20:44 |            |           |        | U     | mg/L  |      | -0.18 | 0.18  |     |       |      |
| WG585626PQV     | PQV  | 03/14/24 20:47 | II240221-2 | .15045    |        | .152  | mg/L  | 101  | 70    | 130   |     |       |      |
| WG585626SIC     | SIC  | 03/14/24 20:50 | II240222-2 | 200.75045 |        | 198.4 | mg/L  | 99   | 1     | 200   |     |       |      |
| WG585626LFB     | LFB  | 03/14/24 20:57 | II240306-3 | 1.003     |        | 1.052 | mg/L  | 105  | 85    | 115   |     |       |      |
| WG585626CCV1    | CCV  | 03/14/24 21:27 | II240313-2 | 1         |        | .989  | mg/L  | 99   | 90    | 110   |     |       |      |
| WG585626CCB1    | CCB  | 03/14/24 21:30 |            |           |        | U     | mg/L  |      | -0.18 | 0.18  |     |       |      |
| WG585626CCV2    | CCV  | 03/14/24 22:03 | II240313-2 | 1         |        | .991  | mg/L  | 99   | 90    | 110   |     |       |      |
| WG585626CCB2    | CCB  | 03/14/24 22:06 |            |           |        | U     | mg/L  |      | -0.18 | 0.18  |     |       |      |
| L86447-08AS     | AS   | 03/14/24 22:16 | II240306-3 | 1.003     | U      | 1.057 | mg/L  | 105  | 85    | 115   |     |       |      |
| L86447-08ASD    | ASD  | 03/14/24 22:19 | II240306-3 | 1.003     | U      | 1.062 | mg/L  | 106  | 85    | 115   | 0   | 20    |      |
| WG585626CCV3    | CCV  | 03/14/24 22:25 | II240313-2 | 1         |        | .984  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585626CCB3    | CCB  | 03/14/24 22:28 |            |           |        | U     | mg/L  |      | -0.18 | 0.18  |     |       |      |

**GCC**

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Lead, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG585937</b> |      |                |            |        |        |        |       |      |          |         |     |       |      |
| WG585937ICV     | ICV  | 03/19/24 20:31 | MS240109-5 | .05    |        | .05293 | mg/L  | 106  | 90       | 110     |     |       |      |
| WG585937ICB     | ICB  | 03/19/24 20:33 |            |        |        | U      | mg/L  |      | -0.00022 | 0.00022 |     |       |      |
| WG585937LFB     | LFB  | 03/19/24 20:35 | MS240213-3 | .05005 |        | .05333 | mg/L  | 107  | 85       | 115     |     |       |      |
| WG585937CCV1    | CCV  | 03/19/24 20:53 | MS240305-4 | .25025 |        | .25146 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585937CCB1    | CCB  | 03/19/24 20:55 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| L86453-08AS     | AS   | 03/19/24 21:11 | MS240213-3 | .05005 | U      | .05448 | mg/L  | 109  | 70       | 130     |     |       |      |
| L86453-08ASD    | ASD  | 03/19/24 21:13 | MS240213-3 | .05005 | U      | .05484 | mg/L  | 110  | 70       | 130     | 1   | 20    |      |
| WG585937CCV2    | CCV  | 03/19/24 21:15 | MS240305-4 | .25025 |        | .24947 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585937CCB2    | CCB  | 03/19/24 21:17 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG585937CCV3    | CCV  | 03/19/24 21:28 | MS240305-4 | .25025 |        | .25658 | mg/L  | 103  | 90       | 110     |     |       |      |
| WG585937CCB3    | CCB  | 03/19/24 21:29 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| <b>WG585938</b> |      |                |            |        |        |        |       |      |          |         |     |       |      |
| WG585938ICV     | ICV  | 03/19/24 21:46 | MS240109-5 | .05    |        | .0519  | mg/L  | 104  | 90       | 110     |     |       |      |
| WG585938ICB     | ICB  | 03/19/24 21:47 |            |        |        | U      | mg/L  |      | -0.00022 | 0.00022 |     |       |      |
| WG585938LFB     | LFB  | 03/19/24 21:49 | MS240213-3 | .05005 |        | .05137 | mg/L  | 103  | 85       | 115     |     |       |      |
| L86479-01AS     | AS   | 03/19/24 22:02 | MS240213-3 | .05005 | U      | .05418 | mg/L  | 108  | 70       | 130     |     |       |      |
| L86479-01ASD    | ASD  | 03/19/24 22:04 | MS240213-3 | .05005 | U      | .05318 | mg/L  | 106  | 70       | 130     | 2   | 20    |      |
| WG585938CCV1    | CCV  | 03/19/24 22:07 | MS240305-4 | .25025 |        | .25101 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585938CCB1    | CCB  | 03/19/24 22:09 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG585938CCV2    | CCV  | 03/19/24 22:29 | MS240305-4 | .25025 |        | .24955 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585938CCB2    | CCB  | 03/19/24 22:31 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG585938CCV3    | CCV  | 03/19/24 22:42 | MS240305-4 | .25025 |        | .24662 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG585938CCB3    | CCB  | 03/19/24 22:44 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |

**GCC**

ACZ Project ID: **L86455**

*NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.*

**Lithium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found  | Units | Rec% | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|--------|-------|------|--------|-------|-----|-------|------|
| <b>WG585631</b> |      |                |            |        |        |        |       |      |        |       |     |       |      |
| WG585631ICV     | ICV  | 03/13/24 20:38 | II240305-3 | 2      |        | 1.905  | mg/L  | 95   | 95     | 105   |     |       |      |
| WG585631ICB     | ICB  | 03/13/24 20:44 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585631PQV     | PQV  | 03/13/24 20:47 | II240221-2 | .04012 |        | .0385  | mg/L  | 96   | 70     | 130   |     |       |      |
| WG585631SIC     | SIC  | 03/13/24 20:50 | II240222-2 | .10012 |        | .1006  | mg/L  | 100  | 80     | 120   |     |       |      |
| WG585631LFB     | LFB  | 03/13/24 20:56 | II240306-3 | 1      |        | .9633  | mg/L  | 96   | 85     | 115   |     |       |      |
| WG585631CCV1    | CCV  | 03/13/24 21:26 | II240313-2 | 1      |        | .9509  | mg/L  | 95   | 90     | 110   |     |       |      |
| WG585631CCB1    | CCB  | 03/13/24 21:29 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585631CCV2    | CCV  | 03/13/24 22:03 | II240313-2 | 1      |        | .9551  | mg/L  | 96   | 90     | 110   |     |       |      |
| WG585631CCB2    | CCB  | 03/13/24 22:06 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| L86465-01AS     | AS   | 03/13/24 22:16 | II240306-3 | 1      | .0223  | .9976  | mg/L  | 98   | 85     | 115   |     |       |      |
| L86465-01ASD    | ASD  | 03/13/24 22:18 | II240306-3 | 1      | .0223  | 1.017  | mg/L  | 99   | 85     | 115   | 2   | 20    |      |
| WG585631CCV3    | CCV  | 03/13/24 22:25 | II240313-2 | 1      |        | .9611  | mg/L  | 96   | 90     | 110   |     |       |      |
| WG585631CCB3    | CCB  | 03/13/24 22:28 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| <b>WG585626</b> |      |                |            |        |        |        |       |      |        |       |     |       |      |
| WG585626ICV     | ICV  | 03/14/24 20:39 | II240305-3 | 2      |        | 1.9475 | mg/L  | 97   | 95     | 105   |     |       |      |
| WG585626ICB     | ICB  | 03/14/24 20:44 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585626PQV     | PQV  | 03/14/24 20:47 | II240221-2 | .04012 |        | .0443  | mg/L  | 110  | 70     | 130   |     |       |      |
| WG585626SIC     | SIC  | 03/14/24 20:50 | II240222-2 | .10012 |        | .1061  | mg/L  | 106  | 80     | 120   |     |       |      |
| WG585626LFB     | LFB  | 03/14/24 20:57 | II240306-3 | 1      |        | .9904  | mg/L  | 99   | 85     | 115   |     |       |      |
| WG585626CCV1    | CCV  | 03/14/24 21:27 | II240313-2 | 1      |        | .9675  | mg/L  | 97   | 90     | 110   |     |       |      |
| WG585626CCB1    | CCB  | 03/14/24 21:30 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585626CCV2    | CCV  | 03/14/24 22:03 | II240313-2 | 1      |        | .9709  | mg/L  | 97   | 90     | 110   |     |       |      |
| WG585626CCB2    | CCB  | 03/14/24 22:06 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| L86447-08AS     | AS   | 03/14/24 22:16 | II240306-3 | 1      | U      | 1      | mg/L  | 100  | 85     | 115   |     |       |      |
| L86447-08ASD    | ASD  | 03/14/24 22:19 | II240306-3 | 1      | U      | 1.015  | mg/L  | 102  | 85     | 115   | 1   | 20    |      |
| WG585626CCV3    | CCV  | 03/14/24 22:25 | II240313-2 | 1      |        | .9741  | mg/L  | 97   | 90     | 110   |     |       |      |
| WG585626CCB3    | CCB  | 03/14/24 22:28 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |

**GCC**

ACZ Project ID: **L86455**

*NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.*

**Magnesium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585631</b> |      |                |            |          |        |       |       |      |       |       |     |       |      |
| WG585631ICV     | ICV  | 03/13/24 20:38 | II240305-3 | 100      |        | 95.79 | mg/L  | 96   | 95    | 105   |     |       |      |
| WG585631ICB     | ICB  | 03/13/24 20:44 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| WG585631PQV     | PQV  | 03/13/24 20:47 | II240221-2 | 1.006    |        | .96   | mg/L  | 95   | 70    | 130   |     |       |      |
| WG585631SIC     | SIC  | 03/13/24 20:50 | II240222-2 | 202.206  |        | 204.6 | mg/L  | 101  | 1     | 200   |     |       |      |
| WG585631LFB     | LFB  | 03/13/24 20:56 | II240306-3 | 50.00453 |        | 49.35 | mg/L  | 99   | 85    | 115   |     |       |      |
| WG585631CCV1    | CCV  | 03/13/24 21:26 | II240313-2 | 50       |        | 47.76 | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585631CCB1    | CCB  | 03/13/24 21:29 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| WG585631CCV2    | CCV  | 03/13/24 22:03 | II240313-2 | 50       |        | 47.94 | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585631CCB2    | CCB  | 03/13/24 22:06 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| L86465-01AS     | AS   | 03/13/24 22:16 | II240306-3 | 50.00453 | 27     | 75.91 | mg/L  | 98   | 85    | 115   |     |       |      |
| L86465-01ASD    | ASD  | 03/13/24 22:18 | II240306-3 | 50.00453 | 27     | 74.76 | mg/L  | 96   | 85    | 115   | 2   | 20    |      |
| WG585631CCV3    | CCV  | 03/13/24 22:25 | II240313-2 | 50       |        | 47.92 | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585631CCB3    | CCB  | 03/13/24 22:28 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| <b>WG585626</b> |      |                |            |          |        |       |       |      |       |       |     |       |      |
| WG585626ICV     | ICV  | 03/14/24 20:39 | II240305-3 | 100      |        | 96.93 | mg/L  | 97   | 95    | 105   |     |       |      |
| WG585626ICB     | ICB  | 03/14/24 20:44 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| WG585626PQV     | PQV  | 03/14/24 20:47 | II240221-2 | 1.006    |        | 1.05  | mg/L  | 104  | 70    | 130   |     |       |      |
| WG585626SIC     | SIC  | 03/14/24 20:50 | II240222-2 | 202.206  |        | 203.3 | mg/L  | 101  | 1     | 200   |     |       |      |
| WG585626LFB     | LFB  | 03/14/24 20:57 | II240306-3 | 50.00453 |        | 50.45 | mg/L  | 101  | 85    | 115   |     |       |      |
| WG585626CCV1    | CCV  | 03/14/24 21:27 | II240313-2 | 50       |        | 48.41 | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585626CCB1    | CCB  | 03/14/24 21:30 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| WG585626CCV2    | CCV  | 03/14/24 22:03 | II240313-2 | 50       |        | 48.47 | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585626CCB2    | CCB  | 03/14/24 22:06 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| L86447-08AS     | AS   | 03/14/24 22:16 | II240306-3 | 50.00453 | U      | 51.14 | mg/L  | 102  | 85    | 115   |     |       |      |
| L86447-08ASD    | ASD  | 03/14/24 22:19 | II240306-3 | 50.00453 | U      | 51.05 | mg/L  | 102  | 85    | 115   | 0   | 20    |      |
| WG585626CCV3    | CCV  | 03/14/24 22:25 | II240313-2 | 50       |        | 48.54 | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585626CCB3    | CCB  | 03/14/24 22:28 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |

GCC

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Manganese, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC      | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|---------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585631</b> |      |                |            |         |        |       |       |      |       |       |     |       |      |
| WG585631ICV     | ICV  | 03/13/24 20:38 | II240305-3 | 2       |        | 1.893 | mg/L  | 95   | 95    | 105   |     |       |      |
| WG585631ICB     | ICB  | 03/13/24 20:44 |            |         |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585631PQV     | PQV  | 03/13/24 20:47 | II240221-2 | .0502   |        | .038  | mg/L  | 76   | 70    | 130   |     |       |      |
| WG585631SIC     | SIC  | 03/13/24 20:50 | II240222-2 | 50.1502 |        | 47.71 | mg/L  | 95   | 1     | 200   |     |       |      |
| WG585631LFB     | LFB  | 03/13/24 20:56 | II240306-3 | .501    |        | .488  | mg/L  | 97   | 85    | 115   |     |       |      |
| WG585631CCV1    | CCV  | 03/13/24 21:26 | II240313-2 | 1       |        | .943  | mg/L  | 94   | 90    | 110   |     |       |      |
| WG585631CCB1    | CCB  | 03/13/24 21:29 |            |         |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585631CCV2    | CCV  | 03/13/24 22:03 | II240313-2 | 1       |        | .947  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585631CCB2    | CCB  | 03/13/24 22:06 |            |         |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| L86465-01AS     | AS   | 03/13/24 22:16 | II240306-3 | .501    | U      | .505  | mg/L  | 101  | 85    | 115   |     |       |      |
| L86465-01ASD    | ASD  | 03/13/24 22:18 | II240306-3 | .501    | U      | .508  | mg/L  | 101  | 85    | 115   | 1   | 20    |      |
| WG585631CCV3    | CCV  | 03/13/24 22:25 | II240313-2 | 1       |        | .949  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585631CCB3    | CCB  | 03/13/24 22:28 |            |         |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| <b>WG585626</b> |      |                |            |         |        |       |       |      |       |       |     |       |      |
| WG585626ICV     | ICV  | 03/14/24 20:39 | II240305-3 | 2       |        | 1.92  | mg/L  | 96   | 95    | 105   |     |       |      |
| WG585626ICB     | ICB  | 03/14/24 20:44 |            |         |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585626PQV     | PQV  | 03/14/24 20:47 | II240221-2 | .0502   |        | .049  | mg/L  | 98   | 70    | 130   |     |       |      |
| WG585626SIC     | SIC  | 03/14/24 20:50 | II240222-2 | 50.1502 |        | 47.27 | mg/L  | 94   | 1     | 200   |     |       |      |
| WG585626LFB     | LFB  | 03/14/24 20:57 | II240306-3 | .501    |        | .504  | mg/L  | 101  | 85    | 115   |     |       |      |
| WG585626CCV1    | CCV  | 03/14/24 21:27 | II240313-2 | 1       |        | .958  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585626CCB1    | CCB  | 03/14/24 21:30 |            |         |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585626CCV2    | CCV  | 03/14/24 22:03 | II240313-2 | 1       |        | .965  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585626CCB2    | CCB  | 03/14/24 22:06 |            |         |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| L86447-08AS     | AS   | 03/14/24 22:16 | II240306-3 | .501    | U      | .513  | mg/L  | 102  | 85    | 115   |     |       |      |
| L86447-08ASD    | ASD  | 03/14/24 22:19 | II240306-3 | .501    | U      | .512  | mg/L  | 102  | 85    | 115   | 0   | 20    |      |
| WG585626CCV3    | CCV  | 03/14/24 22:25 | II240313-2 | 1       |        | .96   | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585626CCB3    | CCB  | 03/14/24 22:28 |            |         |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |

GCC

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Mercury, dissolved**

M245.1 CVAA

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC      | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|---------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG585635</b> |      |                |            |         |        |        |       |      |          |         |     |       |      |
| WG585635ICV     | ICV  | 03/14/24 16:01 | HG240226-3 | .005    |        | .00496 | mg/L  | 99   | 95       | 105     |     |       |      |
| WG585635ICB     | ICB  | 03/14/24 16:02 |            |         |        | U      | mg/L  |      | -0.0002  | 0.0002  |     |       |      |
| WG585635PQV     | PQV  | 03/14/24 16:03 | HG240313-2 | .001001 |        | .00086 | mg/L  | 86   | 70       | 130     |     |       |      |
| WG585635LRB     | LRB  | 03/14/24 16:03 |            |         |        | U      | mg/L  |      | -0.00044 | 0.00044 |     |       |      |
| WG585635LFB     | LFB  | 03/14/24 16:04 | HG240313-3 | .002002 |        | .00176 | mg/L  | 88   | 85       | 115     |     |       |      |
| WG585635CCV2    | CCV  | 03/14/24 16:14 | HG240226-3 | .005    |        | .00497 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG585635CCB2    | CCB  | 03/14/24 16:14 |            |         |        | U      | mg/L  |      | -0.0002  | 0.0002  |     |       |      |
| WG585635CCV3    | CCV  | 03/14/24 16:25 | HG240226-3 | .005    |        | .005   | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585635CCB3    | CCB  | 03/14/24 16:26 |            |         |        | U      | mg/L  |      | -0.0002  | 0.0002  |     |       |      |
| L86455-02LFM    | LFM  | 03/14/24 16:30 | HG240313-3 | .002002 | U      | .00101 | mg/L  | 50   | 85       | 115     |     |       | M2   |
| L86455-02LFMD   | LFMD | 03/14/24 16:30 | HG240313-3 | .002002 | U      | .00097 | mg/L  | 48   | 85       | 115     | 4   | 20    | M2   |
| WG585635CCV4    | CCV  | 03/14/24 16:33 | HG240226-3 | .005    |        | .00495 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG585635CCB4    | CCB  | 03/14/24 16:34 |            |         |        | U      | mg/L  |      | -0.0002  | 0.0002  |     |       |      |
| <b>WG585637</b> |      |                |            |         |        |        |       |      |          |         |     |       |      |
| WG585637ICV     | ICV  | 03/15/24 9:23  | HG240226-3 | .005    |        | .00479 | mg/L  | 96   | 95       | 105     |     |       |      |
| WG585637ICB     | ICB  | 03/15/24 9:24  |            |         |        | U      | mg/L  |      | -0.0002  | 0.0002  |     |       |      |
| <b>WG585638</b> |      |                |            |         |        |        |       |      |          |         |     |       |      |
| WG585638CCV1    | CCV  | 03/15/24 10:28 | HG240226-3 | .005    |        | .00464 | mg/L  | 93   | 90       | 110     |     |       |      |
| WG585638CCB1    | CCB  | 03/15/24 10:29 |            |         |        | U      | mg/L  |      | -0.0002  | 0.0002  |     |       |      |
| WG585638PQV     | PQV  | 03/15/24 10:30 | HG240313-2 | .001001 |        | .00092 | mg/L  | 92   | 70       | 130     |     |       |      |
| WG585638LRB     | LRB  | 03/15/24 10:31 |            |         |        | U      | mg/L  |      | -0.00044 | 0.00044 |     |       |      |
| WG585638LFB     | LFB  | 03/15/24 10:32 | HG240313-3 | .002002 |        | .00179 | mg/L  | 89   | 85       | 115     |     |       |      |
| WG585638CCV2    | CCV  | 03/15/24 10:39 | HG240226-3 | .005    |        | .00463 | mg/L  | 93   | 90       | 110     |     |       |      |
| WG585638CCB2    | CCB  | 03/15/24 10:40 |            |         |        | U      | mg/L  |      | -0.0002  | 0.0002  |     |       |      |
| WG585638CCV3    | CCV  | 03/15/24 10:51 | HG240226-3 | .005    |        | .00454 | mg/L  | 91   | 90       | 110     |     |       |      |
| WG585638CCB3    | CCB  | 03/15/24 10:52 |            |         |        | U      | mg/L  |      | -0.0002  | 0.0002  |     |       |      |
| L86455-06LFM    | LFM  | 03/15/24 10:54 | HG240313-3 | .002002 | U      | .00191 | mg/L  | 95   | 85       | 115     |     |       |      |
| L86455-06LFMD   | LFMD | 03/15/24 10:55 | HG240313-3 | .002002 | U      | .00189 | mg/L  | 94   | 85       | 115     | 1   | 20    |      |
| WG585638CCV4    | CCV  | 03/15/24 10:59 | HG240226-3 | .005    |        | .00455 | mg/L  | 91   | 90       | 110     |     |       |      |
| WG585638CCB4    | CCB  | 03/15/24 11:00 |            |         |        | U      | mg/L  |      | -0.0002  | 0.0002  |     |       |      |

**GCC**

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Nickel, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found  | Units | Rec% | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|--------|-------|------|--------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |        |        |        |       |      |        |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 2.004  |        | 1.9595 | mg/L  | 98   | 95     | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | .04    |        | .0397  | mg/L  | 99   | 70     | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | .10012 |        | .0925  | mg/L  | 92   | 80     | 120   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | .501   |        | .511   | mg/L  | 102  | 85     | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | .501   | U      | .5128  | mg/L  | 102  | 85     | 115   |     |       |      |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | .501   | U      | .5089  | mg/L  | 102  | 85     | 115   | 1   | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 1.002  |        | .9711  | mg/L  | 97   | 90     | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 1.002  |        | .9637  | mg/L  | 96   | 90     | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 1.002  |        | .9721  | mg/L  | 97   | 90     | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| <b>WG585626</b> |      |                |            |        |        |        |       |      |        |       |     |       |      |
| WG585626ICV     | ICV  | 03/14/24 20:39 | II240305-3 | 2.004  |        | 1.9392 | mg/L  | 97   | 95     | 105   |     |       |      |
| WG585626ICB     | ICB  | 03/14/24 20:44 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585626PQV     | PQV  | 03/14/24 20:47 | II240221-2 | .04    |        | .0356  | mg/L  | 89   | 70     | 130   |     |       |      |
| WG585626SIC     | SIC  | 03/14/24 20:50 | II240222-2 | .10012 |        | .0922  | mg/L  | 92   | 80     | 120   |     |       |      |
| WG585626LFB     | LFB  | 03/14/24 20:57 | II240306-3 | .501   |        | .5072  | mg/L  | 101  | 85     | 115   |     |       |      |
| WG585626CCV1    | CCV  | 03/14/24 21:27 | II240313-2 | 1.002  |        | .9664  | mg/L  | 96   | 90     | 110   |     |       |      |
| WG585626CCB1    | CCB  | 03/14/24 21:30 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585626CCV2    | CCV  | 03/14/24 22:03 | II240313-2 | 1.002  |        | .9766  | mg/L  | 97   | 90     | 110   |     |       |      |
| WG585626CCB2    | CCB  | 03/14/24 22:06 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| L86447-08AS     | AS   | 03/14/24 22:16 | II240306-3 | .501   | U      | .5101  | mg/L  | 102  | 85     | 115   |     |       |      |
| L86447-08ASD    | ASD  | 03/14/24 22:19 | II240306-3 | .501   | U      | .5198  | mg/L  | 104  | 85     | 115   | 2   | 20    |      |
| WG585626CCV3    | CCV  | 03/14/24 22:25 | II240313-2 | 1.002  |        | .9804  | mg/L  | 98   | 90     | 110   |     |       |      |
| WG585626CCB3    | CCB  | 03/14/24 22:28 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| <b>WG585684</b> |      |                |            |        |        |        |       |      |        |       |     |       |      |
| WG585684ICV     | ICV  | 03/14/24 23:01 | II240305-3 | 2.004  |        | 1.919  | mg/L  | 96   | 95     | 105   |     |       |      |
| WG585684ICB     | ICB  | 03/14/24 23:07 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585684PQV     | PQV  | 03/14/24 23:10 | II240221-2 | .04    |        | .0389  | mg/L  | 97   | 70     | 130   |     |       |      |
| WG585684SIC     | SIC  | 03/14/24 23:13 | II240222-2 | .10012 |        | .0945  | mg/L  | 94   | 80     | 120   |     |       |      |
| WG585684LFB     | LFB  | 03/14/24 23:20 | II240306-3 | .501   |        | .5078  | mg/L  | 101  | 85     | 115   |     |       |      |
| WG585684CCV1    | CCV  | 03/14/24 23:52 | II240313-2 | 1.002  |        | .9647  | mg/L  | 96   | 90     | 110   |     |       |      |
| WG585684CCB1    | CCB  | 03/14/24 23:55 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| L85240-12AS     | AS   | 03/15/24 0:17  | II240306-3 | .501   | .034   | .5366  | mg/L  | 100  | 85     | 115   |     |       |      |
| L85240-12ASD    | ASD  | 03/15/24 0:20  | II240306-3 | .501   | .034   | .5426  | mg/L  | 102  | 85     | 115   | 1   | 20    |      |
| WG585684CCV2    | CCV  | 03/15/24 0:29  | II240313-2 | 1.002  |        | .9649  | mg/L  | 96   | 90     | 110   |     |       |      |
| WG585684CCB2    | CCB  | 03/15/24 0:33  |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585684CCV3    | CCV  | 03/15/24 0:53  | II240313-2 | 1.002  |        | .9523  | mg/L  | 95   | 90     | 110   |     |       |      |
| WG585684CCB3    | CCB  | 03/15/24 0:56  |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |

GCC

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Nitrate/Nitrite as N**

EPA 353.2 - Automated Cadmium Reduction

| ACZ ID          | Type | Analyzed       | PCN/SCN     | QC    | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|-------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585555</b> |      |                |             |       |        |       |       |      |       |       |     |       |      |
| WG585555ICV     | ICV  | 03/12/24 23:54 | WI240103-7  | 2.416 |        | 2.449 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG585555ICB     | ICB  | 03/12/24 23:56 |             |       |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |
| WG585555PQV     | PQV  | 03/12/24 23:59 | WI240228-18 | .1    |        | .106  | mg/L  | 106  | 70    | 130   |     |       |      |
| WG585555LFB     | LFB  | 03/13/24 0:01  | WI240228-17 | 2     |        | 2.025 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG585555CCV1    | CCV  | 03/13/24 0:09  | WI240306-9  | 2     |        | 2.023 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG585555CCB1    | CCB  | 03/13/24 0:13  |             |       |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |
| WG585555CCV2    | CCV  | 03/13/24 0:26  | WI240306-9  | 2     |        | 2.033 | mg/L  | 102  | 90    | 110   |     |       |      |
| WG585555CCB2    | CCB  | 03/13/24 0:30  |             |       |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |
| L86427-02AS     | AS   | 03/13/24 0:32  | WI240228-17 | 6     | 3.54   | 9.489 | mg/L  | 99   | 90    | 110   |     |       |      |
| L86455-01DUP    | DUP  | 03/13/24 0:35  |             |       | U      | U     | mg/L  |      |       |       | 0   | 20    | RA   |
| WG585555CCV3    | CCV  | 03/13/24 0:45  | WI240306-9  | 2     |        | 2.075 | mg/L  | 104  | 90    | 110   |     |       |      |
| WG585555CCB3    | CCB  | 03/13/24 0:49  |             |       |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |
| WG585555CCV4    | CCV  | 03/13/24 2:18  | WI240306-9  | 2     |        | 2.053 | mg/L  | 103  | 90    | 110   |     |       |      |
| WG585555CCB4    | CCB  | 03/13/24 2:21  |             |       |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |
| WG585555CCV5    | CCV  | 03/13/24 2:31  | WI240306-9  | 2     |        | 2.046 | mg/L  | 102  | 90    | 110   |     |       |      |
| WG585555CCB5    | CCB  | 03/13/24 2:35  |             |       |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |

**Nitrite as N**

EPA 353.2 - Automated Cadmium Reduction

| ACZ ID          | Type | Analyzed       | PCN/SCN     | QC   | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|-------------|------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585555</b> |      |                |             |      |        |       |       |      |       |       |     |       |      |
| WG585555ICV     | ICV  | 03/12/24 23:54 | WI240103-7  | .608 |        | .615  | mg/L  | 101  | 90    | 110   |     |       |      |
| WG585555ICB     | ICB  | 03/12/24 23:56 |             |      |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG585555PQV     | PQV  | 03/12/24 23:59 | WI240228-18 | .05  |        | .049  | mg/L  | 98   | 70    | 130   |     |       |      |
| WG585555LFB     | LFB  | 03/13/24 0:01  | WI240228-17 | 1    |        | 1.008 | mg/L  | 101  | 90    | 110   |     |       |      |
| L86427-02AS     | AS   | 03/13/24 0:03  | WI240228-17 | 1    | U      | .996  | mg/L  | 100  | 90    | 110   |     |       |      |
| L86455-01DUP    | DUP  | 03/13/24 0:06  |             |      | U      | U     | mg/L  |      |       |       | 0   | 20    | RA   |
| WG585555CCV1    | CCV  | 03/13/24 0:09  | WI240306-9  | 1    |        | .989  | mg/L  | 99   | 90    | 110   |     |       |      |
| WG585555CCB1    | CCB  | 03/13/24 0:13  |             |      |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG585555CCV2    | CCV  | 03/13/24 0:26  | WI240306-9  | 1    |        | 1.01  | mg/L  | 101  | 90    | 110   |     |       |      |
| WG585555CCB2    | CCB  | 03/13/24 0:30  |             |      |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG585555CCV3    | CCV  | 03/13/24 0:45  | WI240306-9  | 1    |        | 1.006 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG585555CCB3    | CCB  | 03/13/24 0:49  |             |      |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG585555CCV4    | CCV  | 03/13/24 2:18  | WI240306-9  | 1    |        | .993  | mg/L  | 99   | 90    | 110   |     |       |      |
| WG585555CCB4    | CCB  | 03/13/24 2:21  |             |      |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG585555CCV5    | CCV  | 03/13/24 2:31  | WI240306-9  | 1    |        | .996  | mg/L  | 100  | 90    | 110   |     |       |      |
| WG585555CCB5    | CCB  | 03/13/24 2:35  |             |      |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |

GCC

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Potassium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585631</b> |      |                |            |          |        |       |       |      |       |       |     |       |      |
| WG585631ICV     | ICV  | 03/13/24 20:38 | II240305-3 | 20       |        | 19.05 | mg/L  | 95   | 95    | 105   |     |       |      |
| WG585631ICB     | ICB  | 03/13/24 20:44 |            |          |        | U     | mg/L  |      | -1.5  | 1.5   |     |       |      |
| WG585631PQV     | PQV  | 03/13/24 20:47 | II240221-2 | 1.004    |        | 1.06  | mg/L  | 106  | 70    | 130   |     |       |      |
| WG585631SIC     | SIC  | 03/13/24 20:50 | II240222-2 | 1.004    |        | 1.04  | mg/L  | 104  | 80    | 120   |     |       |      |
| WG585631LFB     | LFB  | 03/13/24 20:56 | II240306-3 | 100.0104 |        | 97.38 | mg/L  | 97   | 85    | 115   |     |       |      |
| WG585631CCV1    | CCV  | 03/13/24 21:26 | II240313-2 | 10       |        | 9.58  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585631CCB1    | CCB  | 03/13/24 21:29 |            |          |        | U     | mg/L  |      | -1.5  | 1.5   |     |       |      |
| WG585631CCV2    | CCV  | 03/13/24 22:03 | II240313-2 | 10       |        | 9.62  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585631CCB2    | CCB  | 03/13/24 22:06 |            |          |        | U     | mg/L  |      | -1.5  | 1.5   |     |       |      |
| L86465-01AS     | AS   | 03/13/24 22:16 | II240306-3 | 100.0104 | 3.15   | 103   | mg/L  | 100  | 85    | 115   |     |       |      |
| L86465-01ASD    | ASD  | 03/13/24 22:18 | II240306-3 | 100.0104 | 3.15   | 101.7 | mg/L  | 99   | 85    | 115   | 1   | 20    |      |
| WG585631CCV3    | CCV  | 03/13/24 22:25 | II240313-2 | 10       |        | 9.68  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585631CCB3    | CCB  | 03/13/24 22:28 |            |          |        | U     | mg/L  |      | -1.5  | 1.5   |     |       |      |
| <b>WG585626</b> |      |                |            |          |        |       |       |      |       |       |     |       |      |
| WG585626ICV     | ICV  | 03/14/24 20:39 | II240305-3 | 20       |        | 19.49 | mg/L  | 97   | 95    | 105   |     |       |      |
| WG585626ICB     | ICB  | 03/14/24 20:44 |            |          |        | U     | mg/L  |      | -1.5  | 1.5   |     |       |      |
| WG585626PQV     | PQV  | 03/14/24 20:47 | II240221-2 | 1.004    |        | 1.08  | mg/L  | 108  | 70    | 130   |     |       |      |
| WG585626SIC     | SIC  | 03/14/24 20:50 | II240222-2 | 1.004    |        | 1.11  | mg/L  | 111  | 80    | 120   |     |       |      |
| WG585626LFB     | LFB  | 03/14/24 20:57 | II240306-3 | 100.0104 |        | 100.2 | mg/L  | 100  | 85    | 115   |     |       |      |
| WG585626CCV1    | CCV  | 03/14/24 21:27 | II240313-2 | 10       |        | 9.75  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585626CCB1    | CCB  | 03/14/24 21:30 |            |          |        | U     | mg/L  |      | -1.5  | 1.5   |     |       |      |
| WG585626CCV2    | CCV  | 03/14/24 22:03 | II240313-2 | 10       |        | 9.77  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585626CCB2    | CCB  | 03/14/24 22:06 |            |          |        | U     | mg/L  |      | -1.5  | 1.5   |     |       |      |
| L86447-08AS     | AS   | 03/14/24 22:16 | II240306-3 | 100.0104 | U      | 102.3 | mg/L  | 102  | 85    | 115   |     |       |      |
| L86447-08ASD    | ASD  | 03/14/24 22:19 | II240306-3 | 100.0104 | U      | 102.1 | mg/L  | 102  | 85    | 115   | 0   | 20    |      |
| WG585626CCV3    | CCV  | 03/14/24 22:25 | II240313-2 | 10       |        | 9.78  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585626CCB3    | CCB  | 03/14/24 22:28 |            |          |        | U     | mg/L  |      | -1.5  | 1.5   |     |       |      |

**Residue, Filterable (TDS) @180C**

SM2540C

| ACZ ID          | Type | Analyzed       | PCN/SCN   | QC   | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|-----------|------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585762</b> |      |                |           |      |        |       |       |      |       |       |     |       |      |
| WG585762PBW     | PBW  | 03/15/24 13:15 |           |      |        | U     | mg/L  |      | -20   | 20    |     |       |      |
| WG585762LCSW    | LCSW | 03/15/24 13:16 | PCN626249 | 1000 |        | 1006  | mg/L  | 101  | 80    | 120   |     |       |      |
| L86464-01DUP    | DUP  | 03/15/24 13:38 |           |      | 1070   | 1044  | mg/L  |      |       |       | 2   | 10    |      |
| <b>WG585907</b> |      |                |           |      |        |       |       |      |       |       |     |       |      |
| WG585907PBW     | PBW  | 03/19/24 9:40  |           |      |        | U     | mg/L  |      | -20   | 20    |     |       |      |
| WG585907LCSW    | LCSW | 03/19/24 9:43  | PCN626253 | 1000 |        | 992   | mg/L  | 99   | 80    | 120   |     |       |      |
| L86486-02DUP    | DUP  | 03/19/24 10:21 |           |      | 8960   | 9000  | mg/L  |      |       |       | 0   | 10    |      |

**GCC**

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Selenium, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG585937</b> |      |                |            |        |        |        |       |      |          |         |     |       |      |
| WG585937ICV     | ICV  | 03/19/24 20:31 | MS240109-5 | .05    |        | .05398 | mg/L  | 108  | 90       | 110     |     |       |      |
| WG585937ICB     | ICB  | 03/19/24 20:33 |            |        |        | U      | mg/L  |      | -0.00022 | 0.00022 |     |       |      |
| WG585937LFB     | LFB  | 03/19/24 20:35 | MS240213-3 | .05005 |        | .05398 | mg/L  | 108  | 85       | 115     |     |       |      |
| WG585937CCV1    | CCV  | 03/19/24 20:53 | MS240305-4 | .1001  |        | .10424 | mg/L  | 104  | 90       | 110     |     |       |      |
| WG585937CCB1    | CCB  | 03/19/24 20:55 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| L86453-08AS     | AS   | 03/19/24 21:11 | MS240213-3 | .05005 | U      | .06149 | mg/L  | 123  | 70       | 130     |     |       |      |
| L86453-08ASD    | ASD  | 03/19/24 21:13 | MS240213-3 | .05005 | U      | .06079 | mg/L  | 121  | 70       | 130     | 1   | 20    |      |
| WG585937CCV2    | CCV  | 03/19/24 21:15 | MS240305-4 | .1001  |        | .10109 | mg/L  | 101  | 90       | 110     |     |       |      |
| WG585937CCB2    | CCB  | 03/19/24 21:17 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG585937CCV3    | CCV  | 03/19/24 21:28 | MS240305-4 | .1001  |        | .10279 | mg/L  | 103  | 90       | 110     |     |       |      |
| WG585937CCB3    | CCB  | 03/19/24 21:29 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| <b>WG585938</b> |      |                |            |        |        |        |       |      |          |         |     |       |      |
| WG585938ICV     | ICV  | 03/19/24 21:46 | MS240109-5 | .05    |        | .05086 | mg/L  | 102  | 90       | 110     |     |       |      |
| WG585938ICB     | ICB  | 03/19/24 21:47 |            |        |        | U      | mg/L  |      | -0.00022 | 0.00022 |     |       |      |
| WG585938LFB     | LFB  | 03/19/24 21:49 | MS240213-3 | .05005 |        | .05138 | mg/L  | 103  | 85       | 115     |     |       |      |
| L86479-01AS     | AS   | 03/19/24 22:02 | MS240213-3 | .05005 | U      | .05752 | mg/L  | 115  | 70       | 130     |     |       |      |
| L86479-01ASD    | ASD  | 03/19/24 22:04 | MS240213-3 | .05005 | U      | .05696 | mg/L  | 114  | 70       | 130     | 1   | 20    |      |
| WG585938CCV1    | CCV  | 03/19/24 22:07 | MS240305-4 | .1001  |        | .09974 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585938CCB1    | CCB  | 03/19/24 22:09 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG585938CCV2    | CCV  | 03/19/24 22:29 | MS240305-4 | .1001  |        | .09682 | mg/L  | 97   | 90       | 110     |     |       |      |
| WG585938CCB2    | CCB  | 03/19/24 22:31 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG585938CCV3    | CCV  | 03/19/24 22:42 | MS240305-4 | .1001  |        | .0958  | mg/L  | 96   | 90       | 110     |     |       |      |
| WG585938CCB3    | CCB  | 03/19/24 22:44 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |

GCC

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Sodium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585631</b> |      |                |            |          |        |       |       |      |       |       |     |       |      |
| WG585631ICV     | ICV  | 03/13/24 20:38 | II240305-3 | 100      |        | 95.94 | mg/L  | 96   | 95    | 105   |     |       |      |
| WG585631ICB     | ICB  | 03/13/24 20:44 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| WG585631PQV     | PQV  | 03/13/24 20:47 | II240221-2 | 1.005    |        | .95   | mg/L  | 95   | 70    | 130   |     |       |      |
| WG585631SIC     | SIC  | 03/13/24 20:50 | II240222-2 | 1.005    |        | .97   | mg/L  | 97   | 80    | 120   |     |       |      |
| WG585631LFB     | LFB  | 03/13/24 20:56 | II240306-3 | 99.96689 |        | 98.13 | mg/L  | 98   | 85    | 115   |     |       |      |
| WG585631CCV1    | CCV  | 03/13/24 21:26 | II240313-2 | 50       |        | 48.02 | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585631CCB1    | CCB  | 03/13/24 21:29 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| WG585631CCV2    | CCV  | 03/13/24 22:03 | II240313-2 | 50       |        | 48.12 | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585631CCB2    | CCB  | 03/13/24 22:06 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| L86465-01AS     | AS   | 03/13/24 22:16 | II240306-3 | 99.96689 | 61.7   | 160.4 | mg/L  | 99   | 85    | 115   |     |       |      |
| L86465-01ASD    | ASD  | 03/13/24 22:18 | II240306-3 | 99.96689 | 61.7   | 158.6 | mg/L  | 97   | 85    | 115   | 1   | 20    |      |
| WG585631CCV3    | CCV  | 03/13/24 22:25 | II240313-2 | 50       |        | 49.72 | mg/L  | 99   | 90    | 110   |     |       |      |
| WG585631CCB3    | CCB  | 03/13/24 22:28 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| <b>WG585802</b> |      |                |            |          |        |       |       |      |       |       |     |       |      |
| WG585802ICV     | ICV  | 03/18/24 16:55 | II240305-3 | 100      |        | 98.43 | mg/L  | 98   | 95    | 105   |     |       |      |
| WG585802ICB     | ICB  | 03/18/24 17:01 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| WG585802PQV     | PQV  | 03/18/24 17:04 | II240221-2 | 1.005    |        | 1.05  | mg/L  | 104  | 70    | 130   |     |       |      |
| WG585802SIC     | SIC  | 03/18/24 17:07 | II240222-2 | 1.005    |        | 1.15  | mg/L  | 114  | 80    | 120   |     |       |      |
| WG585802LFB     | LFB  | 03/18/24 17:14 | II240306-3 | 99.96689 |        | 99.01 | mg/L  | 99   | 85    | 115   |     |       |      |
| WG585802CCV1    | CCV  | 03/18/24 17:45 | II240313-2 | 50       |        | 48.99 | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585802CCB1    | CCB  | 03/18/24 17:48 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| WG585802CCV2    | CCV  | 03/18/24 18:24 | II240313-2 | 50       |        | 49.3  | mg/L  | 99   | 90    | 110   |     |       |      |
| WG585802CCB2    | CCB  | 03/18/24 18:27 |            |          |        | .22   | mg/L  |      | -0.6  | 0.6   |     |       |      |
| L86506-01AS     | AS   | 03/18/24 18:33 | II240306-3 | 99.96689 | 94.3   | 192.9 | mg/L  | 99   | 85    | 115   |     |       |      |
| L86506-01ASD    | ASD  | 03/18/24 18:37 | II240306-3 | 99.96689 | 94.3   | 186.6 | mg/L  | 92   | 85    | 115   | 3   | 20    |      |
| WG585802CCV3    | CCV  | 03/18/24 18:47 | II240313-2 | 50       |        | 49.25 | mg/L  | 99   | 90    | 110   |     |       |      |
| WG585802CCB3    | CCB  | 03/18/24 18:50 |            |          |        | .25   | mg/L  |      | -0.6  | 0.6   |     |       |      |

GCC

ACZ Project ID: **L86455**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

### Sulfate

ASTM D516-07/-11/-16

| ACZ ID          | Type | Analyzed       | PCN/SCN     | QC | Sample | Found  | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|-------------|----|--------|--------|-------|------|-------|-------|-----|-------|------|
| <b>WG585711</b> |      |                |             |    |        |        |       |      |       |       |     |       |      |
| WG585711ICV     | ICV  | 03/15/24 11:16 | WI240307-12 | 20 |        | 20.6   | mg/L  | 103  | 85    | 115   |     |       |      |
| WG585711ICB     | ICB  | 03/15/24 11:16 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585711CCV1    | CCV  | 03/15/24 11:28 | WI240304-1  | 25 |        | 25.4   | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585711CCB1    | CCB  | 03/15/24 11:28 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585711LFB     | LFB  | 03/15/24 11:28 | WI240304-2  | 10 |        | 10.3   | mg/L  | 103  | 85    | 115   |     |       |      |
| WG585711CCV2    | CCV  | 03/15/24 11:31 | WI240304-1  | 25 |        | 25.4   | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585711CCB2    | CCB  | 03/15/24 11:31 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585711CCV3    | CCV  | 03/15/24 11:35 | WI240304-1  | 25 |        | 24.9   | mg/L  | 100  | 85    | 115   |     |       |      |
| WG585711CCB3    | CCB  | 03/15/24 11:35 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585711CCV4    | CCV  | 03/15/24 11:39 | WI240304-1  | 25 |        | 25.7   | mg/L  | 103  | 85    | 115   |     |       |      |
| WG585711CCB4    | CCB  | 03/15/24 11:39 |             |    |        | 1.2    | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585711CCV5    | CCV  | 03/15/24 11:44 | WI240304-1  | 25 |        | 25.4   | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585711CCB5    | CCB  | 03/15/24 11:44 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585711CCV6    | CCV  | 03/15/24 11:49 | WI240304-1  | 25 |        | 24.9   | mg/L  | 100  | 85    | 115   |     |       |      |
| WG585711CCB6    | CCB  | 03/15/24 11:50 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585711CCV7    | CCV  | 03/15/24 11:53 | WI240304-1  | 25 |        | 25.4   | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585711CCB7    | CCB  | 03/15/24 11:53 |             |    |        | 1.9    | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585711CCV8    | CCV  | 03/15/24 11:55 | WI240304-1  | 25 |        | 25.2   | mg/L  | 101  | 85    | 115   |     |       |      |
| WG585711CCB8    | CCB  | 03/15/24 11:55 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585711CCV9    | CCV  | 03/15/24 11:56 | WI240304-1  | 25 |        | 25     | mg/L  | 100  | 85    | 115   |     |       |      |
| WG585711CCB9    | CCB  | 03/15/24 11:57 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585711CCV12   | CCV  | 03/15/24 12:00 | WI240304-1  | 25 |        | 25.5   | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585711CCB12   | CCB  | 03/15/24 12:00 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585711CCV13   | CCV  | 03/15/24 12:04 | WI240304-1  | 25 |        | 25.5   | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585711CCB13   | CCB  | 03/15/24 12:05 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585711CCV14   | CCV  | 03/15/24 12:06 | WI240304-1  | 25 |        | 25.4   | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585711CCB14   | CCB  | 03/15/24 12:06 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| L86455-04AS     | AS   | 03/15/24 12:09 | SO4TURB     | 10 | 3140   | 3083.8 | mg/L  | -562 | 85    | 115   |     |       | M3   |
| WG585711CCV15   | CCV  | 03/15/24 12:09 | WI240304-1  | 25 |        | 25.5   | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585711CCB15   | CCB  | 03/15/24 12:10 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585711CCV16   | CCV  | 03/15/24 12:12 | WI240304-1  | 25 |        | 25.4   | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585711CCB16   | CCB  | 03/15/24 12:12 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| L86455-04ASD    | ASD  | 03/15/24 12:18 | SO4TURB     | 10 | 3140   | 3127.3 | mg/L  | -127 | 85    | 115   | 1   | 20    | M3   |
| WG585711CCV17   | CCV  | 03/15/24 12:18 | WI240304-1  | 25 |        | 25.6   | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585711CCB17   | CCB  | 03/15/24 12:19 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| <b>WG585927</b> |      |                |             |    |        |        |       |      |       |       |     |       |      |
| WG585927ICV     | ICV  | 03/19/24 13:40 | WI240319-1  | 20 |        | 20.4   | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585927ICB     | ICB  | 03/19/24 13:40 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585927CCV1    | CCV  | 03/19/24 14:31 | WI240319-2  | 25 |        | 26     | mg/L  | 104  | 85    | 115   |     |       |      |
| WG585927CCB1    | CCB  | 03/19/24 14:31 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585927LFB     | LFB  | 03/19/24 14:32 | WI240304-2  | 10 |        | 10.4   | mg/L  | 104  | 85    | 115   |     |       |      |
| WG585927CCV2    | CCV  | 03/19/24 14:35 | WI240319-2  | 25 |        | 25.6   | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585927CCB2    | CCB  | 03/19/24 14:35 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585927CCV3    | CCV  | 03/19/24 14:38 | WI240319-2  | 25 |        | 26.3   | mg/L  | 105  | 85    | 115   |     |       |      |
| WG585927CCB3    | CCB  | 03/19/24 14:39 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585927CCV4    | CCV  | 03/19/24 14:41 | WI240319-2  | 25 |        | 26     | mg/L  | 104  | 85    | 115   |     |       |      |
| WG585927CCB4    | CCB  | 03/19/24 14:42 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585927CCV5    | CCV  | 03/19/24 14:44 | WI240319-2  | 25 |        | 26.1   | mg/L  | 104  | 85    | 115   |     |       |      |
| WG585927CCB5    | CCB  | 03/19/24 14:44 |             |    |        | U      | mg/L  |      | -2.5  | 2.5   |     |       |      |

**GCC**

ACZ Project ID: **L86455**

*NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.*

|               |     |                |            |    |     |       |      |     |      |     |   |    |    |
|---------------|-----|----------------|------------|----|-----|-------|------|-----|------|-----|---|----|----|
| WG585927CCV6  | CCV | 03/19/24 14:45 | WI240319-2 | 25 |     | 26    | mg/L | 104 | 85   | 115 |   |    |    |
| WG585927CCB6  | CCB | 03/19/24 14:46 |            |    |     | U     | mg/L |     | -2.5 | 2.5 |   |    |    |
| L86457-03AS   | AS  | 03/19/24 14:47 | SO4TURB5X  | 10 | 150 | 157.7 | mg/L | 77  | 85   | 115 |   |    | M3 |
| L86457-03ASD  | ASD | 03/19/24 14:48 | SO4TURB5X  | 10 | 150 | 156.8 | mg/L | 68  | 85   | 115 | 1 | 20 | M3 |
| WG585927CCV7  | CCV | 03/19/24 14:48 | WI240319-2 | 25 |     | 25.4  | mg/L | 102 | 85   | 115 |   |    |    |
| WG585927CCB7  | CCB | 03/19/24 14:48 |            |    |     | U     | mg/L |     | -2.5 | 2.5 |   |    |    |
| WG585927CCV9  | CCV | 03/19/24 14:51 | WI240319-2 | 25 |     | 25.8  | mg/L | 103 | 85   | 115 |   |    |    |
| WG585927CCB9  | CCB | 03/19/24 14:51 |            |    |     | U     | mg/L |     | -2.5 | 2.5 |   |    |    |
| WG585927CCV10 | CCV | 03/19/24 14:56 | WI240319-2 | 25 |     | 25.7  | mg/L | 103 | 85   | 115 |   |    |    |
| WG585927CCB10 | CCB | 03/19/24 14:56 |            |    |     | U     | mg/L |     | -2.5 | 2.5 |   |    |    |
| WG585927CCV12 | CCV | 03/19/24 15:09 | WI240319-2 | 25 |     | 25.7  | mg/L | 103 | 85   | 115 |   |    |    |
| WG585927CCB12 | CCB | 03/19/24 15:09 |            |    |     | U     | mg/L |     | -2.5 | 2.5 |   |    |    |
| WG585927CCV13 | CCV | 03/19/24 15:10 | WI240319-2 | 25 |     | 26    | mg/L | 104 | 85   | 115 |   |    |    |
| WG585927CCB13 | CCB | 03/19/24 15:10 |            |    |     | 1.3   | mg/L |     | -2.5 | 2.5 |   |    |    |

**Vanadium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC      | Sample | Found | Units | Rec% | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|---------|--------|-------|-------|------|--------|-------|-----|-------|------|
| <b>WG585631</b> |      |                |            |         |        |       |       |      |        |       |     |       |      |
| WG585631ICV     | ICV  | 03/13/24 20:38 | II240305-3 | 2       |        | 1.977 | mg/L  | 99   | 95     | 105   |     |       |      |
| WG585631ICB     | ICB  | 03/13/24 20:44 |            |         |        | U     | mg/L  |      | -0.015 | 0.015 |     |       |      |
| WG585631PQV     | PQV  | 03/13/24 20:47 | II240221-2 | .025025 |        | .026  | mg/L  | 104  | 70     | 130   |     |       |      |
| WG585631SIC     | SIC  | 03/13/24 20:50 | II240222-2 | .1001   |        | .091  | mg/L  | 91   | 80     | 120   |     |       |      |
| WG585631LFB     | LFB  | 03/13/24 20:56 | II240306-3 | .5005   |        | .5032 | mg/L  | 101  | 85     | 115   |     |       |      |
| WG585631CCV1    | CCV  | 03/13/24 21:26 | II240313-2 | 1       |        | .982  | mg/L  | 98   | 90     | 110   |     |       |      |
| WG585631CCB1    | CCB  | 03/13/24 21:29 |            |         |        | U     | mg/L  |      | -0.03  | 0.03  |     |       |      |
| WG585631CCV2    | CCV  | 03/13/24 22:03 | II240313-2 | 1       |        | .982  | mg/L  | 98   | 90     | 110   |     |       |      |
| WG585631CCB2    | CCB  | 03/13/24 22:06 |            |         |        | U     | mg/L  |      | -0.03  | 0.03  |     |       |      |
| L86465-01AS     | AS   | 03/13/24 22:16 | II240306-3 | .5005   | U      | .5084 | mg/L  | 102  | 85     | 115   |     |       |      |
| L86465-01ASD    | ASD  | 03/13/24 22:18 | II240306-3 | .5005   | U      | .5    | mg/L  | 100  | 85     | 115   | 2   | 20    |      |
| WG585631CCV3    | CCV  | 03/13/24 22:25 | II240313-2 | 1       |        | .99   | mg/L  | 99   | 90     | 110   |     |       |      |
| WG585631CCB3    | CCB  | 03/13/24 22:28 |            |         |        | U     | mg/L  |      | -0.03  | 0.03  |     |       |      |
| <b>WG585626</b> |      |                |            |         |        |       |       |      |        |       |     |       |      |
| WG585626ICV     | ICV  | 03/14/24 20:39 | II240305-3 | 2       |        | 2.011 | mg/L  | 101  | 95     | 105   |     |       |      |
| WG585626ICB     | ICB  | 03/14/24 20:44 |            |         |        | U     | mg/L  |      | -0.015 | 0.015 |     |       |      |
| WG585626PQV     | PQV  | 03/14/24 20:47 | II240221-2 | .025025 |        | .027  | mg/L  | 108  | 70     | 130   |     |       |      |
| WG585626SIC     | SIC  | 03/14/24 20:50 | II240222-2 | .1001   |        | .092  | mg/L  | 92   | 80     | 120   |     |       |      |
| WG585626LFB     | LFB  | 03/14/24 20:57 | II240306-3 | .5005   |        | .5166 | mg/L  | 103  | 85     | 115   |     |       |      |
| WG585626CCV1    | CCV  | 03/14/24 21:27 | II240313-2 | 1       |        | .993  | mg/L  | 99   | 90     | 110   |     |       |      |
| WG585626CCB1    | CCB  | 03/14/24 21:30 |            |         |        | U     | mg/L  |      | -0.03  | 0.03  |     |       |      |
| WG585626CCV2    | CCV  | 03/14/24 22:03 | II240313-2 | 1       |        | .996  | mg/L  | 100  | 90     | 110   |     |       |      |
| WG585626CCB2    | CCB  | 03/14/24 22:06 |            |         |        | U     | mg/L  |      | -0.03  | 0.03  |     |       |      |
| L86447-08AS     | AS   | 03/14/24 22:16 | II240306-3 | .5005   | U      | .523  | mg/L  | 104  | 85     | 115   |     |       |      |
| L86447-08ASD    | ASD  | 03/14/24 22:19 | II240306-3 | .5005   | U      | .525  | mg/L  | 105  | 85     | 115   | 0   | 20    |      |
| WG585626CCV3    | CCV  | 03/14/24 22:25 | II240313-2 | 1       |        | 1.001 | mg/L  | 100  | 90     | 110   |     |       |      |
| WG585626CCB3    | CCB  | 03/14/24 22:28 |            |         |        | U     | mg/L  |      | -0.03  | 0.03  |     |       |      |

**GCC**

ACZ Project ID: **L86455**

*NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.*

**Zinc, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585631</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG585631ICV     | ICV  | 03/13/24 20:38 | II240305-3 | 2      |        | 1.892 | mg/L  | 95   | 95    | 105   |     |       |      |
| WG585631ICB     | ICB  | 03/13/24 20:44 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG585631PQV     | PQV  | 03/13/24 20:47 | II240221-2 | .05005 |        | .051  | mg/L  | 102  | 70    | 130   |     |       |      |
| WG585631SIC     | SIC  | 03/13/24 20:50 | II240222-2 | .1001  |        | .096  | mg/L  | 96   | 80    | 120   |     |       |      |
| WG585631LFB     | LFB  | 03/13/24 20:56 | II240306-3 | .50045 |        | .511  | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585631CCV1    | CCV  | 03/13/24 21:26 | II240313-2 | 1      |        | .951  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585631CCB1    | CCB  | 03/13/24 21:29 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG585631CCV2    | CCV  | 03/13/24 22:03 | II240313-2 | 1      |        | .948  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585631CCB2    | CCB  | 03/13/24 22:06 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| L86465-01AS     | AS   | 03/13/24 22:16 | II240306-3 | .50045 | .021   | .527  | mg/L  | 101  | 85    | 115   |     |       |      |
| L86465-01ASD    | ASD  | 03/13/24 22:18 | II240306-3 | .50045 | .021   | .521  | mg/L  | 100  | 85    | 115   | 1   | 20    |      |
| WG585631CCV3    | CCV  | 03/13/24 22:25 | II240313-2 | 1      |        | .954  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585631CCB3    | CCB  | 03/13/24 22:28 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| <b>WG585626</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG585626ICV     | ICV  | 03/14/24 20:39 | II240305-3 | 2      |        | 1.929 | mg/L  | 96   | 95    | 105   |     |       |      |
| WG585626ICB     | ICB  | 03/14/24 20:44 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG585626PQV     | PQV  | 03/14/24 20:47 | II240221-2 | .05005 |        | .056  | mg/L  | 112  | 70    | 130   |     |       |      |
| WG585626SIC     | SIC  | 03/14/24 20:50 | II240222-2 | .1001  |        | .103  | mg/L  | 103  | 80    | 120   |     |       |      |
| WG585626LFB     | LFB  | 03/14/24 20:57 | II240306-3 | .50045 |        | .525  | mg/L  | 105  | 85    | 115   |     |       |      |
| WG585626CCV1    | CCV  | 03/14/24 21:27 | II240313-2 | 1      |        | .957  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585626CCB1    | CCB  | 03/14/24 21:30 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG585626CCV2    | CCV  | 03/14/24 22:03 | II240313-2 | 1      |        | .968  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585626CCB2    | CCB  | 03/14/24 22:06 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| L86447-08AS     | AS   | 03/14/24 22:16 | II240306-3 | .50045 | U      | .528  | mg/L  | 106  | 85    | 115   |     |       |      |
| L86447-08ASD    | ASD  | 03/14/24 22:19 | II240306-3 | .50045 | U      | .533  | mg/L  | 107  | 85    | 115   | 1   | 20    |      |
| WG585626CCV3    | CCV  | 03/14/24 22:25 | II240313-2 | 1      |        | .969  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585626CCB3    | CCB  | 03/14/24 22:28 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |

**GCC Rio Grande**

ACZ Project ID: **L86455**

| ACZ ID           | WORKNUM  | PARAMETER            | METHOD                                  | QUAL | DESCRIPTION                                                                                                                                                                                           |
|------------------|----------|----------------------|-----------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>L86455-01</b> | WG585615 | Chloride             | SM4500Cl-E                              | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.                                                                                             |
|                  | WG585635 | Mercury, dissolved   | M245.1 CVAA                             | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.                                                                                             |
|                  | WG585555 | Nitrate/Nitrite as N | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  |          | Nitrite as N         | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  | WG585937 | Selenium, dissolved  | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|                  |          |                      | M200.8 ICP-MS                           | EA   | Concentration estimated. Analytical result was less than the negative MDL due to matrix interferences.                                                                                                |
|                  | WG585711 | Sulfate              | ASTM D516-07/-11/-16                    | M3   | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
|                  | WG586165 | Total Alkalinity     | SM2320B - Titration                     | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
| <b>L86455-02</b> | WG585615 | Chloride             | SM4500Cl-E                              | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.                                                                                             |
|                  | WG585635 | Mercury, dissolved   | M245.1 CVAA                             | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.                                                                                             |
|                  | WG585555 | Nitrate/Nitrite as N | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  |          | Nitrite as N         | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  | WG585937 | Selenium, dissolved  | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|                  |          |                      | M200.8 ICP-MS                           | EA   | Concentration estimated. Analytical result was less than the negative MDL due to matrix interferences.                                                                                                |
|                  | WG585711 | Sulfate              | ASTM D516-07/-11/-16                    | M3   | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
|                  | WG586165 | Total Alkalinity     | SM2320B - Titration                     | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
| <b>L86455-03</b> | WG585615 | Chloride             | SM4500Cl-E                              | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.                                                                                             |
|                  | WG585555 | Nitrate/Nitrite as N | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  |          | Nitrite as N         | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  | WG585711 | Sulfate              | ASTM D516-07/-11/-16                    | M3   | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
|                  | WG586165 | Total Alkalinity     | SM2320B - Titration                     | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |

**GCC Rio Grande**

ACZ Project ID: **L86455**

| ACZ ID           | WORKNUM  | PARAMETER                       | METHOD                                  | QUAL | DESCRIPTION                                                                                                                                                                                           |
|------------------|----------|---------------------------------|-----------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>L86455-04</b> | WG585615 | Chloride                        | SM4500CI-E                              | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.                                                                                             |
|                  | WG585555 | Nitrate/Nitrite as N            | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  |          | Nitrite as N                    | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  | WG585711 | Sulfate                         | ASTM D516-07/-11/-16                    | M3   | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
|                  | WG586165 | Total Alkalinity                | SM2320B - Titration                     | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
| <b>L86455-05</b> | WG585938 | Arsenic, dissolved              | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|                  |          | Cadmium, dissolved              | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|                  | WG585615 | Chloride                        | SM4500CI-E                              | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.                                                                                             |
|                  | WG585938 | Cobalt, dissolved               | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|                  |          | Lead, dissolved                 | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|                  | WG585555 | Nitrate/Nitrite as N            | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  |          | Nitrite as N                    | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  | WG585938 | Selenium, dissolved             | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|                  | WG585927 | Sulfate                         | ASTM D516-07/-11/-16                    | M3   | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
|                  |          | Total Alkalinity                |                                         | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
| <b>L86455-06</b> | WG585938 | Arsenic, dissolved              | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|                  |          | Cadmium, dissolved              | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|                  | WG585615 | Chloride                        | SM4500CI-E                              | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.                                                                                             |
|                  | WG585938 | Lead, dissolved                 | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|                  | WG585555 | Nitrate/Nitrite as N            | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  |          | Nitrite as N                    | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  | WG585907 | Residue, Filterable (TDS) @180C | SM2540C                                 | H1   | Sample prep or analysis performed past holding time. See case narrative.                                                                                                                              |
|                  | WG585927 | Sulfate                         | ASTM D516-07/-11/-16                    | M3   | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
|                  |          | Total Alkalinity                |                                         | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |

**GCC Rio Grande**

ACZ Project ID: **L86455**

| ACZ ID           | WORKNUM  | PARAMETER                       | METHOD                                  | QUAL | DESCRIPTION                                                                                                                                                                                           |
|------------------|----------|---------------------------------|-----------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>L86455-07</b> | WG585615 | Chloride                        | SM4500Cl-E                              | M2   | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.                                                                                             |
|                  | WG585555 | Nitrate/Nitrite as N            | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  |          | Nitrite as N                    | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  | WG585762 | Residue, Filterable (TDS) @180C | SM2540C                                 | Z3   | Sample volume yielded a residue less than 2.5 mg                                                                                                                                                      |
|                  | WG585927 | Sulfate                         | ASTM D516-07/-11/-16                    | M3   | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
|                  | WG586165 | Total Alkalinity                | SM2320B - Titration                     | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |

**GCC Rio Grande**

ACZ Project ID: **L86455**

No certification qualifiers associated with this analysis

GCC Rio Grande

ACZ Project ID: L86455

Date Received: 03/12/2024 11:24

Received By:

Date Printed: 3/13/2024

**Receipt Verification**

|                                                                                             | YES                                 | NO                                  | NA                                  |
|---------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1) Is a foreign soil permit included for applicable samples?                                | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 2) Is the Chain of Custody form or other directive shipping papers present?                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3) Does this project require special handling procedures such as CLP protocol?              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 4) Are any samples NRC licensable material?                                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5) If samples are received past hold time, proceed with requested short hold time analyses? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6) Is the Chain of Custody form complete and accurate?                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

**Samples/Containers**

|                                                                                         | YES                                 | NO                       | NA                                  |
|-----------------------------------------------------------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 8) Are all containers intact and with no leaks?                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9) Are all labels on containers and are they intact and legible?                        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 11) For preserved bottle types, was the pH checked and within limits? <sup>1</sup>      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 12) Is there sufficient sample volume to perform all requested work?                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 13) Is the custody seal intact on all containers?                                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14) Are samples that require zero headspace acceptable?                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 15) Are all sample containers appropriate for analytical requirements?                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 16) Is there an Hg-1631 trip blank present?                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 17) Is there a VOA trip blank present?                                                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 18) Were all samples received within hold time?                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

NA indicates Not Applicable

**Chain of Custody Related Remarks**

**Client Contact Remarks**

**Shipping Containers**

| Cooler Id | Temp (°C) | Temp<br>Criteria (°C) | Rad (µR/Hr) | Custody Seal<br>Intact? |
|-----------|-----------|-----------------------|-------------|-------------------------|
| -----     | -----     | -----                 | -----       | -----                   |
| NA41403   | 1.2       | <=6.0                 | 15          | Yes                     |

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

GCC Rio Grande

ACZ Project ID: L86455

Date Received: 03/12/2024 11:24

Received By:

Date Printed: 3/13/2024

<sup>1</sup> The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Accredited  
Environmental  
Testing

2773 Downhill Drive  
Steamboat Springs, CO 80487  
(970) 879-6590

L86455

## CHAIN of CUSTODY

### Report to:

Name: Amy Rodrigues

Address: 3372 Lime Road

Company: GCC Rio Grande Inc

Pueblo CO 81004

E-mail: aveek@gcc.com

Telephone: 719-647-6861

### Copy of Report to:

Name: Landon Beck

E-mail: lbeck@resourcehydrogeologic.com

Company: Resource Hydrogeologic

Telephone: (970) 459-4865

### Invoice to:

Name: Amy Rodrigues

Address: 3372 Lime Road

Company: GCC Rio Grande Inc

Pueblo CO 81004

E-mail: aveek@gcc.com

Telephone: 719-647-6861

### Copy of invoice to:

Name:

Address:

Company:

Telephone:

E-mail:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES

NO

☒

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for SDWA Compliance Monitoring?

Yes

No

☒

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Amy Rodrigues

Sampler's Site Information

State CO

Zip code 81004

Time Zone MST

\*Sampler's Signature: *Amy Rodrigues*

I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

### PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: GW-COMPLIANCE

PO#: 258478

Reporting state for compliance testing:

Check box if samples include NRC licensed material?

☐

SAMPLE IDENTIFICATION

DATE:TIME

Matrix

# of Containers

GW-Compliance

MW-14

3/11/2024 10:47

GW

3

✓

MW-13

3/11/2024 11:37

GW

3

✓

MW-6

3/11/2024 13:12

GW

3

✓

MW-7

3/11/2024 13:39

GW

3

✓

MW-8

3/11/2024 14:14

GW

3

✓

MW-2B

3/11/2024 12:00

GW

3

✓

Method Blank

3/11/2024 12:30

GW

3

✓

Matrix

SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

### REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

*Amy Rodrigues*

3/11/24 15:40

*[Signature]*

3/12/24 11:24

Qualtrax ID: 1984

Revision #: 2

White - Return with sample.

Yellow - Retain for your records.

L86455 Chain of Custody

March 26, 2024

Report to:

Amy Rodrigues  
GCC Rio Grande  
3372 Lime Road  
Pueblo, CO 81004

cc: Landon Beck

Bill to:

Amy Rodrigues  
GCC Rio Grande  
3372 Lime Road  
Pueblo, CO 81004

Project ID:

ACZ Project ID: L86481

Amy Rodrigues:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 13, 2024. This project has been assigned to ACZ's project number, L86481. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L86481. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after March 26, 2025. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Sue Webber has reviewed and  
approved this report.



**GCC Rio Grande**

Project ID:

Sample ID: MW-11

ACZ Sample ID: **L86481-01**

Date Sampled: 03/12/24 09:21

Date Received: 03/13/24

Sample Matrix: Groundwater

## Metals Analysis

| Parameter            | EPA Method    | Dilution | Result   | Qual | XQ | Units | MDL     | PQL     | Date           | Analyst |
|----------------------|---------------|----------|----------|------|----|-------|---------|---------|----------------|---------|
| Aluminum, dissolved  | M200.7 ICP    | 1        | <0.05    | U    |    | mg/L  | 0.05    | 0.25    | 03/14/24 18:09 | brc     |
| Arsenic, dissolved   | M200.8 ICP-MS | 1        | 0.00021  | B    |    | mg/L  | 0.0002  | 0.001   | 03/19/24 22:16 | aps     |
| Beryllium, dissolved | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/14/24 18:09 | brc     |
| Boron, dissolved     | M200.7 ICP    | 1        | 0.435    |      |    | mg/L  | 0.03    | 0.1     | 03/14/24 18:09 | brc     |
| Cadmium, dissolved   | M200.8 ICP-MS | 1        | <0.00005 | U    |    | mg/L  | 0.00005 | 0.00025 | 03/19/24 22:16 | aps     |
| Calcium, dissolved   | M200.7 ICP    | 1        | 71.4     |      |    | mg/L  | 0.1     | 0.5     | 03/14/24 18:09 | brc     |
| Chromium, dissolved  | M200.7 ICP    | 1        | <0.02    | U    |    | mg/L  | 0.02    | 0.05    | 03/14/24 18:09 | brc     |
| Cobalt, dissolved    | M200.8 ICP-MS | 1        | 0.000789 |      |    | mg/L  | 0.00005 | 0.00025 | 03/19/24 22:16 | aps     |
| Copper, dissolved    | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.05    | 03/25/24 11:37 | wtc     |
| Iron, dissolved      | M200.7 ICP    | 1        | 0.165    |      | *  | mg/L  | 0.06    | 0.15    | 03/14/24 18:09 | brc     |
| Lead, dissolved      | M200.8 ICP-MS | 1        | <0.0001  | U    |    | mg/L  | 0.0001  | 0.0005  | 03/19/24 22:16 | aps     |
| Lithium, dissolved   | M200.7 ICP    | 1        | 0.136    |      |    | mg/L  | 0.008   | 0.04    | 03/14/24 18:09 | brc     |
| Magnesium, dissolved | M200.7 ICP    | 1        | 35.6     |      |    | mg/L  | 0.2     | 1       | 03/14/24 18:09 | brc     |
| Manganese, dissolved | M200.7 ICP    | 1        | 0.030    | B    |    | mg/L  | 0.01    | 0.05    | 03/14/24 18:09 | brc     |
| Mercury, dissolved   | M245.1 CVAA   | 1        | <0.0002  | U    |    | mg/L  | 0.0002  | 0.001   | 03/21/24 14:56 | aeH     |
| Nickel, dissolved    | M200.7 ICP    | 1        | <0.008   | U    |    | mg/L  | 0.008   | 0.04    | 03/14/24 18:09 | brc     |
| Potassium, dissolved | M200.7 ICP    | 1        | 3.45     |      |    | mg/L  | 0.5     | 1       | 03/14/24 18:09 | brc     |
| Selenium, dissolved  | M200.8 ICP-MS | 1        | <0.0001  | U    |    | mg/L  | 0.0001  | 0.00025 | 03/19/24 22:16 | aps     |
| Sodium, dissolved    | M200.7 ICP    | 1        | 414      |      |    | mg/L  | 0.2     | 1       | 03/14/24 18:09 | brc     |
| Vanadium, dissolved  | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01    | 0.025   | 03/14/24 18:09 | brc     |
| Zinc, dissolved      | M200.7 ICP    | 1        | 0.071    |      |    | mg/L  | 0.02    | 0.05    | 03/14/24 18:09 | brc     |

**GCC Rio Grande**

Project ID:

Sample ID: MW-11

ACZ Sample ID: **L86481-01**

Date Sampled: 03/12/24 09:21

Date Received: 03/13/24

Sample Matrix: Groundwater

## Wet Chemistry

| Parameter                                 | EPA Method                                                         | Dilution | Result | Qual | XQ | Units | MDL  | PQL  | Date           | Analyst |
|-------------------------------------------|--------------------------------------------------------------------|----------|--------|------|----|-------|------|------|----------------|---------|
| Alkalinity as CaCO <sub>3</sub>           | SM2320B - Titration                                                |          |        |      |    |       |      |      |                |         |
| Bicarbonate as CaCO <sub>3</sub>          |                                                                    | 1        | 752    |      |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Carbonate as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Hydroxide as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Total Alkalinity                          |                                                                    | 1        | 752    |      |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Cation-Anion Balance                      | Calculation                                                        |          |        |      |    |       |      |      |                |         |
| Cation-Anion Balance                      |                                                                    |          | 0.0    |      |    | %     |      |      | 03/26/24 0:00  | calc    |
| Sum of Anions                             |                                                                    |          | 25     |      |    | meq/L |      |      | 03/26/24 0:00  | calc    |
| Sum of Cations                            |                                                                    |          | 25     |      |    | meq/L |      |      | 03/26/24 0:00  | calc    |
| Chloride                                  | SM4500Cl-E                                                         | 5        | 103    |      |    | mg/L  | 5    | 10   | 03/19/24 10:33 | jqr     |
| Fluoride                                  | SM4500F-C                                                          | 1        | 0.86   |      |    | mg/L  | 0.15 | 0.35 | 03/22/24 22:00 | jck     |
| Hardness as CaCO <sub>3</sub> (dissolved) | SM2340B - Calculation                                              |          | 325    |      |    | mg/L  | 0.2  | 5    | 03/26/24 0:00  | calc    |
| Nitrate as N                              | Calculation: NO <sub>3</sub> NO <sub>2</sub> minus NO <sub>2</sub> |          | <0.02  | U    |    | mg/L  | 0.02 | 0.1  | 03/26/24 0:00  | calc    |
| Nitrate/Nitrite as N                      | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.02  | U    | *  | mg/L  | 0.02 | 0.1  | 03/14/24 0:18  | pjb     |
| Nitrite as N                              | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.01  | U    | *  | mg/L  | 0.01 | 0.05 | 03/14/24 0:18  | pjb     |
| Residue, Filterable (TDS) @180C           | SM2540C                                                            | 1        | 1420   |      |    | mg/L  | 20   | 40   | 03/18/24 16:01 | asn     |
| Sulfate                                   | ASTM D516-07/-11/-16                                               | 25       | 343    |      | *  | mg/L  | 25   | 125  | 03/19/24 16:50 | cbp     |
| TDS (calculated)                          | Calculation                                                        |          | 1430   |      |    | mg/L  |      |      | 03/26/24 0:00  | calc    |
| TDS (ratio - measured/calculated)         | Calculation                                                        |          | 0.99   |      |    |       |      |      | 03/26/24 0:00  | calc    |

**GCC Rio Grande**

Project ID:

Sample ID: MW-12

ACZ Sample ID: **L86481-02**

Date Sampled: 03/12/24 09:42

Date Received: 03/13/24

Sample Matrix: Groundwater

## Metals Analysis

| Parameter            | EPA Method    | Dilution | Result   | Qual | XQ | Units | MDL    | PQL    | Date           | Analyst |
|----------------------|---------------|----------|----------|------|----|-------|--------|--------|----------------|---------|
| Aluminum, dissolved  | M200.7 ICP    | 1        | <0.05    | U    |    | mg/L  | 0.05   | 0.25   | 03/14/24 18:12 | brc     |
| Arsenic, dissolved   | M200.8 ICP-MS | 2        | 0.00271  |      |    | mg/L  | 0.0004 | 0.002  | 03/19/24 22:18 | aps     |
| Beryllium, dissolved | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01   | 0.05   | 03/14/24 18:12 | brc     |
| Boron, dissolved     | M200.7 ICP    | 1        | 0.902    |      |    | mg/L  | 0.03   | 0.1    | 03/14/24 18:12 | brc     |
| Cadmium, dissolved   | M200.8 ICP-MS | 2        | <0.0001  | U    | *  | mg/L  | 0.0001 | 0.0005 | 03/19/24 22:18 | aps     |
| Calcium, dissolved   | M200.7 ICP    | 1        | 25.7     |      | *  | mg/L  | 0.1    | 0.5    | 03/14/24 18:12 | brc     |
| Chromium, dissolved  | M200.7 ICP    | 1        | <0.02    | U    |    | mg/L  | 0.02   | 0.05   | 03/14/24 18:12 | brc     |
| Cobalt, dissolved    | M200.8 ICP-MS | 2        | 0.000756 |      |    | mg/L  | 0.0001 | 0.0005 | 03/19/24 22:18 | aps     |
| Copper, dissolved    | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01   | 0.05   | 03/25/24 17:46 | wtc     |
| Iron, dissolved      | M200.7 ICP    | 1        | 0.186    |      |    | mg/L  | 0.06   | 0.15   | 03/14/24 18:12 | brc     |
| Lead, dissolved      | M200.8 ICP-MS | 2        | <0.0002  | U    | *  | mg/L  | 0.0002 | 0.001  | 03/19/24 22:18 | aps     |
| Lithium, dissolved   | M200.7 ICP    | 1        | 0.213    |      |    | mg/L  | 0.008  | 0.04   | 03/14/24 18:12 | brc     |
| Magnesium, dissolved | M200.7 ICP    | 1        | 10.2     |      |    | mg/L  | 0.2    | 1      | 03/14/24 18:12 | brc     |
| Manganese, dissolved | M200.7 ICP    | 1        | 0.075    |      |    | mg/L  | 0.01   | 0.05   | 03/14/24 18:12 | brc     |
| Mercury, dissolved   | M245.1 CVAA   | 1        | <0.0002  | U    |    | mg/L  | 0.0002 | 0.001  | 03/21/24 14:59 | aeH     |
| Nickel, dissolved    | M200.7 ICP    | 1        | <0.008   | U    |    | mg/L  | 0.008  | 0.04   | 03/14/24 18:12 | brc     |
| Potassium, dissolved | M200.7 ICP    | 1        | 4.03     |      |    | mg/L  | 0.5    | 1      | 03/14/24 18:12 | brc     |
| Selenium, dissolved  | M200.8 ICP-MS | 2        | <0.0002  | U    | *  | mg/L  | 0.0002 | 0.0005 | 03/19/24 22:18 | aps     |
| Sodium, dissolved    | M200.7 ICP    | 1        | 971      |      |    | mg/L  | 0.2    | 1      | 03/14/24 18:12 | brc     |
| Vanadium, dissolved  | M200.7 ICP    | 1        | <0.01    | U    |    | mg/L  | 0.01   | 0.025  | 03/14/24 18:12 | brc     |
| Zinc, dissolved      | M200.7 ICP    | 1        | 0.092    |      |    | mg/L  | 0.02   | 0.05   | 03/14/24 18:12 | brc     |

**GCC Rio Grande**

Project ID:

Sample ID: MW-12

ACZ Sample ID: **L86481-02**

Date Sampled: 03/12/24 09:42

Date Received: 03/13/24

Sample Matrix: Groundwater

Wet Chemistry

| Parameter                                 | EPA Method                                                         | Dilution | Result | Qual | XQ | Units | MDL  | PQL  | Date           | Analyst |
|-------------------------------------------|--------------------------------------------------------------------|----------|--------|------|----|-------|------|------|----------------|---------|
| Alkalinity as CaCO <sub>3</sub>           | SM2320B - Titration                                                |          |        |      |    |       |      |      |                |         |
| Bicarbonate as CaCO <sub>3</sub>          |                                                                    | 1        | 632    |      |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Carbonate as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Hydroxide as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Total Alkalinity                          |                                                                    | 1        | 632    |      |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Cation-Anion Balance                      | Calculation                                                        |          |        |      |    |       |      |      |                |         |
| Cation-Anion Balance                      |                                                                    |          | -2.2   |      |    | %     |      |      | 03/26/24 0:00  | calc    |
| Sum of Anions                             |                                                                    |          | 47     |      |    | meq/L |      |      | 03/26/24 0:00  | calc    |
| Sum of Cations                            |                                                                    |          | 45.0   |      |    | meq/L |      |      | 03/26/24 0:00  | calc    |
| Chloride                                  | SM4500Cl-E                                                         | 20       | 984    |      |    | mg/L  | 20   | 40   | 03/19/24 10:42 | jqr     |
| Fluoride                                  | SM4500F-C                                                          | 1        | 1.84   |      |    | mg/L  | 0.15 | 0.35 | 03/22/24 22:08 | jck     |
| Hardness as CaCO <sub>3</sub> (dissolved) | SM2340B - Calculation                                              |          | 106    |      |    | mg/L  | 0.2  | 5    | 03/26/24 0:00  | calc    |
| Nitrate as N                              | Calculation: NO <sub>3</sub> NO <sub>2</sub> minus NO <sub>2</sub> |          | <0.02  | U    |    | mg/L  | 0.02 | 0.1  | 03/26/24 0:00  | calc    |
| Nitrate/Nitrite as N                      | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.02  | U    | *  | mg/L  | 0.02 | 0.1  | 03/14/24 0:20  | pjb     |
| Nitrite as N                              | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.01  | U    | *  | mg/L  | 0.01 | 0.05 | 03/14/24 0:20  | pjb     |
| Residue, Filterable (TDS) @180C           | SM2540C                                                            | 1        | 2710   |      |    | mg/L  | 20   | 40   | 03/18/24 16:06 | asn     |
| Sulfate                                   | ASTM D516-07/-11/-16                                               | 25       | 326    |      | *  | mg/L  | 25   | 125  | 03/19/24 16:51 | cbp     |
| TDS (calculated)                          | Calculation                                                        |          | 2710   |      |    | mg/L  |      |      | 03/26/24 0:00  | calc    |
| TDS (ratio - measured/calculated)         | Calculation                                                        |          | 1.00   |      |    |       |      |      | 03/26/24 0:00  | calc    |

**GCC Rio Grande**

Project ID:

Sample ID: MW-9

ACZ Sample ID: **L86481-03**

Date Sampled: 03/12/24 11:30

Date Received: 03/13/24

Sample Matrix: Groundwater

## Metals Analysis

| Parameter            | EPA Method    | Dilution | Result  | Qual | XQ | Units | MDL    | PQL    | Date           | Analyst |
|----------------------|---------------|----------|---------|------|----|-------|--------|--------|----------------|---------|
| Aluminum, dissolved  | M200.7 ICP    | 1        | <0.05   | U    |    | mg/L  | 0.05   | 0.25   | 03/14/24 18:15 | brc     |
| Arsenic, dissolved   | M200.8 ICP-MS | 2        | 0.00092 | B    | *  | mg/L  | 0.0004 | 0.002  | 03/19/24 22:20 | aps     |
| Beryllium, dissolved | M200.7 ICP    | 1        | <0.01   | U    |    | mg/L  | 0.01   | 0.05   | 03/14/24 18:15 | brc     |
| Boron, dissolved     | M200.7 ICP    | 1        | 1.40    |      |    | mg/L  | 0.03   | 0.1    | 03/14/24 18:15 | brc     |
| Cadmium, dissolved   | M200.8 ICP-MS | 2        | <0.0001 | U    | *  | mg/L  | 0.0001 | 0.0005 | 03/19/24 22:20 | aps     |
| Calcium, dissolved   | M200.7 ICP    | 1        | 400     |      | *  | mg/L  | 0.1    | 0.5    | 03/14/24 18:15 | brc     |
| Chromium, dissolved  | M200.7 ICP    | 1        | <0.02   | U    |    | mg/L  | 0.02   | 0.05   | 03/14/24 18:15 | brc     |
| Cobalt, dissolved    | M200.8 ICP-MS | 2        | 0.00180 |      |    | mg/L  | 0.0001 | 0.0005 | 03/19/24 22:20 | aps     |
| Copper, dissolved    | M200.7 ICP    | 1        | <0.01   | U    |    | mg/L  | 0.01   | 0.05   | 03/25/24 17:49 | wtc     |
| Iron, dissolved      | M200.7 ICP    | 1        | 1.89    |      |    | mg/L  | 0.06   | 0.15   | 03/14/24 18:15 | brc     |
| Lead, dissolved      | M200.8 ICP-MS | 2        | <0.0002 | U    | *  | mg/L  | 0.0002 | 0.001  | 03/19/24 22:20 | aps     |
| Lithium, dissolved   | M200.7 ICP    | 1        | 0.391   |      |    | mg/L  | 0.008  | 0.04   | 03/14/24 18:15 | brc     |
| Magnesium, dissolved | M200.7 ICP    | 1        | 158     |      |    | mg/L  | 0.2    | 1      | 03/14/24 18:15 | brc     |
| Manganese, dissolved | M200.7 ICP    | 1        | 0.381   |      |    | mg/L  | 0.01   | 0.05   | 03/14/24 18:15 | brc     |
| Mercury, dissolved   | M245.1 CVAA   | 1        | <0.0002 | U    |    | mg/L  | 0.0002 | 0.001  | 03/21/24 15:00 | aeh     |
| Nickel, dissolved    | M200.7 ICP    | 1        | <0.008  | U    |    | mg/L  | 0.008  | 0.04   | 03/14/24 18:15 | brc     |
| Potassium, dissolved | M200.7 ICP    | 1        | 8.75    |      |    | mg/L  | 0.5    | 1      | 03/14/24 18:15 | brc     |
| Selenium, dissolved  | M200.8 ICP-MS | 2        | <0.0002 | U    | *  | mg/L  | 0.0002 | 0.0005 | 03/19/24 22:20 | aps     |
| Sodium, dissolved    | M200.7 ICP    | 1        | 809     |      |    | mg/L  | 0.2    | 1      | 03/14/24 18:15 | brc     |
| Vanadium, dissolved  | M200.7 ICP    | 1        | <0.01   | U    |    | mg/L  | 0.01   | 0.025  | 03/14/24 18:15 | brc     |
| Zinc, dissolved      | M200.7 ICP    | 1        | 0.090   |      |    | mg/L  | 0.02   | 0.05   | 03/14/24 18:15 | brc     |

**GCC Rio Grande**

Project ID:

Sample ID: MW-9

ACZ Sample ID: **L86481-03**

Date Sampled: 03/12/24 11:30

Date Received: 03/13/24

Sample Matrix: Groundwater

## Wet Chemistry

| Parameter                                 | EPA Method                                                         | Dilution | Result | Qual | XQ | Units | MDL  | PQL  | Date           | Analyst |
|-------------------------------------------|--------------------------------------------------------------------|----------|--------|------|----|-------|------|------|----------------|---------|
| Alkalinity as CaCO <sub>3</sub>           | SM2320B - Titration                                                |          |        |      |    |       |      |      |                |         |
| Bicarbonate as CaCO <sub>3</sub>          |                                                                    | 1        | 421    |      |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Carbonate as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Hydroxide as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Total Alkalinity                          |                                                                    | 1        | 421    |      |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Cation-Anion Balance                      | Calculation                                                        |          |        |      |    |       |      |      |                |         |
| Cation-Anion Balance                      |                                                                    |          | 3.8    |      |    | %     |      |      | 03/26/24 0:00  | calc    |
| Sum of Anions                             |                                                                    |          | 64     |      |    | meq/L |      |      | 03/26/24 0:00  | calc    |
| Sum of Cations                            |                                                                    |          | 69     |      |    | meq/L |      |      | 03/26/24 0:00  | calc    |
| Chloride                                  | SM4500Cl-E                                                         | 1        | 44.8   |      |    | mg/L  | 1    | 2    | 03/19/24 10:24 | jqr     |
| Fluoride                                  | SM4500F-C                                                          | 1        | 0.42   |      |    | mg/L  | 0.15 | 0.35 | 03/22/24 22:16 | jck     |
| Hardness as CaCO <sub>3</sub> (dissolved) | SM2340B - Calculation                                              |          | 1650   |      |    | mg/L  | 0.2  | 5    | 03/26/24 0:00  | calc    |
| Nitrate as N                              | Calculation: NO <sub>3</sub> NO <sub>2</sub> minus NO <sub>2</sub> |          | <0.02  | U    |    | mg/L  | 0.02 | 0.1  | 03/26/24 0:00  | calc    |
| Nitrate/Nitrite as N                      | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.02  | U    | *  | mg/L  | 0.02 | 0.1  | 03/14/24 0:25  | pjb     |
| Nitrite as N                              | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.01  | U    | *  | mg/L  | 0.01 | 0.05 | 03/14/24 0:25  | pjb     |
| Residue, Filterable (TDS) @180C           | SM2540C                                                            | 2        | 4880   |      |    | mg/L  | 40   | 80   | 03/18/24 16:11 | asn     |
| Sulfate                                   | ASTM D516-07/-11/-16                                               | 200      | 2590   |      | *  | mg/L  | 200  | 1000 | 03/19/24 17:05 | cbp     |
| TDS (calculated)                          | Calculation                                                        |          | 4270   |      |    | mg/L  |      |      | 03/26/24 0:00  | calc    |
| TDS (ratio - measured/calculated)         | Calculation                                                        |          | 1.14   |      |    |       |      |      | 03/26/24 0:00  | calc    |

**GCC Rio Grande**

Project ID:

Sample ID: MW-10

ACZ Sample ID: **L86481-04**

Date Sampled: 03/12/24 12:02

Date Received: 03/13/24

Sample Matrix: Groundwater

## Metals Analysis

| Parameter            | EPA Method    | Dilution | Result  | Qual | XQ | Units | MDL    | PQL    | Date           | Analyst |
|----------------------|---------------|----------|---------|------|----|-------|--------|--------|----------------|---------|
| Aluminum, dissolved  | M200.7 ICP    | 1        | <0.05   | U    |    | mg/L  | 0.05   | 0.25   | 03/14/24 18:18 | brc     |
| Arsenic, dissolved   | M200.8 ICP-MS | 2        | 0.00156 | B    | *  | mg/L  | 0.0004 | 0.002  | 03/19/24 22:22 | aps     |
| Beryllium, dissolved | M200.7 ICP    | 1        | <0.01   | U    |    | mg/L  | 0.01   | 0.05   | 03/14/24 18:18 | brc     |
| Boron, dissolved     | M200.7 ICP    | 1        | 1.31    |      |    | mg/L  | 0.03   | 0.1    | 03/14/24 18:18 | brc     |
| Cadmium, dissolved   | M200.8 ICP-MS | 2        | <0.0001 | U    | *  | mg/L  | 0.0001 | 0.0005 | 03/19/24 22:22 | aps     |
| Calcium, dissolved   | M200.7 ICP    | 1        | 24.8    |      | *  | mg/L  | 0.1    | 0.5    | 03/14/24 18:18 | brc     |
| Chromium, dissolved  | M200.7 ICP    | 1        | <0.02   | U    |    | mg/L  | 0.02   | 0.05   | 03/14/24 18:18 | brc     |
| Cobalt, dissolved    | M200.8 ICP-MS | 2        | <0.0001 | U    | *  | mg/L  | 0.0001 | 0.0005 | 03/19/24 22:22 | aps     |
| Copper, dissolved    | M200.7 ICP    | 1        | <0.01   | U    |    | mg/L  | 0.01   | 0.05   | 03/25/24 17:53 | wtc     |
| Iron, dissolved      | M200.7 ICP    | 1        | 0.319   |      |    | mg/L  | 0.06   | 0.15   | 03/14/24 18:18 | brc     |
| Lead, dissolved      | M200.8 ICP-MS | 2        | 0.00020 | B    | *  | mg/L  | 0.0002 | 0.001  | 03/19/24 22:22 | aps     |
| Lithium, dissolved   | M200.7 ICP    | 1        | 0.206   |      |    | mg/L  | 0.008  | 0.04   | 03/14/24 18:18 | brc     |
| Magnesium, dissolved | M200.7 ICP    | 1        | 7.59    |      |    | mg/L  | 0.2    | 1      | 03/14/24 18:18 | brc     |
| Manganese, dissolved | M200.7 ICP    | 1        | 0.013   | B    |    | mg/L  | 0.01   | 0.05   | 03/14/24 18:18 | brc     |
| Mercury, dissolved   | M245.1 CVAA   | 1        | <0.0002 | U    |    | mg/L  | 0.0002 | 0.001  | 03/21/24 15:01 | aeH     |
| Nickel, dissolved    | M200.7 ICP    | 1        | <0.008  | U    |    | mg/L  | 0.008  | 0.04   | 03/14/24 18:18 | brc     |
| Potassium, dissolved | M200.7 ICP    | 1        | 4.13    |      |    | mg/L  | 0.5    | 1      | 03/14/24 18:18 | brc     |
| Selenium, dissolved  | M200.8 ICP-MS | 2        | <0.0002 | U    | *  | mg/L  | 0.0002 | 0.0005 | 03/19/24 22:22 | aps     |
| Sodium, dissolved    | M200.7 ICP    | 1        | 829     |      |    | mg/L  | 0.2    | 1      | 03/14/24 18:18 | brc     |
| Vanadium, dissolved  | M200.7 ICP    | 1        | <0.01   | U    |    | mg/L  | 0.01   | 0.025  | 03/14/24 18:18 | brc     |
| Zinc, dissolved      | M200.7 ICP    | 1        | 0.082   |      |    | mg/L  | 0.02   | 0.05   | 03/14/24 18:18 | brc     |

**GCC Rio Grande**

Project ID:

Sample ID: MW-10

ACZ Sample ID: **L86481-04**

Date Sampled: 03/12/24 12:02

Date Received: 03/13/24

Sample Matrix: Groundwater

Wet Chemistry

| Parameter                                 | EPA Method                                                         | Dilution | Result | Qual | XQ | Units | MDL  | PQL  | Date           | Analyst |
|-------------------------------------------|--------------------------------------------------------------------|----------|--------|------|----|-------|------|------|----------------|---------|
| Alkalinity as CaCO <sub>3</sub>           | SM2320B - Titration                                                |          |        |      |    |       |      |      |                |         |
| Bicarbonate as CaCO <sub>3</sub>          |                                                                    | 1        | 784    |      |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Carbonate as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Hydroxide as CaCO <sub>3</sub>            |                                                                    | 1        | <2     | U    |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Total Alkalinity                          |                                                                    | 1        | 784    |      |    | mg/L  | 2    | 20   | 03/23/24 0:00  | jck     |
| Cation-Anion Balance                      | Calculation                                                        |          |        |      |    |       |      |      |                |         |
| Cation-Anion Balance                      |                                                                    |          | -4.9   |      |    | %     |      |      | 03/26/24 0:00  | calc    |
| Sum of Anions                             |                                                                    |          | 43     |      |    | meq/L |      |      | 03/26/24 0:00  | calc    |
| Sum of Cations                            |                                                                    |          | 39     |      |    | meq/L |      |      | 03/26/24 0:00  | calc    |
| Chloride                                  | SM4500Cl-E                                                         | 20       | 382    |      | *  | mg/L  | 20   | 40   | 03/19/24 10:43 | jqr     |
| Fluoride                                  | SM4500F-C                                                          | 1        | 1.40   |      |    | mg/L  | 0.15 | 0.35 | 03/22/24 22:35 | jck     |
| Hardness as CaCO <sub>3</sub> (dissolved) | SM2340B - Calculation                                              |          | 93     |      |    | mg/L  | 0.2  | 5    | 03/26/24 0:00  | calc    |
| Nitrate as N                              | Calculation: NO <sub>3</sub> NO <sub>2</sub> minus NO <sub>2</sub> |          | <0.02  | U    |    | mg/L  | 0.02 | 0.1  | 03/26/24 0:00  | calc    |
| Nitrate/Nitrite as N                      | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.02  | U    | *  | mg/L  | 0.02 | 0.1  | 03/14/24 0:27  | pjb     |
| Nitrite as N                              | EPA 353.2 - Automated Cadmium Reduction                            | 1        | <0.01  | U    | *  | mg/L  | 0.01 | 0.05 | 03/14/24 0:27  | pjb     |
| Residue, Filterable (TDS) @180C           | SM2540C                                                            | 1        | 2550   |      |    | mg/L  | 20   | 40   | 03/18/24 16:17 | asn     |
| Sulfate                                   | ASTM D516-07/-11/-16                                               | 25       | 806    |      | *  | mg/L  | 25   | 125  | 03/19/24 16:52 | cbp     |
| TDS (calculated)                          | Calculation                                                        |          | 2530   |      |    | mg/L  |      |      | 03/26/24 0:00  | calc    |
| TDS (ratio - measured/calculated)         | Calculation                                                        |          | 1.01   |      |    |       |      |      | 03/26/24 0:00  | calc    |



#### Report Header Explanations

|                |                                                                                                                                                                |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Batch</i>   | A distinct set of samples analyzed at a specific time                                                                                                          |
| <i>Found</i>   | Value of the QC Type of interest                                                                                                                               |
| <i>Limit</i>   | Upper limit for RPD, in %.                                                                                                                                     |
| <i>Lower</i>   | Lower Recovery Limit, in % (except for LCSS, mg/Kg)                                                                                                            |
| <i>MDL</i>     | Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5).<br>Allows for instrument and annual fluctuations. |
| <i>PCN/SCN</i> | A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis                                                                 |
| <i>PQL</i>     | Practical Quantitation Limit. Synonymous with the EPA term "minimum level".                                                                                    |
| <i>QC</i>      | True Value of the Control Sample or the amount added to the Spike                                                                                              |
| <i>Rec</i>     | Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)                                                                               |
| <i>RPD</i>     | Relative Percent Difference, calculation used for Duplicate QC Types                                                                                           |
| <i>Upper</i>   | Upper Recovery Limit, in % (except for LCSS, mg/Kg)                                                                                                            |
| <i>Sample</i>  | Value of the Sample of interest                                                                                                                                |

#### QC Sample Types

|              |                                                        |              |                                              |
|--------------|--------------------------------------------------------|--------------|----------------------------------------------|
| <i>AS</i>    | Analytical Spike (Post Digestion)                      | <i>LCSWD</i> | Laboratory Control Sample - Water Duplicate  |
| <i>ASD</i>   | Analytical Spike (Post Digestion) Duplicate            | <i>LFB</i>   | Laboratory Fortified Blank                   |
| <i>CCB</i>   | Continuing Calibration Blank                           | <i>LFM</i>   | Laboratory Fortified Matrix                  |
| <i>CCV</i>   | Continuing Calibration Verification standard           | <i>LFMD</i>  | Laboratory Fortified Matrix Duplicate        |
| <i>DUP</i>   | Sample Duplicate                                       | <i>LRB</i>   | Laboratory Reagent Blank                     |
| <i>ICB</i>   | Initial Calibration Blank                              | <i>MS</i>    | Matrix Spike                                 |
| <i>ICV</i>   | Initial Calibration Verification standard              | <i>MSD</i>   | Matrix Spike Duplicate                       |
| <i>ICSAB</i> | Inter-element Correction Standard - A plus B solutions | <i>PBS</i>   | Prep Blank - Soil                            |
| <i>LCSS</i>  | Laboratory Control Sample - Soil                       | <i>PBW</i>   | Prep Blank - Water                           |
| <i>LCSSD</i> | Laboratory Control Sample - Soil Duplicate             | <i>PQV</i>   | Practical Quantitation Verification standard |
| <i>LCSW</i>  | Laboratory Control Sample - Water                      | <i>SDL</i>   | Serial Dilution                              |

#### QC Sample Type Explanations

|                         |                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------|
| Blanks                  | Verifies that there is no or minimal contamination in the prep method or calibration procedure. |
| Control Samples         | Verifies the accuracy of the method, including the prep procedure.                              |
| Duplicates              | Verifies the precision of the instrument and/or method.                                         |
| Spikes/Fortified Matrix | Determines sample matrix interferences, if any.                                                 |
| Standard                | Verifies the validity of the calibration.                                                       |

#### ACZ Qualifiers (Qual)

|   |                                                                                                                                                                                             |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B | Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.                                                                               |
| H | Analysis exceeded method hold time. pH is a field test with an immediate hold time.                                                                                                         |
| L | Target analyte response was below the laboratory defined negative threshold.                                                                                                                |
| U | The material was analyzed for, but was not detected above the level of the associated value.<br>The associated value is either the sample quantitation limit or the sample detection limit. |

#### Method References

|     |                                                                                                                |
|-----|----------------------------------------------------------------------------------------------------------------|
| (1) | EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.                               |
| (2) | EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993. |
| (3) | EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.   |
| (4) | EPA SW-846. Test Methods for Evaluating Solid Waste.                                                           |
| (5) | Standard Methods for the Examination of Water and Wastewater.                                                  |

#### Comments

|     |                                                                                                                                    |
|-----|------------------------------------------------------------------------------------------------------------------------------------|
| (1) | QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.                 |
| (2) | Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.                                        |
| (3) | Animal matrices for Inorganic analyses are reported on an "as received" basis.                                                     |
| (4) | An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result. |
| (5) | If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.                                            |

For a complete list of ACZ's Extended Qualifiers, please click:

<https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf>

**GCC**

ACZ Project ID: **L86481**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Alkalinity as CaCO3**

SM2320B - Titration

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG586165</b> |      |                |            |          |        |       |       |      |       |       |     |       |      |
| WG586165PBW1    | PBW  | 03/22/24 22:02 |            |          |        | 9.1   | mg/L  |      | -20   | 20    |     |       |      |
| WG586165LCSW3   | LCSW | 03/22/24 22:14 | WC240320-1 | 820.0001 |        | 807.2 | mg/L  | 98   | 90    | 110   |     |       |      |
| WG586165LCSW6   | LCSW | 03/23/24 0:07  | WC240320-1 | 820.0001 |        | 814.5 | mg/L  | 99   | 90    | 110   |     |       |      |
| WG586165PBW2    | PBW  | 03/23/24 0:14  |            |          |        | 5.4   | mg/L  |      | -20   | 20    |     |       |      |
| L86481-04DUP    | DUP  | 03/23/24 1:53  |            |          | 784    | 777.8 | mg/L  |      |       |       | 1   | 20    |      |
| WG586165LCSW9   | LCSW | 03/23/24 2:07  | WC240320-1 | 820.0001 |        | 824.3 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG586165PBW3    | PBW  | 03/23/24 2:14  |            |          |        | 4.9   | mg/L  |      | -20   | 20    |     |       |      |
| WG586165LCSW12  | LCSW | 03/23/24 4:08  | WC240320-1 | 820.0001 |        | 819.7 | mg/L  | 100  | 90    | 110   |     |       |      |
| WG586165PBW4    | PBW  | 03/23/24 4:15  |            |          |        | 4.2   | mg/L  |      | -20   | 20    |     |       |      |
| WG586165LCSW15  | LCSW | 03/23/24 6:06  | WC240320-1 | 820.0001 |        | 846.4 | mg/L  | 103  | 90    | 110   |     |       |      |
| WG586165PBW5    | PBW  | 03/23/24 6:13  |            |          |        | 9.1   | mg/L  |      | -20   | 20    |     |       |      |
| WG586165LCSW18  | LCSW | 03/23/24 8:08  | WC240320-1 | 820.0001 |        | 835.7 | mg/L  | 102  | 90    | 110   |     |       |      |

**Aluminum, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC        | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |           |        |       |       |      |       |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 2         |        | 2.011 | mg/L  | 101  | 95    | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |           |        | U     | mg/L  |      | -0.15 | 0.15  |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | .25025    |        | .239  | mg/L  | 96   | 70    | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | 200.45025 |        | 204.2 | mg/L  | 102  | 1     | 200   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | 1.001     |        | 1.024 | mg/L  | 102  | 85    | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | 1.001     | U      | 1.054 | mg/L  | 105  | 85    | 115   |     |       |      |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | 1.001     | U      | 1.035 | mg/L  | 103  | 85    | 115   | 2   | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 1         |        | .988  | mg/L  | 99   | 90    | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |           |        | U     | mg/L  |      | -0.15 | 0.15  |     |       |      |
| L86484-01AS     | AS   | 03/14/24 18:27 | II240306-3 | 1.001     | U      | 1.024 | mg/L  | 102  | 85    | 115   |     |       |      |
| L86484-01ASD    | ASD  | 03/14/24 18:30 | II240306-3 | 1.001     | U      | 1.038 | mg/L  | 104  | 85    | 115   | 1   | 20    |      |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 1         |        | .982  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |           |        | U     | mg/L  |      | -0.15 | 0.15  |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 1         |        | .987  | mg/L  | 99   | 90    | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |           |        | U     | mg/L  |      | -0.15 | 0.15  |     |       |      |

**Arsenic, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG585938</b> |      |                |            |       |        |        |       |      |          |         |     |       |      |
| WG585938ICV     | ICV  | 03/19/24 21:46 | MS240109-5 | .05   |        | .04995 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585938ICB     | ICB  | 03/19/24 21:47 |            |       |        | U      | mg/L  |      | -0.00044 | 0.00044 |     |       |      |
| WG585938LFB     | LFB  | 03/19/24 21:49 | MS240213-3 | .0501 |        | .0513  | mg/L  | 102  | 85       | 115     |     |       |      |
| WG585938CCV1    | CCV  | 03/19/24 22:07 | MS240305-4 | .1002 |        | .09775 | mg/L  | 98   | 90       | 110     |     |       |      |
| WG585938CCB1    | CCB  | 03/19/24 22:09 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |      |
| L86484-01AS     | AS   | 03/19/24 22:26 | MS240213-3 | .0501 | .00074 | .05613 | mg/L  | 111  | 70       | 130     |     |       |      |
| L86484-01ASD    | ASD  | 03/19/24 22:27 | MS240213-3 | .0501 | .00074 | .05558 | mg/L  | 109  | 70       | 130     | 1   | 20    |      |
| WG585938CCV2    | CCV  | 03/19/24 22:29 | MS240305-4 | .1002 |        | .09632 | mg/L  | 96   | 90       | 110     |     |       |      |
| WG585938CCB2    | CCB  | 03/19/24 22:31 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |      |
| WG585938CCV3    | CCV  | 03/19/24 22:42 | MS240305-4 | .1002 |        | .09494 | mg/L  | 95   | 90       | 110     |     |       |      |
| WG585938CCB3    | CCB  | 03/19/24 22:44 |            |       |        | U      | mg/L  |      | -0.0006  | 0.0006  |     |       |      |

GCC

ACZ Project ID: **L86481**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Beryllium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 2      |        | 1.928 | mg/L  | 96   | 95    | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | .05005 |        | .05   | mg/L  | 100  | 70    | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | .10015 |        | .098  | mg/L  | 98   | 80    | 120   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | .5005  |        | .502  | mg/L  | 100  | 85    | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | .5005  | U      | .5    | mg/L  | 100  | 85    | 115   |     |       |      |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | .5005  | U      | .503  | mg/L  | 100  | 85    | 115   | 1   | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 1      |        | .955  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| L86484-01AS     | AS   | 03/14/24 18:27 | II240306-3 | .5005  | U      | .484  | mg/L  | 97   | 85    | 115   |     |       |      |
| L86484-01ASD    | ASD  | 03/14/24 18:30 | II240306-3 | .5005  | U      | .486  | mg/L  | 97   | 85    | 115   | 0   | 20    |      |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 1      |        | .945  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 1      |        | .946  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |

**Boron, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |       |        |       |       |      |       |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 2     |        | 2.05  | mg/L  | 103  | 95    | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |       |        | U     | mg/L  |      | -0.09 | 0.09  |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | .1001 |        | .108  | mg/L  | 108  | 70    | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | .1001 |        | .105  | mg/L  | 105  | 80    | 120   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | .5005 |        | .517  | mg/L  | 103  | 85    | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | .5005 | .049   | .567  | mg/L  | 103  | 85    | 115   |     |       |      |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | .5005 | .049   | .565  | mg/L  | 103  | 85    | 115   | 0   | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 1     |        | 1.002 | mg/L  | 100  | 90    | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |       |        | U     | mg/L  |      | -0.09 | 0.09  |     |       |      |
| L86484-01AS     | AS   | 03/14/24 18:27 | II240306-3 | .5005 | .08    | .582  | mg/L  | 100  | 85    | 115   |     |       |      |
| L86484-01ASD    | ASD  | 03/14/24 18:30 | II240306-3 | .5005 | .08    | .584  | mg/L  | 101  | 85    | 115   | 0   | 20    |      |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 1     |        | .999  | mg/L  | 100  | 90    | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |       |        | U     | mg/L  |      | -0.09 | 0.09  |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 1     |        | 1.007 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |       |        | U     | mg/L  |      | -0.09 | 0.09  |     |       |      |

GCC

ACZ Project ID: **L86481**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Cadmium, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found   | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|---------|-------|------|----------|---------|-----|-------|------|
| <b>WG585938</b> |      |                |            |        |        |         |       |      |          |         |     |       |      |
| WG585938ICV     | ICV  | 03/19/24 21:46 | MS240109-5 | .05    |        | .050586 | mg/L  | 101  | 90       | 110     |     |       |      |
| WG585938ICB     | ICB  | 03/19/24 21:47 |            |        |        | U       | mg/L  |      | -0.00011 | 0.00011 |     |       |      |
| WG585938LFB     | LFB  | 03/19/24 21:49 | MS240213-3 | .05005 |        | .049891 | mg/L  | 100  | 85       | 115     |     |       |      |
| WG585938CCV1    | CCV  | 03/19/24 22:07 | MS240305-4 | .1001  |        | .098799 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG585938CCB1    | CCB  | 03/19/24 22:09 |            |        |        | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |
| L86484-01AS     | AS   | 03/19/24 22:26 | MS240213-3 | .05005 | U      | .051287 | mg/L  | 102  | 70       | 130     |     |       |      |
| L86484-01ASD    | ASD  | 03/19/24 22:27 | MS240213-3 | .05005 | U      | .051964 | mg/L  | 104  | 70       | 130     | 1   | 20    |      |
| WG585938CCV2    | CCV  | 03/19/24 22:29 | MS240305-4 | .1001  |        | .097771 | mg/L  | 98   | 90       | 110     |     |       |      |
| WG585938CCB2    | CCB  | 03/19/24 22:31 |            |        |        | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |
| WG585938CCV3    | CCV  | 03/19/24 22:42 | MS240305-4 | .1001  |        | .098415 | mg/L  | 98   | 90       | 110     |     |       |      |
| WG585938CCB3    | CCB  | 03/19/24 22:44 |            |        |        | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |

**Calcium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |          |        |       |       |      |       |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 100      |        | 99.6  | mg/L  | 100  | 95    | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |          |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | .5025    |        | .46   | mg/L  | 92   | 70    | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | 201.5025 |        | 201.4 | mg/L  | 100  | 1     | 200   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | 67.94555 |        | 69.37 | mg/L  | 102  | 85    | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | 67.94555 | 93.7   | 160.9 | mg/L  | 99   | 85    | 115   |     |       |      |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | 67.94555 | 93.7   | 160.8 | mg/L  | 99   | 85    | 115   | 0   | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 50       |        | 49.13 | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |          |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| L86484-01AS     | AS   | 03/14/24 18:27 | II240306-3 | 67.94555 | 279    | 331.8 | mg/L  | 78   | 85    | 115   |     |       | M3   |
| L86484-01ASD    | ASD  | 03/14/24 18:30 | II240306-3 | 67.94555 | 279    | 332.6 | mg/L  | 79   | 85    | 115   | 0   | 20    | M3   |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 50       |        | 48.82 | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |          |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 50       |        | 48.93 | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |          |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |

**GCC**

ACZ Project ID: **L86481**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Chloride**

SM4500CI-E

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585914</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG585914ICV     | ICV  | 03/19/24 9:57  | WI231211-1 | 39.96  |        | 40.5  | mg/L  | 101  | 90    | 110   |     |       |      |
| WG585914ICB     | ICB  | 03/19/24 9:57  |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585914CCV1    | CCV  | 03/19/24 10:15 | WI240111-9 | 25.025 |        | 25.74 | mg/L  | 103  | 90    | 110   |     |       |      |
| WG585914CCB1    | CCB  | 03/19/24 10:15 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585914PQV     | PQV  | 03/19/24 10:15 | WI240213-4 | 2.002  |        | 2.09  | mg/L  | 104  | 50    | 150   |     |       |      |
| WG585914LFB     | LFB  | 03/19/24 10:16 | WI231211-4 | 20.02  |        | 21.13 | mg/L  | 106  | 90    | 110   |     |       |      |
| L86402-05AS     | AS   | 03/19/24 10:16 | WI231211-4 | 20.02  | U      | 21.75 | mg/L  | 109  | 90    | 110   |     |       |      |
| L86402-06DUP    | DUP  | 03/19/24 10:17 |            |        | 22.7   | 22.67 | mg/L  |      |       |       | 0   | 20    |      |
| WG585914CCV2    | CCV  | 03/19/24 10:18 | WI240111-9 | 25.025 |        | 27    | mg/L  | 108  | 90    | 110   |     |       |      |
| WG585914CCB2    | CCB  | 03/19/24 10:19 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585914CCV3    | CCV  | 03/19/24 10:26 | WI240111-9 | 25.025 |        | 27.06 | mg/L  | 108  | 90    | 110   |     |       |      |
| WG585914CCB3    | CCB  | 03/19/24 10:27 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| L86512-03AS     | AS   | 03/19/24 10:28 | WI231211-4 | 20.02  | U      | 21.9  | mg/L  | 109  | 90    | 110   |     |       |      |
| L86512-04DUP    | DUP  | 03/19/24 10:28 |            |        | U      | U     | mg/L  |      |       |       | 0   | 20    | RA   |
| WG585914CCV4    | CCV  | 03/19/24 10:34 | WI240111-9 | 25.025 |        | 27.07 | mg/L  | 108  | 90    | 110   |     |       |      |
| WG585914CCB4    | CCB  | 03/19/24 10:35 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585914CCV5    | CCV  | 03/19/24 10:36 | WI240111-9 | 25.025 |        | 27.13 | mg/L  | 108  | 90    | 110   |     |       |      |
| WG585914CCB5    | CCB  | 03/19/24 10:36 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585914CCV6    | CCV  | 03/19/24 10:36 | WI240111-9 | 25.025 |        | 27.05 | mg/L  | 108  | 90    | 110   |     |       |      |
| WG585914CCB6    | CCB  | 03/19/24 10:37 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585914CCV7    | CCV  | 03/19/24 10:43 | WI240111-9 | 25.025 |        | 27.09 | mg/L  | 108  | 90    | 110   |     |       |      |
| WG585914CCB7    | CCB  | 03/19/24 10:43 |            |        |        | U     | mg/L  |      |       |       |     |       |      |
| WG585914CCV8    | CCV  | 03/19/24 10:44 | WI240111-9 | 25.025 |        | 27.11 | mg/L  | 108  | 90    | 110   |     |       |      |
| WG585914CCB8    | CCB  | 03/19/24 10:44 |            |        |        | U     | mg/L  |      |       |       |     |       |      |

**Chromium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 2      |        | 1.942 | mg/L  | 97   | 95    | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | .05005 |        | .052  | mg/L  | 104  | 70    | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | .1001  |        | .099  | mg/L  | 99   | 80    | 120   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | .5005  |        | .503  | mg/L  | 100  | 85    | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | .5005  | U      | .504  | mg/L  | 101  | 85    | 115   |     |       |      |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | .5005  | U      | .504  | mg/L  | 101  | 85    | 115   | 0   | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 1      |        | .959  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| L86484-01AS     | AS   | 03/14/24 18:27 | II240306-3 | .5005  | U      | .488  | mg/L  | 98   | 85    | 115   |     |       |      |
| L86484-01ASD    | ASD  | 03/14/24 18:30 | II240306-3 | .5005  | U      | .491  | mg/L  | 98   | 85    | 115   | 1   | 20    |      |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 1      |        | .952  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 1      |        | .956  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |

**GCC**

ACZ Project ID: **L86481**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Cobalt, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found   | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|---------|-------|------|----------|---------|-----|-------|------|
| <b>WG585938</b> |      |                |            |        |        |         |       |      |          |         |     |       |      |
| WG585938ICV     | ICV  | 03/19/24 21:46 | MS240109-5 | .05    |        | .052987 | mg/L  | 106  | 90       | 110     |     |       |      |
| WG585938ICB     | ICB  | 03/19/24 21:47 |            |        |        | U       | mg/L  |      | -0.00011 | 0.00011 |     |       |      |
| WG585938LFB     | LFB  | 03/19/24 21:49 | MS240213-3 | .05005 |        | .054211 | mg/L  | 108  | 85       | 115     |     |       |      |
| WG585938CCV1    | CCV  | 03/19/24 22:07 | MS240305-4 | .1001  |        | .099833 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585938CCB1    | CCB  | 03/19/24 22:09 |            |        |        | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |
| L86484-01AS     | AS   | 03/19/24 22:26 | MS240213-3 | .05005 | .00095 | .052578 | mg/L  | 103  | 70       | 130     |     |       |      |
| L86484-01ASD    | ASD  | 03/19/24 22:27 | MS240213-3 | .05005 | .00095 | .051769 | mg/L  | 102  | 70       | 130     | 2   | 20    |      |
| WG585938CCV2    | CCV  | 03/19/24 22:29 | MS240305-4 | .1001  |        | .099803 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585938CCB2    | CCB  | 03/19/24 22:31 |            |        |        | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |
| WG585938CCV3    | CCV  | 03/19/24 22:42 | MS240305-4 | .1001  |        | .099578 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG585938CCB3    | CCB  | 03/19/24 22:44 |            |        |        | U       | mg/L  |      | -0.00015 | 0.00015 |     |       |      |

**Copper, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG586178</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG586178ICV     | ICV  | 03/25/24 9:54  | II240305-3 | 2      |        | 1.948 | mg/L  | 97   | 95    | 105   |     |       |      |
| WG586178ICB     | ICB  | 03/25/24 10:00 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG586178PQV     | PQV  | 03/25/24 10:03 | II240323-2 | .05005 |        | .042  | mg/L  | 84   | 70    | 130   |     |       |      |
| WG586178SIC     | SIC  | 03/25/24 10:07 | II240322-2 | .1001  |        | .103  | mg/L  | 103  | 80    | 120   |     |       |      |
| WG586178LFB     | LFB  | 03/25/24 10:13 | II240306-3 | .5005  |        | .511  | mg/L  | 102  | 85    | 115   |     |       |      |
| WG586178CCV1    | CCV  | 03/25/24 10:46 | II240313-2 | 1      |        | 1.005 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG586178CCB1    | CCB  | 03/25/24 10:49 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG586178CCV2    | CCV  | 03/25/24 11:24 | II240313-2 | 1      |        | 1.037 | mg/L  | 104  | 90    | 110   |     |       |      |
| WG586178CCB2    | CCB  | 03/25/24 11:27 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| L86481-01AS     | AS   | 03/25/24 11:40 | II240306-3 | .5005  | U      | .571  | mg/L  | 114  | 85    | 115   |     |       |      |
| L86481-01ASD    | ASD  | 03/25/24 11:43 | II240306-3 | .5005  | U      | .554  | mg/L  | 111  | 85    | 115   | 3   | 20    |      |
| WG586178CCV3    | CCV  | 03/25/24 11:46 | II240313-2 | 1      |        | 1.05  | mg/L  | 105  | 90    | 110   |     |       |      |
| WG586178CCB3    | CCB  | 03/25/24 11:49 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| <b>WG586179</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG586179ICV     | ICV  | 03/25/24 16:49 | II240305-3 | 2      |        | 1.979 | mg/L  | 99   | 95    | 105   |     |       |      |
| WG586179ICB     | ICB  | 03/25/24 16:55 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG586179PQV     | PQV  | 03/25/24 16:58 | II240323-2 | .05005 |        | .054  | mg/L  | 108  | 70    | 130   |     |       |      |
| WG586179SIC     | SIC  | 03/25/24 17:02 | II240322-2 | .1001  |        | .11   | mg/L  | 110  | 80    | 120   |     |       |      |
| WG586179LFB     | LFB  | 03/25/24 17:08 | II240306-3 | .5005  |        | .525  | mg/L  | 105  | 85    | 115   |     |       |      |
| L76852-74AS     | AS   | 03/25/24 17:21 | II240306-3 | .5005  | U      | .532  | mg/L  | 106  | 85    | 115   |     |       |      |
| L76852-74ASD    | ASD  | 03/25/24 17:24 | II240306-3 | .5005  | U      | .557  | mg/L  | 111  | 85    | 115   | 5   | 20    |      |
| WG586179CCV1    | CCV  | 03/25/24 17:40 | II240313-2 | 1      |        | .983  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG586179CCB1    | CCB  | 03/25/24 17:43 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG586179CCV2    | CCV  | 03/25/24 18:20 | II240313-2 | 1      |        | .979  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG586179CCB2    | CCB  | 03/25/24 18:23 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG586179CCV3    | CCV  | 03/25/24 18:43 | II240313-2 | 1      |        | .985  | mg/L  | 99   | 90    | 110   |     |       |      |
| WG586179CCB3    | CCB  | 03/25/24 18:46 |            |        |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |

**GCC**

ACZ Project ID: **L86481**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Fluoride**

SM4500F-C

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG586161</b> |      |                |            |       |        |       |       |      |       |       |     |       |      |
| WG586161ICV     | ICV  | 03/22/24 14:45 | WC240322-2 | 2.002 |        | 2.02  | mg/L  | 101  | 90    | 110   |     |       |      |
| WG586161ICB     | ICB  | 03/22/24 14:50 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| <b>WG586162</b> |      |                |            |       |        |       |       |      |       |       |     |       |      |
| WG586162ICV     | ICV  | 03/22/24 19:54 | WC240322-2 | 2.002 |        | 2.09  | mg/L  | 104  | 90    | 110   |     |       |      |
| WG586162ICB     | ICB  | 03/22/24 20:02 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG586162PQV     | PQV  | 03/22/24 20:06 | WC240314-1 | .35   |        | .34   | mg/L  | 97   | 50    | 150   |     |       |      |
| WG586162LFB1    | LFB  | 03/22/24 20:10 | WC230825-1 | 5.005 |        | 5.45  | mg/L  | 109  | 90    | 110   |     |       |      |
| WG586162CCV1    | CCV  | 03/22/24 21:10 | WC240322-2 | 2.002 |        | 2.001 | mg/L  | 100  | 90    | 110   |     |       |      |
| WG586162CCB1    | CCB  | 03/22/24 21:18 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| L86479-04AS     | AS   | 03/22/24 21:46 | WC230825-1 | 5.005 | U      | 5.5   | mg/L  | 110  | 90    | 110   |     |       |      |
| L86479-04ASD    | ASD  | 03/22/24 21:49 | WC230825-1 | 5.005 | U      | 5.43  | mg/L  | 108  | 90    | 110   | 1   | 20    |      |
| WG586162CCV2    | CCV  | 03/22/24 22:21 | WC240322-2 | 2.002 |        | 2.057 | mg/L  | 103  | 90    | 110   |     |       |      |
| WG586162CCB2    | CCB  | 03/22/24 22:28 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG586162LFB2    | LFB  | 03/22/24 23:06 | WC230825-1 | 5.005 |        | 5.28  | mg/L  | 105  | 90    | 110   |     |       |      |
| WG586162CCV3    | CCV  | 03/22/24 23:34 | WC240322-2 | 2.002 |        | 2.048 | mg/L  | 102  | 90    | 110   |     |       |      |
| WG586162CCB3    | CCB  | 03/22/24 23:42 |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG586162CCV4    | CCV  | 03/23/24 0:47  | WC240322-2 | 2.002 |        | 2.125 | mg/L  | 106  | 90    | 110   |     |       |      |
| WG586162CCB4    | CCB  | 03/23/24 0:55  |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |
| WG586162CCV5    | CCV  | 03/23/24 1:52  | WC240322-2 | 2.002 |        | 2.067 | mg/L  | 103  | 90    | 110   |     |       |      |
| WG586162CCB5    | CCB  | 03/23/24 2:00  |            |       |        | U     | mg/L  |      | -0.3  | 0.3   |     |       |      |

**Iron, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC        | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |           |        |       |       |      |       |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 2         |        | 1.959 | mg/L  | 98   | 95    | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |           |        | U     | mg/L  |      | -0.18 | 0.18  |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | .15045    |        | .157  | mg/L  | 104  | 70    | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | 200.75045 |        | 197.6 | mg/L  | 98   | 1     | 200   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | 1.003     |        | 1.04  | mg/L  | 104  | 85    | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | 1.003     | U      | 1.177 | mg/L  | 117  | 85    | 115   |     |       | MA   |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | 1.003     | U      | 1.059 | mg/L  | 106  | 85    | 115   | 11  | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 1         |        | .983  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |           |        | U     | mg/L  |      | -0.18 | 0.18  |     |       |      |
| L86484-01AS     | AS   | 03/14/24 18:27 | II240306-3 | 1.003     | U      | 1.002 | mg/L  | 100  | 85    | 115   |     |       |      |
| L86484-01ASD    | ASD  | 03/14/24 18:30 | II240306-3 | 1.003     | U      | 1.026 | mg/L  | 102  | 85    | 115   | 2   | 20    |      |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 1         |        | .972  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |           |        | U     | mg/L  |      | -0.18 | 0.18  |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 1         |        | .977  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |           |        | U     | mg/L  |      | -0.18 | 0.18  |     |       |      |

GCC

ACZ Project ID: **L86481**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Lead, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG585938</b> |      |                |            |        |        |        |       |      |          |         |     |       |      |
| WG585938ICV     | ICV  | 03/19/24 21:46 | MS240109-5 | .05    |        | .0519  | mg/L  | 104  | 90       | 110     |     |       |      |
| WG585938ICB     | ICB  | 03/19/24 21:47 |            |        |        | U      | mg/L  |      | -0.00022 | 0.00022 |     |       |      |
| WG585938LFB     | LFB  | 03/19/24 21:49 | MS240213-3 | .05005 |        | .05137 | mg/L  | 103  | 85       | 115     |     |       |      |
| WG585938CCV1    | CCV  | 03/19/24 22:07 | MS240305-4 | .25025 |        | .25101 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585938CCB1    | CCB  | 03/19/24 22:09 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| L86484-01AS     | AS   | 03/19/24 22:26 | MS240213-3 | .05005 | U      | .05355 | mg/L  | 107  | 70       | 130     |     |       |      |
| L86484-01ASD    | ASD  | 03/19/24 22:27 | MS240213-3 | .05005 | U      | .05334 | mg/L  | 107  | 70       | 130     | 0   | 20    |      |
| WG585938CCV2    | CCV  | 03/19/24 22:29 | MS240305-4 | .25025 |        | .24955 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585938CCB2    | CCB  | 03/19/24 22:31 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG585938CCV3    | CCV  | 03/19/24 22:42 | MS240305-4 | .25025 |        | .24662 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG585938CCB3    | CCB  | 03/19/24 22:44 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |

**Lithium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|--------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |        |        |       |       |      |        |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 2      |        | 1.951 | mg/L  | 98   | 95     | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |        |        | U     | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | .04012 |        | .0388 | mg/L  | 97   | 70     | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | .10012 |        | .1007 | mg/L  | 101  | 80     | 120   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | 1      |        | .9742 | mg/L  | 97   | 85     | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | 1      | .0182  | .9968 | mg/L  | 98   | 85     | 115   |     |       |      |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | 1      | .0182  | 1.009 | mg/L  | 99   | 85     | 115   | 1   | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 1      |        | .9531 | mg/L  | 95   | 90     | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |        |        | U     | mg/L  |      | -0.024 | 0.024 |     |       |      |
| L86484-01AS     | AS   | 03/14/24 18:27 | II240306-3 | 1      | .0947  | 1.06  | mg/L  | 97   | 85     | 115   |     |       |      |
| L86484-01ASD    | ASD  | 03/14/24 18:30 | II240306-3 | 1      | .0947  | 1.09  | mg/L  | 100  | 85     | 115   | 3   | 20    |      |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 1      |        | .9524 | mg/L  | 95   | 90     | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |        |        | U     | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 1      |        | .9496 | mg/L  | 95   | 90     | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |        |        | U     | mg/L  |      | -0.024 | 0.024 |     |       |      |

GCC

ACZ Project ID: **L86481**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Magnesium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |          |        |       |       |      |       |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 100      |        | 99.99 | mg/L  | 100  | 95    | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | 1.006    |        | .94   | mg/L  | 93   | 70    | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | 202.206  |        | 208.7 | mg/L  | 103  | 1     | 200   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | 50.00453 |        | 51.08 | mg/L  | 102  | 85    | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | 50.00453 | 25.3   | 75.64 | mg/L  | 101  | 85    | 115   |     |       |      |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | 50.00453 | 25.3   | 75.35 | mg/L  | 100  | 85    | 115   | 0   | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 50       |        | 49.36 | mg/L  | 99   | 90    | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| L86484-01AS     | AS   | 03/14/24 18:27 | II240306-3 | 50.00453 | 29.5   | 77.55 | mg/L  | 96   | 85    | 115   |     |       |      |
| L86484-01ASD    | ASD  | 03/14/24 18:30 | II240306-3 | 50.00453 | 29.5   | 78.03 | mg/L  | 97   | 85    | 115   | 1   | 20    |      |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 50       |        | 48.64 | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 50       |        | 48.83 | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |          |        | U     | mg/L  |      | -0.6  | 0.6   |     |       |      |

**Manganese, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC      | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|---------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |         |        |       |       |      |       |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 2       |        | 1.917 | mg/L  | 96   | 95    | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |         |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | .0502   |        | .047  | mg/L  | 94   | 70    | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | 50.1502 |        | 47.15 | mg/L  | 94   | 1     | 200   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | .501    |        | .501  | mg/L  | 100  | 85    | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | .501    | U      | .51   | mg/L  | 102  | 85    | 115   |     |       |      |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | .501    | U      | .511  | mg/L  | 102  | 85    | 115   | 0   | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 1       |        | .956  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |         |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| L86484-01AS     | AS   | 03/14/24 18:27 | II240306-3 | .501    | U      | .49   | mg/L  | 98   | 85    | 115   |     |       |      |
| L86484-01ASD    | ASD  | 03/14/24 18:30 | II240306-3 | .501    | U      | .492  | mg/L  | 98   | 85    | 115   | 0   | 20    |      |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 1       |        | .945  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |         |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 1       |        | .949  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |         |        | U     | mg/L  |      | -0.03 | 0.03  |     |       |      |

GCC

ACZ Project ID: **L86481**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Mercury, dissolved**

M245.1 CVAA

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC      | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|---------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG585965</b> |      |                |            |         |        |        |       |      |          |         |     |       |      |
| WG585965ICV     | ICV  | 03/21/24 13:37 | HG240226-3 | .005    |        | .0052  | mg/L  | 104  | 95       | 105     |     |       |      |
| WG585965ICB     | ICB  | 03/21/24 13:38 |            |         |        | U      | mg/L  |      | -0.0002  | 0.0002  |     |       |      |
| <b>WG585967</b> |      |                |            |         |        |        |       |      |          |         |     |       |      |
| WG585967CCV1    | CCV  | 03/21/24 14:46 | HG240226-3 | .005    |        | .00505 | mg/L  | 101  | 90       | 110     |     |       |      |
| WG585967CCB1    | CCB  | 03/21/24 14:47 |            |         |        | U      | mg/L  |      | -0.0002  | 0.0002  |     |       |      |
| WG585967PQV     | PQV  | 03/21/24 14:48 | HG240313-2 | .001001 |        | .00084 | mg/L  | 84   | 70       | 130     |     |       |      |
| WG585967LRB     | LRB  | 03/21/24 14:49 |            |         |        | U      | mg/L  |      | -0.00044 | 0.00044 |     |       |      |
| WG585967LFB     | LFB  | 03/21/24 14:50 | HG240313-3 | .002002 |        | .00176 | mg/L  | 88   | 85       | 115     |     |       |      |
| L86358-01LFM    | LFM  | 03/21/24 14:52 | HG240313-3 | .002002 | U      | .00183 | mg/L  | 91   | 85       | 115     |     |       |      |
| L86358-01LFMD   | LFMD | 03/21/24 14:53 | HG240313-3 | .002002 | U      | .00175 | mg/L  | 87   | 85       | 115     | 4   | 20    |      |
| WG585967CCV2    | CCV  | 03/21/24 14:57 | HG240226-3 | .005    |        | .00506 | mg/L  | 101  | 90       | 110     |     |       |      |
| WG585967CCB2    | CCB  | 03/21/24 14:58 |            |         |        | U      | mg/L  |      | -0.0002  | 0.0002  |     |       |      |
| WG585967CCV3    | CCV  | 03/21/24 15:09 | HG240226-3 | .005    |        | .00499 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585967CCB3    | CCB  | 03/21/24 15:10 |            |         |        | U      | mg/L  |      | -0.0002  | 0.0002  |     |       |      |
| WG585967CCV4    | CCV  | 03/21/24 15:17 | HG240226-3 | .005    |        | .00497 | mg/L  | 99   | 90       | 110     |     |       |      |
| WG585967CCB4    | CCB  | 03/21/24 15:18 |            |         |        | U      | mg/L  |      | -0.0002  | 0.0002  |     |       |      |

**Nickel, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found  | Units | Rec% | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|--------|-------|------|--------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |        |        |        |       |      |        |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 2.004  |        | 1.9595 | mg/L  | 98   | 95     | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | .04    |        | .0397  | mg/L  | 99   | 70     | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | .10012 |        | .0925  | mg/L  | 92   | 80     | 120   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | .501   |        | .511   | mg/L  | 102  | 85     | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | .501   | U      | .5128  | mg/L  | 102  | 85     | 115   |     |       |      |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | .501   | U      | .5089  | mg/L  | 102  | 85     | 115   | 1   | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 1.002  |        | .9711  | mg/L  | 97   | 90     | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| L86484-01AS     | AS   | 03/14/24 18:27 | II240306-3 | .501   | U      | .4887  | mg/L  | 98   | 85     | 115   |     |       |      |
| L86484-01ASD    | ASD  | 03/14/24 18:30 | II240306-3 | .501   | U      | .491   | mg/L  | 98   | 85     | 115   | 0   | 20    |      |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 1.002  |        | .9637  | mg/L  | 96   | 90     | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 1.002  |        | .9721  | mg/L  | 97   | 90     | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |        |        | U      | mg/L  |      | -0.024 | 0.024 |     |       |      |

**Nitrate/Nitrite as N**

EPA 353.2 - Automated Cadmium Reduction

| ACZ ID          | Type | Analyzed      | PCN/SCN     | QC    | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|---------------|-------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585640</b> |      |               |             |       |        |       |       |      |       |       |     |       |      |
| WG585640ICV     | ICV  | 03/14/24 0:06 | WI240103-7  | 2.416 |        | 2.432 | mg/L  | 101  | 90    | 110   |     |       |      |
| WG585640ICB     | ICB  | 03/14/24 0:07 |             |       |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |
| WG585640LFB     | LFB  | 03/14/24 0:11 | WI240228-17 | 2     |        | 1.958 | mg/L  | 98   | 90    | 110   |     |       |      |
| L86478-01AS     | AS   | 03/14/24 0:13 | WI240228-17 | 2     | .636   | 2.578 | mg/L  | 97   | 90    | 110   |     |       |      |
| L86478-02DUP    | DUP  | 03/14/24 0:16 |             |       | .071   | .07   | mg/L  |      |       |       | 1   | 20    | RA   |
| WG585640CCV1    | CCV  | 03/14/24 0:21 | WI240313-5  | 2     |        | 1.984 | mg/L  | 99   | 90    | 110   |     |       |      |
| WG585640CCB1    | CCB  | 03/14/24 0:24 |             |       |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |
| WG585640CCV2    | CCV  | 03/14/24 0:33 | WI240313-5  | 2     |        | 1.98  | mg/L  | 99   | 90    | 110   |     |       |      |
| WG585640CCB2    | CCB  | 03/14/24 0:37 |             |       |        | U     | mg/L  |      | -0.02 | 0.02  |     |       |      |

GCC

ACZ Project ID: **L86481**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Nitrite as N**

EPA 353.2 - Automated Cadmium Reduction

| ACZ ID          | Type | Analyzed      | PCN/SCN     | QC   | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|---------------|-------------|------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585640</b> |      |               |             |      |        |       |       |      |       |       |     |       |      |
| WG585640ICV     | ICV  | 03/14/24 0:06 | WI240103-7  | .608 |        | .639  | mg/L  | 105  | 90    | 110   |     |       |      |
| WG585640ICB     | ICB  | 03/14/24 0:07 |             |      |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG585640LFB     | LFB  | 03/14/24 0:11 | WI240228-17 | 1    |        | .994  | mg/L  | 99   | 90    | 110   |     |       |      |
| L86478-01AS     | AS   | 03/14/24 0:13 | WI240228-17 | 1    | U      | .985  | mg/L  | 99   | 90    | 110   |     |       |      |
| L86478-02DUP    | DUP  | 03/14/24 0:16 |             |      | U      | U     | mg/L  |      |       |       | 0   | 20    | RA   |
| WG585640CCV1    | CCV  | 03/14/24 0:21 | WI240313-5  | 1    |        | .997  | mg/L  | 100  | 90    | 110   |     |       |      |
| WG585640CCB1    | CCB  | 03/14/24 0:24 |             |      |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |
| WG585640CCV2    | CCV  | 03/14/24 0:33 | WI240313-5  | 1    |        | 1.003 | mg/L  | 100  | 90    | 110   |     |       |      |
| WG585640CCB2    | CCB  | 03/14/24 0:37 |             |      |        | U     | mg/L  |      | -0.01 | 0.01  |     |       |      |

**Potassium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |          |        |       |       |      |       |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 20       |        | 19.84 | mg/L  | 99   | 95    | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |          |        | U     | mg/L  |      | -1.5  | 1.5   |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | 1.004    |        | .98   | mg/L  | 98   | 70    | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | 1.004    |        | .96   | mg/L  | 96   | 80    | 120   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | 100.0104 |        | 100.5 | mg/L  | 100  | 85    | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | 100.0104 | 3.23   | 105.7 | mg/L  | 102  | 85    | 115   |     |       |      |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | 100.0104 | 3.23   | 105.3 | mg/L  | 102  | 85    | 115   | 0   | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 10       |        | 9.68  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |          |        | U     | mg/L  |      | -1.5  | 1.5   |     |       |      |
| L86484-01AS     | AS   | 03/14/24 18:27 | II240306-3 | 100.0104 | 3.41   | 103.3 | mg/L  | 100  | 85    | 115   |     |       |      |
| L86484-01ASD    | ASD  | 03/14/24 18:30 | II240306-3 | 100.0104 | 3.41   | 105.5 | mg/L  | 102  | 85    | 115   | 2   | 20    |      |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 10       |        | 9.7   | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |          |        | U     | mg/L  |      | -1.5  | 1.5   |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 10       |        | 9.72  | mg/L  | 97   | 90    | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |          |        | U     | mg/L  |      | -1.5  | 1.5   |     |       |      |

**Residue, Filterable (TDS) @180C**

SM2540C

| ACZ ID          | Type | Analyzed       | PCN/SCN   | QC   | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|-----------|------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585877</b> |      |                |           |      |        |       |       |      |       |       |     |       |      |
| WG585877PBW     | PBW  | 03/18/24 15:45 |           |      |        | U     | mg/L  |      | -20   | 20    |     |       |      |
| WG585877LCSW    | LCSW | 03/18/24 15:50 | PCN626253 | 1000 |        | 978   | mg/L  | 98   | 80    | 120   |     |       |      |
| L86481-04DUP    | DUP  | 03/18/24 16:22 |           |      | 2550   | 2536  | mg/L  |      |       |       | 1   | 10    |      |

GCC

ACZ Project ID: **L86481**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Selenium, dissolved**

M200.8 ICP-MS

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found  | Units | Rec% | Lower    | Upper   | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|--------|-------|------|----------|---------|-----|-------|------|
| <b>WG585938</b> |      |                |            |        |        |        |       |      |          |         |     |       |      |
| WG585938ICV     | ICV  | 03/19/24 21:46 | MS240109-5 | .05    |        | .05086 | mg/L  | 102  | 90       | 110     |     |       |      |
| WG585938ICB     | ICB  | 03/19/24 21:47 |            |        |        | U      | mg/L  |      | -0.00022 | 0.00022 |     |       |      |
| WG585938LFB     | LFB  | 03/19/24 21:49 | MS240213-3 | .05005 |        | .05138 | mg/L  | 103  | 85       | 115     |     |       |      |
| WG585938CCV1    | CCV  | 03/19/24 22:07 | MS240305-4 | .1001  |        | .09974 | mg/L  | 100  | 90       | 110     |     |       |      |
| WG585938CCB1    | CCB  | 03/19/24 22:09 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| L86484-01AS     | AS   | 03/19/24 22:26 | MS240213-3 | .05005 | .025   | .08344 | mg/L  | 117  | 70       | 130     |     |       |      |
| L86484-01ASD    | ASD  | 03/19/24 22:27 | MS240213-3 | .05005 | .025   | .08362 | mg/L  | 117  | 70       | 130     | 0   | 20    |      |
| WG585938CCV2    | CCV  | 03/19/24 22:29 | MS240305-4 | .1001  |        | .09682 | mg/L  | 97   | 90       | 110     |     |       |      |
| WG585938CCB2    | CCB  | 03/19/24 22:31 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |
| WG585938CCV3    | CCV  | 03/19/24 22:42 | MS240305-4 | .1001  |        | .0958  | mg/L  | 96   | 90       | 110     |     |       |      |
| WG585938CCB3    | CCB  | 03/19/24 22:44 |            |        |        | U      | mg/L  |      | -0.0003  | 0.0003  |     |       |      |

**Sodium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC       | Sample | Found  | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|----------|--------|--------|-------|------|-------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |          |        |        |       |      |       |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 100      |        | 100.63 | mg/L  | 101  | 95    | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |          |        | U      | mg/L  |      | -0.6  | 0.6   |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | 1.005    |        | 1.02   | mg/L  | 101  | 70    | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | 1.005    |        | 1.07   | mg/L  | 106  | 80    | 120   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | 99.96689 |        | 101    | mg/L  | 101  | 85    | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | 99.96689 | 34.3   | 136.5  | mg/L  | 102  | 85    | 115   |     |       |      |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | 99.96689 | 34.3   | 135.6  | mg/L  | 101  | 85    | 115   | 1   | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 50       |        | 49.01  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |          |        | U      | mg/L  |      | -0.6  | 0.6   |     |       |      |
| L86484-01AS     | AS   | 03/14/24 18:27 | II240306-3 | 99.96689 | 51.8   | 149.6  | mg/L  | 98   | 85    | 115   |     |       |      |
| L86484-01ASD    | ASD  | 03/14/24 18:30 | II240306-3 | 99.96689 | 51.8   | 151.6  | mg/L  | 100  | 85    | 115   | 1   | 20    |      |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 50       |        | 48.97  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |          |        | U      | mg/L  |      | -0.6  | 0.6   |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 50       |        | 48.93  | mg/L  | 98   | 90    | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |          |        | U      | mg/L  |      | -0.6  | 0.6   |     |       |      |

**GCC**

ACZ Project ID: **L86481**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Sulfate**

ASTM D516-07/-11/-16

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC    | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585945</b> |      |                |            |       |        |       |       |      |       |       |     |       |      |
| WG585945ICV     | ICV  | 03/19/24 13:40 | WI240319-1 | 20    |        | 20.4  | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585945ICB     | ICB  | 03/19/24 13:40 |            |       |        | U     | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585945CCV1    | CCV  | 03/19/24 16:32 | WI240319-2 | 25    |        | 26.4  | mg/L  | 106  | 85    | 115   |     |       |      |
| WG585945CCB1    | CCB  | 03/19/24 16:32 |            |       |        | U     | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585945LFB     | LFB  | 03/19/24 16:32 | WI240304-2 | 10    |        | 9.8   | mg/L  | 98   | 85    | 115   |     |       |      |
| WG585945CCV2    | CCV  | 03/19/24 16:36 | WI240319-2 | 25    |        | 25.3  | mg/L  | 101  | 85    | 115   |     |       |      |
| WG585945CCB2    | CCB  | 03/19/24 16:36 |            |       |        | U     | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585945CCV3    | CCV  | 03/19/24 16:39 | WI240319-2 | 25    |        | 25.3  | mg/L  | 101  | 85    | 115   |     |       |      |
| WG585945CCB3    | CCB  | 03/19/24 16:39 |            |       |        | U     | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585945CCV4    | CCV  | 03/19/24 16:42 | WI240319-2 | 25    |        | 26.2  | mg/L  | 105  | 85    | 115   |     |       |      |
| WG585945CCB4    | CCB  | 03/19/24 16:43 |            |       |        | U     | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585945CCV5    | CCV  | 03/19/24 16:44 | WI240319-2 | 25    |        | 25.9  | mg/L  | 104  | 85    | 115   |     |       |      |
| WG585945CCB5    | CCB  | 03/19/24 16:44 |            |       |        | U     | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585945CCV6    | CCV  | 03/19/24 16:49 | WI240319-2 | 25    |        | 26    | mg/L  | 104  | 85    | 115   |     |       |      |
| WG585945CCB6    | CCB  | 03/19/24 16:49 |            |       |        | U     | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585945CCV7    | CCV  | 03/19/24 16:50 | WI240319-2 | 25    |        | 25.9  | mg/L  | 104  | 85    | 115   |     |       |      |
| WG585945CCB7    | CCB  | 03/19/24 16:50 |            |       |        | U     | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585945CCV8    | CCV  | 03/19/24 16:54 | WI240319-2 | 25    |        | 26.2  | mg/L  | 105  | 85    | 115   |     |       |      |
| WG585945CCB8    | CCB  | 03/19/24 16:54 |            |       |        | U     | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585945CCV13   | CCV  | 03/19/24 17:02 | WI240319-2 | 25    |        | 25.9  | mg/L  | 104  | 85    | 115   |     |       |      |
| WG585945CCB13   | CCB  | 03/19/24 17:02 |            |       |        | U     | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585945CCV14   | CCV  | 03/19/24 17:05 | WI240319-2 | 25    |        | 26    | mg/L  | 104  | 85    | 115   |     |       |      |
| WG585945CCB14   | CCB  | 03/19/24 17:05 |            |       |        | U     | mg/L  |      | -2.5  | 2.5   |     |       |      |
| WG585945CCV15   | CCV  | 03/19/24 17:07 | WI240319-2 | 25    |        | 25.6  | mg/L  | 102  | 85    | 115   |     |       |      |
| WG585945CCB15   | CCB  | 03/19/24 17:07 |            |       |        | U     | mg/L  |      | -2.5  | 2.5   |     |       |      |
| L86487-01AS     | AS   | 03/19/24 17:08 | SO4TURB    | 10.01 | 3080   | 3007  | mg/L  | -729 | 85    | 115   |     |       | M3   |
| L86487-01ASD    | ASD  | 03/19/24 17:09 | SO4TURB    | 10.01 | 3080   | 3111  | mg/L  | 310  | 85    | 115   | 3   | 20    | M3   |
| WG585945CCV16   | CCV  | 03/19/24 17:09 | WI240319-2 | 25    |        | 25.3  | mg/L  | 101  | 85    | 115   |     |       |      |
| WG585945CCB16   | CCB  | 03/19/24 17:09 |            |       |        | U     | mg/L  |      | -2.5  | 2.5   |     |       |      |

**Vanadium, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC      | Sample | Found | Units | Rec% | Lower  | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|---------|--------|-------|-------|------|--------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |         |        |       |       |      |        |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 2       |        | 2.007 | mg/L  | 100  | 95     | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |         |        | U     | mg/L  |      | -0.015 | 0.015 |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | .025025 |        | .024  | mg/L  | 96   | 70     | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | .1001   |        | .089  | mg/L  | 89   | 80     | 120   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | .5005   |        | .5082 | mg/L  | 102  | 85     | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | .5005   | U      | .5114 | mg/L  | 102  | 85     | 115   |     |       |      |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | .5005   | U      | .515  | mg/L  | 103  | 85     | 115   | 1   | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 1       |        | .987  | mg/L  | 99   | 90     | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |         |        | U     | mg/L  |      | -0.03  | 0.03  |     |       |      |
| L86484-01AS     | AS   | 03/14/24 18:27 | II240306-3 | .5005   | U      | .4964 | mg/L  | 99   | 85     | 115   |     |       |      |
| L86484-01ASD    | ASD  | 03/14/24 18:30 | II240306-3 | .5005   | U      | .501  | mg/L  | 100  | 85     | 115   | 1   | 20    |      |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 1       |        | .978  | mg/L  | 98   | 90     | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |         |        | U     | mg/L  |      | -0.03  | 0.03  |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 1       |        | .984  | mg/L  | 98   | 90     | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |         |        | U     | mg/L  |      | -0.03  | 0.03  |     |       |      |

GCC

ACZ Project ID: **L86481**

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

**Zinc, dissolved**

M200.7 ICP

| ACZ ID          | Type | Analyzed       | PCN/SCN    | QC     | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| <b>WG585707</b> |      |                |            |        |        |       |       |      |       |       |     |       |      |
| WG585707ICV     | ICV  | 03/14/24 17:09 | II240305-3 | 2      |        | 1.942 | mg/L  | 97   | 95    | 105   |     |       |      |
| WG585707ICB     | ICB  | 03/14/24 17:14 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG585707PQV     | PQV  | 03/14/24 17:17 | II240221-2 | .05005 |        | .051  | mg/L  | 102  | 70    | 130   |     |       |      |
| WG585707SIC     | SIC  | 03/14/24 17:20 | II240222-2 | .1001  |        | .098  | mg/L  | 98   | 80    | 120   |     |       |      |
| WG585707LFB     | LFB  | 03/14/24 17:27 | II240306-3 | .50045 |        | .519  | mg/L  | 104  | 85    | 115   |     |       |      |
| L86402-01AS     | AS   | 03/14/24 17:33 | II240306-3 | .50045 | U      | .529  | mg/L  | 106  | 85    | 115   |     |       |      |
| L86402-01ASD    | ASD  | 03/14/24 17:36 | II240306-3 | .50045 | U      | .521  | mg/L  | 104  | 85    | 115   | 2   | 20    |      |
| WG585707CCV1    | CCV  | 03/14/24 17:57 | II240313-2 | 1      |        | .961  | mg/L  | 96   | 90    | 110   |     |       |      |
| WG585707CCB1    | CCB  | 03/14/24 18:00 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| L86484-01AS     | AS   | 03/14/24 18:27 | II240306-3 | .50045 | .034   | .529  | mg/L  | 99   | 85    | 115   |     |       |      |
| L86484-01ASD    | ASD  | 03/14/24 18:30 | II240306-3 | .50045 | .034   | .537  | mg/L  | 101  | 85    | 115   | 2   | 20    |      |
| WG585707CCV2    | CCV  | 03/14/24 18:33 | II240313-2 | 1      |        | .948  | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585707CCB2    | CCB  | 03/14/24 18:36 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |
| WG585707CCV3    | CCV  | 03/14/24 18:48 | II240313-2 | 1      |        | .95   | mg/L  | 95   | 90    | 110   |     |       |      |
| WG585707CCB3    | CCB  | 03/14/24 18:51 |            |        |        | U     | mg/L  |      | -0.06 | 0.06  |     |       |      |

**GCC Rio Grande**

ACZ Project ID: **L86481**

| ACZ ID           | WORKNUM  | PARAMETER            | METHOD                                  | QUAL | DESCRIPTION                                                                                                                                                                                           |
|------------------|----------|----------------------|-----------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>L86481-01</b> | WG585707 | Iron, dissolved      | M200.7 ICP                              | MA   | Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.                                                                      |
|                  | WG585640 | Nitrate/Nitrite as N | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  |          | Nitrite as N         | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  | WG585945 | Sulfate              | ASTM D516-07/-11/-16                    | M3   | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| <b>L86481-02</b> | WG585938 | Cadmium, dissolved   | M200.8 ICP-MS                           | DC   | Sample required dilution. Non-target analyte exceeded calibration range.                                                                                                                              |
|                  | WG585707 | Calcium, dissolved   | M200.7 ICP                              | M3   | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
|                  | WG585938 | Lead, dissolved      | M200.8 ICP-MS                           | DC   | Sample required dilution. Non-target analyte exceeded calibration range.                                                                                                                              |
|                  | WG585640 | Nitrate/Nitrite as N | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  |          | Nitrite as N         | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  | WG585938 | Selenium, dissolved  | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|                  |          |                      | M200.8 ICP-MS                           | EA   | Concentration estimated. Analytical result was less than the negative MDL due to matrix interferences.                                                                                                |
|                  | WG585945 | Sulfate              | ASTM D516-07/-11/-16                    | M3   | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
| <b>L86481-03</b> | WG585938 | Arsenic, dissolved   | M200.8 ICP-MS                           | DC   | Sample required dilution. Non-target analyte exceeded calibration range.                                                                                                                              |
|                  |          | Cadmium, dissolved   | M200.8 ICP-MS                           | DC   | Sample required dilution. Non-target analyte exceeded calibration range.                                                                                                                              |
|                  | WG585707 | Calcium, dissolved   | M200.7 ICP                              | M3   | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
|                  | WG585938 | Lead, dissolved      | M200.8 ICP-MS                           | DC   | Sample required dilution. Non-target analyte exceeded calibration range.                                                                                                                              |
|                  | WG585640 | Nitrate/Nitrite as N | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  |          | Nitrite as N         | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|                  | WG585938 | Selenium, dissolved  | M200.8 ICP-MS                           | DC   | Sample required dilution. Non-target analyte exceeded calibration range.                                                                                                                              |
|                  | WG585945 | Sulfate              | ASTM D516-07/-11/-16                    | M3   | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |

**GCC Rio Grande**

ACZ Project ID: **L86481**

| ACZ ID    | WORKNUM  | PARAMETER            | METHOD                                  | QUAL | DESCRIPTION                                                                                                                                                                                           |
|-----------|----------|----------------------|-----------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L86481-04 | WG585938 | Arsenic, dissolved   | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|           |          | Cadmium, dissolved   | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|           | WG585707 | Calcium, dissolved   | M200.7 ICP                              | M3   | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |
|           | WG585914 | Chloride             | SM4500Cl-E                              | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|           | WG585938 | Cobalt, dissolved    | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|           |          | Lead, dissolved      | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|           | WG585640 | Nitrate/Nitrite as N | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|           |          | Nitrite as N         | EPA 353.2 - Automated Cadmium Reduction | RA   | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL).                                 |
|           | WG585938 | Selenium, dissolved  | M200.8 ICP-MS                           | D1   | Sample required dilution due to matrix.                                                                                                                                                               |
|           |          |                      | M200.8 ICP-MS                           | EA   | Concentration estimated. Analytical result was less than the negative MDL due to matrix interferences.                                                                                                |
|           | WG585945 | Sulfate              | ASTM D516-07/-11/-16                    | M3   | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable. |

GCC Rio Grande

ACZ Project ID: **L86481**

No certification qualifiers associated with this analysis

GCC Rio Grande

ACZ Project ID: L86481

Date Received: 03/13/2024 11:02

Received By:

Date Printed: 3/14/2024

**Receipt Verification**

|                                                                                             | YES                                 | NO                                  | NA                                  |
|---------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 1) Is a foreign soil permit included for applicable samples?                                | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 2) Is the Chain of Custody form or other directive shipping papers present?                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3) Does this project require special handling procedures such as CLP protocol?              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 4) Are any samples NRC licensable material?                                                 | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 5) If samples are received past hold time, proceed with requested short hold time analyses? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6) Is the Chain of Custody form complete and accurate?                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

**Samples/Containers**

|                                                                                         | YES                                 | NO                       | NA                                  |
|-----------------------------------------------------------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 8) Are all containers intact and with no leaks?                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 9) Are all labels on containers and are they intact and legible?                        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 11) For preserved bottle types, was the pH checked and within limits? <sup>1</sup>      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 12) Is there sufficient sample volume to perform all requested work?                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 13) Is the custody seal intact on all containers?                                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14) Are samples that require zero headspace acceptable?                                 | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 15) Are all sample containers appropriate for analytical requirements?                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 16) Is there an Hg-1631 trip blank present?                                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 17) Is there a VOA trip blank present?                                                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 18) Were all samples received within hold time?                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

NA indicates Not Applicable

**Chain of Custody Related Remarks**

**Client Contact Remarks**

**Shipping Containers**

| Cooler Id | Temp (°C) | Temp<br>Criteria (°C) | Rad (µR/Hr) | Custody Seal<br>Intact? |
|-----------|-----------|-----------------------|-------------|-------------------------|
| -----     | -----     | -----                 | -----       | -----                   |
| 7586      | 3.8       | <=6.0                 | 15          | Yes                     |

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

GCC Rio Grande

ACZ Project ID: L86481

Date Received: 03/13/2024 11:02

Received By:

Date Printed: 3/14/2024

<sup>1</sup> The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).



Accredited  
Environmental  
Testing

2773 Downhill Drive  
Steamboat Springs, CO 80487  
(970) 879-6590

L86481

## CHAIN of CUSTODY

Report to:

Name: Amy Rodrigues

Company: GCC Rio Grande Inc

E-mail: aveek@gcc.com

Address: 3372 Lime Road

Pueblo CO 81004

Telephone: 719-647-6861

Copy of Report to:

Name: Landon Beck

Company: Resource Hydrogeologic

E-mail: lbeck@resourcehydrogeologic.com

Telephone: (970) 459-4865

Invoice to:

Name: Amy Rodrigues

Company: GCC Rio Grande Inc

E-mail: aveek@gcc.com

Address: 3372 Lime Road

Pueblo CO 81004

Telephone: 719-647-6861

Copy of Invoice to:

Name:

Company:

E-mail:

Address:

Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES



NO



If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for SDWA Compliance Monitoring?

Yes



No



If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Amy Rodrigues

Sampler's Site Information

State CO

Zip code 81004

Time Zone MST

\*Sampler's Signature: Amy Rodrigues

I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

### PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: GW-COMPLIANCE

PO#: 258478

Reporting state for compliance testing:

Check box if samples include NRC licensed material?



SAMPLE IDENTIFICATION

DATE:TIME

Matrix

# of Containers

GW-Compliance

MW-11

3/12/2024 09:21

GW

3



MW-12

3/12/2024 09:42

GW

3



MW-9

3/12/2024 11:30

GW

3



MW-10

3/12/2024 12:02

GW

3



Matrix

SW (Surface Water) - GW (Ground Water) - WW (Waste Water) - DW (Drinking Water) - SL (Sludge) - SO (Soil) - OL (Oil) - Other (Specify)

### REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

Amy Rodrigues

3/12/24 13:45

L. Beck

3/13/24 11:02

Qualtrax ID: 1984

Revision #: 2

White - Return with sample.

Yellow - Retain for your records.

| Location ID | Sample Date | Depth to Water (ft BTOC) | Field pH (SU)                                                                                                                                                                                          | Field Specific Conductance (µS/cm) | Field Temperature (Degrees C) | Total Dissolved Solids (mg/L) | Total Alkalinity (mg/L) | Bicarbonate as CaCO3 (mg/L) | Carbonate as CaCO3 (mg/L) | Hydroxide as CaCO3 (mg/L) | Chloride (mg/L) | Sulfate (mg/L) | Fluoride (mg/L) | Nitrate (mg/L) | Nitrate/Nitrite (mg/L) | Nitrite (mg/L) | Aluminum (mg/L) | Arsenic (mg/L) | Beryllium (mg/L) |
|-------------|-------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------|-------------------------------|-------------------------|-----------------------------|---------------------------|---------------------------|-----------------|----------------|-----------------|----------------|------------------------|----------------|-----------------|----------------|------------------|
| MW-5        | 12/9/2019   | DRY                      |                                                                                                                                                                                                        |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-5        | 9/17/2020   | DRY                      |                                                                                                                                                                                                        |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-5        | 11/23/2020  | DRY                      |                                                                                                                                                                                                        |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-5        | 5/12/2021   | DRY                      |                                                                                                                                                                                                        |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-5        | 11/18/2021  | DRY                      |                                                                                                                                                                                                        |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-5        | 3/24/2022   | DRY                      |                                                                                                                                                                                                        |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-5        | 5/10/2022   | DRY                      |                                                                                                                                                                                                        |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-5        | 11/8/2022   | DRY                      |                                                                                                                                                                                                        |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-5        | 5/30/2023   | DRY                      |                                                                                                                                                                                                        |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-5        | 11/14/2023  | DRY                      |                                                                                                                                                                                                        |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-6        | 1/3/2018    | 48.24                    | 6.95                                                                                                                                                                                                   | 4720                               | 14                            | ----                          | ----                    | ----                        | ----                      | ----                      | ----            | ----           | ----            | ----           | <0.020                 | ----           | 0.64            | <0.03          | <0.005           |
| MW-6        | 4/27/2018   | 41.31                    | 7.20                                                                                                                                                                                                   | 6200                               | 16.3                          | 5,030                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | <1.0            | <0.10          | <0.020                 | <0.040         | <0.2            | <0.03          | <0.005           |
| MW-6        | 9/26/2018   | DRY                      |                                                                                                                                                                                                        |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-6        | 12/12/2018  | 42.91                    | 7.39                                                                                                                                                                                                   | 6500                               | 14.9                          | ----                          | ----                    | ----                        | ----                      | ----                      | ----            | ----           | <1.0            | ----           | <0.020                 | <0.040         | <0.2            | <0.03          | <0.005           |
| MW-6        | 3/7/2019    | 56.03                    | Inadequate volume for representative field parameters or lab sample submittal                                                                                                                          |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-6        | 6/12/2019   | 43.92                    | 7.14                                                                                                                                                                                                   | 5975                               | 17.8                          | 5,620                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.60            | 12             | 12.1                   | 0.030          | 0.5             | <0.001         | <0.05            |
| MW-6        | 9/19/2019   | 28.15                    | ----                                                                                                                                                                                                   | ----                               | ----                          | 5,860                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.60            | 11             | 11.1                   | 0.080          | <0.3            | 0.0004         | <0.05            |
| MW-6        | 12/9/2019   | 30.44                    | ----                                                                                                                                                                                                   | ----                               | ----                          | 5,460                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.80            | 8.1            | 8.12                   | 0.020          | <0.3            | <0.001         | <0.05            |
| MW-6        | 3/9/2020    | 32.30                    | 7.22                                                                                                                                                                                                   | 5591                               | 16.5                          | 5,780                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.70            | 2.02           | 2.58                   | 0.560          | <0.3            | 0.0005         | <0.05            |
| MW-6        | 9/16/2020   | 29.78                    | 7.20                                                                                                                                                                                                   | 5405                               | 16.7                          | 5,480                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.50            | 0.05           | 0.05                   | <0.01          | 0.19            | 0.0009         | <0.01            |
| MW-6        | 11/23/2020  | 30.92                    | 7.25                                                                                                                                                                                                   | 5425                               | 14.3                          | 5,300                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.57            | 1.62           | 1.63                   | 0.012          | <0.25           | <0.001         | <0.05            |
| MW-6        | 2/22/2021   | 36.61                    | 7.55                                                                                                                                                                                                   | 5684                               | 15.8                          | 5,780                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.62            | 0.07           | 0.067                  | <0.01          | <0.25           | <0.001         | <0.05            |
| MW-6        | 5/19/2021   | 46.32                    | 7.43                                                                                                                                                                                                   | 5945                               | 14.9                          | ----                          | 524                     | 524                         | <2                        | <2                        | 109             | 3200           | 0.57            | 0.03           | 0.032                  | <0.01          | <0.05           | 0.00237        | <0.01            |
| MW-6        | 8/31/2021   | 26.18                    | 7.32                                                                                                                                                                                                   | 6170                               | 16.1                          | ----                          | 459                     | 459                         | <2                        | <2                        | 74              | 3390           | 0.58            | 4.2            | 4.24                   | 0.038          | <0.05           | <0.001         | <0.01            |
| MW-6        | 11/18/2021  | 29.70                    | 7.18                                                                                                                                                                                                   | 7477                               | 14.2                          | ----                          | 450                     | 450                         | <2                        | <2                        | 76              | 3750           | 0.62            | 0.846          | 0.85                   | <0.01          | <0.05           | <0.001         | <0.01            |
| MW-6        | 3/22/2022   | 36.00                    | 7.23                                                                                                                                                                                                   | 5322                               | 14.0                          | 5,200                         | 321                     | 321                         | <2                        | <2                        | 49              | 3610           | 0.62            | 8.01           | 8.02                   | 0.011          | <0.25           | <0.001         | <0.05            |
| MW-6        | 5/17/2022   | 36.94                    | 7.03                                                                                                                                                                                                   | 5726                               | 16.7                          | 5,190                         | 461                     | 461                         | <2                        | <2                        | 89              | 3140           | 0.57            | 3.24           | 3.25                   | 0.015          | <0.25           | <0.0002        | <0.05            |
| MW-6        | 8/15/2022   | 36.78                    | 7.02                                                                                                                                                                                                   | 5404                               | 20.5                          | 5,410                         | 421                     | 421                         | <2                        | <2                        | 69              | 3700           | 0.50            | 1.02           | 1.09                   | 0.070          | <0.25           | 0.00040        | <0.05            |
| MW-6        | 11/7/2022   | 33.62                    | 6.92                                                                                                                                                                                                   | 5311                               | 15.7                          | 5,200                         | 445                     | 445                         | <2                        | <2                        | 77              | 3180           | 0.79            | <0.02          | <0.02                  | <0.01          | <0.25           | <0.001         | <0.05            |
| MW-6        | 3/6/2023    | 37.00                    | 6.92                                                                                                                                                                                                   | 4358                               | 15.9                          | 5,390                         | 491                     | 491                         | <2                        | <2                        | 76              | 3200           | 0.52            | <0.02          | <0.02                  | <0.01          | <0.05           | 0.00109        | <0.01            |
| MW-6        | 5/30/2023   | 24.61                    | 6.96                                                                                                                                                                                                   | 5847                               | 18.2                          | 5,380                         | 493                     | 493                         | <2                        | <2                        | 75              | 3150           | 0.52            | 0.32           | 0.361                  | 0.040          | <0.05           | <0.001         | <0.01            |
| MW-6        | 8/8/2023    | 26.90                    | 7.00                                                                                                                                                                                                   | 5361                               | 21.1                          | 5,440                         | 456                     | 456                         | <2                        | <2                        | 74              | 3260           | 0.43            | 0.29           | 0.287                  | <0.01          | 0.057           | 0.00076        | 0.012            |
| MW-6        | 11/14/2023  | 32.12                    | 6.99                                                                                                                                                                                                   | 5278                               | 15.9                          | 5,200                         | 448                     | 448                         | <2                        | <2                        | 68              | 3120           | 0.55            | 0.16           | 0.156                  | <0.01          | <0.25           | <0.001         | <0.05            |
| MW-6        | 3/11/2024   | 34.16                    | 6.93                                                                                                                                                                                                   | 5147                               | 14.5                          | 5,310                         | 480                     | 480                         | <2                        | <2                        | 83              | 3230           | 0.53            | <0.02          | <0.02                  | <0.01          | <0.25           | 0.00120        | <0.01            |
| MW-7        | 1/3/2018    | 42.91                    | 6.86                                                                                                                                                                                                   | 4765                               | 15                            | 5,510                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.42            | ----           | <0.020                 | <1.00          | 1.35            | 0.00949        | <0.005           |
| MW-7        | 4/27/2018   | 39.09                    | 6.85                                                                                                                                                                                                   | 5820                               | 15                            | 5,270                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | <0.50           | <0.050         | <0.100                 | <0.020         | <0.2            | <0.03          | <0.005           |
| MW-7        | 9/26/2018   | DRY                      |                                                                                                                                                                                                        |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-7        | 12/12/2018  | 37.84                    | 6.90                                                                                                                                                                                                   | 6093                               | 14                            | ----                          | ----                    | ----                        | ----                      | ----                      | ----            | ----           | <1.0            | ----           | <0.020                 | <0.040         | <0.2            | <0.03          | <0.005           |
| MW-7        | 3/7/2019    | 40.79                    | 6.95                                                                                                                                                                                                   | 6020                               | 13.7                          | 5,640                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | ----            | ----           | 0.014                  | <0.040         | <0.2            | <0.03          | <0.005           |
| MW-7        | 6/12/2019   | 31.25                    | 6.95                                                                                                                                                                                                   | 5997                               | 18                            | 5,700                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.50            | 1.73           | 1.74                   | 0.010          | <0.3            | <0.001         | <0.05            |
| MW-7        | 9/18/2019   | 27.89                    | ----                                                                                                                                                                                                   | ----                               | ----                          | 6,740                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.50            | 10             | 10.1                   | 0.020          | 0.40            | 0.0003         | <0.05            |
| MW-7        | 12/9/2019   | 29.51                    | ----                                                                                                                                                                                                   | ----                               | ----                          | 5,320                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.50            | 14             | 14.3                   | 0.080          | <0.3            | <0.001         | <0.05            |
| MW-7        | 3/9/2020    | 32.46                    | 7.01                                                                                                                                                                                                   | 6459                               | 15.8                          | 6,540                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.40            | 15             | 14.9                   | 0.060          | <0.3            | <0.0002        | <0.05            |
| MW-7        | 9/16/2020   | 29.65                    | 7.17                                                                                                                                                                                                   | 4772                               | 15.2                          | 4,950                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.40            | 11             | 11.0                   | 0.030          | 0.16            | <0.0002        | <0.01            |
| MW-7        | 11/23/2020  | 30.40                    | 7.16                                                                                                                                                                                                   | 4999                               | 14.3                          | 5,070                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.47            | 11             | 11.2                   | 0.039          | <0.25           | <0.001         | <0.05            |
| MW-7        | 2/22/2021   | 32.87                    | 7.55                                                                                                                                                                                                   | 6077                               | 14.4                          | 6,500                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.49            | 9.9            | 9.98                   | 0.068          | <0.25           | <0.001         | <0.05            |
| MW-7        | 5/19/2021   | 30.83                    | 7.51                                                                                                                                                                                                   | 5464                               | 15.2                          | ----                          | 309                     | 309                         | <2                        | <2                        | 51              | 3430           | 0.40            | 7.51           | 7.54                   | 0.027          | <0.05           | <0.0002        | <0.01            |
| MW-7        | 8/31/2021   | 25.79                    | 7.15                                                                                                                                                                                                   | 6061                               | 15.4                          | ----                          | 467                     | 467                         | <2                        | <2                        | 96              | 3360           | 0.52            | 0.91           | 0.91                   | <0.01          | <0.05           | <0.001         | <0.01            |
| MW-7        | 11/18/2021  | 29.45                    | 6.94                                                                                                                                                                                                   | 6589                               | 13.9                          | ----                          | 299                     | 299                         | <2                        | <2                        | 53              | 3700           | 0.53            | 3.84           | 3.84                   | <0.01          | <0.05           | <0.001         | <0.01            |
| MW-7        | 3/22/2022   | 36.70                    | 6.95                                                                                                                                                                                                   | 5654                               | 15.1                          | 5,760                         | 491                     | 491                         | <2                        | <2                        | 94              | 3650           | 0.57            | 1.22           | 1.24                   | 0.02           | <0.25           | <0.001         | <0.05            |
| MW-7        | 5/10/2022   | 37.61                    | 6.86                                                                                                                                                                                                   | 5593                               | 15.2                          | 5,660                         | 477                     | 477                         | <2                        | <2                        | 104             | 3240           | 0.58            | 0.19           | 0.19                   | <0.01          | <0.25           | <0.001         | <0.05            |
| MW-7        | 8/15/2022   | 29.34                    | 6.99                                                                                                                                                                                                   | 5905                               | 20.0                          | 6,170                         | 484                     | 484                         | <2                        | <2                        | 97              | 3810           | 0.50            | 0.15           | 0.15                   | <0.01          | <0.25           | 0.0004         | <0.05            |
| MW-7        | 11/7/2022   | 33.53                    | 7.08                                                                                                                                                                                                   | 4727                               | 15.2                          | 4,690                         | 250                     | 250                         | <2                        | <2                        | 41              | 3000           | 0.37            | 4.65           | 4.65                   | <0.01          | <0.25           | <0.001         | <0.05            |
| MW-7        | 3/6/2023    | 37.43                    | 6.95                                                                                                                                                                                                   | 4958                               | 15.6                          | 6,210                         | 545                     | 545                         | <2                        | <2                        | 91              | 3630           | 0.55            | 0.26           | 0.276                  | 0.013          | <0.25           | <0.002         | <0.05            |
| MW-7        | 5/30/2023   | 24.50                    | 7.03                                                                                                                                                                                                   | 5099                               | 18.1                          | 5,560                         | 358                     | 358                         | <2                        | <2                        | 47              | 3470           | 0.41            | 8.66           | 8.66                   | <0.01          | <0.05           | <0.001         | <0.01            |
| MW-7        | 8/8/2023    | 26.41                    | 6.99                                                                                                                                                                                                   | 5757                               | 17.6                          | 5,690                         | 484                     | 484                         | <2                        | <2                        | 90              | 3500           | 0.41            | 0.11           | 0.113                  | <0.01          | 0.057           | <0.0004        | 0.012            |
| MW-7        | 11/14/2023  | 31.76                    | 6.97                                                                                                                                                                                                   | 5750                               | 16.2                          | 5,630                         | 552                     | 552                         | <2                        | <2                        | 117             | 3140           | 0.58            | <0.02          | <0.02                  | <0.01          | <0.05           | <0.001         | <0.01            |
| MW-7        | 3/11/2024   | 34.06                    | 7.09                                                                                                                                                                                                   | 4728                               | 14.5                          | 4,740                         | 260                     | 260                         | <2                        | <2                        | 45              | 3140           | 0.51            | 5.41           | 5.41                   | <0.01          | <0.05           | <0.001         | <0.01            |
| MW-8        | 3/9/2020    | 43.78                    | Inadequate volume for representative field parameters or lab sample submittal at time of water level measurement and then COVID-19 restrictions enacted before well could be revisited following purge |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-8        | 9/16/2020   | 29.74                    | Inadequate volume for representative field parameters or lab sample submittal after purge - sample collected 9/28/20 because well took 2 weeks to recover                                              |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-8        | 9/28/2020   | 57.43                    | 7.26                                                                                                                                                                                                   | 9179                               | 14.7                          | 7,900                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 0.90            | <0.02          | <0.02                  | <0.01          | <0.25           | 0.0138         | <0.05            |
| MW-8        | 11/9/2020   | 37.26                    | Inadequate volume for representative field parameters or lab sample submittal after purge - sample collected 11/23/20 because well took 2 weeks to recover                                             |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |
| MW-8        | 11/23/2020  | 39.73                    | 7.11                                                                                                                                                                                                   | 5327                               | 13.9                          | 4,060                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 1.14            | <0.050         | <0.02                  | <0.01          | <0.25           | 0.00219        | <0.05            |
| MW-8        | 2/22/2021   | 34.21                    | 7.65                                                                                                                                                                                                   | 5476                               | 14.8                          | 4,180                         | ----                    | ----                        | ----                      | ----                      | ----            | ----           | 1.10            | <0.02          | <0.02                  | <0.01          | <0.05           | 0.00350        | <0.01            |
| MW-8        | 5/19/2021   | 34.56                    | 7.60                                                                                                                                                                                                   | 5571                               | 16.1                          | ----                          | 1200                    | 1200                        | <2                        | <2                        | 316             | 1520           | 0.89            | 0.99           | 1.01                   | 0.016          | <0.05           | 0.00155        | <0.01            |
| MW-8        | 8/31/2021   | 25.75                    | 7.32                                                                                                                                                                                                   | 6077                               | 17.8                          | ----                          | 1080                    | 1080                        | <2                        | <2                        | 272             | 1820           | 1.00            | <0.02          | 0.022                  | 0.014          | <0.05           | 0.00124        | <0.01            |
| MW-8        | 11/18/2021  | 24.46                    | 7.14                                                                                                                                                                                                   | 3852                               | 14.7                          | ----                          | 1140                    | 1140                        | <2                        | <2                        | 283             | 1920           | 0.90            | 0.07           | 0.096                  | 0.028          | <0.05           | <0.001         | <0.01            |
| MW-8        | 3/28/2022   | 36.35                    | 7.13                                                                                                                                                                                                   | 4545                               | 15.1                          | 3,040                         | 1020                    | 1020                        | <2                        | <2                        | 204             | 1090           | 0.92            | 0.03           | 0.041                  | 0.012          | <0.1            | 0.00279        | <0.02            |
| MW-8        | 5/17/2022   | 37.93                    | 7.12                                                                                                                                                                                                   | 5556                               | 18.0                          | 3,630                         | 1130                    | 1130                        | <2                        | <2                        | 315             | 1260           | 1.01            | <0.02          | <0.02                  | <0.01          | <0.1            | 0.00427        | <0.02            |
| MW-8        | 8/15/2022   | 30.25                    | 7.18                                                                                                                                                                                                   | 5325                               | 18.8                          | 3,790                         | 1090                    | 1090                        | <2                        | <2                        | 291             | 1510           | 1.09            | <0.02          | <0.02                  | <0.01          | <0.1            | 0.00767        | <0.02            |
| MW-8        | 11/7/2022   | 32.00                    | 7.15                                                                                                                                                                                                   | 5236                               | 16.1                          | 3,840                         | 1130                    | 1130                        | <2                        | <2                        | 297             | 1450           | 0.90            | <0.02          | <0.02                  | <0.01          | <0.1            | 0.00542        | <0.02            |
| MW-8</      |             |                          |                                                                                                                                                                                                        |                                    |                               |                               |                         |                             |                           |                           |                 |                |                 |                |                        |                |                 |                |                  |

| Location ID | Sample Date | Boron<br>(mg/L) | Cadmium<br>(mg/L) | Chromium<br>(mg/L) | Cobalt<br>(mg/L) | Copper<br>(mg/L) | Calcium<br>(mg/L) | Iron<br>(mg/L) | Lead<br>(mg/L) | Lithium<br>(mg/L) | Magnesium<br>(mg/L) | Manganese<br>(mg/L) | Mercury<br>(mg/L) | Nickel<br>(mg/L) | Potassium<br>(mg/L) | Selenium<br>(mg/L) | Sodium<br>(mg/L) | Vanadium<br>(mg/L) | Zinc<br>(mg/L) | Barium<br>(mg/L) |
|-------------|-------------|-----------------|-------------------|--------------------|------------------|------------------|-------------------|----------------|----------------|-------------------|---------------------|---------------------|-------------------|------------------|---------------------|--------------------|------------------|--------------------|----------------|------------------|
| MW-5        | 12/9/2019   |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-5        | 9/17/2020   |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-5        | 11/23/2020  |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-5        | 5/12/2021   |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-5        | 11/18/2021  |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-5        | 3/24/2022   |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-5        | 5/10/2022   |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-5        | 11/8/2022   |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-5        | 5/30/2023   |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-5        | 11/14/2023  |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-6        | 1/3/2018    | 0.63            | <0.005            | <0.005             | 0.0042           | 0.006            | ----              | 0.47           | <0.01          | 0.66              | ----                | 0.59                | <0.0002           | 0.029            | ----                | <0.03              | ----             | <0.005             | 0.025          | ----             |
| MW-6        | 4/27/2018   | 0.65            | <0.005            | <0.005             | 0.019            | <0.01            | ----              | 0.06           | <0.01          | 0.69              | ----                | 1.14                | <0.0002           | 0.069            | ----                | <0.03              | ----             | <0.005             | <0.01          | 0.032            |
| MW-6        | 9/26/2018   |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-6        | 12/12/2018  | 0.62            | <0.005            | <0.005             | 0.0060           | <0.01            | ----              | <0.1           | 0.004          | 0.48              | ----                | 0.66                | <0.0002           | 0.017            | ----                | 0.0062             | ----             | 0.0012             | 0.009          | ----             |
| MW-6        | 3/7/2019    | DRY             |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    | DRY            |                  |
| MW-6        | 6/12/2019   | 0.50            | 0.0003            | <0.05              | <0.05            | <0.05            | ----              | 0.80           | 0.002          | 0.52              | ----                | 0.97                | <0.0002           | 0.150            | ----                | 0.0966             | ----             | <0.03              | <0.05          | ----             |
| MW-6        | 9/19/2019   | 0.30            | 0.00026           | <0.05              | 0.05             | <0.05            | ----              | 0.30           | 0.0004         | 0.49              | ----                | 0.58                | <0.0002           | 0.130            | ----                | 0.1400             | ----             | <0.03              | <0.05          | ----             |
| MW-6        | 12/9/2019   | 0.30            | <0.0003           | <0.05              | <0.05            | <0.05            | ----              | <0.2           | <0.0005        | 0.49              | ----                | 0.49                | <0.0002           | 0.110            | ----                | 0.0880             | ----             | <0.03              | <0.05          | ----             |
| MW-6        | 3/9/2020    | 0.30            | 0.00016           | <0.05              | <0.05            | 0.06             | ----              | <0.2           | <0.0001        | 0.48              | ----                | 0.40                | <0.0002           | 0.110            | ----                | 0.0401             | ----             | <0.03              | <0.05          | ----             |
| MW-6        | 9/16/2020   | 0.31            | 0.00011           | 0.01               | 0.03             | <0.01            | ----              | 0.19           | 0.0006         | 0.49              | ----                | 0.39                | <0.0002           | 0.088            | ----                | 0.0064             | ----             | <0.01              | 0.020          | ----             |
| MW-6        | 11/23/2020  | 0.33            | <0.00025          | <0.05              | <0.05            | <0.05            | ----              | <0.3           | <0.0005        | 0.45              | ----                | 0.33                | <0.0002           | 0.114            | ----                | 0.0155             | ----             | <0.05              | 0.110          | ----             |
| MW-6        | 2/22/2021   | 0.33            | <0.00025          | <0.05              | <0.05            | <0.05            | ----              | <0.3           | <0.0005        | 0.476             | ----                | 0.32                | <0.0002           | 0.0810           | ----                | 0.00487            | ----             | <0.05              | <0.1           | ----             |
| MW-6        | 5/19/2021   | 0.38            | 0.000058          | <0.02              | <0.02            | <0.01            | 315               | 0.13           | <0.0001        | 0.47              | 344                 | 0.36                | <0.0002           | 0.058            | 9.9                 | 0.0023             | 810              | <0.01              | <0.02          | ----             |
| MW-6        | 8/31/2021   | 0.24            | <0.00025          | <0.02              | <0.02            | <0.01            | 410               | <0.06          | <0.0005        | 0.49              | 498                 | 0.28                | <0.0002           | 0.085            | 11.2                | 0.0148             | 575              | <0.01              | <0.02          | ----             |
| MW-6        | 11/18/2021  | 0.25            | <0.00025          | <0.1               | <0.02            | <0.01            | 383               | <0.06          | <0.0005        | 0.47              | 473                 | 0.24                | <0.0002           | 0.076            | 10.3                | 0.0153             | 589              | <0.01              | <0.02          | ----             |
| MW-6        | 3/22/2022   | 0.21            | <0.00025          | <0.1               | <0.1             | <0.05            | 488               | <0.3           | <0.0005        | 0.43              | 460                 | 0.08                | <0.0002           | <0.04            | 11.5                | 0.0465             | 362              | <0.05              | <0.1           | ----             |
| MW-6        | 5/17/2022   | 0.32            | <0.00005          | <0.1               | 0.012            | <0.05            | 440               | <0.3           | <0.0001        | 0.46              | 422                 | 0.20                | <0.0002           | 0.121            | 10.9                | 0.0538             | 522              | <0.05              | <0.1           | ----             |
| MW-6        | 8/15/2022   | 0.19            | 0.000131          | <0.1               | 0.020            | <0.05            | 421               | 0.70           | <0.0001        | 0.43              | 410                 | 0.29                | <0.0002           | 0.409            | 10.8                | 0.0112             | 456              | <0.05              | <0.1           | ----             |
| MW-6        | 11/7/2022   | 0.28            | <0.00025          | <0.1               | 0.061            | <0.05            | 414               | 0.32           | <0.0005        | 0.43              | 411                 | 0.61                | <0.0002           | 0.320            | 10.3                | <0.0005            | 473              | <0.05              | <0.1           | ----             |
| MW-6        | 3/6/2023    | 0.25            | <0.00025          | <0.1               | 0.063            | <0.01            | 413               | 1.55           | <0.0005        | 0.42              | 416                 | 0.84                | <0.0002           | 0.102            | 10.7                | <0.0005            | 558              | <0.01              | <0.02          | ----             |
| MW-6        | 5/30/2023   | 0.24            | <0.00025          | <0.02              | 0.054            | <0.01            | 398               | 1.12           | <0.0005        | 0.46              | 421                 | 0.66                | <0.0002           | 0.090            | 10.5                | 0.0032             | 566              | <0.01              | 0.028          | ----             |
| MW-6        | 8/8/2023    | 0.27            | <0.0001           | <0.02              | 0.043            | 0.011            | 402               | 1.34           | <0.0002        | 0.49              | 422                 | 0.51                | <0.0002           | 0.078            | 11.5                | 0.0053             | 532              | <0.01              | 0.039          | ----             |
| MW-6        | 11/14/2023  | 0.24            | <0.00025          | <0.1               | 0.035            | <0.05            | 414               | 0.86           | <0.0005        | 0.43              | 408                 | 0.42                | <0.0002           | 0.083            | 11.3                | 0.0045             | 521              | <0.05              | <0.1           | ----             |
| MW-6        | 3/11/2024   | 0.26            | <0.00025          | <0.02              | 0.036            | <0.01            | 386               | 1.35           | <0.0005        | 0.4               | 398                 | 0.415               | <0.0002           | 0.068            | 9.9                 | <0.0005            | 543              | <0.01              | 0.095          | ----             |
| MW-7        | 1/3/2018    | 0.46            | <0.005            | <0.005             | 0.0014           | 0.00555          | ----              | 1.39           | <0.01          | 0.78              | ----                | 0.20                | <0.0002           | 0.016            | ----                | <0.03              | ----             | 0.0023             | 0.027          | ----             |
| MW-7        | 4/27/2018   | 0.44            | <0.005            | <0.005             | <0.005           | <0.01            | ----              | 0.25           | <0.01          | 0.67              | ----                | 0.17                | <0.0002           | 0.006            | ----                | <0.03              | ----             | <0.005             | <0.01          | 0.0142           |
| MW-7        | 9/26/2018   |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-7        | 12/12/2018  | 0.45            | <0.005            | <0.005             | <0.005           | <0.01            | ----              | 0.24           | <0.01          | 0.57              | ----                | 0.10                | <0.0002           | 0.004            | ----                | <0.03              | ----             | <0.005             | 0.010          | ----             |
| MW-7        | 3/7/2019    | 0.43            | <0.005            | <0.005             | 0.0020           | <0.01            | ----              | 0.30           | <0.01          | 0.56              | ----                | 0.15                | <0.0002           | 0.008            | ----                | <0.03              | ----             | <0.005             | 0.010          | ----             |
| MW-7        | 6/12/2019   | 0.40            | <0.0003           | <0.05              | <0.05            | <0.05            | ----              | <0.2           | <0.0005        | 0.62              | ----                | 0.14                | <0.0002           | <0.04            | ----                | 0.0087             | ----             | <0.03              | <0.05          | ----             |
| MW-7        | 9/18/2019   | 0.30            | 0.00015           | <0.05              | <0.05            | <0.05            | ----              | 0.80           | 0.001          | 0.48              | ----                | 0.10                | <0.0002           | <0.04            | ----                | 0.0762             | ----             | <0.03              | <0.05          | ----             |
| MW-7        | 12/9/2019   | 0.20            | <0.0003           | <0.05              | <0.05            | <0.05            | ----              | <0.2           | <0.0005        | 0.44              | ----                | <0.05               | <0.0002           | <0.04            | ----                | 0.0903             | ----             | <0.03              | <0.05          | ----             |
| MW-7        | 3/9/2020    | 0.20            | 0.00011           | <0.05              | <0.05            | <0.05            | ----              | <0.2           | <0.0001        | 0.60              | ----                | <0.05               | <0.0002           | <0.04            | ----                | 0.0701             | ----             | <0.03              | <0.05          | ----             |
| MW-7        | 9/16/2020   | 0.14            | 0.00007           | 0.01               | <0.01            | <0.01            | ----              | 0.15           | 0.0002         | 0.43              | ----                | 0.01                | <0.0002           | 0.013            | ----                | 0.0655             | ----             | <0.01              | <0.02          | ----             |
| MW-7        | 11/23/2020  | 0.15            | <0.00025          | <0.05              | <0.05            | <0.05            | ----              | <0.3           | <0.0005        | 0.38              | ----                | <0.05               | <0.0002           | <0.04            | ----                | 0.0452             | ----             | <0.05              | <0.1           | ----             |
| MW-7        | 2/22/2021   | 0.20            | <0.00025          | <0.05              | <0.05            | <0.05            | ----              | <0.3           | <0.0005        | 0.634             | ----                | <0.05               | <0.002            | <0.04            | ----                | 0.0348             | ----             | <0.05              | <0.1           | ----             |
| MW-7        | 5/19/2021   | 0.14            | 0.000057          | <0.02              | <0.02            | <0.01            | 460               | <0.06          | <0.0001        | 0.47              | 530                 | <0.01               | <0.0002           | 0.023            | 13.7                | 0.0401             | 393              | <0.01              | <0.02          | ----             |
| MW-7        | 8/31/2021   | 0.31            | <0.00025          | <0.02              | <0.02            | <0.01            | 391               | <0.06          | <0.0005        | 0.52              | 397                 | 0.07                | <0.0002           | 0.016            | 10.8                | 0.0115             | 666              | <0.01              | <0.02          | ----             |
| MW-7        | 11/18/2021  | 0.19            | <0.00025          | <0.1               | <0.02            | <0.01            | 429               | <0.06          | <0.0005        | 0.38              | 386                 | 0.06                | <0.0002           | 0.016            | 10.6                | 0.0284             | 402              | <0.01              | <0.02          | ----             |
| MW-7        | 3/22/2022   | 0.39            | <0.00025          | <0.1               | <0.1             | <0.05            | 396               | <0.3           | <0.0005        | 0.55              | 428                 | 0.06                | <0.0002           | <0.04            | 10.8                | 0.0114             | 671              | <0.05              | <0.1           | ----             |
| MW-7        | 5/10/2022   | 0.37            | <0.00025          | <0.1               | 0.0023           | <0.05            | 376               | <0.3           | <0.0005        | 0.55              | 392                 | 0.09                | <0.0002           | <0.04            | 10.1                | 0.0055             | 662              | <0.05              | <0.1           | ----             |
| MW-7        | 8/15/2022   | 0.29            | 0.000067          | <0.1               | 0.0028           | <0.05            | 346               | 0.44           | <0.0001        | 0.54              | 371                 | 0.07                | <0.0002           | <0.04            | 10.5                | 0.0008             | 703              | <0.05              | <0.1           | ----             |
| MW-7        | 11/7/2022   | 0.16            | <0.00025          | <0.1               | 0.0018           | <0.05            | 454               | <0.3           | <0.0005        | 0.34              | 365                 | <0.05               | <0.0002           | <0.04            | 11.3                | 0.0371             | 306              | <0.05              | <0.1           | ----             |
| MW-7        | 3/6/2023    | 0.32            | <0.0005           | <0.1               | 0.0040           | <0.05            | 384               | <0.3           | <0.001         | 0.56              | 449                 | 0.06                | <0.0002           | <0.04            | 11.2                | <0.001             | 706              | <0.05              | <0.1           | ----             |
| MW-7        | 5/30/2023   | 0.17            | <0.00025          | <0.02              | 0.0021           | <0.01            | 466               | 0.09           | <0.0005        | 0.45              | 519                 | <0.01               | <0.0002           | 0.023            | 13.1                | 0.0981             | 360              | <0.01              | <0.02          | ----             |
| MW-7        | 8/8/2023    | 0.33            | <0.0001           | <0.04              | 0.0025           | 0.011            | 385               | 0.17           | <0.0002        | 0.61              | 436                 | 0.08                | <0.0002           | 0.017            | 12.0                | 0.0080             | 638              | <0.01              | <0.02          | ----             |
| MW-7        | 11/14/2023  | 0.36            | <0.00025          | <0.02              | 0.0014           | <0.01            | 393               | 0.64           | <0.0005        | 0.62              | 353                 | 0.09                | <0.0002           | 0.008            | 10.2                | <0.0005            | 707              | <0.01              | <0.02          | ----             |
| MW-7        | 3/11/2024   | 0.15            | <0.00025          | <0.02              | 0.00243          | <0.01            | 432               | <0.06          | <0.0005        | 0.34              | 379                 | <0.01               | <0.0002           | 0.014            | 11.9                | 0.0287             | 370              | <0.01              | 0.080          | ----             |
| MW-8        | 3/9/2020    |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-8        | 9/16/2020   |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-8        | 9/28/2020   | 1.2             | <0.00025          | <0.05              | <0.05            | <0.05            | ----              | 2.62           | <0.0005        | 0.51              |                     | 0.30                | <0.0002           | <0.04            |                     | 0.0008             |                  | <0.05              | <0.1           | ----             |
| MW-8        | 11/9/2020   |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |
| MW-8        | 11/23/2020  | 0.82            | <0.00025          | <0.05              | <0.05            | <0.05            | ----              | <0.3           | <0.0005        | 0.33              | ----                | 0.25                | <0.0002           | <0.04            | ----                | <0.0005            | ----             | <0.05              | <0.1           | ----             |
| MW-8        | 2/22/2021   | 0.848           | <0.00025          | <0.01              | <0.01            | <0.01            | ----              | <0.06          | <0.0005        | 0.36              | ----                | 0.31                | <0.0002           | <0.008           | ----                | <0.0005            | ----             | <0.01              | <0.02          | ----             |
| MW-8        | 5/19/2021   | 0.89            | 0.000065          | <0.04              | <0.02            | <0.01            | 93                | <0.06          | 0.00016        | 0.37              | 31                  | 0.28                | <0.0002           | <0.008           | 6.2                 | 0.0002             | 1250             | <0.01              | <0.02          | ----             |
| MW-8        | 8/31/2021   | 0.78            | <0.00025          | <0.02              | <0.02            | <0.01            | 111               | <0.06          | <0.0005        | 0.38              | 39                  | 0.32                | <0.0002           | <0.008           | 5.9                 | <0.0005            | 1300             | <0.01              | <0.02          | ----             |
| MW-8        | 11/18/      |                 |                   |                    |                  |                  |                   |                |                |                   |                     |                     |                   |                  |                     |                    |                  |                    |                |                  |