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GCC Pueblo - RY2021 Annual Groundwater Report M2002-004

1 message

Amy Veek <aveek@gcc.com>

Fri, Jan 28, 2022 at 2:11 PM

To: "Lennberg - DNR, Patrick" <patrick.lennberg@state.co.us> Cc: Alarcon Alejandro <aalarcon@gcc.com>, Vance Sarah <svance@gcc.com>, Landon Beck <lbeck@resourcehydrogeologic.com>

Good Afternoon Patrick,

Attached is the Annual Groundwater Report for the monitoring performed at GCC's Pueblo Plant in 2021. Please let me know if you have any questions or if you would like to receive a hard copy of the report.

Regards,

Amy



Amy Veek

Environmental Engineer - Pueblo

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2 attachments



2021 Pueblo Annual GW Report Cover Letter 1.28.2022.pdf

GCC Rio Grande Pueblo Plant 2021 Annual Groundwater Report - FINAL_26JAN2022.pdf 18485K



January 28, 2022

Mr. Patrick Lennberg Colorado Division of Reclamation, Mining, and Safety Department of Natural Resources 1313 Sherman Street, Room 215 Denver, CO 80203

Submitted electronically to patrick.lennberg@state.co.us

Re:

GCC Rio Grande Inc Pueblo Facility, DRMS Permit M-2002-004

Reporting Year 2021 Annual Groundwater Report

Dear Mr. Lennberg:

GCC Rio Grande Inc. (GCC) owns and operates the Pueblo cement plant and associated on-site limestone quarry operations. Enclosed is the 2021 Annual Groundwater Report prepared on behalf of GCC by Resource Hydrogeologic Services, Inc. for this facility.

GCC looks forward to continue working with the Colorado Division of Reclamation, Mining & Safety (DRMS) on the groundwater monitoring at the Pueblo facility. If you have questions or concerns regarding this submittal, please do not hesitate to contact me at (719) 647-6861.

Singerely,

Amy Veek

Environmental Engineer

Enclosure

CC:

Alex Alarcon, GCC

Sarah Vance, GCC

Landon Beck, RHS

2021 GCC RIO GRANDE PUEBLO PLANT ANNUAL GROUNDWATER REPORT

Submitted to: GCC RIO GRANDE, INC.

Date: January 26, 2022

Resource Hydrogeologic Services, Inc.

232 Ute Pass West Durango, CO 81301 Tel: (970) 459-4865

Email info@resourcehydrogeologic.com





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INTRODUCTION

This Annual Groundwater Report provides a compilation and interpretation of groundwater monitoring data to the Colorado Division of Reclamation, Mining and Safety (CDRMS) for the GCC Rio Grande, Inc. (GCC) Pueblo Cement Plant and Quarry (the facility) and documents groundwater monitoring activities, results and interpretations for 2021. This satisfies a requirement of the CDRMS Mining Permit M-2002-004, specifically under the approved Technical Revision 7 (TR-07). To best support these efforts, GCC maintains a quality assurance/quality control (QA/QC) program to:

- Conduct GCC compliance staff and contractor training on water quality sampling for all GCC monitoring locations, equipment and methodologies, with detailed written procedure for groundwater monitoring provided in the facility Sampling and Analysis Plan approved under TR-07.
- Collect all water quality field data with an industry-standard multi-parameter device with electronic data deliverable (EDD) output for all field data.
- Conduct industry-standard, 10% random QA/QC lab sample submittals for duplicate and field blank water quality samples.
- Utilize EDDs produced by the contract environmental analytical laboratory for all data analyses.
- Conduct Level IV data validation of all compliance groundwater analytical laboratory reporting.
- Compile and manage all water quality and level data in a geo-referenced Microsoft Access database.

GROUNDWATER MONITORING

GROUNDWATER MONITORING LOCATIONS

In 2021 GCC monitored four groundwater monitoring wells at the facility, which are shown on the location map included as **Figure 1**:

- MW-5 completed in unconsolidated surficial/overburden sediments above bedrock at a location presumed to be downgradient of the entire facility, including both the guarry and plant.
- MW-6 completed in the Fort Hayes Limestone just down-dip, and presumed to be downgradient of mine panel 2 and upgradient of the plant.
- MW-7 completed in the Fort Hayes Limestone just down-dip, and presumed to be downgradient of mine panel 2 and upgradient of the plant. This well is completed across a fault in the Fort Hayes Limestone that was documented when exposed during the mining of Panel 2. MW-7 is located approximately 25 feet northwest of MW-6 and is screened over the same interval.
- MW-8 was in installed in February of 2020 and is completed in the Codell Sandstone, just down-dip, and presumed to be downgradient of mine panel 2 and upgradient of the plant. MW-8 is located approximately 25 feet northeast of MW-7.



GROUNDWATER MONITORING DATA COLLECTION

Groundwater monitoring was conducted quarterly in 2021 at MW-6, MW-7, and MW-8. MW-5, which has been observed as dry since installation in 2008, was monitored in 2021Q2, 2021Q3 and 2021Q4 and as with all previous years, was found to be dry in each event.

For the wet monitoring wells MW-6, MW-7, and MW-8, depth to water measurements, and field water quality parameters temperature, pH and specific conductance were documented for each monitoring event. These monitoring events also included water sample collection for submittal and analysis by an accredited environmental analytical laboratory.

Industry-standard protocol for groundwater sample collection was utilized, specifically applying the Colorado Department of Public Health and Environment (CDPHE) Suggested Sampling Protocol for Ground Water Monitoring Wells. This protocol is the foundation for the Sampling and Analysis Plan (SAP) approved by CDRMS in 2020 as TR-07 and adopted by GCC as the site-specific, stand-alone document guiding groundwater monitoring at the facility.

Groundwater was purged and sampled by means of disposable plastic bailer for all monitoring events in 2021. Three-casing volumes were purged prior to sample collection, or otherwise until the well was purged dry and revisited to collect a sample at a later time when adequate volume was present to fill all required sample bottles. MW-6 and MW-8 demonstrate low-head, low-yield conditions typically resulting in a purge that evacuates the well bore. At MW-6, a period of several hours was required to allow recovery in order to obtain a representative water quality sample for all monitoring events except in Q2 when the yield was adequate for sampling immediately following the three-volume purge. However, MW-7, the adjacent well completed across a known local Fort Hayes fault, is a relatively high-head, high-yield monitoring well in which production to obtain a representative water quality sample has been adequate to collect immediately following the three well bore purge. MW-8 exhibits even lower-yield conditions than MW-6; typically needing a one-to-two-week timeframe for water levels to recover to yield adequate volume for sample collection. In 2021 MW-8 was purged dry one week before sampling for laboratory submittal, which then coincided with both purging and sampling at MW-6 and MW-7. **Table 1** includes field parameters for each sample event and **Attachment 1** is a compilation of all MW-5, MW-6, MW-7, and MW-8 "Groundwater Sampling Record" field forms completed by the sampler for 2021 monitoring.

The CDRMS-required groundwater compliance constituents for the facility are given in **Table 1**. These constituents are required by TR-06 and represent the CDPHE Water Quality Control Commission Regulation 41, the basic standards for groundwater (herein after, reference standards). GCC is specifically subject to Table 3 of that document, Agricultural Standards, CDPHE 2016.



FUTURE GROUNDWATER MONITORING EXPANSION

In 2021, Technical Revision 8 (TR-08) was submitted by GCC and approved by DRMS in a letter dated June 4, 2021. TR-08 was a work plan to install six permanent bedrock monitoring wells and potentially one permanent unconsolidated colluvium monitoring well at the facility to increase the spatial distribution of site water quality monitoring and allow determination of groundwater gradient and flow direction. While the required post-installation documentation on these monitoring wells is forthcoming in a separate report to be prepared by RHS, in short, the well installations were completed in December 2021. Six bedrock monitoring wells were installed and developed at the planned locations, however the site of the potential colluvium monitoring well was dry therefore no colluvial well was installed. Surveying of the as-built monitoring wells for latitude, longitude, northing, and easting of casing location, ground elevation and elevation of the top of PVC casing is scheduled for the end of January 2022, which will complete the TR-08 well installation project.

Another Technical Revision to the mine permit shall be submitted to DRMS in early 2022 proposing modifications to the existing approved SAP (TR-07) to include quarterly monitoring of the relevant new monitoring wells, specifying monitoring and documentation methodologies. GCC intends to begin monitoring of the new wells in 2022Q1.

GROUNDWATER MONITORING DATA ANALYSIS

GROUNDWATER QUALITY

Beginning in 2021Q2, groundwater samples were analyzed for major cation and anion constituents per TR-08 to supplement the existing analytical suite and support interpretations of major ion chemistry in groundwater. Analytical results from water quality samples collected from MW-6, MW-7, and MW-8 are presented in **Table 1**. and compared to CDPHE Colorado Water Quality Control Commission agricultural use reference standards (CDPHE, 2016). Complete analytical laboratory reports for 2021 are provided as **Attachment 2**.

A graphical analysis of water quality results from the two Fort Hayes Limestone (MW-6 and MW-7) and Codell Sandstone (MW-8) groundwater samples are shown in Stiff diagrams for major ions and in time series plots for pH, manganese, and selenium.

Figure 2 shows the major ion concentrations at each monitoring location, beginning in 2021Q2. Concentrations are given in milli-equivalents (milligrams of solute mass divided by ionic weight and multiplied by ionic charge) per liter so the ionic balance between positive and negative ions can be seen in each analysis. As shown in **Figure 2**, the Fort Hayes Limestone (MW-6 and MW-7) is generally magnesium-sulfate to sodium-potassium-sulfate type. The underlying Codell Sandstone has a stronger sodium-potassium signature when compared with the Fort Hayes Limestone groundwater. The Codell Sandstone is also a sulfate dominant water (**Figure 2**).



Figure 3 plots water quality constituents (pH, manganese, and selenium) over time. Observed water quality in the Fort Hayes Limestone at locations MW-6 and MW-7 is characterized by neutral pH, and total dissolved solids (TDS) ranging from 4,720 to 7,477 μS/cm. Generally, concentrations of analyzed constituents were less than the applicable reference standards, with a few exceptions. Concentrations of manganese at MW-6 consistently exceeded the reference standard of 0.2 mg/L for samples collected at MW-6 between 2018 and 2021. Although manganese exceeds the reference standard, the Colorado Water Quality Control Commission issued a decision that the reference standard is only applicable where pH values are less than 6.0. Because all water quality samples have a measured pH value of greater than 6.0, less emphasis is placed on the exceedance of manganese of the reference standard. No exceedances of manganese were observed in MW-7. Selenium exceeds the reference standard for four of nine (44%) and seven of nine (approximately 80%) samples collected from MW-6 and MW-7, respectively. The occurrence and abundance of selenium in groundwater of the Fort Hayes Limestone is likely attributed to naturally-occurring seleniferous minerals deposited in a marine environment (Bern and Stogner, 2017).

Although both MW-6 and MW-7 were completed in Fort Hayes Limestone in relatively close proximity to one another, differences observed in groundwater chemistry identify the mechanism for groundwater flow through faults and fracture zones, instead of continuous horizontal flow paths. Additionally, the drilling and well completion across the observed fault system possibly created new flow paths which can be expected to create dynamic water quality conditions for some time until a new equilibrium is reached. Groundwater under hydrostatic confining pressure derived from fractures will flow from discrete fractures into the wellbore and travel within the filter pack to contact fresh rock surfaces that had not previously been exposed to groundwater, also contributing to an evolution of groundwater chemistry.

An additional monitoring well, MW-8, was installed in the underlying Codell Sandstone to support the definition of site-wide and regional groundwater flow paths and provide additional basis to evaluate potential impacts from site activities. Major ion chemistry of Codell Sandstone groundwater is presented in **Figure 2** and is described above. Groundwater chemistry at MW-8 exhibits neutral pH and TDS ranging from 3,852 to 9,179 µS/cm. Exceedances of the groundwater quality reference standards were documented for both boron and manganese in 2021. Similar to the Fort Hayes groundwater, the pH does not fall below 6.0 in any measurement. Therefore, less emphasis is placed on the exceedance of manganese of the reference standard. The water quality standard for boron was also updated from 0.75 mg/L to 5.0 mg/L in TR-08 because the groundwater in the Codell Sandstone is not a source of water for agricultural use. With the updated reference standard in place, no exceedances of boron were observed. Further monitoring of groundwater quality in the Codell Sandstone will provide additional support to the overall evaluation of groundwater quality conceptual understanding of site groundwater.



QUALITY ASSURANCE/QUALITY CONTROL

In 2021 GCC collected and submitted one blind duplicate sample in all quarterly sampling events, which is given sample ID MW-2B. These duplicates were reported to have constituent concentrations within acceptable ranges of the named sample, which was MW-7 in quarters one, two, and three, and MW-8 in quarter four.

Future compliance groundwater sampling will continue to include standard submittal of 10% QA/QC blind duplicate or field blank samples per quarter (one sample for up to ten sites).

Beginning in 2020 and now continued in 2021, per the approved SAP, the compliance groundwater data were validated at EPA Level III (EPA Stage 2B) with a minimum of 10% validated as EPA raw data review. All laboratory standard delivery groups (SDGs) are Level IV. The groundwater data validation for 2021 found that the laboratory has complied with the requested methods and the data is considered fully useable for project purposes with the consideration of the following qualifications regarding holding times. The nitrate and nitrate/nitrite data for all samples submitted in 2021Q2 and 2021Q3 exceeded holding times by approximately 12 hours. This nitrite data was qualified as rejected as it exceeded the 48-hour method 353.2 hold time. The samples were received at approximately the 48-hour hold time maximum due to UPS overnight air delivery delays (without explanation given by UPS). However, the total nitrogen data are qualified as estimated and are considered useable for project purposes. The data quality review report, prepared by Diane Short & Associates, Inc., is included here as **Attachment 3**. Section II of this attached report discusses the holding time issues in detail and specifically states on page 2:

"In this set of data, nitrate and nitrite results have been flagged by the laboratory as out of hold in SDG L65969 and in SDG L68204. The analysis has exceeded the 48-hr hold time for individual determination of nitrate or nitrite. The results could be biased due to microbial degradation or formation of nitrate and nitrite. The bias is typically thought to be low, but a positive bias is also possible. In this case, the outliers are only about 12 hours beyond the hold time. Any degradation is likely to be insignificant during this brief time since the samples were kept cold, which suppresses microbial activity."

Additionally, the attached data quality review report identified one TDS analysis (MW-6 in 2021Q2) as exceeding the method holding time. As discussed in that report in Section II on page 3:

"In addition, one TDS analysis in SDG L65969 was analyzed at a dilution 7 days after the expiration of the 7-day hold time, and that result is qualified accordingly. The original result contained more than 200 mg of final residue, and the method specifies that there must be less than 200 mg. Therefore, the laboratory reanalyzed the sample. The reason for the 200-mg method limit is to avoid a crust over the solid material that prevents proper drying. This phenomenon is dependent on the area over which the residue is distributed, so different laboratory evaporation dishes used in this



method may produce different results. From the raw data review, the original result was essentially the same as the second analysis so there is not likely to be a bias due to the hold time outlier for TDS."

While the TDS holding time issue was seemingly due to the contract laboratory waiting too long to start the particular analysis of concern despite receiving the sample with adequate time, the nitrate/nitrate holding time issues are recognized to have continued from 2020 due to shipment delays. As such, prior to the 2021Q4 sampling event, the contract laboratory (ACZ Laboratories in Steamboat Springs, CO) was consulted regarding options to ensure delivery was within one-day to meet the 48-hour holding time for nitrate/nitrite. ACZ advised that shipments originating in the Front Range outbound to Steamboat Springs by UPS ground service will arrive in one day, while they have observed both UPS and FedEx "overnight" deliveries from other clients in the Front Range typically taking 2-3 days to arrive during the Covid-19 pandemic era. Therefore, starting with shipment of the 2021Q4 samples, UPS ground service has been utilized, shipping the chilled and properly preserved samples on the same day as collection for a more reliable one-day delivery method.

GROUNDWATER LEVEL

Bedrock groundwater level monitoring data for the facility in 2021 included two Fort Hayes Limestone monitoring wells, and one Codell Sandstone monitoring well. Shallow groundwater at the facility was not observed to be present in 2021; the single unconsolidated surficial/overburden well MW-5 has been documented dry since installation in 2008. Of the two Fort Hayes monitoring wells MW-6 and MW-7, evaluation to date of water level monitoring appears to indicate that MW-6 demonstrates that the nonfaulted Fort Hayes Limestone hosts a groundwater pressure regime that is derived from limited fracture networks with relatively low hydraulic conductivity and storage. However, as displayed in Figure 2, over the course of monitoring in 2020, the static water level at MW-6 tracked with MW-7. This appeared to complete the pressure regime equilibration that was evolving since these wells were installed and water level monitoring began in January 2018, although in 2021 the measured water levels in these two wells deviated substantially in 2021Q1 through 2021Q2 with MW-6 returning to a lower (deeper) water level trend similar to what was observed in 2019. It appears that the lower yield MW-6 water levels deviate to lower levels during the spring and summer monitoring events when compared to MW-7. This suggests that MW-6 exhibits a delayed seasonal groundwater recharge effect when compared to MW-7. This is consistent with an interpretation that MW-7 is completed across a local fault and has been documented by all monitoring events to be a higher yield well than MW-6 despite the same completion depths and a horizontal distance apart of approximately 25 feet. By the 2021Q3 monitoring event on August 31st, the two levels were within 0.25 feet of each other and then at the 2021Q4 monitoring event on November 18th within 0.11 feet of each other. An elevation survey of all water level measurement reference points (top of 2-inch PVC casing) at all facility compliance monitoring wells is planned for January 2022 and will yield high-accuracy spatial data to normalize measured groundwater levels to potentiometric groundwater elevations beginning in 2022Q1.



MW-8, the Codell Sandstone monitoring well at this location, which was a completely dry borehole at the time it was drilled in February 2020, only wetted after approximately a week. It appears that by the September 16, 2020 monitoring event all three monitoring wells at this location had roughly equivalent depth to water measurements, all measured to be within 0.13 feet of each other. In the time since, the MW-8 pressure regime has continued to evolve and in the last two quarters of 2021 the measured water levels in this underlying Codell Sandstone well are higher (less deep) by approximately seven feet than the measured water levels in the adjacent MW-6 and MW-7 Fort Hayes Limestone wells. This indicates that at this location the underlying Codell Sandstone has a higher potentiometric groundwater elevation than the overlying Fort Haves Limestone, which means that there is currently a documented upward groundwater gradient from the Codell to the Fort Hayes. If this is found to be the case at other locations at the facility once monitoring begins at the new well locations, it has significant implications to the site hydrogeologic conceptual model with respect to the potential groundwater recharge source(s) to the mined Fort Haves Limestone. Specifically, this could indicate that the Fort Haves groundwater recharge source is not only from surficial precipitation recharge in the southwest upland and up-dip areas of the facility, but also from the underlying Codell Sandstone. Furthermore, the fault that has been identified running through quarry panel 2 and the MW-6/MW-7/MW-8 location can be reasonably expected to extend not only through the Fort Haves Limestone, but also the underlying Codell Sandstone by rule of geologic superposition. In areas where this fault, as well as other faults documented by exposure in previously quarried areas, are permeable, conditions exist to allow transmission of groundwater. These geologic structures may allow the over-pressured Codell Sandstone groundwater the preferential pathways to flow upwards into the Fort Hayes Limestone.

Additionally, a facility bedrock groundwater pressure regime in which the water-bearing strata underlying the mined interval (the floor rock) exhibits an upward gradient would substantially decrease the probability for potential groundwater impacts within the Fort Hayes Limestone to migrate downwards into the Codell Sandstone.

Note that while the hydrograph presented as **Figure 4** is based on measured depths to water without conversion to potentiometric groundwater elevation, these locations are on a flat-graded wellsite pad. High-accuracy surveying of all facility monitoring wells is planned for January 2022 and will assist with further defining the extent of Fort Hayes limestone and Codell sandstone hydraulic communication and delineation of the bedrock vertical pressure gradient at this location as well as the newly installed twinned Fort Hayes/Codell monitoring locations.

RECOMMENDATIONS

To further support the characterization of groundwater at the facility, a Technical Revision to the mining permit to revise the current SAP is planned for submittal to DRMS in early 2022 following completion of the 2021 well installation program documentation and review, as required by TR-08. Recommendations to modify that SAP are to:

Add the appropriate new monitoring wells to the compliance groundwater monitoring program.



- Install dedicated 12-volt electric submersible stainless steel low-flow environmental sampling pumps at all wet compliance wells (including previously existing wet monitoring wells MW-6, MW-7, MW-8) to replace the current bailer-purging methodology for collection of all compliance field parameters and laboratory samples.
- Implement use of mobile field tablet forms at all compliance groundwater monitoring wells to replace traditional paper field forms for more robust documentation system allowing for immediate cloudbased file back-up, integration of site photos, EDD data export to the facility groundwater monitoring database, while decreasing potential for field documentation typos and errors through use of dropdown menus, pre-populated static data fields, internally calculated fields, and location-specific data range boundaries that act as guardrails during field data entry.

REFERENCES

Bern, C.R., and Stogner, R.W. Sr., 2017. The Niobrara Formation as a Challenge to Water Quality in the Arkansas River, Colorado, USA. Journal of Hydrology: Regional Studies, Volume 12, pp. 181-195. August.

Colorado Department of Public Health and Environment (CDPHE), Water Quality Control Commission, 2016. Regulation No. 41, The Basic Standards for Ground Water (5 CCR 1002-41), December 30.

Colorado Department of Public Health and Environment (CDPHE), Water Quality Control Commission, Undated. Suggested Sampling Protocol for Ground Water Monitoring Wells.

GCC Rio Grande Inc., by Resource Hydrogeologic Services, Inc., 2021. Technical Revision 8 to Mining Permit No. M-2002-004 – Work Plan for 2021 Monitoring Well Installation Program, GCC Rio Grande, Inc. Pueblo Plant Pueblo Colorado, May 25.

GCC Rio Grande Inc., 2020. Technical Revision 7 to Mining Permit No. M-2002-004 – Sampling and Analysis Plan for Environmental Groundwater Monitoring, March 13.



TABLES



Table 1 (Page 1 of 2). GCC Quarterly Compliance Groundwater Monitoring Data 2018-2021.

| Location ID | Sample Date | Depth to Water (ft TOC) | 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 | Hydroxide as CaCO3 | 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 | | | | | | | | | | | | | | | | | | |
| MW-5 MW-5 | 9/17/2020 11/23/2020 | | | | | | | | | | | | | | | | | | |
| MW-5 | 5/12/2021 | | | | | | | | | | | | | | | | | | |
| MW-5 | 11/18/2021 | | | | | | | | | | | | | | | | | | |
| MW-6 | 1/3/2018 | 48.24 | 6.95 | 4720 | 14 | | | | | | | | | | <0.020 | | 0.636 | <0.03 | <0.005 |
| MW-6 | 4/27/2018 | 41.31 | 7.2 | 6200 | 16.3 | 5030 | | | | | | | <1.0 | <0.10 | <0.020 | <0.040 | <0.2 | <0.03 | <0.005 |
| MW-6 | 9/26/2018 | | | | | | | | | | | | | | | | | | |
| MW-6 | 12/12/2018 | | 7.39 | 6500 | 14.9 | | | | | | | | <1.0 | | <0.020 | <0.040 | <0.2 | <0.03 | <0.005 |
| MW-6 | 3/7/2019 | | | | tive field parameters or la | | | | | | | | 0.5 | 4.2 | 42.4 | 0.00 | 0.5 | .0.0 | -0.05 |
| MW-6 | 6/12/2019 | 1 | 7.14 | 5975 | 17.8 | 5620 | | | | | | | 0.6 | 12 | 12.1 | 0.03 | 0.5 | <0.2 | < 0.05 |
| MW-6 MW-6 | 9/19/2019 12/9/2019 | 1 | | | | 5860 5460 | | | | | | | 0.6 0.8 | 11 8.1 | 11.1 8.12 | 0.08 0.02 | <0.3 <0.3 | 0.0004 <0.001 | <0.05 <0.05 |
| MW-6 | 3/9/2020 | 1 | 7.22 | 5591 | 16.5 | 5780 | | | | | | | 0.7 | 2.02 | 2.58 | 0.56 | <0.3 | 0.0005 | <0.05 |
| MW-6 | 9/16/2020 | 1 | 7.2 | 5405 | 16.7 | 5480 | | | | | | | 0.5 | 0.05 | 0.05 | <0.01 | 0.19 | 0.0009 | <0.01 |
| MW-6 | 11/23/2020 | 1 | 7.25 | 5425 | 14.3 | 5300 | | | | | | | 0.57 | 1.62 | 1.63 | 0.012 | <0.25 | <0.001 | <0.05 |
| MW-6 | 2/22/2021 | 1 | 7.55 | 5684 | 15.8 | | | | | | | | | | | | | | |
| MW-6 | 5/19/2021 | 1 | 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 | 74.3 | 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 | 76.1 | 3750 | 0.62 | 0.846 | 0.846 | < 0.01 | < 0.05 | < 0.001 | < 0.01 |
| MW-7 | 1/3/2018 | 42.91 | 6.86 | 4765 | 15 | 5510 | | | | | | | 0.415 | | <0.020 | <1.00 | 1.35 | 0.00949 | <0.005 |
| MW-7 | 4/27/2018 | 39.09 | 6.85 | 5820 | 15 | 5270 | | | | | | | <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 | 1 | 6.9 | 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 | 5640 | | | | | | | | | 0.0144 | | <0.2 | <0.03 | <0.005 |
| MW-7 | 6/12/2019 | 1 | 6.95 | 5997 | 18 | 5700 | | | | | | | 0.5 | 1.73 | 1.74 | 0.01 | <0.3 | <0.2 | <0.05 |
| MW-7 | 9/18/2019 | 1 | | | | 6740 | | | | | | | 0.5 | 10 | 10.1 | 0.02 | 0.4 | 0.0003 | <0.05 |
| MW-7 | 12/9/2019 | 1 | 7.04 | | 45.0 | 5320 | | | | | | | 0.5 | 14 | 14.3 | 0.08 | <0.3 | <0.001 | <0.05 |
| MW-7 | 3/9/2020 | 1 | 7.01 | 6459 | 15.8 | 6540 | | | | | | | 0.4 | 15 | 14.9 | 0.06 | <0.3 | <0.0002 | < 0.05 |
| MW-7 MW-7 | 9/16/2020 11/23/2020 | 1 | 7.17 7.16 | 4772 4999 | 15.2 14.3 | 4950 5070 | | | | | | | 0.4 0.47 | 11 11 | 11 11.2 | 0.03 0.039 | 0.16 <0.25 | <0.0002 <0.001 | <0.01 <0.05 |
| MW-7 | 2/22/2021 | 1 | 7.55 | 6077 | 14.4 | 3070 | | | | | | | 0.47 | | | 0.039 | | <0.001 | <0.03 |
| MW-7 | 5/19/2021 | 1 | 7.51 | 5464 | 15.2 | | 309 | 309 | <2 | <2 | 51 | 3430 | 0.4 | 7.51 | 7.54 | 0.027 | <0.05 | <0.0002 | <0.01 |
| MW-7 | 8/31/2021 | 1 | 7.15 | 6061 | 15.4 | | 467 | 467 | <2 | <2 | 95.5 | 3360 | 0.52 | 0.91 | 0.907 | < 0.01 | <0.05 | <0.0002 | <0.01 |
| MW-7 | 11/18/2021 | 1 | 6.94 | 6589 | 13.9 | | 299 | 299 | <2 | <2 | 52.9 | 3700 | 0.53 | 3.84 | 3.84 | <0.01 | <0.05 | <0.001 | <0.01 |
| MW-8 | 3/9/2020 | | | | tive field parameters or la | b sample subm | | | | | | | | | | | | | |
| MW-8 | 9/16/2020 | | | | tive field parameters or la | | | | | | | | | | | | | | |
| MW-8 | 9/28/2020 | | | 9179 | 14.7 | 7900 | | | | | | | 0.9 | < 0.02 | <0.02 | < 0.01 | <0.25 | 0.0138 | < 0.05 |
| MW-8 | 11/9/2020 | 37.26 | Inadequate v | olume for representat | tive field parameters or la | b sample subm | nittal after purge - sa | mple collected 11/2 | 23/20 because wel | I took 2 weeks to r | ecover | | | | | | | | |
| MW-8 | 11/23/2020 | | 7.11 | 5327 | 13.9 | 4060 | | | | | | | 1.14 | <0.050 | <0.02 | <0.01 | <0.25 | 0.00219 | <0.05 |
| MW-8 | 2/22/2021 | | 7.65 | 5476 | 14.8 | | | | | | | | | | | | | | |
| MW-8 | 5/19/2021 | | 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 | 1 | 7.32 | 6077 | 17.8 | | 1080 | 1080 | <2 | <2 | 272 | 1820 | 1 | <0.02 | 0.022 | 0.014 | <0.05 | 0.00124 | <0.01 |
| MW-8 | 11/18/2021 | | 7.14 | 3852 | 14.7 | | 1140 | 1140 | <2 | <2 | 283 | 1920 | 0.9 | 0.068 | 0.096 | 0.028 | <0.05 | <0.001 | <0.01 |
| Field QA/QC Samples | | | | | | | | | | | | | | | | | | | |
| MW-6 (duplicate) | 9/19/2019 | | | | | 6020 | | | | | | | 0.7 | 11 | 10.8 | 0.08 | <0.3 | 0.0004 | <0.05 |
| MW-7 (duplicate) | 6/12/2019 | 1 | | | | 5600 | | | | | | | 0.9 | 1.28 | 1.28 | < 0.01 | <0.3 | <0.2 | <0.05 |
| MW-7 (duplicate) | 11/9/2019 | 1 | | | | 5510 6520 | | | | | | | 0.5 | 15 15 | 14.7 14.5 | 0.08 0.05 | <0.3 | <0.001 | <0.05 |
| MW-7 (duplicate) MW-7 (duplicate) | 3/9/2020 9/16/2020 | 1 | | | | 6530 5040 | | | | | | | 0.4 0.4 | 15 11 | 14.5 | 0.03 | <0.3 0.11 | <0.0002 <0.0002 | <0.05 <0.01 |
| MW-7 (duplicate) | 5/19/2020 | 1 | | | | 5040 | 291 | 291 | <2 | <2 | 50.7 | 3280 | 0.43 | 7.45 | 7.48 | 0.03 | <0.05 | <0.0002 | <0.01 |
| MW-7 (duplicate) | 8/31/2021 | | | | | | 464 | 464 | <2 | <2 | 109 | 3480 | 0.43 | 0.91 | 0.907 | <0.01 | <0.05 | <0.0002 | <0.01 |
| MW-8 (duplicate) | 11/23/2020 | 1 | | | | 4040 | 404 | 404 | | | 109 | 3460 | 1.15 | <0.050 | <0.02 | <0.01 | <0.25 | 0.00234 | <0.01 |
| MW-8 (duplicate) | 11/18/2021 | | | | | | 1130 | 1130 | <2 | <2 | 288 | 1920 | 0.89 | 0.078 | 0.107 | 0.029 | <0.05 | 0.00234 | <0.01 |
| CDPHE Regulation | n 41 Table 3 | - | | | | | 1100 | 2200 | | | | | | | | | | | |
| Groundwater Qual Standards (Agric | | | 6.5 -8.5 | | | | | | | | | | 2 | | 100 | 10 | 5.0 | 0.10 | 0.10 |

Notes:
Concentrations in bold indicate exceedance of CDPHE Groundwater Quality Reference Standard for Agricultural Use.

MW-5 has been dry since installation and initial monitoring on 4/13/2013.

2020Q2 monitoring not conducted due to COVID-19 restrictions.



Table 1 (Page 2 of 2). GCC Quarterly Compliance Groundwater Monitoring Data 2018-2021.

| Location ID | Sample Date | Boron (mg/L) | Cadmium (mg/L) | Chromium (mg/L) | Cobalt (mg/L) | Copper (mg/L) | Calcium (mg/L) | Iron (mg/L) | Lead (mg/L) | Lithium (mg/L) | Magnesium (mg/L) | Manganese (mg/L) | Mercury (mg/L) | Nickel (mg/L) | Potassium (mg/L) | Selenium (mg/L) | Sodium (mg/L) | Vanadium (mg/L) | Zinc (mg/L) | Barium (mg/L) |
|--------------------------------------|-------------------------|-----------------|----------------------|--------------------|------------------|------------------|-------------------|----------------|--------------------|-------------------|---------------------|------------------|--------------------|------------------|---------------------|--------------------|---------------|-----------------|----------------|------------------|
| MW-5 | 12/9/2019 | | | | | | | | | | | | | | | | | | | |
| MW-5 MW-5 | 9/17/2020 11/23/2020 | | | | | | | | | | | | | | | | | | | |
| MW-5 | 5/12/2021 | | | | | | | | | | | | | | | | | | | |
| MW-5 | 11/18/2021 | | | | | | | | | | | | | | | | | | | |
| MW-6 | 1/3/2018 | 0.633 | <0.005 | <0.005 | 0.00423 | 0.0061 | | 0.474 | <0.01 | 0.664 | | 0.591 | <0.0002 | 0.0289 | | <0.03 | | <0.005 | 0.0248 | |
| MW-6 | 4/27/2018 | 0.654 | <0.005 | <0.005 | 0.0188 | <0.01 | | 0.0556 | <0.01 | 0.689 | | 1.14 | <0.0002 | 0.0688 | | <0.03 | | <0.005 | <0.01 | 0.032 |
| MW-6 | 9/26/2018 | 0.624 | *O OOF | -0.005 | 0.00504 | 10.01 | | -0.1 | 0.00200 | 0.476 | | 0.552 | -0.0000 | 0.0474 | | 0.00540 | | 0.00116 | 0.00000 | |
| MW-6 MW-6 | 12/12/2018 3/7/2019 | 0.624 DRY | <0.005 | <0.005 | 0.00601 | <0.01 | | <0.1 | 0.00399 | 0.476 | | 0.663 | <0.0002 | 0.0171 | | 0.00619 | | 0.00116 | 0.00899 DRY | |
| MW-6 | 6/12/2019 | 0.5 | 0.0003 | <0.05 | <0.05 | <0.05 | | 0.8 | 0.0022 | 0.52 | | 0.97 | <0.0002 | 0.15 | | 0.0966 | | < 0.03 | <0.05 | |
| MW-6 | 9/19/2019 | 0.3 | 0.00026 | <0.05 | 0.05 | <0.05 | | 0.3 | 0.0004 | 0.49 | | 0.58 | <0.0002 | 0.13 | | 0.14 | | <0.03 | <0.05 | |
| MW-6 | 12/9/2019 | 0.3 | < 0.0003 | <0.05 | <0.05 | < 0.05 | | <0.2 | <0.0005 | 0.49 | | 0.49 | <0.0002 | 0.11 | | 0.088 | | <0.03 | <0.05 | |
| MW-6 | 3/9/2020 | 0.3 | 0.00016 | <0.05 | <0.05 | 0.06 | | <0.2 | <0.0001 | 0.48 | | 0.4 | <0.0002 | 0.11 | | 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 | 0.486 | | 0.39 | <0.0002 | 0.088 | | 0.0064 | | <0.01 | 0.02 | |
| MW-6 | 11/23/2020 | 0.325 | <0.00025 | <0.05 | <0.05 | <0.05 | | <0.3 | <0.0005 | 0.448 | | 0.334 | <0.0002 | 0.114 | | 0.0155 | | <0.05 | 0.11 | |
| MW-6 | 2/22/2021 | 0.070 | | | | | 245 | 0.407 | | 0.470 | | | | 0.0570 | | | | | | |
| MW-6 | 5/19/2021 | 0.378 | 0.000058 | <0.02 | <0.02 | <0.01 | 315 410 | 0.127 | <0.0001 | 0.472 | 344 | 0.357 | <0.0002 <0.0002 | 0.0579 0.0845 | 9.94 11.2 | 0.00233 | 810 575 | <0.01 | <0.02 | |
| MW-6 MW-6 | 8/31/2021 11/18/2021 | 0.24 0.245 | <0.00025 <0.00025 | <0.02 <0.1 | <0.02 <0.02 | <0.01 <0.01 | 410 383 | <0.06 <0.06 | <0.0005 <0.0005 | 0.491 0.469 | 498 473 | 0.279 0.241 | <0.0002 | 0.0845 | 10.3 | 0.0148 0.0153 | 575 589 | <0.01 <0.01 | <0.02 <0.02 | |
| MW-7 | 1/3/2018 | 0.461 | <0.005 | <0.005 | 0.00135 | 0.00555 | | 1.39 | <0.00 | 0.779 | | 0.20 | <0.0002 | 0.0163 | 10.5 | <0.03 | | 0.0023 | 0.0267 | |
| MW-7 | 4/27/2018 | 0.441 | <0.005 | <0.005 | <0.005 | <0.01 | | 0.249 | <0.01 | 0.665 | | 0.166 | <0.0002 | 0.00607 | | <0.03 | | <0.005 | <0.01 | 0.0142 |
| MW-7 | 9/26/2018 | | | | | | | | | | | | | | | | | | | |
| MW-7 | 12/12/2018 | 0.446 | <0.005 | <0.005 | <0.005 | < 0.01 | | 0.242 | < 0.01 | 0.571 | | 0.101 | <0.0002 | 0.00359 | | < 0.03 | | <0.005 | 0.0102 | |
| MW-7 | 3/7/2019 | 0.427 | <0.005 | <0.005 | 0.00197 | < 0.01 | | 0.297 | <0.01 | 0.557 | | 0.152 | <0.0002 | 0.008 | | <0.03 | | <0.005 | 0.00956 | |
| MW-7 | 6/12/2019 | 0.4 | <0.04 | <0.05 | <0.05 | <0.05 | | <0.2 | <0.2 | 0.62 | | 0.14 | <0.0002 | <0.04 | | 0.0087 | | <0.03 | <0.05 | |
| MW-7 | 9/18/2019 | 0.3 | 0.00015 | <0.05 | <0.05 | <0.05 | | 0.8 | 0.001 | 0.48 | | 0.1 | <0.0002 | <0.04 | | 0.0762 | | <0.03 | <0.05 | |
| MW-7 | 12/9/2019 | 0.2 | < 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 MW-7 | 3/9/2020 9/16/2020 | 0.2 0.14 | 0.00011 0.00007 | <0.05 0.01 | <0.05 <0.01 | <0.05 <0.01 | | <0.2 0.15 | <0.0001 0.0002 | 0.6 0.428 | | <0.05 0.01 | <0.0002 <0.0002 | <0.04 0.013 | | 0.0701 0.0655 | | <0.03 <0.01 | <0.05 <0.02 | |
| MW-7 | 11/23/2020 | 0.153 | <0.00025 | <0.05 | <0.01 | <0.01 | | <0.3 | < 0.0002 | 0.428 | | <0.05 | <0.0002 | <0.013 | | 0.0452 | | <0.01 | <0.02 | |
| MW-7 | 2/22/2021 | | | | | | | | | | | | | | | | | | | |
| MW-7 | 5/19/2021 | 0.139 | 0.000057 | <0.02 | < 0.02 | < 0.01 | 460 | < 0.06 | <0.0001 | 0.473 | 530 | <0.01 | < 0.0002 | 0.0229 | 13.7 | 0.0401 | 393 | <0.01 | < 0.02 | |
| MW-7 | 8/31/2021 | 0.313 | <0.00025 | <0.02 | < 0.02 | < 0.01 | 391 | < 0.06 | < 0.0005 | 0.521 | 397 | 0.067 | <0.0002 | 0.0155 | 10.8 | 0.0115 | 666 | < 0.01 | < 0.02 | |
| MW-7 | 11/18/2021 | 0.187 | <0.00025 | <0.1 | <0.02 | <0.01 | 429 | <0.06 | <0.0005 | 0.375 | 386 | 0.06 | <0.0002 | 0.0157 | 10.6 | 0.0284 | 402 | <0.01 | <0.02 | |
| MW-8 | 3/9/2020 | | | | | | | | | | | | | | | | | | | |
| MW-8 | 9/16/2020 | 4.0 | .0.00005 | -0.05 | -0.05 | .0.05 | | 2.52 | .0.005 | 0.54 | | | 0.0000 | | | 0.00075 | | .0.05 | .0.4 | |
| MW-8 MW-8 | 9/28/2020 11/9/2020 | 1.2 | <0.00025 | <0.05 | <0.05 | <0.05 | | 2.62 | <0.0005 | 0.51 | | 0.299 | <0.0002 | <0.04 | | 0.00075 | | <0.05 | <0.1 | |
| MW-8 | 11/9/2020 | 0.817 | <0.00025 | <0.05 | <0.05 | <0.05 | | <0.3 | <0.0005 | 0.333 | | 0.249 | <0.0002 | <0.04 | | <0.0005 | | <0.05 | <0.1 | |
| MW-8 | 2/22/2021 | | | | | | | | | | | | | | | | | | | |
| MW-8 | 5/19/2021 | 0.886 | 0.000065 | < 0.04 | < 0.02 | <0.01 | 93.1 | < 0.06 | 0.00016 | 0.365 | 31.2 | 0.275 | <0.0002 | <0.008 | 6.18 | 0.00024 | 1250 | < 0.01 | < 0.02 | |
| MW-8 | 8/31/2021 | 0.784 | < 0.00025 | <0.02 | < 0.02 | < 0.01 | 111 | < 0.06 | < 0.0005 | 0.383 | 38.5 | 0.319 | <0.0002 | <0.008 | 5.93 | <0.0005 | 1300 | < 0.01 | < 0.02 | |
| MW-8 | 11/18/2021 | 0.798 | <0.00025 | <0.1 | <0.02 | <0.01 | 107 | <0.06 | <0.0005 | 0.378 | 46.5 | 0.265 | <0.0002 | <0.008 | 6.44 | <0.0005 | 1150 | <0.02 | <0.02 | |
| Field QA/QC Samples | | | | | | | | | | | | | | | | | | | | |
| MW-6 (duplicate) | 9/19/2019 | | 0.00031 | <0.05 | 0.05 | <0.05 | | 0.3 | 0.0005 | 0.48 | | 0.57 | <0.0002 | 0.15 | | 0.141 | | <0.03 | <0.05 | |
| MW-7 (duplicate) | 6/12/2019 | 0.4 | <0.04 | <0.05 | <0.05 | <0.05 | | 0.2 | <0.2 | 0.61 | | 0.14 | <0.0002 | <0.04 | | 0.0084 | | <0.03 | <0.05 | |
| MW-7 (duplicate) | 11/9/2019 | 0.2 | < 0.0003 | <0.05 | <0.05 | <0.05 | | <0.2 | <0.0005 <0.0001 | 0.44 | | <0.05 | <0.0002 | <0.04 | | 0.0903 | | <0.03 | <0.05 | |
| MW-7 (duplicate) MW-7 (duplicate) | 3/9/2020 9/16/2020 | 0.1 0.13 | 0.0001 0.00007 | <0.05 0.01 | <0.05 <0.01 | <0.05 <0.01 | | <0.2 0.12 | <0.0001 0.0002 | 0.6 0.425 | | <0.05 0.01 | <0.0002 <0.0002 | <0.04 0.01 | | 0.0704 0.0654 | | <0.03 <0.01 | <0.05 <0.02 | |
| MW-7 (duplicate) | 5/19/2021 | 0.139 | 0.00007 | <0.02 | <0.01 | <0.01 | 457 | < 0.06 | < 0.0002 | 0.425 | 528 | <0.01 | <0.0002 | 0.01 | 13.9 | 0.0834 | 390 | <0.01 | <0.02 | |
| MW-7 (duplicate) | 8/31/2021 | 0.309 | <0.00025 | <0.02 | <0.02 | <0.01 | 390 | <0.06 | <0.0001 | 0.52 | 396 | 0.066 | <0.0002 | 0.0113 | 10.9 | 0.0109 | 661 | <0.01 | <0.02 | |
| MW-8 (duplicate) | 11/23/2020 | 0.834 | <0.00025 | <0.05 | <0.05 | <0.05 | | <0.3 | <0.0005 | 0.337 | | 0.253 | <0.0002 | <0.04 | | <0.0005 | | <0.05 | <0.1 | |
| MW-8 (duplicate) | 11/18/2021 | 0.809 | <0.0001 | <0.04 | <0.02 | <0.01 | 104 | <0.06 | <0.0002 | 0.38 | 43.2 | 0.27 | <0.0002 | <0.008 | 6.31 | <0.0002 | 1150 | <0.02 | <0.02 | |
| CDPHE Regulatio Groundwater Qual | | 5.0 | 0.01 | 0.10 | 0.05 | 0.2 | | 5.0 | 0.10 | 2.5 | | 0.20 | 0.01 | 0.20 | | 0.02 | | 0.10 | 2.0 | |
| Standards (Agric | • | 5.0 | 0.01 | 0.10 | 0.00 | 0.2 | | 5.0 | 0.10 | 2.3 | | 0.20 | 0.01 | 0.20 | | 0.02 | | 0.10 | 2.0 | |

Notes:
Concentrations in bold indicate exceedance of CDPHE Groundwater Quality Reference Standard for Agricultural Use.

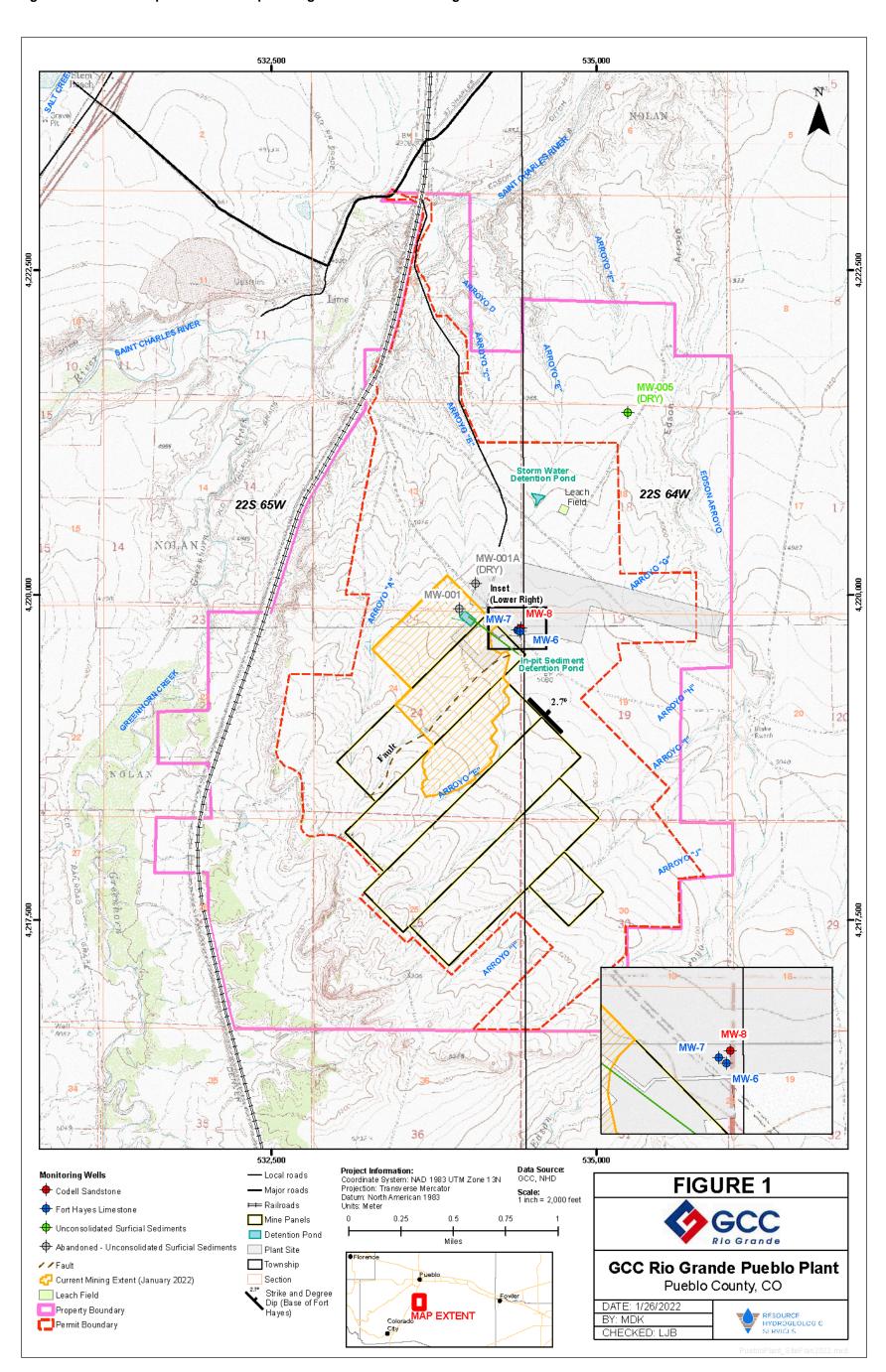
MW-5 has been dry since installation and initial monitoring on 4/13/2013. 2020Q2 monitoring not conducted due to COVID-19 restrictions.



FIGURES



Figure 1. GCC site map with 2021 compliance groundwater monitoring locations.





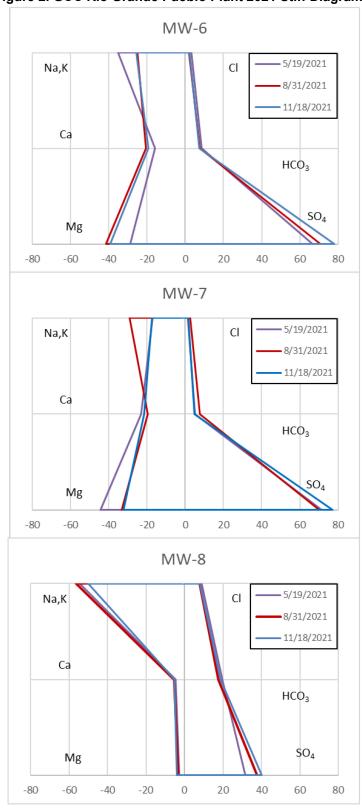


Figure 2. GCC Rio Grande Pueblo Plant 2021 Stiff Diagrams.

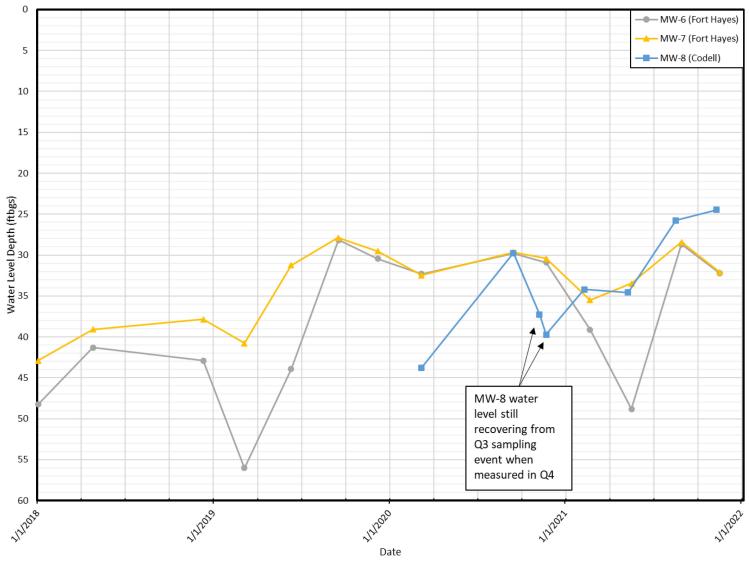


9.0 ---- MW-6 8.5 CO Ag Standard = 6.5 - 8.5 - MW-7 8.0 (:n·s) Hd 7.0 6.5 6.0 01/01/2018 1.20 **-** MW-6 1.00 **-** MW-7 Manganese (mg/L) 0.80 0.60 0.40 CO Ag Standard = 0.2 mg/L 0.20 0.00 01/01/22 01/01/18 01/01/19 01/01/20 01/01/22 Date 0.20 - MW-6 0.18 0.16 **-** MW-7 Selenium (mg/L) 0.14 0.10 0.08 0.06 - MW-8 0.04 CO Ag Standard = 0.02 mg/L 0.02 0.00 01/01/19 01/01/22 01/01/18 01/01/20 Date

Figure 3. GCC Rio Grande Pueblo Plant pH, Mn, Se Time Series Plots – Full Period of Record.



Figure 4. GCC Rio Grande Pueblo Plant Bedrock Groundwater Hydrograph – Full Period of Record 2018-2021.





| ATTACHMENT 1 | - GCC | Groundwater | Sampling | Field | Records |
|---------------------|-------|-------------|----------|--------------|---------|
|---------------------|-------|-------------|----------|--------------|---------|

Title: Sampling and Analysis Plan for Environmental Control Number: Revision Date: Page 25 of 33 **Groundwater Monitoring** PUE.EN.D.026.04 3/13/2020 GROUNDWATER SAMPLING RECORD SAMPLE No. Mw -6 Project No: Page | of | Weather Conditions: 2/22 Comments: INSTRUMENTS USED Calibration Manufacturer/Model Serial No. Instrument Gentech WLM 3.97 € 16.70 8250013 Water Level Probe Std: 4 10 @ 7.01 °C Reading 12.9 15A104851 Slope: pH Meter Pro Plus Std: 4 7 10 @ 10.03 C Reading 13.7 pH Meter Std: 1413 us@25°C Reading 1420 Conductivity Meter ___uS @ 25 °C Reading Conductivity Meter Temperature Other: Filtration 0.45 micron in-line high capacity disposable filter. WELL PURGING INFORMATION 721 Screened Interval (ft. BGL): Casing Diameter (inches): Borehole Diameter (inches): 39.11 Total Depth (ft): 59.56 3.33 Depth to Water (ft below MP): Casing Volume (gal): (gal/ft: 1.5" = 0.092; 2" = 0.163; 4" = 0.653) Purging Method: Monitoring point (MP) is the top of the PVC well casing. Comments: Depth to Conductivity Vol. Purged Date/ Water (uS @ 25 deg C) Temp Appearance Time (gal) (feet below MP) (deg C) (color, sediment, etc.) Comments 39.11 5379 Olcar, no colo 0953 410-07 5474 1010 3 .73 1023 6 5 352 1033 9 5618 Dury 10 23 10 8 Cumulative Volume Purged: (casing vol) WELL SAMPLING INFORMATION Sampling Equipment: Ballen Comments: SAMPLING MEASUREMENTS: Depth Conductivity Other Date/ Sampled (uS @ 25 deg C) Temp Time (feet below MP) (deg C) Comments (feet below MP) pH 5684 15.7 7.001

| SAMPLE HA | NDLING: | | | | | |
|-------------|-------------------|---------------------|----------|----------|-----------|----------|
| Date/ | | Aliquots | | Filtered | Preserved | |
| Time | Volume (ml) | Bottle Composition | Quantity | (Y/N) | (type) | Comments |
| | - | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Field QA/QC | Samples Collected | (type, Sample No.): | | | | |

Equipment Decontamination:

NH

Waste Disposal:

Signature of Field Personnel:

GCC RIO GRANDE, INC. Pueblo, CO

<u>Title</u>: Sampling and Analysis Plan for Environmental Groundwater Monitoring

Control Number: PUE.EN.D.026.04 Revision Date: 3/13/2020

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120

| | GROUN | DWATI | ER SAM | PLING I | RECORI |) | SAMPLE | No. Mu) | 1-7 | |
|--|--------------------|----------------------|------------------|-----------------|------------------|------------------|---------------|-----------------------|-------------------|--------|
| Project No: | 26 70 | ZI GW | Samoli | Location: | CC Ru | o Gra | andle | | Page / of |) |
| Date: | 22/21 | Weather Con | | / { | cc Ru Sunny | | Personnel: | 3. Legs | S | |
| Comments: | | ade To | ken | | 0 | | | | | |
| | | | | IN | STRUMENTS | USED | | | | |
| Inst | ument | | urer Model | Seria | al No. | | | Calibration | | |
| Water Level Pro | be | Geofela | wim | \$2500 | | @ | 16.70 | 3.97 | | |
| pH Meter | | YSI F | ro Plus | 15AB4 | 1951 | | @ 739°CR | | - | Slope: |
| pH Meter | | | | 1 | | | | teading 10.03 | | |
| Conductivity Me | | | | | | - | | Reading 1420 | _ | |
| Conductivity Me | ter | 4 | | | | Sto: | us @ 25°C F | ceaung | _ | |
| Temperature | | | | — y | | | | | | |
| Other. | 0.45 missania | -line high capac | ita: dianagable | files | | | | | | |
| Filtration | 0.45 micron m | -mie mga capac | nty disposable | | URGING INFO | DMATION | | | | |
| Casing Diameter | (inchas): | | Borehole Diamet | | CROINGINT | Screened Interva | I (A BGI) | | | |
| Depth to Water (f | | 5.51 | | 59.30 | Casing Volume (s | | | (gal/ft: 1.5" = 0.092 | : 2"=0.163: 4" == | 0.653) |
| Purging Method: | 4 . | 3.01 | Tena Departus | 0 7.50 | Colonia volune (| De De | - | 1,500 01.012 | | 1,000 |
| Comments: | Menitering point (| MP) is the top of th | e PVC well casin | 2. | | | | | | |
| | | | | • | | | | | | |
| | | Depth to | | Conductivity | | | | | | |
| Date- | Vol. Purged | Water | | fuS@25 deg €) | Temp | Appe | earance | | | |
| Time | (gal) | (feet below MF) | pH | | (deg C) | (color, se | diment, etc.) | | Comments | |
| 1138 | Tutio | 35.51 | 7.53 | 6109 | 15.4 | H Bro. | wn. no | ada | | |
| 1148 | 3 | 3776 | 7.50 | 1001/2 | 14.7 | | 1 | | | |
| 1156 | 6 | 37.45 | 7.57. | 4101 | 14.4 | Clew | - No | Idar | | |
| 1209 | 9 | 37.76 | 7.53 | 6089 | 14.5 | 4 13 | roun- | No Orlo | ^ | |
| 1727 | 12 | 37.91 | 7.55 | 6077 | 14.4 | 1 | 1 | | | |
| | | | | | | | | | | |
| | | | | | L | | | | | |
| Cumulative Volu | me Purged: | | | (gallons) | AMPLING INFO | OBLIGATION | (casing vol) | | | |
| Sampling Equipm | | | | WELL SE | AMPLINGING | ORMATION | | | | |
| Comments: | icut. | | | * | | | | | | |
| | EASUREMENT | 'S: | | | | | | | | *** |
| | Depth to | Depth | | Conductivity | | Other | Other | | | |
| Date. | Water | Sampled | | (45 & 25 des C) | Temp | | | | | |
| Time | (feet below MP) | (feet below MP) | pН | ,, | (deg C) | | | | Comments | |
| 1227 | 37.91 | 79.91 | 7.55 | 607-1 | 14.4 | X+ B | rown. 1 | Vo Odan | \ | |
| | | | | | | | | | | |
| SAMPLE HAN | DLING: | | | | | | | | | |
| Date' | | Aliq | uots | | Filtered | Preserved | | | | |
| Time | Volume (ml) | Bottle Con | mposition | Quantity | (Y/N) | (type) | | Comn | nents | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
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| | | | | | | | | | | |
| | | | | | | | | | | |
| F1 11 0 1 '5' 5 1 | 1 2 " | 1/4 | . Y. Y | 1 | 2 11. | 1-7R | | | | |
| SECTION AND DESCRIPTION AND DE | Samples Collecte | | e No.): | Duplicat | C VVIIN | - 20 | alan | | | |
| Equipment De | contamination: | NIA | | | | | | | | |
| Waste Dispose | 1- | . 0 | | | | | | | | |
| Signature of Fiel | | | | | | | GCC | RIO GRANDE | . INC | |
| SIRTURE OF LICE | es casonnici, | | | | | | 0001 | Pueblo, CO | | |
| | | | | | | | | 1 0000, 00 | | |

Title:Sampling and Analysis Plan for EnvironmentalControl Number:Revision Date:Groundwater MonitoringPUE.EN.D.026.043/6/2020

| Page OF Date: A | | GROUN | NDWAT | ER SAM | D | SAMPLE No. MW-8 | | | | |
|--|-------------------|------------------|----------------------|-------------------|--------------------|-----------------|--|--------------|----------------------|-------------------------|
| Comments Comment Com | Project No: | 10 2021 | GW | Sungham | Location: | CC R | io Gra | nde | | Page of |
| This instrument | Date: 2/ | 10/21 + | Weather Con | aditions: | Sunav | | | Personnel: | Tarman | 15. Leau |
| Instrument | Comments: | | | | | 1.171 | 77/7, | | | 0. |
| Instrument | | 1 00 72 | 4 4 | 10/21 | Jany | STRUMENTS | USED | | | |
| State Probe Grade Mark Mark State | Inst | | | | | | 1 | | Calibration | |
| State Part | | | | | | | 2/ | 167 | | 1 |
| 15th Marter | | | | | | | | a_/3.1 ℃ | Reading 7.01 | Slope: |
| Specific Conductance Meter | pH Meter | | 1 | 1101110 | 1 | | | | | |
| Femperature | Specific Conduc | tance Meter | | | | | | | | |
| Other Outs | Specific Conduc | tance Meter | | | | | Std: | _uS @ 25 °C | Reading | |
| Presence | Temperature | | | | | | | | | |
| WELL FURGING DIFORMATION Strength Interval (fit BGL) Depth to Water (fit blow MP) 34 2 1' Text Depth (fit) | Other: | | | | 1 | | | | | |
| Contact (incher) | Filtration | 0.45 micron in | ı-line high capa | city disposable | AND REAL PROPERTY. | | | • | | |
| Depth to Water (if below MP) 3 4 2 1 Texal Depth (if) 16 | | 011 | | | | PURGING INFO | T | | | |
| Purpus Method Comment: Monitoring point (MP) is the top of the PVC well casing. | | (| 1101 | | | | - | <u> </u> | | |
| Comments Monitoring point (MD) is the top of the PVC well cating. | | | 4.21 | Total Depth (ft): | 66.00 | Casing Volume (| (al): 5. O | | (gal/fi: 1.5" = 0.09 | : 2" = 0.16; 4" = 0.65) |
| 2/10/21 | | | | | | | | | | |
| Date Vol. Purged Water Section PH Conductance Temp Appearance (color, stedement, etc.) Comments | Comments: | Monitoring point | (MP) is the top of t | he PVC well casin | 2 | | | | | |
| Date Vol. Purged Water Section PH Conductance Temp Appearance (color stemment etc.) Comments | 2/10/21 | 1 | Donahas | | Sunific | | | | 1 | |
| Time (gal) (tou lock with pH (sold 2) the C) (color rediment, etc.) Comments 11.2.1 Initial 34.2.1 7.13 5.2.90 12.0 etc. (color rediment, etc.) Comments 11.2.2 7.36.51 7.18 5.30 12.4 11 11.33 2 46.62 7.18 5.30 13.3 clear sulfar odd? 11.40 3 49.09 7.7.22 5.2.9 13.6 11 11.50 4 55.96 7.28 5.390 13.4 11 11.50 4 55.96 7.28 5.390 13.4 11 11.50 4 55.96 7.28 5.403 13.4 11 11.50 5.61.51 7.38 5.403 13.4 11 WELL SAMPLING INFORMATION Sampling Equipment Depth to Depth to Date Water Sampled Conductance Temp Comments Time (ret teles with) (feet below with) pH (sal 3) the C) (deg C) Comments SAMPLING MEASUREMENTS: SAMPLE HANDLING: Date Aliquots Filtered Preserved (type) Comments SAMPLE HANDLING: Date Aliquots Filtered Preserved (type) Comments Field QA/QC Sampler Collected (type, Sample No.): Equipment Decontamination: M/A Wate Disposal: | | T/ol Demand | | | | T | 4 | | | |
| | | | | 7,12 | | - | | | | Comments |
| 11 | | | | | | | | | da | Comments |
| 1133 | | | | | | 12.4 | 3103/811 | , 50011110 | Вис | 100 |
| 150 | | 2 | | | 5201 | 13.3 | clear s | CULGA | adas | |
| 150 | | 3 | 49.09 | 7.22 | 5299 | 13.10 | | SUITU | 900. | |
| Commulative Volume Purged: (galloas) WELL SAMPLING INFORMATION Sampling Equipment: Depth to Depth Sampled Time (feet below MF) pH (sea 3 2) day C) (deg C) Comments SAMPLE HANDLING: Date Aliquots Time Volume (mil) Bortle Composition Quantity Field QA/QC Samplet Collected (type, Sample No.): Equipment Decontamination: W/A Waste Disposal: | 1150 | 4 | | | 5390 | | | | | |
| Comment: SAMPLING MEASUREMENTS: Date Water Sampled Conductance Temp (for below MF) pH (485 23 days C) (deg C) (deg C) (comments SAMPLE HANDLING: Date Aliquots Filtered Preserved (type) Comments Field QA/QC Samples Collected (type, Sample No.): Equipment Decontamination: Water Disposal: | 1157 | 5 | | | 5403 | | | | | |
| WELL SAMPLING INFORMATION Sampling Equipment: Big leb Comments: SAMPLING MEASUREMENTS: Deepth Date Water Sampled Conductance Temp (deg of Conductance Temp) I fine ledow MF) (feet below MF) pH (deg of Conductance Temp) SAMPLE HANDLING: SAMPLE HANDLING: Date Aliquots Filtered Preserved (type) Time Volume (ml) Bortle Composition Quantity (IVN) (type) Comments Filtered Preserved (type) Comments | | Total | = 66.00 | | | 1 | | | | |
| Sampling Equipment: Bay less Comments: SAMPLING MEASUREMENTS: Depth Depth Specific Conductance Temp (fort below MF) pH (45 & 25 dag C) (deg C) Comments L1 / SOO UC. 9 UZ. 9 7. (65 SU 76 U.7. Comments SAMPLE HANDLING: Date Aliquots Filtered Preserved (type) Bottle Composition Quantity (YN) (type) Comments Field QA/QC Samples Collected (type, Sample No.): Equipment Decontamination: N/A Waste Disposal: | Cumulative Volu | me Purged: | | | (gallons) | | | (casing vol) | | |
| Comments: SAMPLING MEASUREMENTS: Depth Depth to Sampled Conductance Temp Time (feet below MP) (feet below MP) pH (as a 25 days C) (deg C) Comments SAMPLE HANDLING: Date Aliquots Filtered Preserved Time Volume (ml) Bottle Composition Quantity (YN) (type) Comments Field QA/QC Samples Collected (type, Sample No.): Equipment Decontamination: MA Waste Disposal: | | | | | WELL SA | AMPLING INF | ORMATION | | | |
| SAMPLING MEASUREMENTS: Depth to Depth Sampled Conductance Temp (deg C) L SOO H J P I P | Sampling Equipm | nent: Bal | en | | | | | | | |
| Depth to Depth Sampled (for below MF) PH (sat below MF) PH (set be | | | | | | | | | | |
| Date Water Sampled Conductance Temp (as 2 25 dag C) (deg C) L 1800 40.9 42.2 7.6 54.76 14.8 SAMPLE HANDLING: Date Aliquots Filtered Preserved Time Volume (ml) Bortle Composition Quantity (Y.N) (type) Comments Field QA/QC Samples Collected (type, Sample No.): Equipment Decontamination: Wate Disposal: | SAMPLING M | EASUREMENT | | 1 | | | | | 1 | |
| Time (feet below MF) (feet below MF) pH (as it 25 deg C) (deg C) LA 1500 HG.9 12.21 7.65 54.76 14.75 CACCOT SAMPLE HANDLING: Date Aliquots Filtered Preserved Time Volume (ml) Bottle Composition Quantity (YN) (type) Comments Field QA/QC Samples Collected (type, Sample No.): Equipment Decontamination: Waste Disposal: | | | | | | | Other | Other | | |
| SAMPLE HANDLING: Date Aliquots Filtered Preserved Time Volume (ml) Bottle Composition Quantity (YN) (type) Comments Field QA/QC Samples Collected (type, Sample No.): Equipment Decontamination: W/A Waste Disposal: | | | | | | | | | | |
| SAMPLE HANDLING: Date Aliquots Filtered Preserved Time Volume (ml) Bortle Composition Quantity (V.N) (type) Comments Field QA/QC Samples Collected (type, Sample No.): Equipment Decontamination: Waste Disposal: | | | | | | | C) - | | | Comments |
| Date Aliquots Filtered Preserved (type) Comments Time Volume (ml) Bottle Composition Quantity (YN) (type) Comments Field QA/QC Samples Collected (type, Sample No.): Equipment Decontamination: W/A Waste Disposal: | 1 1508 | 40.41 | 46.91 | 1.60 | 3476 | 14-6 | Crear | | | |
| Date Aliquots Filtered Preserved (type) Comments Time Volume (ml) Bottle Composition Quantity (YN) (type) Comments Field QA/QC Samples Collected (type, Sample No.): Equipment Decontamination: W/A Waste Disposal: | SAMPI E HAN | IDI ING- | | | | | | | | |
| Time Volume (ml) Bottle Composition Quantity (VN) (type) Comments Field QA/QC Samples Collected (type, Sample No.): Equipment Decontamination: W/A Waste Disposal: | | DLING: | A12. | more | | Filtoned | Dracamad | | | |
| Field QA/QC Samples Collected (type, Sample No.): Equipment Decontamination: W/A Waste Disposal: | | Vielume (mt) | | | Ounning | | | | Com | mante |
| Equipment Decontamination: Waste Disposal: | 1 444 | Colume (ma) | Bottle Co | прозиси | Quenny | (1/1) | (1) (1) | | Com | meat) |
| Equipment Decontamination: Waste Disposal: | | | | | | | | | | |
| Equipment Decontamination: Waste Disposal: | | | | | | | | | - | |
| Equipment Decontamination: Waste Disposal: | | | | | | | | | | |
| Equipment Decontamination: Waste Disposal: | | | | | | | The state of the s | | | |
| Equipment Decontamination: Waste Disposal: | | | _ | | | | | | | |
| Equipment Decontamination: Waste Disposal: | | | | | | | | | | |
| Waste Disposal: | Field QA/QC S | Samples Collect | ted (type, Sam | ple No.): | | | · | | | |
| Waste Disposal: | Equipment De | contamination: | 11/1 | | | | | | | |
| | | | 10/2 | | | | | | | |
| Signature of Field Personnel: GCC RIO GRANDE, INC. | Waste Disposa | al: | | | | | | | | |
| Pueblo CO | Signature of Fiel | d Personnel: | | | | | | GCC | | E, INC. |

<u>Title</u>: Sampling and Analysis Plan for Environmental Groundwater Monitoring

Control Number: PUE.EN.D.026.04 Revision Date: 3/6/2020

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| | GROUN | IDWAT! | ER SAM | PLING I | RECOR | D | SAMPLE | No. MW-5 |
|------------------------------------|------------------|------------------------|-------------------|-----------------|-----------------|------------------|---------------|------------------------------------|
| Project No: | | GW 50 Weather Con | | Lagrica | | blo - Ric | | Page of . |
| Date: 5/1: | 2/21 | Weather Con | ditions: | | | | - | Scott Lang |
| Comments: | | | | | | | | |
| | | | | IN | STRUMENTS | USED | | |
| Inst | ument | Manufact | urer Model | Seri | al No. | | | Calibration |
| Water Level Pro | be | | | | | STOWN 7 | 13-7°C | 3.99 su |
| pH Meter | | | | | | Std: 4 10 | a 13.9 °C F | Reading 7.05 Slope |
| pH Meter | | | | | | Std. 4 7 (9) | 1 13.h C F | Reading 10.64 Reading 1412 |
| Specific Conduc Specific Conduc | | | | | | _ | Seaging 141 C | |
| Temperature Other: OR P | 104 | | | | | 210/ | i wil | Ad 225.0 ml |
| Filtration | | l-line high capa | rity disposable | filter | | 414. | 1_M/ | ASTO CO. U my |
| | | | ., | | URGING INF | ORMATION | | |
| Casing Diameter | (inches): | | Borehole Diamet | | | Screened Interva | (ft. BGL). | |
| Depth to Water (f | below MP). W | H | Total Depth (ft): | 76.48 | Casing Volume (| gal). | | (pd ft. 15"=009, 2"=016, 4"= 0.65) |
| Purging Method. | | | | | | | | |
| Comments. | Monitoring point | (MP) is the top of the | se PVC well casin | F- | | | | |
| | | Depth to | | Specific | | | | |
| Date | Vol. Purged | Water | | Conductance | Temp | | earance | |
| Time | (원) | (feet heles MP) | pH | (a5 3 25 deg C) | (deg C) | (color, se | diment, etc.) | Comments |
| | | | | | | | | |
| 1 1 | 11 | TO | 1) | , 15 | 1 1 | | | |
| N | 1 | 1 | 1 | 116 | 1 | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Cumulative Volu | me Purged: | | | (gallons) | | | (crazza nog) | <u> </u> |
| C | | | | WELL SE | AMPLING INF | OKMATION | | |
| Sampling Equipm Comments: | lent. | | - | | | | | |
| | EASUREMENT | TS: | | | | | | |
| | Depth to | Depth | | Specific | | Other | Other | |
| Dare | Water | Sampled | | Conductance | Temp | | | |
| Time | (feet believ MP) | (fees below MP) | pH | (eS A 25 deg C) | (deg C) | | | Comment |
| | | | - | | | | | |
| SAMPLE HAN | DI ING: | | | | | | L | |
| Date Date | | Alic | uots | | Filtered | Preserved | | |
| Time | Volume (mi) | | emosition | Quantity | (YN) | (type) | | Comments |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Field OA/OC | amples Collec | ted (type, Sam | ple No.): | | | 1 | | |
| | contamination | | | | | | | |
| Waste Dispos | d: | | | | | | | |
| Signature of Fiel | | | | | - | | GCC | RIO GRANDE, INC. |
| | | | | | | | | Pueblo, CO |

Control Number: Revision Date: Sampling and Analysis Plan for Environmental Page 25 of 33 **Groundwater Monitoring** PUE.EN.D.026.04 3/6/2020 GROUNDWATER SAMPLING RECORD SAMPLE No. MW 6 Project No: Page of R.0 GCC GW 2021 (Arcinele Weather Conditions: Date: Personnel: 570x SUMPLY Comments: INSTRUMENTS USED Manufacturer Model Serial No. Calibration Instrument (5) 19.4 3.97 Std. 4 (2) 10 (a) 70.0 C Reading 7, 0.7 Water Level Probe Geotech WLM 8250013 YSI POD PLUS pH Meter 15ATO 4951 Slope. Std. 4 7 10 12 71. A C Reading 10-03 pH Meter 1413 us @ 25 °C Reading 1413 Specific Conductance Meter
Specific Conductance Meter Std: 220 meVa 25 °C Reading 718:7 70.70 98.9% Temperature 70.70 Other: 0.45 micron in-line high capacity disposable filter. Filtration WELL PURGING INFORMATION Casing Diameter (inches). 2" Screened Interval (ft. BGL). Borehole Diameter (inches): Depth to Water (ft below MP): 48.82 Total Depth (ft): 59, 58 | Casing Volume (gal): 5: 16 | .72 | (gal ft. 1.5" = 0.09; 2" = 0.16; 4" = 0.65) 5/6 Purging Method. Ballen Monitoring point (MP) is the top of the PVC well casing. Comments. Depth to Specific Date Vol. Purged Water Conductance Temp Appearance ORP DO Comments Time (m) pH (10S at 25 deg C) (deg C) (color, sediment, etc.) 49.82 1015 Initial 8.18 5736 15.0 clean 126.4 0.53 Clear no novo 1023 51.82 7.49 15.2 den 101.6 0-83 5741 7.40 11 1028 57.58 14,8 87.31 0.92 7,39 55.04 5777 6871606 1027 14.8 li 7,40 5841 223 1.07 1040 57.12 munor sed thro 15.0 7.41 5917 58.48 10 49 -27,7 Cumulative Volume Purged: (caung vol) WELL SAMPLING INFORMATION Sampling Equipment: 13x4100 Comments: SAMPLING MEASUREMENTS: Specific Depth to Depth Other Sampled Conductance Temp Time (deg C) Comments fact below MP) (u.S. 3 25 deg C) H beam 105 58,9% 59.960 7.43 5945 121-9 Sect SAMPLE HANDLING: Filtered Aliquots Preserved Time Bottle Composition (Y/N) Comments Volume (ml) Quantity (type)

| Field QA/QC | Samples Collec | ted (type, Sample No.): | | | |
|-------------|----------------|-------------------------|---|--|--|
| | econtamination | | ^ | | |

Waste Disposal: W/A - fresh eguipment used

Signature of Field Personnel:

GCC RIO GRANDE, INC. Pueblo, CO <u>Title</u>: Sampling and Analysis Plan for Environmental Groundwater Monitoring

Control Number: PUE.EN.D.026.04 Revision Date: 3/6/2020

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| | | | | | | | 1 | | |
|-----------------------------|--------------------|-----------------------|----------------------|-----------------|-----------------|------------------|---------------|-----------------|--------------------------------|
| | GROUN | IDWATI | ER SAM | PLING 1 | RECOR | D | SAMPLE | No. M | W-7 |
| Project No: | Q 707- | 1 GW | Sangalia | Location: | Scc | RIO G | | | Page of |
| Date: 5/19 | | Weather Con | ditions: | 570 | | | n . | Scott | her |
| Comments: | 7 | | 0 | | | | | | 0 |
| | Dupl | cate c | ollecte | | | | | | |
| | | | | | STRUMENTS | USED | | | |
| | niment | | urer Model | | al No. | - | | Calibra | |
| Water Level Pro | be | Geote | | | | (4) | 19.8 | 3 | 5.98 |
| pH Meter | | YSI | Pro Plus | 15A10 | 4951 | Std: 4 (7) 10 | a 70.0 °C I | Reading 7 | 07 Slope: |
| pH Meter Specific Conduc | esmes Marer | | Pro Plus Pro Plus | | | | uS @ 25 ℃ 1 | | |
| Specific Conduc | | | Pro Plus | | | | Mis a 25 °C 1 | | |
| Temperature | ance Stelet | 132 | io ins | | | | | | |
| Other: | | TOO | | 4 | | 20. | 7°C | 98.9 | 7.73 |
| Filtration | 0.45 micron in | line high capac | ity disposable | filter. | | | | | |
| | | | | | PURGING INFO | DRMATION | | | |
| Casing Diameter | | | Borehole Diamet | | | Screened Interva | | | |
| Depth to Water (1 | | 3-47 | Total Depth (ft): | 58.96 | Casing Volume (| gal): 4.0 | 7 | (gal fr. 1.5" = | =0.09: 2"=0.16: 4"= 0.65) /2.2 |
| Purging Method | | | | | | | | | |
| Comments. | Monitoring point (| (MP) is the top of th | e PVC well casing | 5/1 | 9/21 | 1 | | | |
| | | Depth to | | Specific | | | | | |
| Date | Vol. Purged | Water | | Conductance | Temp | | earance | | ~ . |
| Time | (gal) | (fort helew MP) | pH | (eS 2 25 deg C) | (deg C) | 1 | diment, etc.) | ORP | PO Comments |
| 1130 | Indial | 33.47 | 7.54 | 5677 | 15.0 | | no solo | 46.6 | 1.26 |
| 11 2/2 | 3 | 34.80 | 7.53 | 5417 | 14.9 | PLMU S | ed. | 54.4 | 1.12 |
| 1203 | 9 | 7 - | 7,50 | 5350 | 4 | 1/ | | 64.7 | 1.43 |
| 1223 | 12 | 34.28 | 7.50 | 5390 | 14.60 | 17 | | 74.1 | 2.51 |
| 1665 | 13 | 27.00 | 1.01 | 3310 | 14. | 11 | | 100 | 2.01 |
| | | Dune | Calle | deel | | | | , | |
| Cumulative Volu | me Purged: | 2.0 | | (gallons) | | • | (casing vol) | | |
| | | | | WELL S. | AMPLING INF | ORMATION | | | |
| Sampling Equipm | ient: Baule | <u>C</u> | | | | | 100-0 | | |
| Comments: | | | | | | | | | |
| SAMPLING M | EASUREMENT | | | | | 1 | | 1 | |
| _ | Depth to | Depth | | Specific | | Other | Other | | |
| Date Time | Water | Sampled | | Conductance | Temp (dec C) | | | ORP | Da s |
| 1230 | 13. O | (feet below MF) | 7.51 | 5 86 4 | (deg C) | Brown | coal | 7118 | 2036 |
| (0.30 | 10.0 | 3718/ | | 3 14 1 | 10, 2 | Promi | 5044 | 1110 | (2) (2 |
| SAMPLE HAN | DLING: | | | | | | | | |
| Date | | Aliq | uots | | Filtered | Preserved | | | |
| Time | Volume (mi) | Bottle Cot | троятіся | Quantity | (Y/N) | (rype) | | | Comments |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | Vs. |
| Field OA/OC 9 | amples Collect | ed (trans Com | de No.) | mw-Z | 130.1 | 745 | | | |
| | contamination: | | | | , | | | | |
| | | N/X- | fresh | equipa | rest u | sed | | | |
| Waste Dispos | - | | <i>y</i> | V | | | CCC | PIO CP 13 | NIDE INC |
| Signature of Fiel | d Personnel: | | | | | | GCC | | NDE, INC. |
| | | | | | | | | Pueblo, (| .0 |

GROUNDWATER SAMPLING RECORD SAMPLE No. Page | of | Project No: GCC- Rio Grande 20 2021 GW Sampling Ouncost, 45°F Date: 8/12/21, Weather Conditions: Personnel: Comments: Purged on 5/12/21, sample collected an INSTRUMENTS USED Manufacturer/Model Serial No. Instrument 8250013 (4) 198°C 398 Std. 4 (2) 10 (a 70,0°C Reading 7,0°C Geoted Water Level Probe Slope: 7-03 USI Pro Plus pH Meter 15A104851 Std. 4 7 (10) a 21.0°C Reading 10.03 10.04 pH Meter Std: <u>1413</u> uS a 25 ℃ Reading <u>1413</u> 14/2 Specific Conductance Meter Std. 220 Red 25 °C Reading 218,7 Specific Conductance Meter OR P 219.9 DO Other: 0.45 micron in-line high capacity disposable filter. Filtration WELL PURGING INFORMATION Casing Diameter (inches). Borehole Diameter (inches): Screened Interval (ft. BGL): Depth to Water (ft below MP). 34.56 Total Depth (ft): 65.75 Casing Volume (gal): 5.08 (gal fr. 1.5" = 0.09; 2" = 0.16; 4" = 0.65) Bailer Purging Method: Monitoring point (MP) is the top of the PVC well casing. Deoth to Specific Date Vol. Purged Water Conductance Temp Арреагансе DEP DO Tune (gal) (deg C) (color, sediment, etc.) pH 185 2 25 deg C) 5/12 7.39 1015 Initial 34,56 5084 14.5 41.71 7.45 4966 14.2 1020 47.67 7.48 4941 14.2 1025 7,49 4949 -125.3 1031 52.13 14.3 1990 58.03 7.52 -137.4 1.18 14.3 1039 -4.75 65.52 7.62 14.3 1583 1.21 Insufficient No sample umulative Volume Purged: WELL SAMPLING INFORMATION Sampling Equipment: Comments: SAMPLING MEASUREMENTS: Depth to Depth Specific Other Other Date Water Sampled Conductance Temp Time (deg C) GRD DCC omments (feet below MP) pH (uS & 25 deg C) closs, minor 5/19 1253 51,97 51,97 7,60 5571 4.32 SAMPLE HANDLING: Date Aliquots Filtered Preserved Time Volume (ml) (Y/N) Comments Bottle Composition Quantity (type) Field QA/QC Samples Collected (type, Sample No.): Equipment Decontamination: N/A - fresh eginpment used Waste Disposal: GCC RIO GRANDE, INC. Signature of Field Personnel: Pueblo, CO MW-6 DTW1 49.52 5/12/21

Control Number:

PUE.EN.D.026.04

Sampling and Analysis Plan for Environmental

MW-7 DTW! 35.13

Groundwater Monitoring

Revision Date:

3/6/2020

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Revision Date: Sampling and Analysis Plan for Environmental **Control Number:** Page 25 of 33 **Groundwater Monitoring** PUE.EN.D.026.04 3/13/2020 GROUNDWATER SAMPLING RECORD MW-6 SAMPLE No. Project No: GCC-Rio Grande 30 2021 GW Sampl Weather Conditions: Date: 5. Lego Comments: INSTRUMENTS USED Calibration Manufacturer: Model Serial No. Instrument Sid: 4 1 10 @ 23.7 °C Reading 7.01 Std: 4 7 10 @ 23.5 °C Reading 0.01 Std: 4 7 10 @ 23.5 °C Reading 0.01 Water Level Probe Gentech WLM 8250013 Slope: YST Pra Plue 151104951 pH Meter pH Meter Std: /#13 us 7.25 °C Reading /4/5 Conductivity Meter Std: ____us @ 25 °C Reading ___ 22000 220 mV Lemperature 99.9% Other: 0.45 micron in-line high capacity disposable filter. Filtration WELL PURGING INFORMATION Casing Diameter (inches): Borehole Diameter (inches): Screened Interval (ft. BGL): Total Depth (ft): 59.52 Casing Volume (gal): Depth to Water (ft below MP): 28.68 5.03 -(gal/ft: 1.5" = 0.092: 2" = 0.163: 4" = 0.653) Purging Method: Bailer Menitering point (MP) is the top of the PVC well casing. Conductivity Depth to Apperorano/ Date: Vol. Purged Water 145@254gC) Temp Time (deg C) (color, se (gal) ·pH (feet below LIF) 7.37 Clear that no odor 253.9 8/31 0940 59.52 6184 16.0 0.64 Clear How no orbor light sec 36.76 7.15 218.7 0.97 0947 6230 15.1 7.15 15.0 0.77 6105 20466 0957 43.23 7-15 194.4 49-90 0.70 102Le 6118 15.2 7.18 138.2 55.08 6180 15.3 1.26 ct Brown sed no odor 1041 13.5 7.20 6707 15.5 171.8 1.58 59.17 1051 Cumulative Volume Purged: (gallons) (casing vol) WELL SAMPLING INFORMATION Sampling Equipment: Bayles SAMPLING MEASUREMENTS: Conductivity Other Other Depth to Depth Date. Water Sampled (15 6, 25 deg C) Temp ORP DO (feet below MP) (feet below MP) (deg C) Comments 57.65 57-65 7.32 1330 SAMPLE HANDLING: Date' Aliquots Filtered Preserved (Y/N) Comments Time Volume (ml) Quantity (type) Bottle Composition Field QA QC Samples Collected (type, Sample No.): Equipment Decontamination:

GCC RIO GRANDE. INC.

Pueblo, CO

Waste Disposal: NA

Signature of Field Personnel:

Control Number: Revision Date: Sampling and Analysis Plan for Environmental Page 25 of 33 Groundwater Monitoring 3/6/2020 PUE.EN.D.026.04 SAMPLE No. &MW-28 GROUNDWATER SAMPLING RECORD 2021 aw Sangly Cocation: R10 Grandle Weather Conditions: Personnel: INSTRUMENTS USED Calibration Instrument Manufacturer Model Serial No. Std. 4 O 10 @ Z3.7 °C Reading 7.01 Geothach WCM Water Level Probe 8250013 Slope 4SI Pro Plus pH Meter 15A104951 Std: 4 7 (1) @ 23.5 °C Reading [0.0] pH Meter Std: 1413 us @ 25 °C Reading 141.5. Specific Conductance Meter uS @ 25 ℃ Reading Specific Conductance Meter 220 mV 770.2 Temperature OPP 98.9% DO 0.45 micron in-line high capacity disposable filter. WELL PURGING INFORMATION Screened Interval (ft. BGL): Borehole Diameter (inches): Casing Diameter (inches): Depth to Water (ft below MP): 28.43 Total Depth (ft): 59.40 Casing Volume (gal): 5.05 (galifi: 1.5" = 0.09; 2" = 0.16; 4" = 0.65) ~15 gal Purging Method: Baylon Monitoring point (MP) is the top of the PVC well casing. Depth to Specific OPP Appearance DO Vol. Purged Water Conductance Temp Date (<u>eal</u>) (deg C) Time 28.43 31/4 6246 15.6 146.3 1.19 HOO NO orlas 1135 15.1 到了 30.37 6150 1145 7.14 143.4 1.26 30.40 6164 0.76 7.13 138.7 1155 15.1 1202 30.99 6133 0.89 7.15 121.7 11 15.3 1210 31.14 7.18 6105 108.1 1.09 15.25 Cumulative Volume Purged: (casing vol) WELL SAMPLING INFORMATION Barles Comments: Duplicate collection
SAMPLING MEASUREMENTS: Boston day Burler eld Same Other Other Depth to Depth Specific Date M'ater Sampled Conductance Temp ORP 120 Time (deg C) (uS 2 25 dev C) (feet below MP) 8/31/a 29.68 32.58 7.15 6061 0.76 1220 106. SAMPLE HANDLING: Preserved Filtered Date Aliquots (YN) Comments (type) Volume (mi) Bottle Composition Quantity Field QA/QC Samples Collected (type, Sample No.): Duplicate MW-28 Field On Co.

Equipment Decontamination:

GCC RIO GRANDE, INC.

Pueblo. CO

Waste Disposal:

Signature of Field Personnel:

Groundwater Monitoring 3/6/2020 PUE.EN.D.026.04 GROUNDWATER SAMPLING RECORD SAMPLE No. Project No: GCC-RIO Grande GW Samo Date: Weather Conditions: Sunny Comments 8/19/71 returned INSTRUMENTS USED Instrument Manufacturer Model Serial No. Calibration 23.4 82500 13 3.97 Water Level Probe Createch Std: 4 7 10 @ 23.0 C Reading 7.02 Pro Slope USI 15 10495) pH Meter Std: 4 7 10 @ 23-1 °C Reading 9, 96 H Meter Std: 141.3 uS @ 25 °C Reading 1415 Specific Conductance Meter Specific Conducting Meter Std 7.20 ml/a 25 °C Reading 7.70.2 0.45 micron in-line high capacity disposable filter. WELL PURGING INFORMATION Casing Diameter (inches). Screened Interval (ft. BGL): Borehole Diameter (inches): 19.65 Depth to Water (ft below MP): 25.75 Total Depth (ft): (6.5.92 | Casing Volume (gal). 6.55 (gal ft. 1.5" = 0.09; 2" = 0.16; 4" = 0.65) Bules Monitoring point (MP) is the top of the PVC well casing. Depth to Specific Conductance Vol. Pursed Water Appearance Date Temp (color, sediment, etc.) (deg C) 5294 -2/6.9 16-1 51.13 -210.3 1.70 7.31 5109 64.88 dark brown, turky 2.01 51 -4/2-3 -46.9 dark highly turbed 19/21 (gallons) (casing vol) Cumulative Volume Purged: WELL SAMPLING INFORMATION Barles Comments: Well purged dry on 8/19
SAMPLING MEASUREMENTS: See mw-6+mw-7 for equipment sample collected on 8/31/21. Calibrations Other Depth to Depth Specific Other Sampled Conductance Temp Date Water ORP (deg C) Time pH 8/31/2 42.19 7.37 10077 17.8 117.6 95 tho, slight sulfer 13:00 odo SAMPLE HANDLING: Aliquots Filtered Preserved Comments (Y/N) Volume (ml) Bottle Composition (type) Field QA/QC Samples Collected (type, Sample No.): Equipment Decontamination: Waste Disposal: Signature of Field Personne GCC RIO GRANDE, INC. Pueblo, CO

Revision Date:

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Control Number:

Sampling and Analysis Plan for Environmental

<u>Title</u>: Sampling and Analysis Plan for Environmental Groundwater Monitoring

Control Number: PUE.EN.D.026.04 Revision Date: 3/6/2020

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| | GROUN | DWATE | ER SAM | PLING | RECORI |) | SAMPLE 3 | No. MU | 11-5 | |
|------------------------------------|--------------------|----------------------|---|-------------------------|-------------------|-----------------|----------------|--|---------------------------|---|
| Project No: | | | | T | | | | | Page of | |
| Down | 40 202 | 21 GW | liai | ac | C RIO | arano | D | | | |
| Date: | 118/21 | Weather Cond | Cle | w~ 3 | SOF | | Personnel: | Ben 1 | Kellond | |
| Comments | 10/ | 1 | | | | | • | ······································ | | |
| | | and the second | | D. | STRUMENTS | I.CED | | | mayor, Tr | |
| Inst | nument | Manufact | rer/Model | 1 | al No. | CSED | | Calibratio | n | |
| Water Level Pro | be | Geotles | h ULM | 825 C | 2(3 | | | | | |
| pH Meter | | | ,/\ | a 1 | / . | Std: 4 7 10 | <u>a</u> ℃R | eading | Slope: | |
| pH Meter Specific Conduc | tance Meter | 11/ | A | | | Std: | uS @ 25 ℃ R | leading | | |
| Specific Conduc | tance Meter | 10/ | | | 10 | - | uS @ 25 ℃ R | | | |
| Temperature | | | | . 0 / | | | | | | |
| Other: Filtration | 0.45 micron in | -line high capac | ity disposable | filter. | | | | | | |
| | | | | | URGING INFO | RMATION | | | | |
| Casing Diameter | | | Borehole Diamet | | | Screened Interv | al (ft. BGL): | | | |
| Depth to Water (Purging Method | ft below MP): | 14 | Total Depth (ft): | 26.50 | Casing Volume (| pl): | | (gal ft: 1.5" = 0 | 09; 2" = 0.16; 4" = 0.65) | |
| Comments: | Monitoring point (| MP) is the top of th | e PVC well casing | 2 . | | | | | | |
| | | | | | | | | | | |
| Date | Vol. Purged | Depth to Water | | Specific Conductance | Temp | Ann | еагапсе | _ | | |
| Time | (হ্যা) | (feet below MP) | pН | (uS @ 25 deg C) | (deg C) | | ediment, etc.) | | Comments | |
| | 1 | 1 1 | | | | | | | | |
| | 1 | // | (| 1 | D. | 7 | / ^ | 1 | 7 | _ |
| | | | | 1/ | | 1 | 1 1 | | | |
| | | 17 | \mathcal{L} | 1 | | | | | | |
| | | | | | | | | | | |
| Cumulative Volt | me Purged: | | | (gallons) | | 1 | (casing vol) | | | |
| | | | | WELL SA | AMPLING INFO | ORMATION | | | | |
| Sampling Equip | nent. | | | | | | | | | |
| Comments: SAMPLING N | EASUREMENT. | S: | , | | | | | | | |
| | Depth to | Depth | | Specific | | Other | Other | | | |
| Date: | Water | Sampled | | Conductance | Temp | | | | | |
| 1 line | (feet below MP) | (feet below MP) | pН | (aS @ 25 deg C) | (deg C) | | | | Comments | |
| | | | | | | | | | | |
| SAMPLE HAD | NDLING: | | | | File | Preserved | | | | |
| Date/ Time | Volume (ml) | Aliq Bottle Cor | | Quantity | Filtered (Y/N) | (type) | | Co | omments | |
| | | 2000 | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | - | |
| | | | | | | | | | | |
| ** | | | | | | | | | | |
| Field OA/OC | Samples Collect | ed (type Same | ale No.): | | | | | | | |
| | econtamination: | | ne No.j. | | | | | | | |
| | | NA | | | | | | | | |
| Waste Dispos | | NTA | | | | | GCC | RIO GRAN | DE INC | |
| Signature of Fie | n Personnel: | | | | | | GCCI | Pueblo, CO | | |

GROUNDWATER SAMPLING RECORD SAMPLE No. 7 4Q2021 (P((Pueblo Rio Grande Weather Conditions: Comments: INSTRUMENTS USED Calibration Instrument Manufacturer/Model Serial No. 8250013 Geotech WIM Water Level Probe Pro t 15A104951 pH Meter 57.4 pH Meter Conductivity Meter Std: _____uS @ 25 °C Reading _ Conductivity Meter Temperature ORP 220 mV Other: DO 0.45 micron in-line high capacity disposable filter. WELL PURGING INFORMATION Screened Interval (ft. BGL): Borehole Diameter (inches): Casing Diameter (inches): Casing Volume (gal): 4.46 Total Depth (ft):54.51 Depth to Water (ft below MP): 32.2 (gal/ft: 1.5" = 0.092; 2" = 0.163; 4" = 0.653) 13.38 Purging Method: Buile 5 Monitoring point (MP) is the top of the PVC well casing. ORP Conductivity Depth to 39 Vol. Purged Water (uS @ 25 deg C) Temp Date: (gal) (deg C) Comments Time 32.23 .12 6675 12.9 216.4 Inttal 138 7227 13.9 41.81 0.8 196.4 14.2 0.97 177-1 Dry 14.3 9412 169.3 Cleur, no roders 4.46 Cumulative Volume Purged: (casing vol) WELL SAMPLING INFORMATION Sampling Equipment: Bayles SAMPLING MEASUREMENTS: Depth to Depth Other Date/ Water Sampled (uS @ 25 deg C) Temp OPP 0 (feet below MP) (deg C) (feet below MP) 136.8 14:28 1.37 56.09 7477 14.7 56.01 7116 clear ino odos SAMPLE HANDLING: Aliquots Filtered Preserved Date/ (Y/N) (type) Time Quantity Volume (ml) Bottle Composition Field QA/QC Samples Collected (type, Sample No.): Equipment Decontamination: Waste Disposal: GCC RIO GRANDE. INC. Signature of Field Personnel: Pueblo, CO

Control Number:

PUE.EN.D.026.04

Revision Date:

3/13/2020

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Sampling and Analysis Plan for Environmental

Groundwater Monitoring

Sampling and Analysis Plan for Environmental **Control Number: Revision Date:** Title: Page 25 of 33 **Groundwater Monitoring** PUE.EN.D.026.04 3/13/2020 GROUNDWATER SAMPLING RECORD SAMPLE No. Project No: 3826 11122 40 2021 61 ocation: GCC Rueblo - Rio Grand Personnel: Weather Conditions: (all ~ 330 Comments: INSTRUMENTS USED Instrument Manufacturer/Model Serial No. Calibration 825 0er13 4.02 Water Level Probe Geofech WLM 11.000 Std: 4 6 10 @ //.6 °C Reading 6.98 pH Meter YSI Pro + 15A104951 Std: 4 7 (1) @ 11.0 °C Reading 10.01 Std: 14/3 us @ 25 °C Reading 1375, us we std: 220 mult @ 25 °C Reading 219.7 pH Meter Conductivity Meter CONDUCTIVITY METER O RP 99.6% DO Other: 0.45 micron in-line high capacity disposable filter. WELL PURGING INFORMATION Screened Interval (ft. BGL): Casing Diameter (inches): Borehole Diameter (inches): 32.09 Total Depth (ft): 59,34 Casing Volume (gal): 4.46 (gal/ft: 1.5" = 0.092; 2" = 0.163; 4" = 0.653) Depth to Water (ft below MP): Purging Method: Bailer 13.58 Monitoring point (MP) is the top of the PVC well casing. Depth to Conductivity ORP DO Apperance Vol. Purged Water (uS @ 25 deg C) Date! Temp (deg C) (color, sediment, etc.) Comments Time (gal) 32.00 33.00 33.12 6805 .42 14.2 156.9 6.93 4.5 6.13 14.1 2.34 11:25 6711 151.5 6424 1.0 6.17 116.7 11:38 14.0 34 1-1-1 11:53 6.17 6407 31 110.3 Cumulative Volume Purged: (gallons) (casing vol) WELL SAMPLING INFORMATION Sampling Equipment: Boy len SAMPLING MEASUREMENTS: Depth to Depth Conductivity Other Other Date/ Water Sampled (uS @ 25 deg C) Temp 20 ORP Time (feet below MP) (deg C) 32.81 32.81 6.94 6589 1.21 12:01 13.7 109.7 SAMPLE HANDLING: Filtered Date/ Aliquots Preserved (Y/N) Comments Time Volume (ml) **Bottle Composition** Quantity (type) Field OA OC Samples Collected (type, Sample No.): Equipment Decontamination:

GCC RIO GRANDE, INC.

Pueblo, CO

Waste Disposal:

Signature of Field Personnel:

Sampling and Analysis Plan for Environmental Control Number: **Revision Date:** Title: Page 25 of 33 **Groundwater Monitoring** 3/13/2020 PUE.EN.D.026.04 GROUNDWATER SAMPLING RECORD SAMPLE No. 40 ZOZI GW Project No: Page / of GCC Pueblo- Rio Grands 111221 Weather Conditions: Personnel: (len ~500 Ben Yello, Duplicate collected Comments: INSTRUMENTS USED Calibration Manufacturer Model Serial No. Instrument 11.000 WLM-Gootech 8250013 Water Level Probe Std: 4 7 10 @ / 1.0 °C Reading 6.98 YSI Prot 5A104951 Slope: pH Meter Std: 4 7 (10) @ 11.6 °C Reading 10.01 pH Meter Std: 220 Ms @ 25 °C Reading 219. 7 MV Conductivity Meter OR P Std: 14/3 us @ 25 °C Reading 1375 w/cm Conductivity Meter Temperature
Other: 0 99.67 0.45 micron in-line high capacity disposable filter. WELL PURGING INFORMATION Screened Interval (ft. BGL): Borehole Diameter (inches): Depth to Water (ft below MP): 24,46 Total Depth (ft):65.19 Casing Volume (gal): 5.16 (gal/ft: 1.5" = 0.092; 2" = 0.163; 4" = 0.653) Purging Method: Bailer 17.88 Monitoring point (MP) is the top of the PVC well casing. Depth to Conductivity Vol. Purged Water (uS & 25 deg C) Appearance (deg C) (color, sediment, etc.) Comments (gal) 12:14 5408 cleur nitial 70.46 .01 7.45 13:25 6985 47.25 5993 habt brown 2.08 159/10 12:40 7.57 15.4 tuspid Cumulative Volume Purged: (gallons) (casing vol) WELL SAMPLING INFORMATION Sampling Equipment: Basla 10 dears Berled 11/12/21 sampled SAMPLING MEASUREMENTS Conductivity Other Depth to Depth Date/ Water Sampled (u5 ar 25 deg C) Temp 02 P DO Time (feet below MP) Comments 11/19 59.85 2.14 3852 54.85 14.7 4.2 683 13:51 clear, no oder SAMPLE HANDLING: Date Aliquots Preserved (Y/N) Time Volume (ml) Bottle Composition (type)

colle cled MW-ZB Field QA/QC Samples Collected (type, Sample No.):

Equipment Decontamination:

Waste Disposal: Signature of Field Personnel:

GCC RIO GRANDE, INC. Pueblo, CO



March 04, 2021

Report to: Bill to:

Diana Furman
GCC Rio Grande
GCC Rio Grande
3372 Lime Road
Pueblo, CO 81004
Diana Furman
GCC Rio Grande
3372 Lime Road
Pueblo, CO 81004

Project ID:

ACZ Project ID: L64379

Diana Furman:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on February 23, 2021. This project has been assigned to ACZ's project number, L64379. 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 L64379. 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 April 03, 2021. 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.

Bill Lane has reviewed and approved this report





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Project ID:

Sample ID: MW-6 ACZ Sample ID: L64379-01

Date Sampled: 02/22/21 13:25

Date Received: 02/23/21

Sample Matrix: Groundwater

| Metals Analysis | | | | | | | | | |
|------------------------------------|---|----------|----------|--------|---------|---------|---------|----------------|---------|
| Parameter | EPA Method | Dilution | Result | Qual X | Q Units | MDL | PQL | Date | Analyst |
| Aluminum, dissolved | M200.7 ICP | 5 | <0.25 | U | mg/L | 0.25 | 1.25 | 02/27/21 2:03 | jlw |
| Arsenic, dissolved | M200.8 ICP-MS | 5 | <0.001 | U | mg/L | 0.001 | 0.005 | 03/01/21 14:09 | mfm |
| Beryllium, dissolved | M200.7 ICP | 5 | < 0.05 | U | mg/L | 0.05 | 0.25 | 02/27/21 2:03 | jlw |
| Boron, dissolved | M200.7 ICP | 5 | 0.330 | В | mg/L | 0.1 | 0.5 | 02/27/21 2:03 | jlw |
| Cadmium, dissolved | M200.8 ICP-MS | 5 | <0.00025 | U | mg/L | 0.00025 | 0.00125 | 03/01/21 14:09 | mfm |
| Chromium, dissolved | M200.7 ICP | 5 | < 0.05 | U | mg/L | 0.05 | 0.25 | 02/27/21 2:03 | jlw |
| Cobalt, dissolved | M200.7 ICP | 5 | < 0.05 | U | mg/L | 0.05 | 0.25 | 02/27/21 2:03 | jlw |
| Copper, dissolved | M200.7 ICP | 5 | < 0.05 | U | mg/L | 0.05 | 0.25 | 02/27/21 2:03 | jlw |
| Iron, dissolved | M200.7 ICP | 5 | <0.3 | U | mg/L | 0.3 | 0.75 | 02/27/21 2:03 | jlw |
| Lead, dissolved | M200.8 ICP-MS | 5 | <0.0005 | U | mg/L | 0.0005 | 0.0025 | 03/01/21 14:09 | mfm |
| Lithium, dissolved | M200.7 ICP | 5 | 0.476 | | mg/L | 0.04 | 0.2 | 02/27/21 2:03 | jlw |
| Manganese, dissolved | M200.7 ICP | 5 | 0.315 | | mg/L | 0.05 | 0.25 | 02/27/21 2:03 | jlw |
| Mercury, dissolved | M245.1 CVAA | 1 | <0.0002 | U | mg/L | 0.0002 | 0.001 | 03/03/21 14:38 | llr |
| Nickel, dissolved | M200.7 ICP | 5 | 0.0810 | В | mg/L | 0.04 | 0.2 | 02/27/21 2:03 | jlw |
| Selenium, dissolved | M200.8 ICP-MS | 5 | 0.00487 | | mg/L | 0.0005 | 0.00125 | 03/01/21 14:09 | mfm |
| Vanadium, dissolved | M200.7 ICP | 5 | < 0.05 | U | mg/L | 0.05 | 0.125 | 02/27/21 2:03 | jlw |
| Zinc, dissolved | M200.7 ICP | 5 | <0.1 | U | mg/L | 0.1 | 0.25 | 02/27/21 2:03 | jlw |
| Wet Chemistry | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual X | Q Units | MDL | PQL | Date | Analyst |
| Fluoride | SM4500F-C | 1 | 0.62 | | mg/L | 0.11 | 0.35 | 02/26/21 15:25 | еер |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | 0.07 | В | mg/L | 0.02 | 0.1 | 03/04/21 0:00 | calc |
| Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.067 | В | mg/L | 0.02 | 0.1 | 02/23/21 22:18 | pjb |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | <0.01 | U * | mg/L | 0.01 | 0.05 | 02/23/21 22:18 | pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 2 | 5780 | * | mg/L | 40 | 80 | 02/23/21 20:56 | jck |



Project ID:

Sample ID: MW-7 ACZ Sample ID: L64379-02

Date Sampled: 02/22/21 12:27

Date Received: 02/23/21

Sample Matrix: Groundwater

| Metals Analysis | | | | | | | | | |
|---------------------------------|---|----------|----------|---------|-------|---------|---------|----------------|---------|
| Parameter | EPA Method | Dilution | Result | Qual XQ | Units | MDL | PQL | Date | Analyst |
| Aluminum, dissolved | M200.7 ICP | 5 | <0.25 | U | mg/L | 0.25 | 1.25 | 02/27/21 2:06 | jlw |
| Arsenic, dissolved | M200.8 ICP-MS | 5 | <0.001 | U | mg/L | 0.001 | 0.005 | 03/01/21 14:11 | mfm |
| Beryllium, dissolved | M200.7 ICP | 5 | < 0.05 | U | mg/L | 0.05 | 0.25 | 02/27/21 2:06 | jlw |
| Boron, dissolved | M200.7 ICP | 5 | 0.196 | В | mg/L | 0.1 | 0.5 | 02/27/21 2:06 | jlw |
| Cadmium, dissolved | M200.8 ICP-MS | 5 | <0.00025 | U | mg/L | 0.00025 | 0.00125 | 03/01/21 14:11 | mfm |
| Chromium, dissolved | M200.7 ICP | 5 | < 0.05 | U | mg/L | 0.05 | 0.25 | 02/27/21 2:06 | jlw |
| Cobalt, dissolved | M200.7 ICP | 5 | < 0.05 | U | mg/L | 0.05 | 0.25 | 02/27/21 2:06 | jlw |
| Copper, dissolved | M200.7 ICP | 5 | < 0.05 | U | mg/L | 0.05 | 0.25 | 02/27/21 2:06 | jlw |
| Iron, dissolved | M200.7 ICP | 5 | < 0.3 | U | mg/L | 0.3 | 0.75 | 02/27/21 2:06 | jlw |
| Lead, dissolved | M200.8 ICP-MS | 5 | <0.0005 | U | mg/L | 0.0005 | 0.0025 | 03/01/21 14:11 | mfm |
| Lithium, dissolved | M200.7 ICP | 5 | 0.634 | | mg/L | 0.04 | 0.2 | 02/27/21 2:06 | jlw |
| Manganese, dissolved | M200.7 ICP | 5 | < 0.05 | U | mg/L | 0.05 | 0.25 | 02/27/21 2:06 | jlw |
| Mercury, dissolved | M245.1 CVAA | 1 | <0.0002 | U | mg/L | 0.0002 | 0.001 | 03/03/21 14:39 | llr |
| Nickel, dissolved | M200.7 ICP | 5 | <0.04 | U | mg/L | 0.04 | 0.2 | 02/27/21 2:06 | jlw |
| Selenium, dissolved | M200.8 ICP-MS | 5 | 0.0348 | | mg/L | 0.0005 | 0.00125 | 03/01/21 14:11 | mfm |
| Vanadium, dissolved | M200.7 ICP | 5 | <0.05 | U | mg/L | 0.05 | 0.125 | 02/27/21 2:06 | jlw |
| Zinc, dissolved | M200.7 ICP | 5 | <0.1 | U | mg/L | 0.1 | 0.25 | 02/27/21 2:06 | jlw |
| Wet Chemistry | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual XQ | Units | MDL | PQL | Date | Analyst |
| Fluoride | SM4500F-C | 1 | 0.49 | | mg/L | 0.11 | 0.35 | 02/26/21 15:29 | еер |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | 9.9 | | mg/L | 0.1 | 0.5 | 03/04/21 0:00 | calc |
| Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 5 | 9.98 | | mg/L | 0.1 | 0.5 | 02/23/21 22:46 | pjb |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.068 | * | mg/L | 0.01 | 0.05 | 02/23/21 22:19 | pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 2 | 6500 | * | mg/L | 40 | 80 | 02/23/21 20:58 | jck |

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^{*} Please refer to Qualifier Reports for details.



Project ID:

Sample ID: MW-2B ACZ Sample ID: L64379-03

Date Sampled: 02/22/21 12:42

Date Received: 02/23/21

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 | 02/27/21 2:16 | jlw |
| Arsenic, dissolved | M200.8 ICP-MS | 5 | <0.001 | U | mg/L | 0.001 | 0.005 | 03/01/21 14:13 | mfm |
| Beryllium, dissolved | M200.7 ICP | 1 | <0.01 | U | mg/L | 0.01 | 0.05 | 02/27/21 2:16 | jlw |
| Boron, dissolved | M200.7 ICP | 1 | 0.167 | | mg/L | 0.02 | 0.1 | 02/27/21 2:16 | jlw |
| Cadmium, dissolved | M200.8 ICP-MS | 5 | <0.00025 | U | mg/L | 0.00025 | 0.00125 | 03/01/21 14:13 | mfm |
| Chromium, dissolved | M200.7 ICP | 1 | <0.01 | U | mg/L | 0.01 | 0.05 | 02/27/21 2:16 | jlw |
| Cobalt, dissolved | M200.7 ICP | 1 | <0.01 | U | mg/L | 0.01 | 0.05 | 02/27/21 2:16 | jlw |
| Copper, dissolved | M200.7 ICP | 1 | <0.01 | U | mg/L | 0.01 | 0.05 | 02/27/21 2:16 | jlw |
| Iron, dissolved | M200.7 ICP | 1 | <0.06 | U | mg/L | 0.06 | 0.15 | 02/27/21 2:16 | jlw |
| Lead, dissolved | M200.8 ICP-MS | 5 | <0.0005 | U | mg/L | 0.0005 | 0.0025 | 03/01/21 14:13 | mfm |
| Lithium, dissolved | M200.7 ICP | 1 | 0.619 | | mg/L | 0.008 | 0.04 | 02/27/21 2:16 | jlw |
| Manganese, dissolved | M200.7 ICP | 1 | 0.020 | В | mg/L | 0.01 | 0.05 | 02/27/21 2:16 | jlw |
| Mercury, dissolved | M245.1 CVAA | 1 | <0.0002 | U | mg/L | 0.0002 | 0.001 | 03/03/21 14:42 | ! IIr |
| Nickel, dissolved | M200.7 ICP | 1 | 0.0197 | В | mg/L | 0.008 | 0.04 | 02/27/21 2:16 | jlw |
| Selenium, dissolved | M200.8 ICP-MS | 5 | 0.0329 | | mg/L | 0.0005 | 0.00125 | 03/01/21 14:13 | mfm |
| Vanadium, dissolved | M200.7 ICP | 1 | <0.01 | U | mg/L | 0.01 | 0.025 | 02/27/21 2:16 | jlw |
| Zinc, dissolved | M200.7 ICP | 1 | <0.02 | U | mg/L | 0.02 | 0.05 | 02/27/21 2:16 | jlw |
| Wet Chemistry | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual XQ | Units | MDL | PQL | Date | Analyst |
| Fluoride | SM4500F-C | 1 | 0.49 | | mg/L | 0.11 | 0.35 | 02/26/21 15:34 | еер |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | 10 | | mg/L | 0.1 | 0.5 | 03/04/21 0:00 | calc |
| Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 5 | 10.3 | | mg/L | 0.1 | 0.5 | 02/23/21 22:47 | pjb |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.068 | * | mg/L | 0.01 | 0.05 | 02/23/21 22:20 | pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 2 | 6460 | | mg/L | 40 | 80 | 02/24/21 10:56 | scd |



Project ID:

Sample ID: MW-8 ACZ Sample ID: L64379-04

Date Sampled: 02/22/21 13:00

Date Received: 02/23/21

Sample Matrix: Groundwater

| Metals Analysis | | | | | | | | | |
|------------------------------------|---|----------|----------|--------|---------|---------|---------|----------------|---------|
| Parameter | EPA Method | Dilution | Result | Qual X | Q Units | MDL | PQL | Date | Analyst |
| Aluminum, dissolved | M200.7 ICP | 1 | <0.05 | U | mg/L | 0.05 | 0.25 | 02/27/21 2:20 | jlw |
| Arsenic, dissolved | M200.8 ICP-MS | 5 | 0.00350 | В | mg/L | 0.001 | 0.005 | 03/01/21 14:15 | mfm |
| Beryllium, dissolved | M200.7 ICP | 1 | <0.01 | U | mg/L | 0.01 | 0.05 | 02/27/21 2:20 | jlw |
| Boron, dissolved | M200.7 ICP | 1 | 0.848 | | mg/L | 0.02 | 0.1 | 02/27/21 2:20 | jlw |
| Cadmium, dissolved | M200.8 ICP-MS | 5 | <0.00025 | U | mg/L | 0.00025 | 0.00125 | 03/01/21 14:15 | 5 mfm |
| Chromium, dissolved | M200.7 ICP | 1 | <0.01 | U | mg/L | 0.01 | 0.05 | 02/27/21 2:20 | jlw |
| Cobalt, dissolved | M200.7 ICP | 1 | <0.01 | U | mg/L | 0.01 | 0.05 | 02/27/21 2:20 | jlw |
| Copper, dissolved | M200.7 ICP | 1 | <0.01 | U | mg/L | 0.01 | 0.05 | 02/27/21 2:20 | jlw |
| Iron, dissolved | M200.7 ICP | 1 | <0.06 | U | mg/L | 0.06 | 0.15 | 02/27/21 2:20 | jlw |
| Lead, dissolved | M200.8 ICP-MS | 5 | <0.0005 | U | mg/L | 0.0005 | 0.0025 | 03/01/21 14:15 | 5 mfm |
| Lithium, dissolved | M200.7 ICP | 1 | 0.360 | | mg/L | 0.008 | 0.04 | 02/27/21 2:20 | jlw |
| Manganese, dissolved | M200.7 ICP | 1 | 0.307 | | mg/L | 0.01 | 0.05 | 02/27/21 2:20 | jlw |
| Mercury, dissolved | M245.1 CVAA | 1 | <0.0002 | U | mg/L | 0.0002 | 0.001 | 03/03/21 14:45 | i IIr |
| Nickel, dissolved | M200.7 ICP | 1 | <0.008 | U | mg/L | 0.008 | 0.04 | 02/27/21 2:20 | jlw |
| Selenium, dissolved | M200.8 ICP-MS | 5 | <0.0005 | U | mg/L | 0.0005 | 0.00125 | 03/01/21 14:15 | mfm |
| Vanadium, dissolved | M200.7 ICP | 1 | <0.01 | U | mg/L | 0.01 | 0.025 | 02/27/21 2:20 | jlw |
| Zinc, dissolved | M200.7 ICP | 1 | <0.02 | U | mg/L | 0.02 | 0.05 | 02/27/21 2:20 | jlw |
| Wet Chemistry | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual X | Q Units | MDL | PQL | Date | Analyst |
| Fluoride | SM4500F-C | 1 | 1.10 | | mg/L | 0.11 | 0.35 | 02/26/21 15:39 | еер |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | < 0.02 | U | mg/L | 0.02 | 0.1 | 03/04/21 0:00 | calc |
| Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | <0.02 | U | mg/L | 0.02 | 0.1 | 02/23/21 22:53 | s pjb |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | <0.01 | U * | mg/L | 0.01 | 0.05 | 02/23/21 22:22 | ? pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 10 | 4180 | | mg/L | 200 | 400 | 02/24/21 10:59 | scd scd |

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^{*} Please refer to Qualifier Reports for details.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

| Report H | eader Ex | planations |
|----------|----------|------------|
| | | |

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest

Limit Upper limit for RPD, in %.

Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5).

Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit. Synonymous with the EPA term "minimum level".

QC True Value of the Control Sample or the amount added to the Spike

Rec Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

| 26 | ӯр€ | т | ole | am | S | റവ |
|----|-----|---|------|----|---|-----|
| | VЮ | ш | olle | am | 3 | UU. |

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

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

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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.

| limits are in % R | ec. | | | | | | | | | | | | |
|-------------------|-------|----------------|------------|------------|--------|--------|-------|------|----------|---------|-----|-------|------|
| Aluminum, diss | olved | | M200.7 I | CP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG515012 | | | | | | | | | | | | | |
| WG515012ICV | ICV | 02/27/21 1:18 | II210219-1 | 2 | | 1.997 | mg/L | 100 | 95 | 105 | | | |
| WG515012ICB | ICB | 02/27/21 1:24 | | | | U | mg/L | | -0.15 | 0.15 | | | |
| WG515012PQV | PQV | 02/27/21 1:27 | 11210204-2 | .250325 | | .25 | mg/L | 100 | 70 | 130 | | | |
| WG515012SIC | SIC | 02/27/21 1:30 | II210118-1 | 200.510325 | | 205.1 | mg/L | 102 | 1 | 200 | | | |
| WG515012LFB | LFB | 02/27/21 1:37 | II210208-3 | 1.0013 | | 1.034 | mg/L | 103 | 85 | 115 | | | |
| L64373-02AS | AS | 02/27/21 1:47 | II210208-3 | 1.0013 | U | 1.018 | mg/L | 102 | 85 | 115 | | | |
| L64373-02ASD | ASD | 02/27/21 1:50 | II210208-3 | 1.0013 | U | 1.021 | mg/L | 102 | 85 | 115 | 0 | 20 | |
| WG515012CCV1 | CCV | 02/27/21 2:09 | II210219-2 | 1 | | .987 | mg/L | 99 | 90 | 110 | | | |
| WG515012CCB1 | CCB | 02/27/21 2:13 | | | | U | mg/L | | -0.15 | 0.15 | | | |
| WG515012CCV2 | CCV | 02/27/21 2:49 | II210219-2 | 1 | | .981 | mg/L | 98 | 90 | 110 | | | |
| WG515012CCB2 | CCB | 02/27/21 2:53 | | | | U | mg/L | | -0.15 | 0.15 | | | |
| WG515012CCV3 | CCV | 02/27/21 3:13 | II210219-2 | 1 | | .991 | mg/L | 99 | 90 | 110 | | | |
| WG515012CCB3 | CCB | 02/27/21 3:16 | | | | U | mg/L | | -0.15 | 0.15 | | | |
| Arsenic, dissolv | ed | | M200.8 I | CP-MS | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG515108 | | | | | | | | | | | | | |
| WG515108ICV | ICV | 03/01/21 13:33 | MS210115-2 | .05 | | .04936 | mg/L | 99 | 90 | 110 | | | |
| WG515108ICB | ICB | 03/01/21 13:35 | | | | U | mg/L | | -0.00044 | 0.00044 | | | |
| WG515108LFB | LFB | 03/01/21 13:37 | MS201228-2 | .05005 | | .04477 | mg/L | 89 | 85 | 115 | | | |
| WG515108CCV1 | CCV | 03/01/21 13:55 | MS210212-2 | .1001 | | .09754 | mg/L | 97 | 90 | 110 | | | |
| WG515108CCB1 | ССВ | 03/01/21 13:57 | | | | U | mg/L | | -0.0006 | 0.0006 | | | |
| WG515108CCV2 | CCV | 03/01/21 14:16 | MS210212-2 | .1001 | | .0995 | mg/L | 99 | 90 | 110 | | | |
| WG515108CCB2 | ССВ | 03/01/21 14:18 | | | | U | mg/L | | -0.0006 | 0.0006 | | | |
| L64418-01AS | AS | 03/01/21 14:25 | MS201228-2 | .05005 | .00065 | .052 | mg/L | 103 | 70 | 130 | | | |
| L64418-01ASD | ASD | 03/01/21 14:27 | MS201228-2 | .05005 | .00065 | .04968 | mg/L | 98 | 70 | 130 | 5 | 20 | |
| WG515108CCV3 | CCV | 03/01/21 14:29 | MS210212-2 | .1001 | | .09931 | mg/L | 99 | 90 | 110 | | | |
| WG515108CCB3 | CCB | 03/01/21 14:31 | | | | U | mg/L | | -0.0006 | 0.0006 | | | |
| Beryllium, disso | lved | | M200.7 I | СР | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG515012 | | | | | | | | | | | | | |
| WG515012ICV | ICV | 02/27/21 1:18 | II210219-1 | 2 | | 1.967 | mg/L | 98 | 95 | 105 | | | |
| WG515012ICB | ICB | 02/27/21 1:24 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012PQV | PQV | 02/27/21 1:27 | II210204-2 | .05 | | .052 | mg/L | 104 | 70 | 130 | | | |
| WG515012SIC | SIC | 02/27/21 1:30 | II210118-1 | .1 | | .097 | mg/L | 97 | 80 | 120 | | | |
| WG515012LFB | LFB | 02/27/21 1:37 | II210208-3 | .5 | | .507 | mg/L | 101 | 85 | 115 | | | |
| L64373-02AS | AS | 02/27/21 1:47 | II210208-3 | .5 | U | .498 | mg/L | 100 | 85 | 115 | | | |
| L64373-02ASD | ASD | 02/27/21 1:50 | II210208-3 | .5 | U | .495 | mg/L | 99 | 85 | 115 | 1 | 20 | |
| WG515012CCV1 | CCV | 02/27/21 2:09 | II210219-2 | 1 | | .983 | mg/L | 98 | 90 | 110 | | | |
| WG515012CCB1 | CCB | 02/27/21 2:13 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012CCV2 | CCV | 02/27/21 2:49 | II210219-2 | 1 | | .97 | mg/L | 97 | 90 | 110 | | | |
| WG515012CCB2 | CCB | 02/27/21 2:53 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012CCV3 | CCV | 02/27/21 3:13 | II210219-2 | 1 | | .929 | mg/L | 93 | 90 | 110 | | | |
| WG515012CCB3 | CCB | 02/27/21 3:16 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| | | | | | | | | | | | | | |

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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, dissolve | | | M200.7 IC | :P | | | | | | | | | |
|----------------------------|-------|----------------|--------------|--------|----------|------------|-------|------|----------|---------|-----|-------|----------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG515012 | .,,,, | 7uy=0 u | | | - Campio | | | 1100 | | орро: | 5 | | - Claran |
| WG515012ICV | ICV | 02/27/21 1:18 | II210219-1 | 2 | | 1.967 | mg/L | 98 | 95 | 105 | | | |
| WG515012ICB | ICB | 02/27/21 1:18 | 112 102 19-1 | 2 | | 1.907 U | mg/L | 30 | -0.06 | 0.06 | | | |
| WG515012ICB WG515012PQV | PQV | 02/27/21 1:27 | II210204-2 | .1001 | | .11 | mg/L | 110 | 70 | 130 | | | |
| WG515012FQV WG515012SIC | SIC | 02/27/21 1:30 | II210204-2 | .1001 | | .098 | mg/L | 98 | 80 | 120 | | | |
| WG515012LFB | LFB | 02/27/21 1:37 | II210208-3 | .5005 | | .513 | mg/L | 102 | 85 | 115 | | | |
| L64373-02AS | AS | 02/27/21 1:47 | II210208-3 | .5005 | U | .514 | mg/L | 103 | 85 | 115 | | | |
| L64373-02ASD | ASD | 02/27/21 1:50 | II210208-3 | .5005 | U | .512 | mg/L | 102 | 85 | 115 | 0 | 20 | |
| WG515012CCV1 | CCV | 02/27/21 2:09 | II210219-2 | 1 | · · | .979 | mg/L | 98 | 90 | 110 | ŭ | 20 | |
| WG515012CCB1 | CCB | 02/27/21 2:13 | | · | | U | mg/L | 00 | -0.06 | 0.06 | | | |
| WG515012CCV2 | CCV | 02/27/21 2:49 | II210219-2 | 1 | | .97 | mg/L | 97 | 90 | 110 | | | |
| WG515012CCB2 | CCB | 02/27/21 2:53 | | • | | U | mg/L | | -0.06 | 0.06 | | | |
| WG515012CCV3 | CCV | 02/27/21 3:13 | II210219-2 | 1 | | .925 | mg/L | 93 | 90 | 110 | | | |
| WG515012CCB3 | CCB | 02/27/21 3:16 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| Cadmium, disso | lved | | M200.8 IC | P-MS | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG515108 | | | | | | | | | | | | | |
| WG515108ICV | ICV | 03/01/21 13:33 | MS210115-2 | .05 | | .054229 | mg/L | 108 | 90 | 110 | | | |
| WG515108ICB | ICB | 03/01/21 13:35 | | | | U | mg/L | | -0.00011 | 0.00011 | | | |
| WG515108LFB | LFB | 03/01/21 13:37 | MS201228-2 | .05005 | | .048649 | mg/L | 97 | 85 | 115 | | | |
| WG515108CCV1 | CCV | 03/01/21 13:55 | MS210212-2 | .1001 | | .104948 | mg/L | 105 | 90 | 110 | | | |
| WG515108CCB1 | ССВ | 03/01/21 13:57 | | | | U | mg/L | | -0.00015 | 0.00015 | | | |
| WG515108CCV2 | CCV | 03/01/21 14:16 | MS210212-2 | .1001 | | .103959 | mg/L | 104 | 90 | 110 | | | |
| WG515108CCB2 | ССВ | 03/01/21 14:18 | | | | U | mg/L | | -0.00015 | 0.00015 | | | |
| L64418-01AS | AS | 03/01/21 14:25 | MS201228-2 | .05005 | U | .051924 | mg/L | 104 | 70 | 130 | | | |
| L64418-01ASD | ASD | 03/01/21 14:27 | MS201228-2 | .05005 | U | .050898 | mg/L | 102 | 70 | 130 | 2 | 20 | |
| WG515108CCV3 | CCV | 03/01/21 14:29 | MS210212-2 | .1001 | | .105446 | mg/L | 105 | 90 | 110 | | | |
| WG515108CCB3 | CCB | 03/01/21 14:31 | | | | U | mg/L | | -0.00015 | 0.00015 | | | |
| Chromium, diss | olved | | M200.7 IC | ;P | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG515012 | | | | | | | | | | | | | |
| WG515012ICV | ICV | 02/27/21 1:18 | II210219-1 | 2 | | 1.961 | mg/L | 98 | 95 | 105 | | | |
| WG515012ICB | ICB | 02/27/21 1:24 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012PQV | PQV | 02/27/21 1:27 | II210204-2 | .05015 | | .051 | mg/L | 102 | 70 | 130 | | | |
| WG515012SIC | SIC | 02/27/21 1:30 | II210118-1 | .1003 | | .09 | mg/L | 90 | 80 | 120 | | | |
| WG515012LFB | LFB | 02/27/21 1:37 | II210208-3 | .502 | | .508 | mg/L | 101 | 85 | 115 | | | |
| L64373-02AS | AS | 02/27/21 1:47 | II210208-3 | .502 | U | .497 | mg/L | 99 | 85 | 115 | | | |
| L64373-02ASD | ASD | 02/27/21 1:50 | II210208-3 | .502 | U | .502 | mg/L | 100 | 85 | 115 | 1 | 20 | |
| WG515012CCV1 | CCV | 02/27/21 2:09 | II210219-2 | 1 | | .989 | mg/L | 99 | 90 | 110 | | | |
| WG515012CCB1 | CCB | 02/27/21 2:13 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012CCV2 | CCV | 02/27/21 2:49 | II210219-2 | 1 | | .986 | mg/L | 99 | 90 | 110 | | | |
| WG515012CCB2 | CCB | 02/27/21 2:53 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012CCV3 | CCV | 02/27/21 3:13 | II210219-2 | 1 | | .938 | mg/L | 94 | 90 | 110 | | | |
| WG515012CCB3 | CCB | 02/27/21 3:16 | | | | U | mg/L | | -0.03 | 0.03 | | | |

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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 | M200.7 ICP |
|-------------------|------------|
|-------------------|------------|

| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|---------------|------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG515012 | | | | | | | | | | | | | |
| WG515012ICV | ICV | 02/27/21 1:18 | II210219-1 | 2.004 | | 1.913 | mg/L | 95 | 95 | 105 | | | |
| WG515012ICB | ICB | 02/27/21 1:24 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012PQV | PQV | 02/27/21 1:27 | II210204-2 | .05 | | .048 | mg/L | 96 | 70 | 130 | | | |
| WG515012SIC | SIC | 02/27/21 1:30 | II210118-1 | .1 | | .089 | mg/L | 89 | 80 | 120 | | | |
| WG515012LFB | LFB | 02/27/21 1:37 | II210208-3 | .5005 | | .492 | mg/L | 98 | 85 | 115 | | | |
| L64373-02AS | AS | 02/27/21 1:47 | II210208-3 | .5005 | U | .483 | mg/L | 97 | 85 | 115 | | | |
| L64373-02ASD | ASD | 02/27/21 1:50 | II210208-3 | .5005 | U | .482 | mg/L | 96 | 85 | 115 | 0 | 20 | |
| WG515012CCV1 | CCV | 02/27/21 2:09 | II210219-2 | 1.002 | | .965 | mg/L | 96 | 90 | 110 | | | |
| WG515012CCB1 | CCB | 02/27/21 2:13 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012CCV2 | CCV | 02/27/21 2:49 | II210219-2 | 1.002 | | .958 | mg/L | 96 | 90 | 110 | | | |
| WG515012CCB2 | CCB | 02/27/21 2:53 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012CCV3 | CCV | 02/27/21 3:13 | II210219-2 | 1.002 | | .913 | mg/L | 91 | 90 | 110 | | | |
| WG515012CCB3 | CCB | 02/27/21 3:16 | | | | U | mg/L | | -0.03 | 0.03 | | | |

Copper, dissolved M200.7 ICP

| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|---------------|------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG515012 | | | | | | | | | | | | | |
| WG515012ICV | ICV | 02/27/21 1:18 | II210219-1 | 2 | | 1.947 | mg/L | 97 | 95 | 105 | | | |
| WG515012ICB | ICB | 02/27/21 1:24 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012PQV | PQV | 02/27/21 1:27 | II210204-2 | .0501 | | .051 | mg/L | 102 | 70 | 130 | | | |
| WG515012SIC | SIC | 02/27/21 1:30 | II210118-1 | .1002 | | .103 | mg/L | 103 | 80 | 120 | | | |
| WG515012LFB | LFB | 02/27/21 1:37 | II210208-3 | .5015 | | .51 | mg/L | 102 | 85 | 115 | | | |
| L64373-02AS | AS | 02/27/21 1:47 | II210208-3 | .5015 | .019 | .501 | mg/L | 96 | 85 | 115 | | | |
| L64373-02ASD | ASD | 02/27/21 1:50 | II210208-3 | .5015 | .019 | .502 | mg/L | 96 | 85 | 115 | 0 | 20 | |
| WG515012CCV1 | CCV | 02/27/21 2:09 | II210219-2 | 1 | | .971 | mg/L | 97 | 90 | 110 | | | |
| WG515012CCB1 | CCB | 02/27/21 2:13 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012CCV2 | CCV | 02/27/21 2:49 | II210219-2 | 1 | | .967 | mg/L | 97 | 90 | 110 | | | |
| WG515012CCB2 | CCB | 02/27/21 2:53 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012CCV3 | CCV | 02/27/21 3:13 | II210219-2 | 1 | | .925 | mg/L | 93 | 90 | 110 | | | |
| WG515012CCB3 | CCB | 02/27/21 3:16 | | | | U | mg/L | | -0.03 | 0.03 | | | |

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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.

| | 01445005.0 |
|----------|------------|
| Fluoride | SM4500F-C |

| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG515015 | | | | | | | | | | | | | |
| WG515015ICV | ICV | 02/26/21 13:08 | WC210213-2 | 2.002 | | 2.01 | mg/L | 100 | 90 | 110 | | | |
| WG515015ICB | ICB | 02/26/21 13:16 | | | | U | mg/L | | -0.33 | 0.33 | | | |
| WG515015PQV | PQV | 02/26/21 13:20 | WC210130-1 | .35105 | | .36 | mg/L | 103 | 70 | 130 | | | |
| WG515015LFB1 | LFB | 02/26/21 13:25 | WC201221-2 | 5.015 | | 5.12 | mg/L | 102 | 90 | 110 | | | |
| WG515015CCV1 | CCV | 02/26/21 14:39 | WC210213-2 | 2.002 | | 2.02 | mg/L | 101 | 90 | 110 | | | |
| WG515015CCB1 | CCB | 02/26/21 14:47 | | | | U | mg/L | | -0.33 | 0.33 | | | |
| WG515015CCV2 | CCV | 02/26/21 15:43 | WC210226-7 | 2.002 | | 2.06 | mg/L | 103 | 90 | 110 | | | |
| WG515015CCB2 | CCB | 02/26/21 15:52 | | | | U | mg/L | | -0.33 | 0.33 | | | |
| L64403-02AS | AS | 02/26/21 16:17 | WC201221-2 | 5.015 | .14 | 5.5 | mg/L | 107 | 90 | 110 | | | |
| L64403-02ASD | ASD | 02/26/21 16:21 | WC201221-2 | 5.015 | .14 | 5.45 | mg/L | 106 | 90 | 110 | 1 | 20 | |
| WG515015LFB2 | LFB | 02/26/21 16:25 | WC201221-2 | 5.015 | | 5.12 | mg/L | 102 | 90 | 110 | | | |
| WG515015CCV3 | CCV | 02/26/21 16:50 | WC210226-7 | 2.002 | | 2.05 | mg/L | 102 | 90 | 110 | | | |
| WG515015CCB3 | CCB | 02/26/21 16:58 | | | | U | mg/L | | -0.33 | 0.33 | | | |
| WG515015CCV4 | CCV | 02/26/21 17:50 | WC210226-7 | 2.002 | | 2.08 | mg/L | 104 | 90 | 110 | | | |
| WG515015CCB4 | CCB | 02/26/21 17:58 | | | | U | mg/L | | -0.33 | 0.33 | | | |
| WG515015CCV5 | CCV | 02/26/21 18:40 | WC210226-7 | 2.002 | | 2.09 | mg/L | 104 | 90 | 110 | | | |
| WG515015CCB5 | CCB | 02/26/21 18:47 | | | | U | mg/L | | -0.33 | 0.33 | | | |

Iron, dissolved M200.7 ICP

| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|---------------|------------|-----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG515012 | | | | | | | | | | | | | |
| WG515012ICV | ICV | 02/27/21 1:18 | II210219-1 | 2 | | 1.94 | mg/L | 97 | 95 | 105 | | | |
| WG515012ICB | ICB | 02/27/21 1:24 | | | | U | mg/L | | -0.18 | 0.18 | | | |
| WG515012PQV | PQV | 02/27/21 1:27 | II210204-2 | .15027 | | .147 | mg/L | 98 | 70 | 130 | | | |
| WG515012SIC | SIC | 02/27/21 1:30 | II210118-1 | 200.51027 | | 190.5 | mg/L | 95 | 1 | 200 | | | |
| WG515012LFB | LFB | 02/27/21 1:37 | II210208-3 | 1.0018 | | 1.037 | mg/L | 104 | 85 | 115 | | | |
| L64373-02AS | AS | 02/27/21 1:47 | II210208-3 | 1.0018 | .627 | 1.592 | mg/L | 96 | 85 | 115 | | | |
| L64373-02ASD | ASD | 02/27/21 1:50 | II210208-3 | 1.0018 | .627 | 1.586 | mg/L | 96 | 85 | 115 | 0 | 20 | |
| WG515012CCV1 | CCV | 02/27/21 2:09 | II210219-2 | 1 | | .968 | mg/L | 97 | 90 | 110 | | | |
| WG515012CCB1 | CCB | 02/27/21 2:13 | | | | U | mg/L | | -0.18 | 0.18 | | | |
| WG515012CCV2 | CCV | 02/27/21 2:49 | II210219-2 | 1 | | .972 | mg/L | 97 | 90 | 110 | | | |
| WG515012CCB2 | CCB | 02/27/21 2:53 | | | | U | mg/L | | -0.18 | 0.18 | | | |
| WG515012CCV3 | CCV | 02/27/21 3:13 | II210219-2 | 1 | | 1.08 | mg/L | 108 | 90 | 110 | | | |
| WG515012CCB3 | CCB | 02/27/21 3:16 | | | | .075 | mg/L | | -0.18 | 0.18 | | | |

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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.

| lining are in 70 Net | . | | M000 0 I | CD MC | | | | | | | | | |
|------------------------------|----------|--------------------------------|------------|---------|--------|-------------|--------------|------|-------------|-------------|-----|-------|------|
| Lead, dissolved | | | M200.8 I | | | | | | | | | | |
| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG515108 | | | | | | | | | | | | | |
| WG515108ICV | ICV | 03/01/21 13:33 | MS210115-2 | .05 | | .0532 | mg/L | 106 | 90 | 110 | | | |
| WG515108ICB | ICB | 03/01/21 13:35 | | | | U | mg/L | | -0.00022 | 0.00022 | | | |
| WG515108LFB | LFB | 03/01/21 13:37 | MS201228-2 | .05005 | | .0492 | mg/L | 98 | 85 | 115 | | | |
| WG515108CCV1 | CCV | 03/01/21 13:55 | MS210212-2 | .25025 | | .24774 | mg/L | 99 | 90 | 110 | | | |
| WG515108CCB1 | CCB | 03/01/21 13:57 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |
| WG515108CCV2 | CCV | 03/01/21 14:16 | MS210212-2 | .25025 | | .25505 | mg/L | 102 | 90 | 110 | | | |
| WG515108CCB2 | CCB | 03/01/21 14:18 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |
| L64418-01AS | AS | 03/01/21 14:25 | MS201228-2 | .05005 | .00012 | .04876 | mg/L | 97 | 70 | 130 | | | |
| L64418-01ASD | ASD | 03/01/21 14:27 | MS201228-2 | .05005 | .00012 | .04801 | mg/L | 96 | 70 | 130 | 2 | 20 | |
| WG515108CCV3 | CCV | 03/01/21 14:29 | MS210212-2 | .25025 | | .2389 | mg/L | 95 | 90 | 110 | | | |
| WG515108CCB3 | ССВ | 03/01/21 14:31 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |
| Lithium, dissolve | d | | M200.7 I | СР | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG515012 | | | | | | | | | | | | | |
| WG515012ICV | ICV | 02/27/21 1:18 | II210219-1 | 2 | | 1.9675 | mg/L | 98 | 95 | 105 | | | |
| WG515012ICB | ICB | 02/27/21 1:24 | | _ | | U | mg/L | | -0.024 | 0.024 | | | |
| WG515012PQV | PQV | 02/27/21 1:27 | II210204-2 | .03988 | | .0418 | mg/L | 105 | 70 | 130 | | | |
| WG515012SIC | SIC | 02/27/21 1:30 | II210118-1 | .0997 | | .1003 | mg/L | 101 | 80 | 120 | | | |
| WG515012LFB | LFB | 02/27/21 1:37 | II210208-3 | .997 | | 1.02 | mg/L | 102 | 85 | 115 | | | |
| L64373-02AS | AS | 02/27/21 1:47 | II210208-3 | .997 | .0111 | 1.02 | mg/L | 101 | 85 | 115 | | | |
| L64373-02ASD | ASD | 02/27/21 1:50 | II210208-3 | .997 | .0111 | 1.011 | mg/L | 100 | 85 | 115 | 1 | 20 | |
| WG515012CCV1 | CCV | 02/27/21 2:09 | II210219-2 | 1 | | .9774 | mg/L | 98 | 90 | 110 | • | | |
| WG515012CCB1 | CCB | 02/27/21 2:13 | | • | | U | mg/L | 00 | -0.024 | 0.024 | | | |
| WG515012CCV2 | CCV | 02/27/21 2:49 | II210219-2 | 1 | | .9693 | mg/L | 97 | 90 | 110 | | | |
| WG515012CCB2 | CCB | 02/27/21 2:53 | | • | | U | mg/L | 0. | -0.024 | 0.024 | | | |
| WG515012CCV3 | CCV | 02/27/21 3:13 | II210219-2 | 1 | | .9288 | mg/L | 93 | 90 | 110 | | | |
| WG515012CCB3 | CCB | 02/27/21 3:16 | | | | .0200 U | mg/L | 50 | -0.024 | 0.024 | | | |
| | | | M200 7 I | CD | | | | | | | | | |
| Manganese, disso | | | M200.7 I | | | | | - 04 | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG515012 | | | | | | | | | | | | | |
| WG515012ICV | ICV | 02/27/21 1:18 | II210219-1 | 2 | | 1.94 | mg/L | 97 | 95 | 105 | | | |
| WG515012ICB | ICB | 02/27/21 1:24 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012PQV | PQV | 02/27/21 1:27 | II210204-2 | .0501 | | .048 | mg/L | 96 | 70 | 130 | | | |
| WG515012SIC | SIC | 02/27/21 1:30 | II210118-1 | 50.1001 | | 47.11 | mg/L | 94 | 1 | 200 | | | |
| WG515012LFB | LFB | 02/27/21 1:37 | II210208-3 | .5005 | | .483 | mg/L | 97 | 85 | 115 | | | |
| L64373-02AS | AS | 02/27/21 1:47 | II210208-3 | .5005 | .065 | .54 | mg/L | 95 | 85 | 115 | | | |
| L64373-02ASD | ASD | 02/27/21 1:50 | II210208-3 | .5005 | .065 | .536 | mg/L | 94 | 85 | 115 | 1 | 20 | |
| WG515012CCV1 | CCV | 02/27/21 2:09 | II210219-2 | 1 | | .974 | mg/L | 97 | 90 | 110 | | | |
| WG515012CCB1 | CCB | 02/27/21 2:13 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012CCV2 | CCV | 02/27/21 2:49 | II210219-2 | 1 | | .966 | mg/L | 97 | 90 | 110 | | | |
| WG515012CCB2 | CCB | 02/27/21 2:53 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| | | | | | | 0= | | ~= | | 440 | | | |
| WG515012CCV3 WG515012CCB3 | CCV | 02/27/21 3:13 02/27/21 3:16 | II210219-2 | 1 | | .95 .011 | mg/L mg/L | 95 | 90 -0.03 | 110 0.03 | | | |

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GCC Rio Grande ACZ Project ID: L64379

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, dissolv | /ed | | M245.1 C | CVAA | | | | | | | | | |
|--------------------|------|----------------|-------------|-----------|--------|--------|-------|------|----------|---------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG515174 | | | | | | | | | | | | | |
| WG515174ICV | ICV | 03/03/21 14:31 | HG210118-2 | .005 | | .00505 | mg/L | 101 | 95 | 105 | | | |
| WG515174ICB | ICB | 03/03/21 14:32 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| WG515174LRB | LRB | 03/03/21 14:34 | | | | U | mg/L | | -0.00044 | 0.00044 | | | |
| WG515174LFB | LFB | 03/03/21 14:35 | HG210301-3 | .002002 | | .00188 | mg/L | 94 | 85 | 115 | | | |
| L64379-02LFM | LFM | 03/03/21 14:40 | HG210301-3 | .002002 | U | .00188 | mg/L | 94 | 85 | 115 | | | |
| L64379-02LFMD | LFMD | 03/03/21 14:41 | HG210301-3 | .002002 | U | .00187 | mg/L | 93 | 85 | 115 | 1 | 20 | |
| WG515174CCV1 | CCV | 03/03/21 14:43 | HG210118-2 | .005 | | .00511 | mg/L | 102 | 90 | 110 | | | |
| WG515174CCB1 | ССВ | 03/03/21 14:44 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| WG515174CCV2 | CCV | 03/03/21 14:54 | HG210118-2 | .005 | | .00476 | mg/L | 95 | 90 | 110 | | | |
| WG515174CCB2 | ССВ | 03/03/21 14:55 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| WG515174CCV3 | CCV | 03/03/21 15:02 | HG210118-2 | .005 | | .00484 | mg/L | 97 | 90 | 110 | | | |
| WG515174CCB3 | CCB | 03/03/21 15:03 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| Nickel, dissolve | d | | M200.7 I | CP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG515012 | | | | | | | | | | | | | |
| WG515012ICV | ICV | 02/27/21 1:18 | II210219-1 | 2 | | 1.9442 | mg/L | 97 | 95 | 105 | | | |
| WG515012ICB | ICB | 02/27/21 1:24 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| WG515012PQV | PQV | 02/27/21 1:27 | II210204-2 | .04016 | | .0424 | mg/L | 106 | 70 | 130 | | | |
| WG515012SIC | SIC | 02/27/21 1:30 | II210118-1 | .1004 | | .0941 | mg/L | 94 | 80 | 120 | | | |
| WG515012LFB | LFB | 02/27/21 1:37 | II210208-3 | .502 | | .5061 | mg/L | 101 | 85 | 115 | | | |
| L64373-02AS | AS | 02/27/21 1:47 | II210208-3 | .502 | U | .4988 | mg/L | 99 | 85 | 115 | | | |
| L64373-02ASD | ASD | 02/27/21 1:50 | II210208-3 | .502 | U | .4986 | mg/L | 99 | 85 | 115 | 0 | 20 | |
| WG515012CCV1 | CCV | 02/27/21 2:09 | II210219-2 | 1 | · · | .9784 | mg/L | 98 | 90 | 110 | ŭ | _0 | |
| WG515012CCB1 | ССВ | 02/27/21 2:13 | | · | | U | mg/L | | -0.024 | 0.024 | | | |
| WG515012CCV2 | CCV | 02/27/21 2:49 | II210219-2 | 1 | | .9786 | mg/L | 98 | 90 | 110 | | | |
| WG515012CCB2 | CCB | 02/27/21 2:53 | | • | | U | mg/L | 00 | -0.024 | 0.024 | | | |
| WG515012CCV3 | CCV | 02/27/21 3:13 | II210219-2 | 1 | | .9316 | mg/L | 93 | 90 | 110 | | | |
| WG515012CCB3 | CCB | 02/27/21 3:16 | | • | | U | mg/L | 00 | -0.024 | 0.024 | | | |
| | | | | | | | | | 0.021 | 0.021 | | | |
| Nitrate/Nitrite as | | | | Automated | | | | | | | | | |
| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG514840 | | | | | | | | | | | | | |
| WG514840ICV | ICV | 02/23/21 21:59 | WI210218-5 | 2.416 | | 2.383 | mg/L | 99 | 90 | 110 | | | |
| WG514840ICB | ICB | 02/23/21 22:00 | | | | U | mg/L | | -0.02 | 0.02 | | | |
| WG514840LFB | LFB | 02/23/21 22:04 | WI201001-11 | 2 | | 2.005 | mg/L | 100 | 90 | 110 | | | |
| WG514840CCV1 | CCV | 02/23/21 22:14 | WI210217-1 | 2 | | 2.04 | mg/L | 102 | 90 | 110 | | | |
| WG514840CCB1 | CCB | 02/23/21 22:17 | | | | U | mg/L | | -0.02 | 0.02 | | | |
| WG514840CCV2 | CCV | 02/23/21 22:30 | WI210217-1 | 2 | | 2.044 | mg/L | 102 | 90 | 110 | | | |
| WG514840CCB2 | CCB | 02/23/21 22:33 | | | | U | mg/L | | -0.02 | 0.02 | | | |
| L64372-01AS | AS | 02/23/21 22:39 | WI201001-11 | 40 | 22.5 | 63.894 | mg/L | 103 | 90 | 110 | | | |
| L64373-01DUP | DUP | 02/23/21 22:41 | | | 14.4 | 14.291 | mg/L | | | | 1 | 20 | |
| WG514840CCV3 | CCV | 02/23/21 22:49 | WI210217-1 | 2 | | 2.058 | mg/L | 103 | 90 | 110 | | | |
| WG514840CCB3 | CCB | 02/23/21 22:51 | | | | U | mg/L | | -0.02 | 0.02 | | | |
| WG514840CCV4 | CCV | 02/23/21 23:04 | WI210217-1 | 2 | | 2.062 | mg/L | 103 | 90 | 110 | | | |
| WG514840CCB4 | CCB | 02/23/21 23:07 | | | | U | mg/L | | -0.02 | 0.02 | | | |

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(800) 334-5493

GCC Rio Grande ACZ Project ID: L64379

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. dissolved M353.2 | Automated | Cadmium | Reduction |
|--------------------------------|-------------------------------|---------|-----------|
|--------------------------------|-------------------------------|---------|-----------|

| Nitrite as N, diss | solved | | M353.2 - A | utomate | d Cadmiur | n Reduc | tion | | | | | | |
|--------------------|----------|----------------|-------------|---------|-----------|---------|-------|------|----------|---------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG514840 | | | | | | | | | | | | | |
| WG514840ICV | ICV | 02/23/21 21:59 | WI210218-5 | .609 | | .602 | mg/L | 99 | 90 | 110 | | | |
| WG514840ICB | ICB | 02/23/21 22:00 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| WG514840LFB | LFB | 02/23/21 22:04 | WI201001-11 | 1 | | .996 | mg/L | 100 | 90 | 110 | | | |
| L64372-01AS | AS | 02/23/21 22:06 | WI201001-11 | 1 | .886 | 1.807 | mg/L | 92 | 90 | 110 | | | |
| L64373-01DUP | DUP | 02/23/21 22:09 | | | U | U | mg/L | | | | 0 | 20 | RA |
| WG514840CCV1 | CCV | 02/23/21 22:14 | WI210217-1 | 1 | | 1.009 | mg/L | 101 | 90 | 110 | | | |
| WG514840CCB1 | CCB | 02/23/21 22:17 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| WG514840CCV2 | CCV | 02/23/21 22:30 | WI210217-1 | 1 | | 1.006 | mg/L | 101 | 90 | 110 | | | |
| WG514840CCB2 | CCB | 02/23/21 22:33 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| WG514840CCV3 | CCV | 02/23/21 22:49 | WI210217-1 | 1 | | 1 | mg/L | 100 | 90 | 110 | | | |
| WG514840CCB3 | CCB | 02/23/21 22:51 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| WG514840CCV4 | CCV | 02/23/21 23:04 | WI210217-1 | 1 | | 1.011 | mg/L | 101 | 90 | 110 | | | |
| WG514840CCB4 | CCB | 02/23/21 23:07 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| Residue, Filtera | ble (TDS |) @180C | SM2540C | | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG514839 | | | | | | | | | | | | | |
| WG514839PBW | PBW | 02/23/21 20:30 | | | | U | mg/L | | -20 | 20 | | | |
| WG514839LCSW | LCSW | 02/23/21 20:32 | PCN62449 | 1000 | | 998 | mg/L | 100 | 80 | 120 | | | |
| L64355-01DUP | DUP | 02/23/21 20:37 | | | U | U | mg/L | | | | 0 | 10 | RA |
| WG514864 | | | | | | | | | | | | | |
| WG514864PBW | PBW | 02/24/21 10:30 | | | | U | mg/L | | -20 | 20 | | | |
| WG514864LCSW | LCSW | 02/24/21 10:31 | PCN62449 | 1000 | | 984 | mg/L | 98 | 80 | 120 | | | |
| L64379-03DUP | DUP | 02/24/21 10:57 | | | 6460 | 6396 | mg/L | | | | 1 | 10 | |
| L64393-01DUP | DUP | 02/24/21 11:02 | | | 1790 | 1784 | mg/L | | | | 0 | 10 | |
| Selenium, disso | lved | | M200.8 ICI | P-MS | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG515108 | | | | | | | | | | | | | |
| WG515108ICV | ICV | 03/01/21 13:33 | MS210115-2 | .05 | | .05004 | mg/L | 100 | 90 | 110 | | | |
| WG515108ICB | ICB | 03/01/21 13:35 | | | | U | mg/L | | -0.00022 | 0.00022 | | | |
| WG515108LFB | LFB | 03/01/21 13:37 | MS201228-2 | .05 | | .04395 | mg/L | 88 | 85 | 115 | | | |
| WG515108CCV1 | CCV | 03/01/21 13:55 | MS210212-2 | .25 | | .24525 | mg/L | 98 | 90 | 110 | | | |
| WG515108CCB1 | ССВ | 03/01/21 13:57 | | | | .00012 | mg/L | | -0.0003 | 0.0003 | | | |
| WG515108CCV2 | CCV | 03/01/21 14:16 | MS210212-2 | .25 | | .25054 | mg/L | 100 | 90 | 110 | | | |
| WG515108CCB2 | ССВ | 03/01/21 14:18 | | | | .00013 | mg/L | | -0.0003 | 0.0003 | | | |
| L64418-01AS | AS | 03/01/21 14:25 | MS201228-2 | .05 | .00062 | .05321 | mg/L | 105 | 70 | 130 | | | |
| L64418-01ASD | ASD | 03/01/21 14:27 | MS201228-2 | .05 | .00062 | .05097 | mg/L | 101 | 70 | 130 | 4 | 20 | |
| WG515108CCV3 | CCV | 03/01/21 14:29 | MS210212-2 | .25 | | .24983 | mg/L | 100 | 90 | 110 | | | |
| WG515108CCB3 | CCB | 03/01/21 14:31 | | | | .0002 | mg/L | | -0.0003 | 0.0003 | | | |

Page 13 of 19 L64379-2103041410

WG515012CCB3

CCB

02/27/21 3:16

GCC Rio Grande ACZ Project ID: L64379

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.

| Vanadium, disso | olved | | M200.7 I | СР | | | | | | | | | |
|-----------------|-------|---------------|------------|---------|--------|-------|-------|------|--------|-------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG515012 | | | | | | | | | | | | | |
| WG515012ICV | ICV | 02/27/21 1:18 | II210219-1 | 2 | | 1.969 | mg/L | 98 | 95 | 105 | | | |
| WG515012ICB | ICB | 02/27/21 1:24 | | | | U | mg/L | | -0.015 | 0.015 | | | |
| WG515012PQV | PQV | 02/27/21 1:27 | II210204-2 | .024975 | | .026 | mg/L | 104 | 70 | 130 | | | |
| WG515012SIC | SIC | 02/27/21 1:30 | II210118-1 | .0999 | | .082 | mg/L | 82 | 80 | 120 | | | |
| WG515012LFB | LFB | 02/27/21 1:37 | II210208-3 | .5005 | | .5128 | mg/L | 102 | 85 | 115 | | | |
| L64373-02AS | AS | 02/27/21 1:47 | II210208-3 | .5005 | U | .5088 | mg/L | 102 | 85 | 115 | | | |
| L64373-02ASD | ASD | 02/27/21 1:50 | II210208-3 | .5005 | U | .504 | mg/L | 101 | 85 | 115 | 1 | 20 | |
| WG515012CCV1 | CCV | 02/27/21 2:09 | II210219-2 | 1 | | .984 | mg/L | 98 | 90 | 110 | | | |
| WG515012CCB1 | CCB | 02/27/21 2:13 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012CCV2 | CCV | 02/27/21 2:49 | II210219-2 | 1 | | .982 | mg/L | 98 | 90 | 110 | | | |
| WG515012CCB2 | CCB | 02/27/21 2:53 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG515012CCV3 | CCV | 02/27/21 3:13 | II210219-2 | 1 | | .938 | mg/L | 94 | 90 | 110 | | | |
| WG515012CCB3 | CCB | 02/27/21 3:16 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| Zinc, dissolved | | | M200.7 I | СР | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG515012 | | | | | | | | | | | | | |
| WG515012ICV | ICV | 02/27/21 1:18 | II210219-1 | 2 | | 1.957 | mg/L | 98 | 95 | 105 | | | |
| WG515012ICB | ICB | 02/27/21 1:24 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG515012PQV | PQV | 02/27/21 1:27 | II210204-2 | .0502 | | .052 | mg/L | 104 | 70 | 130 | | | |
| WG515012SIC | SIC | 02/27/21 1:30 | II210118-1 | .1004 | | .096 | mg/L | 96 | 80 | 120 | | | |
| WG515012LFB | LFB | 02/27/21 1:37 | II210208-3 | .50075 | | .503 | mg/L | 100 | 85 | 115 | | | |
| L64373-02AS | AS | 02/27/21 1:47 | II210208-3 | .50075 | U | .497 | mg/L | 99 | 85 | 115 | | | |
| L64373-02ASD | ASD | 02/27/21 1:50 | II210208-3 | .50075 | U | .505 | mg/L | 101 | 85 | 115 | 2 | 20 | |
| WG515012CCV1 | CCV | 02/27/21 2:09 | II210219-2 | 1 | | .974 | mg/L | 97 | 90 | 110 | | | |
| WG515012CCB1 | CCB | 02/27/21 2:13 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG515012CCV2 | CCV | 02/27/21 2:49 | II210219-2 | 1 | | .973 | mg/L | 97 | 90 | 110 | | | |
| WG515012CCB2 | CCB | 02/27/21 2:53 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG515012CCV3 | CCV | 02/27/21 3:13 | II210219-2 | 1 | | 1.463 | mg/L | 146 | 90 | 110 | | | VC |

.295

mg/L

-0.06

0.06

ΒE

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Inorganic Extended
Qualifier Report

GCC Rio Grande ACZ Project ID: L64379

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|-----------|----------|---------------------------------|--------------------------------------|------|---|
| L64379-01 | NG514840 | Nitrite as N, dissolved | M353.2 - 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). |
| | WG514839 | Residue, Filterable (TDS) @180C | SM2540C | 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). |
| L64379-02 | NG514840 | Nitrite as N, dissolved | M353.2 - 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). |
| | WG514839 | Residue, Filterable (TDS) @180C | SM2540C | 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). |
| L64379-03 | NG514840 | Nitrite as N, dissolved | M353.2 - 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). |
| L64379-04 | NG514840 | Nitrite as N, dissolved | M353.2 - 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). |

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No certification qualifiers associated with this analysis

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Sample Receipt

GCC Rio Grande ACZ Project ID: L64379

Date Received: 02/23/2021 10:31

Received By:

Date Printed: 2/24/2021

| Date i | rinted: | 2/ | 24/2021 |
|---|-----------|------------|-----------|
| Receipt Verification | | | |
| | YES | NO | NA |
| 1) Is a foreign soil permit included for applicable samples? | | | X |
| 2) Is the Chain of Custody form or other directive shipping papers present? | X | | |
| 3) Does this project require special handling procedures such as CLP protocol? | | Χ | |
| 4) Are any samples NRC licensable material? | | | Х |
| 5) If samples are received past hold time, proceed with requested short hold time analyses? | X | | |
| 6) Is the Chain of Custody form complete and accurate? | X | | |
| 7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples? | | Х | |
| Samples/Containers | | | |
| | YES | NO | NA |
| 8) Are all containers intact and with no leaks? | Х | | |
| 9) Are all labels on containers and are they intact and legible? | X | | |
| 10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time? | Х | | |
| 11) For preserved bottle types, was the pH checked and within limits? 1 | X | | |
| 12) Is there sufficient sample volume to perform all requested work? | X | | |
| 13) Is the custody seal intact on all containers? | | | X |
| 14) Are samples that require zero headspace acceptable? | | | Х |
| 15) Are all sample containers appropriate for analytical requirements? | X | | |
| 16) Is there an Hg-1631 trip blank present? | | | Х |
| 17) Is there a VOA trip blank present? | | | Х |
| 18) Were all samples received within hold time? | Х | | |
| | NA indica | tes Not Ap | oplicable |

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

| Cooler Id | Temp(°C) | Temp Criteria(°C) | Rad(μR/Hr) | Custody Seal Intact? |
|-----------|----------|----------------------|------------|-------------------------|
| | | | | |
| NA34616 | -0.4 | <=6.0 | 15 | N/A |

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.



Sample Receipt

GCC Rio Grande ACZ Project ID: L64379

Date Received: 02/23/2021 10:31

Received By:

Date Printed: 2/24/2021

REPAD LPII 2012-03

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), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

| Report to: Name: Diana Furman Company: GCC Rio Grande Inc. E-mail: dfurman@gcc.com Copy of Report to: Name: Diana Furman Company: GCC Rio Grande Inc. E-mail: Telephone: (719)647-6861 Company: GCC Rio Grande Inc. E-mail: Telephone: Te | Report to: Name: Diana Furman Company: GCC Rio Grande E-mail: dfurman@gcc.com Copy of Report to: Name: Company: Invoice to: Name: Diana Furman Company: GCC Rio Grande E-mail: dfurman@gcc.com If sample(s) received past holding analysis before expiration, shall Act If "NO" then ACZ will contact client for further instruction. | e Inc. | 34-5493 | Teler | phone: | | | | Pueb | lo, C(| O 810 | 004 |
|--|--|-----------------------------|--|-----------------------------|--------------------------------|-------------------------------|---|--------------|----------------|---------------|---------------|------------|
| Name: Diana Furman Company: GCC Rio Grande Inc. E-mail: dfurman@gcc.com Copy of Report to: Name: Company: Invoice to: Name: Diana Furman Company: GCC Rio Grande Inc. E-mail: Telephone: Invoice to: Name: Diana Furman Company: GCC Rio Grande Inc. E-mail: Telephone: Invoice to: Name: Diana Furman Company: GCC Rio Grande Inc. E-mail: Telephone: Telephone: (719)647-6861 Telephone: Telephone: (719)647-6861 Telephone: Telephone: (719)647-6861 Telephone: Telephone: (719)647-6861 Telephone: (| Name: Diana Furman Company: GCC Rio Grande E-mail: dfurman@gcc.com Copy of Report to: Name: Company: Invoice to: Name: Diana Furman Company: GCC Rio Grande E-mail: dfurman@gcc.com If sample(s) received past holding analysis before expiration, shall Act (1 NO" then ACZ will contact client for further instruction. | | | Teler | phone: | | | | Pueb | olo, Co | O 810 | 004 |
| Company: GCC Rio Grande Inc. E-mail: dfurman@gcc.com Copy of Report to: Name: Company: Invoice to: Name: Diana Furman Company: GCC Rio Grande Inc. E-mail: Telephone: Invoice to: Name: Diana Furman Company: GCC Rio Grande Inc. E-mail: Telephone: Telephone: Telephone: Telephone: (719)647-6861 Telephone: Telephone: (719)647-6861 Telephone: | Company: GCC Rio Grande E-mail: dfurman@gcc.com Copy of Report to: Name: Company: Invoice to: Name: Diana Furman Company: GCC Rio Grande E-mail: dfurman@gcc.com If sample(s) received past holding analysis before expiration, shall All If "No" then ACZ will contact client for further instruction. | | | Teler | phone: | | | | Pueu |)IO, U |) 810 | 004 |
| E-mail: dfurman@gcc.com Telephone: (719)647-6861 E-mail: Telephone: (719)647-6861 Telephone: Telephone: (719)647-6861 Telephone: Telephone: (719)647-6861 Telephone: Telephone: (719)647-6861 Tele | E-mail: dfurman@gcc.com Copy of Report to: Name: Company: Invoice to: Name: Diana Furman Company: GCC Rio Grande E-mail: dfurman@gcc.com If sample(s) received past holding analysis before expiration, shall Act If "No" then ACZ will contact client for further instruction. | | | E-ma | nil: | (719 |)647-(| 3861 | | | | |
| E-mail: Telephone: Teleph | Name: Company: Invoice to: Name: Diana Furman Company: GCC Rio Grande E-mail: dfurman@gcc.com If sample(s) received past holding analysis before expiration, shall Additional contact client for further instruction. | Inc. | | E-ma | nil: | | | | | | | |
| Name: Company: Invoice to: Name: Diana Furman Company: GCC Rio Grande Inc. E-mail: dfurman@gcc.com 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? If yes please include state for further instruction, Il retibre "165" nor "10" is indicated. ACZ will proceed with the represented analyses, even if HT is expired, and data will be qualified. ACZ will content dienel for further instruction. Il retibre "165" nor "10" is indicated. ACZ will proceed with the represented analyses, even if HT is expired, and data will be qualified. ACZ will proceed with the represented analyses, even if HT is expired, and data will be qualified. ACZ will proceed with the respected analyses, even if HT is expired, and data will be qualified. ACZ will proceed with the respected analyses, even if HT is expired, and data will be qualified. ACZ will proceed with the respected analyses, even if HT is expired, and data will be qualified. ACZ will proceed with the respected analyses, even if HT is expired, and data will be qualified. ACZ will proceed with the respected analyses, even if HT is expired, and data will be qualified. ACZ will proceed with the respected analyses, even if HT is expired, and data will be qualified. ACZ will proceed with the respected analyses, even if HT is expired, and data will be qualified. ACZ will proceed with the respected analyses, even if HT is expired, and data will be qualified. ACZ will proceed with the respected analyses, even if HT is expired, and data will be qualified. ACZ will be proceed with the respected analyses, even if HT is expired, and data will be qualified. ACZ will be proceed with the respected analyses, even if HT is expired, and data will be qualified. ACZ will be proceed with the respected analyses, even if HT is expired, and data will be qualified. ACZ will be proceed with the respected analyses, even if HT is expired, and data will be qualified. ACZ will be proceed wi | Name: Company: Invoice to: Name: Diana Furman Company: GCC Rio Grande E-mail: dfurman@gcc.com If sample(s) received past holding analysis before expiration, shall Al | Inc. | | | | | | | | | | |
| Telephone: Invoice to: Name: Diana Furman | Invoice to: Name: Diana Furman Company: GCC Rio Grande E-mail: dfurman@gcc.com If sample(s) received past holding analysis before expiration, shall Al | Inc. | | | | | | | | | | |
| Invoice to: Name: Diana Furman Company: GCC Rio Grande Inc. E-mail: dfurman@gcc.com 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? No I was analysis before expiration will be qualified the 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 Ace samples for SDWA Comptiliance Monitoring? If yes, please include state forms. Results will be reported to PQL for Colorado. Sampler's Name: Sampler's Site Information Sampler's Signature: PROJECT INFORMATION ANALYSES REQUESTED (attach list or use quote number) ANALYSES REQUESTED (attach list or use quote number) ANALYSES REQUESTED (attach list or use quote number) MW-6 OZ/21/21: 1325 GW 3 D D D D D D D D D D D D D D D D D D | Name: Diana Furman Company: GCC Rio Grande E-mail: dfurman@gcc.com If sample(s) received past holding analysis before expiration, shall Al If "No" then ACZ will contact client for further instruction. | Inc. | | <u>_,,</u> | Jilon, C. | | | | | | | |
| Address: 3372 Lime Road, Pueblo, CO 8100 Company: GCC Rio Grande Inc. E-mail: dfurman@gcc.com 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? 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? If yes, please include state forms. Results will be reported to PQL for Colorado. Sampler's Name: Sampler's Site Information 'attent to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/sate/hocatic tampering with the sample in enyway, is condicated from an analysis time tow. **Sampler's Signature: PROJECT INFORMATION Quote #: GW-COMPLIANCE 03/27/2019 PO#: N/A Reporting state for compliance testing: Colorado Check box if samples include NRC licensed material? SAMPLE IDENTIFICATION DATE:TIME Matrix MW-6 OZ/22/21: 12/27 GW 3 M | Name: Diana Furman Company: GCC Rio Grande E-mail: dfurman@gcc.com If sample(s) received past holding analysis before expiration, shall Al If "No" then ACZ will contact client for further instruction. | Inc. | · | | | | | | | | | |
| Company: GCC Rio Grande Inc. E-mail: dfurman@gcc.com If sample(s) received past holding time (HT), or if insufficient HT remains to complete Are samples for expiration, shall ACZ proceed with requested short HT analyses? If YNO' 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? If yes, please include state forms. Results will be reported to PQL for Colorado. Sampler's Name: Sampler's Signature: Sampler's Signature: Sampler's Signature: Sampler's Signature: PROJECT INFORMATION Quote #: GW-COMPLIANCE 03/27/2019 PO#: N/A Reporting state for compliance testing: Colorado Check box if samples include NRC licensed material? SAMPLE IDENTIFICATION DATE:TIME Matrix MW-6 02/21/21: 1315 GW 3 B | Company: GCC Rio Grande E-mail: dfurman@gcc.com If sample(s) received past holding analysis before expiration, shall Al If "NO" then ACZ will contact client for further instruction. | Inc. | 1 | Tadda | 3 | ן פדני | :ma P | d | المدين | - 00 | 240 | ~ 1 |
| E-mail: dfurman@gcc.com Telephone: (719)647-6861 Telephone: (719)647-6 | E-mail: dfurman@gcc.com If sample(s) received past holding analysis before expiration, shall At If "NO" then ACZ will contact client for further instructi | | 7 | Auur | ess. • | 3/2 _ | men | Oau, i | Pueun | <u>o, co</u> | 810 | 04 |
| 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? NO If YMO' then ACZ will contact client for further instruction. If neither "VES" 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: Sampler's Site Information *Sampler's Signature: 1 attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/locatic tampering with the sample in anyway, is considered fraud and punishable by State Law. *PROJECT INFORMATION ANALYSES REQUESTED (attach list or use quote number) ANALYSES REQUESTED (attach list or use quote number) ANALYSES REQUESTED (attach list or use quote number) **SAMPLE IDENTIFICATION DATE: TIME Matrix ** MW-6 O2/22/21: 12.17 GW 3 MW-7 PU12/21: 12.17 GW 3 MW-8 O2/22/21: 12.17 GW 3 MW-8 | If sample(s) received past holding analysis before expiration, shall A(f "NO" then ACZ will contact client for further instructi | | 7 | Teler | hone: | (719) | 1647-6 | 3861 | | | | |
| analysis before expiration, shall ACZ proceed with requested short HT analyses? NO | analysis before expiration, shall At If "NO" then ACZ will contact client for further instruction | time (HT), or if insufficie | ∟ ent HT re | mains | to com | nlete | <u>, , , , , , , , , , , , , , , , , , , </u> | 100 | | YES | X | T |
| If yes, please include state forms. Results will be reported to PQL for Colorado. Sampler's Name: Sampler's Signature: *Jampler's Sign | | CZ proceed with request | ted short | HT an | alvses? | , | • • • • • | | | NO | Ī | <u> </u> |
| If yes, please include state forms. Results will be reported to PQL for Colorado. Sampler's Name: Sampler's Site Information *Jattest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/locatic tampering with the sample in anyway, is considered fraud and punishable by State Law. PROJECT INFORMATION Quote #: GW-COMPLIANCE 03/27/2019 PO#: N/A Reporting state for compliance testing: Colorado Check box if samples include NRC licensed material? SAMPLE IDENTIFICATION DATE:TIME Matrix MW-6 02/21/21: 1315 GW 3 Ø | Are samples for SDWA Compliance | e Monitoring? | | Yes | ΙП | ested analy | | parents. | ed, and data | will be qua | alified | |
| *Sampler's Signature: *I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/locatic tampering with the sample in anyway, is considered fraud and punishable by State Law. PROJECT INFORMATION ANALYSES REQUESTED (attach list or use quote number) ANALYSES REQUESTED (attach list or use quote number) PO#: N/A Reporting state for compliance testing: Colorado Check box if samples include NRC licensed material? SAMPLE IDENTIFICATION DATE:TIME Matrix MW-6 OZ/12/21: 12-17 GW 3 | If yes, please include state forms. | Results will be reported | to PQL f | | orado. | | 110 | | J | | | |
| *Sampler's Signature: Sampler's Signature: Interest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/locatic tampering with the sample in anyway, is considered fraud and punishable by State Law. ANALYSES REQUESTED (attach list or use quote number) | · · · · · · · · · · · · · · · · · · · | | | State_ | CO | | Zip co | de_81 | 004 | Time Z | one_N | /IDT |
| ANALYSES REQUESTED (attach list or use quote number) | | *i attest to | o the authentions the same | city and val ple in anyw | idity of this aγ, is consid | sample. I un lered fraud a | derstand th | at intention | ally minimum i | ing the time | /date/locat | ion or |
| PO#: N/A Reporting state for compliance testing: Colorado Check box if samples include NRC licensed material? | | | | | | | | | | quote nui | mber) | |
| SAMPLE IDENTIFICATION DATE: TIME Matrix | | 03/27/2019 | | ers | jā Bā | | | | | | | |
| SAMPLE IDENTIFICATION DATE: TIME Matrix | | | | tain | dnote | | | | | | | |
| SAMPLE IDENTIFICATION DATE: TIME Matrix | | | T | Son | hed o | [| <u> </u> |] | | | | |
| MW-6 O1/11/1: 315 GW 3 | | | | of | attac pH | | | | | | | |
| MW-7 O2/12/21: 1227 GW 3 Z | | 21 | | | | | | | | | | |
| MW-2B 01/12/21: 1241 GW 3 Ø | | 04/22/21:1575 | | | | | | | | | | |
| MW-8 01/11/11:1304 GW 3 Ø 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | 142721 : [7-1 | | | | 4 | | | | | | |
| | - | 21/22/21 1242 | + | | | | | | | | | |
| | | 342471.1304 | GVV | _3 | | 井 | <u> </u> | | 4 | | | _ <u>U</u> |
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| Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify) | Matrix SW (Surface Water) · GW (G | round Water) · WW (Waste W | /ater) · DW | / (Drinki | na Water | · SL (SI | udge) · § | · CSoil) | | Other | (Specify) | |
| REMARKS | EMARKS | | | | | , | 449-7 | ,0 (55, | OL (O., | Culor | (Specify) | |

White - Return with sample. Yellow - Retain for your records.

June 10, 2021

Report to:

Grea Gannon GCC Rio Grande 3372 Lime Road

cc: Landon Beck

Pueblo, CO 81004

Project ID:

ACZ Project ID: L65969

Greg Gannon:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 21, 2021. This project has been assigned to ACZ's project number, L65969. Please reference this number in all future inquiries.

Bill to:

Grea Gannon GCC Rio Grande

3372 Lime Road Pueblo, CO 81004

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L65969. 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 June 10, 2022. 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.

Bill Lane has reviewed and approved this report





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Project ID:

Sample ID: MW-6 ACZ Sample ID: L65969-01

Date Sampled: 05/19/21 10:57

Date Received: 05/21/21

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 | 05/25/21 21:57 | jlw |
| Arsenic, dissolved | M200.8 ICP-MS | 1 | 0.00237 | | | mg/L | 0.0002 | 0.001 | 05/27/21 17:18 | bsu |
| Beryllium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 05/25/21 21:57 | jlw |
| Boron, dissolved | M200.7 ICP | 1 | 0.378 | | | mg/L | 0.03 | 0.1 | 05/25/21 21:57 | jlw |
| Cadmium, dissolved | M200.8 ICP-MS | 1 | 0.000058 | В | | mg/L | 0.00005 | 0.00025 | 05/27/21 17:18 | bsu |
| Calcium, dissolved | M200.7 ICP | 1 | 315 | | * | mg/L | 0.1 | 0.5 | 05/25/21 21:57 | jlw |
| Chromium, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 05/26/21 16:26 | jlw |
| Cobalt, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 05/25/21 21:57 | jlw |
| Copper, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 05/25/21 21:57 | jlw |
| Iron, dissolved | M200.7 ICP | 1 | 0.127 | В | * | mg/L | 0.06 | 0.15 | 05/25/21 21:57 | jlw |
| Lead, dissolved | M200.8 ICP-MS | 1 | <0.0001 | U | | mg/L | 0.0001 | 0.0005 | 05/27/21 17:18 | bsu |
| Lithium, dissolved | M200.7 ICP | 1 | 0.472 | | | mg/L | 0.008 | 0.04 | 05/25/21 21:57 | jlw |
| Magnesium, dissolved | M200.7 ICP | 1 | 344 | | | mg/L | 0.2 | 1 | 05/25/21 21:57 | jlw |
| Manganese, dissolved | M200.7 ICP | 1 | 0.357 | | * | mg/L | 0.01 | 0.05 | 05/25/21 21:57 | jlw |
| Mercury, dissolved | M245.1 CVAA | 1 | < 0.0002 | U | | mg/L | 0.0002 | 0.001 | 05/24/21 13:47 | mlh |
| Nickel, dissolved | M200.7 ICP | 1 | 0.0579 | | | mg/L | 0.008 | 0.04 | 05/25/21 21:57 | jlw |
| Potassium, dissolved | M200.7 ICP | 1 | 9.94 | | | mg/L | 0.2 | 1 | 05/25/21 21:57 | jlw |
| Selenium, dissolved | M200.8 ICP-MS | 1 | 0.00233 | | | mg/L | 0.0001 | 0.00025 | 05/27/21 17:18 | bsu |
| Sodium, dissolved | M200.7 ICP | 1 | 810 | | * | mg/L | 0.2 | 1 | 05/25/21 21:57 | jlw |
| Vanadium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.025 | 05/25/21 21:57 | jlw |
| Zinc, dissolved | M200.7 ICP | 1 | <0.02 | U | | mg/L | 0.02 | 0.05 | 05/25/21 21:57 | jlw |
| Wet Chemistry | | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analvst |
| Alkalinity as CaCO3 | SM2320B - Titration | | 11004111 | C, u.u. | | 0 | | . 4 | 2000 | |
| Bicarbonate as CaCO3 | | 1 | 524 | | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Carbonate as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Hydroxide as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Total Alkalinity | | 1 | 524 | | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Chloride | SM4500CI-E | 10 | 109 | | * | mg/L | 5 | 20 | 06/09/21 11:36 | wtc |
| Fluoride | SM4500F-C | 1 | 0.57 | | * | mg/L | 0.15 | 0.35 | 05/28/21 20:15 | еер |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | 0.03 | ВН | | mg/L | 0.02 | 0.1 | 06/10/21 0:00 | calc |
| Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.032 | ВН | * | mg/L | 0.02 | 0.1 | 05/22/21 0:48 | pjb |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | <0.01 | UH | * | mg/L | 0.01 | 0.05 | 05/22/21 0:48 | pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 5 | 5430 | Н | * | mg/L | 100 | 200 | 06/02/21 12:17 | jck |
| Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 100 | 3200 | | | mg/L | 100 | 500 | 06/04/21 9:44 | syw |

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^{*} Please refer to Qualifier Reports for details.



Project ID:

Sample ID: MW-7 Date Sampled: 05/19/21 12:30

Date Received: 05/21/21

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 | 05/25/21 22:07 | jlw |
| Arsenic, dissolved | M200.8 ICP-MS | 1 | <0.0002 | U | | mg/L | 0.0002 | 0.001 | 05/27/21 17:20 | bsu |
| Beryllium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 05/25/21 22:07 | jlw |
| Boron, dissolved | M200.7 ICP | 1 | 0.139 | | | mg/L | 0.03 | 0.1 | 05/25/21 22:07 | jlw |
| Cadmium, dissolved | M200.8 ICP-MS | 1 | 0.000057 | В | | mg/L | 0.00005 | 0.00025 | 05/27/21 17:20 | bsu |
| Calcium, dissolved | M200.7 ICP | 1 | 460 | | * | mg/L | 0.1 | 0.5 | 05/25/21 22:07 | jlw |
| Chromium, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 05/26/21 16:29 | jlw |
| Cobalt, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 05/25/21 22:07 | jlw |
| Copper, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 05/25/21 22:07 | jlw |
| Iron, dissolved | M200.7 ICP | 1 | < 0.06 | U | * | mg/L | 0.06 | 0.15 | 05/25/21 22:07 | jlw |
| Lead, dissolved | M200.8 ICP-MS | 1 | <0.0001 | U | | mg/L | 0.0001 | 0.0005 | 05/27/21 17:20 | bsu |
| Lithium, dissolved | M200.7 ICP | 1 | 0.473 | | | mg/L | 0.008 | 0.04 | 05/25/21 22:07 | jlw |
| Magnesium, dissolved | M200.7 ICP | 1 | 530 | | | mg/L | 0.2 | 1 | 05/25/21 22:07 | jlw |
| Manganese, dissolved | M200.7 ICP | 1 | <0.01 | U | * | mg/L | 0.01 | 0.05 | 05/25/21 22:07 | jlw |
| Mercury, dissolved | M245.1 CVAA | 1 | <0.0002 | U | | mg/L | 0.0002 | 0.001 | 05/24/21 13:48 | mlh |
| Nickel, dissolved | M200.7 ICP | 1 | 0.0229 | В | | mg/L | 0.008 | 0.04 | 05/25/21 22:07 | jlw |
| Potassium, dissolved | M200.7 ICP | 1 | 13.7 | | | mg/L | 0.2 | 1 | 05/25/21 22:07 | jlw |
| Selenium, dissolved | M200.8 ICP-MS | 1 | 0.0401 | | | mg/L | 0.0001 | 0.00025 | 05/27/21 17:20 | bsu |
| Sodium, dissolved | M200.7 ICP | 1 | 393 | | * | mg/L | 0.2 | 1 | 05/25/21 22:07 | jlw |
| Vanadium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.025 | 05/25/21 22:07 | jlw |
| Zinc, dissolved | M200.7 ICP | 1 | <0.02 | U | | mg/L | 0.02 | 0.05 | 05/25/21 22:07 | jlw |
| Wet Chemistry | | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analvst |
| Alkalinity as CaCO3 | SM2320B - Titration | | | | | | | | 2 3.32 | , |
| Bicarbonate as CaCO3 | | 1 | 309 | | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Carbonate as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Hydroxide as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Total Alkalinity | | 1 | 309 | | | mg/L | 2 | 20 | 05/26/21 0:00 | eep |
| Chloride | SM4500CI-E | 1 | 51.0 | | * | mg/L | 0.5 | 2 | 06/09/21 10:57 | wtc |
| Fluoride | SM4500F-C | 1 | 0.40 | | * | mg/L | 0.15 | 0.35 | 05/28/21 20:33 | еер |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | 7.51 | Н | | mg/L | 0.08 | 0.4 | 06/10/21 0:00 | calc |
| Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 4 | 7.54 | Н | * | mg/L | 0.08 | 0.4 | 05/22/21 1:16 | pjb |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.027 | ВН | * | mg/L | 0.01 | 0.05 | 05/22/21 0:50 | pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 2 | 5550 | | | mg/L | 40 | 80 | 05/25/21 14:17 | emk |
| Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 100 | 3430 | | | mg/L | 100 | 500 | 06/04/21 9:44 | syw |

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^{*} Please refer to Qualifier Reports for details.



Project ID:

Sample ID: MW-8 Date Sampled: 05/19/21 12:53

Date Received: 05/21/21

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 | 05/25/21 22:11 | jlw |
| Arsenic, dissolved | M200.8 ICP-MS | 1 | 0.00155 | | | mg/L | 0.0002 | 0.001 | 05/27/21 17:22 | bsu |
| Beryllium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 05/25/21 22:11 | jlw |
| Boron, dissolved | M200.7 ICP | 1 | 0.886 | | | mg/L | 0.03 | 0.1 | 05/25/21 22:11 | jlw |
| Cadmium, dissolved | M200.8 ICP-MS | 1 | 0.000065 | В | | mg/L | 0.00005 | 0.00025 | 05/27/21 17:22 | bsu |
| Calcium, dissolved | M200.7 ICP | 1 | 93.1 | | * | mg/L | 0.1 | 0.5 | 05/25/21 22:11 | jlw |
| Chromium, dissolved | M200.7 ICP | 2 | < 0.04 | U | | mg/L | 0.04 | 0.1 | 05/26/21 16:39 | jlw |
| Cobalt, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 05/25/21 22:11 | jlw |
| Copper, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 05/25/21 22:11 | jlw |
| Iron, dissolved | M200.7 ICP | 1 | <0.06 | U | * | mg/L | 0.06 | 0.15 | 05/25/21 22:11 | jlw |
| Lead, dissolved | M200.8 ICP-MS | 1 | 0.00016 | В | | mg/L | 0.0001 | 0.0005 | 05/27/21 17:22 | bsu |
| Lithium, dissolved | M200.7 ICP | 1 | 0.365 | | | mg/L | 0.008 | 0.04 | 05/25/21 22:11 | jlw |
| Magnesium, dissolved | M200.7 ICP | 1 | 31.2 | | | mg/L | 0.2 | 1 | 05/25/21 22:11 | jlw |
| Manganese, dissolved | M200.7 ICP | 1 | 0.275 | | * | mg/L | 0.01 | 0.05 | 05/25/21 22:11 | jlw |
| Mercury, dissolved | M245.1 CVAA | 1 | <0.0002 | U | | mg/L | 0.0002 | 0.001 | 05/25/21 14:52 | mlh |
| Nickel, dissolved | M200.7 ICP | 1 | <0.008 | U | | mg/L | 0.008 | 0.04 | 05/25/21 22:11 | jlw |
| Potassium, dissolved | M200.7 ICP | 1 | 6.18 | | | mg/L | 0.2 | 1 | 05/25/21 22:11 | jlw |
| Selenium, dissolved | M200.8 ICP-MS | 1 | 0.00024 | В | | mg/L | 0.0001 | 0.00025 | 05/27/21 17:22 | bsu |
| Sodium, dissolved | M200.7 ICP | 2 | 1250 | | * | mg/L | 0.4 | 2 | 05/26/21 16:39 | jlw |
| Vanadium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.025 | 05/25/21 22:11 | jlw |
| Zinc, dissolved | M200.7 ICP | 1 | <0.02 | U | | mg/L | 0.02 | 0.05 | 05/25/21 22:11 | jlw |
| Wet Chemistry | | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analvst |
| Alkalinity as CaCO3 | SM2320B - Titration | | 11004111 | C, C, C, C | 7.4 | 0 | | . 4 | | ,, oc |
| Bicarbonate as CaCO3 | | 1 | 1200 | | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Carbonate as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Hydroxide as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Total Alkalinity | | 1 | 1200 | | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Chloride | SM4500CI-E | 10 | 316 | | * | mg/L | 5 | 20 | 06/09/21 11:36 | wtc |
| Fluoride | SM4500F-C | 1 | 0.89 | | | mg/L | 0.15 | 0.35 | 05/28/21 20:47 | еер |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | 0.99 | Н | | mg/L | 0.02 | 0.1 | 06/10/21 0:00 | calc |
| Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 1.01 | Н | * | mg/L | 0.02 | 0.1 | 05/22/21 1:17 | pjb |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.016 | ВН | * | mg/L | 0.01 | 0.05 | 05/22/21 0:52 | pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 5 | 3890 | | | mg/L | 100 | 200 | 05/25/21 14:19 | emk |
| Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 50 | 1520 | | | mg/L | 50 | 250 | 06/04/21 9:32 | syw |

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2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

GCC Rio Grande

Project ID:

Sample ID: MW-2B ACZ Sample ID: L65969-04

Date Sampled: 05/19/21 12:45

Date Received: 05/21/21

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 | 05/25/21 22:14 | jlw |
| Arsenic, dissolved | M200.8 ICP-MS | 1 | <0.0002 | U | | mg/L | 0.0002 | 0.001 | 05/27/21 17:23 | bsu |
| Beryllium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 05/25/21 22:14 | jlw |
| Boron, dissolved | M200.7 ICP | 1 | 0.139 | | | mg/L | 0.03 | 0.1 | 05/25/21 22:14 | jlw |
| Cadmium, dissolved | M200.8 ICP-MS | 1 | 0.000068 | В | | mg/L | 0.00005 | 0.00025 | 05/27/21 17:23 | bsu |
| Calcium, dissolved | M200.7 ICP | 1 | 457 | | * | mg/L | 0.1 | 0.5 | 05/25/21 22:14 | jlw |
| Chromium, dissolved | M200.7 ICP | 1 | <0.02 | U | | mg/L | 0.02 | 0.05 | 05/26/21 16:43 | jlw |
| Cobalt, dissolved | M200.7 ICP | 1 | <0.02 | U | | mg/L | 0.02 | 0.05 | 05/25/21 22:14 | jlw |
| Copper, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 05/25/21 22:14 | jlw |
| Iron, dissolved | M200.7 ICP | 1 | <0.06 | U | * | mg/L | 0.06 | 0.15 | 05/25/21 22:14 | jlw |
| Lead, dissolved | M200.8 ICP-MS | 1 | <0.0001 | U | | mg/L | 0.0001 | 0.0005 | 05/27/21 17:23 | bsu |
| Lithium, dissolved | M200.7 ICP | 1 | 0.469 | | | mg/L | 0.008 | 0.04 | 05/25/21 22:14 | jlw |
| Magnesium, dissolved | M200.7 ICP | 1 | 528 | | | mg/L | 0.2 | 1 | 05/25/21 22:14 | jlw |
| Manganese, dissolved | M200.7 ICP | 1 | <0.01 | U | * | mg/L | 0.01 | 0.05 | 05/25/21 22:14 | jlw |
| Mercury, dissolved | M245.1 CVAA | 1 | <0.0002 | U | | mg/L | 0.0002 | 0.001 | 05/25/21 14:53 | mlh |
| Nickel, dissolved | M200.7 ICP | 1 | 0.0119 | В | | mg/L | 0.008 | 0.04 | 05/25/21 22:14 | jlw |
| Potassium, dissolved | M200.7 ICP | 1 | 13.9 | | | mg/L | 0.2 | 1 | 05/25/21 22:14 | jlw |
| Selenium, dissolved | M200.8 ICP-MS | 1 | 0.0398 | | | mg/L | 0.0001 | 0.00025 | 05/27/21 17:23 | bsu |
| Sodium, dissolved | M200.7 ICP | 1 | 390 | | * | mg/L | 0.2 | 1 | 05/25/21 22:14 | jlw |
| Vanadium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.025 | 05/25/21 22:14 | jlw |
| Zinc, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 05/25/21 22:14 | jlw |
| Wet Chemistry | | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
| Alkalinity as CaCO3 | SM2320B - Titration | Bilation | rtesuit | Quui | Λα | Omio | MDE | 1 04.5 | Dute | Allalyst |
| Bicarbonate as CaCO3 | | 1 | 291 | | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Carbonate as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Hydroxide as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Total Alkalinity | | 1 | 291 | Ü | | mg/L | 2 | 20 | 05/26/21 0:00 | еер |
| Chloride | SM4500CI-E | 1 | 50.7 | | * | mg/L | 0.5 | 2 | 06/09/21 10:57 | wtc |
| Fluoride | SM4500F-C | 1 | 0.43 | | | mg/L | 0.15 | 0.35 | 05/28/21 20:55 | eep |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | 7.45 | Н | | mg/L | 0.08 | 0.4 | 06/10/21 0:00 | calc |
| Nitrate/Nitrite as N, | M353.2 - Automated | 4 | 7.48 | н | * | mg/L | 0.08 | 0.4 | 05/22/21 1:19 | pjb |
| dissolved | Cadmium Reduction | - | 7.40 | | | mg/L | 0.00 | 0.4 | 00/22/21 1:10 | PJD |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.028 | ВН | * | mg/L | 0.01 | 0.05 | 05/22/21 0:53 | pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 5 | 5590 | | | mg/L | 100 | 200 | 05/25/21 14:21 | emk |

Sulfate

D516-02/-07/-11 - TURBIDIMETRIC 100

06/04/21 9:44

syw

100

500

mg/L

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3280

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

| Report Header Explanations | Ren | ort F | leade | r Ext | olana | tions |
|----------------------------|-----|-------|-------|-------|-------|-------|
|----------------------------|-----|-------|-------|-------|-------|-------|

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest

Limit Upper limit for RPD, in %.

Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5).

Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit. Synonymous with the EPA term "minimum level".

QC True Value of the Control Sample or the amount added to the Spike

Rec Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

| LCC | Sam | nla | Tvn | 96 |
|-----|------|------|-----|----|
| QU | Jaii | DIG. | LYP | 50 |

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

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

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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.

| limits are in % Re | ec. | | | | | | | | | | | | |
|------------------------------|------------|----------------------------------|--------------------------|---------------|--------|-------------|--------------|------|---------------|---------------|-----|-------|------|
| Alkalinity as CaC | 03 | | SM2320 | B - Titration | | | | | | | | | |
| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519880 | | | | | | | | | | | | | |
| WG519880PBW1 | PBW | 05/25/21 18:28 | | | | 4.5 | mg/L | | -20 | 20 | | | |
| WG519880LCSW3 | LCSW | 05/25/21 18:46 | WC210517-8 | 820.0001 | | 773.8 | mg/L | 94 | 90 | 110 | | | |
| WG519880PQV2 | PQV | 05/25/21 18:57 | WC200729-2 | 20 | | 20.9 | mg/L | 105 | 50 | 150 | | | |
| WG519880LCSW6 | LCSW | 05/25/21 22:01 | WC210517-8 | 820.0001 | | 778.4 | mg/L | 95 | 90 | 110 | | | |
| WG519880PBW2 | PBW | 05/25/21 22:08 | | | | U | mg/L | | -20 | 20 | | | |
| WG519880LCSW9 | LCSW | 05/26/21 1:26 | WC210517-8 | 820.0001 | | 796.3 | mg/L | 97 | 90 | 110 | | | |
| WG519880PBW3 | PBW | 05/26/21 1:33 | | | | U | mg/L | | -20 | 20 | | | |
| L65971-06DUP | DUP | 05/26/21 5:03 | | | 30.3 | 30.1 | mg/L | | | | 1 | 20 | |
| WG519880LCSW12 | | 05/26/21 5:23 | WC210517-8 | 820.0001 | | 798.1 | mg/L | 97 | 90 | 110 | | | |
| WG519880PBW4 | PBW | 05/26/21 5:30 | WC210517-8 | 000 0004 | | U 700.0 | mg/L | 00 | -20 | 20 | | | |
| WG519880LCSW15 | LCSW | 05/26/21 8:16 | WC210317-6 | 820.0001 | | 788.6 | mg/L | 96 | 90 | 110 | | | |
| Aluminum, disso | olved | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519844 | | | | | | | | | | | | | |
| WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 2 | | 2.027 | mg/L | 101 | 95 | 105 | | | |
| WG519844ICB | ICB | 05/25/21 21:14 | | | | U | mg/L | | -0.15 | 0.15 | | | |
| WG519844PQV | PQV | 05/25/21 21:18 | II210503-4 | .250325 | | .225 | mg/L | 90 | 70 | 130 | | | |
| WG519844SIC | SIC | 05/25/21 21:21 | II210506-2 | 200.510325 | | 205.2 | mg/L | 102 | 1 | 200 | | | |
| WG519844LFB | LFB | 05/25/21 21:28 | II210507-4 | 1.0013 | | 1.006 | mg/L | 100 | 85 | 115 | | | |
| L65954-05AS | AS | 05/25/21 21:51 | II210507-4 | 2.0026 | .789 | 2.826 | mg/L | 102 | 85 | 115 | | | |
| L65954-05ASD | ASD | 05/25/21 21:54 | II210507-4 | 2.0026 | .789 | 2.858 | mg/L | 103 | 85 | 115 | 1 | 20 | |
| WG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 1 | | .961 | mg/L | 96 | 90 | 110 | | | |
| WG519844CCB1 WG519844CCV2 | CCB CCV | 05/25/21 22:04 | II210517-1 | 1 | | U .967 | mg/L | 97 | -0.15 90 | 0.15 | | | |
| WG519844CCV2 | CCB | 05/25/21 22:17 05/25/21 22:21 | 11210317-1 | ı | | .967 U | mg/L mg/L | 91 | -0.15 | 110 0.15 | | | |
| WGJ19044CCB2 | ССВ | 03/23/21 22.21 | | | | | mg/L | | -0.13 | 0.13 | | | |
| Arsenic, dissolve | ed | | M200.8 | ICP-MS | | | | | | | | | |
| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG520028 | | | | | | | | | | | | | |
| WG520028ICV | ICV | 05/27/21 16:53 | MS210503-1 | .05 | | .05067 | mg/L | 101 | 90 | 110 | | | |
| WG520028ICB | ICB | 05/27/21 16:54 | | | | U | mg/L | | -0.00044 | 0.00044 | | | |
| WG520028LFB | LFB | 05/27/21 16:56 | MS210420-3 | .05005 | | .04909 | mg/L | 98 | 85 | 115 | | | |
| L65863-02AS | AS | 05/27/21 17:02 | MS210420-3 | .05005 | .00203 | .05425 | mg/L | 104 | 70 | 130 | | | |
| L65863-02ASD | ASD | 05/27/21 17:04 | MS210420-3 | .05005 | .00203 | .05321 | mg/L | 102 | 70 | 130 | 2 | 20 | |
| WG520028CCV1 | CCV | 05/27/21 17:11 | MS210521-8 | .1001 | | .09912 | mg/L | 99 | 90 | 110 | | | |
| WG520028CCB1 | CCB | 05/27/21 17:13 | | | | U | mg/L | | -0.0006 | 0.0006 | | | |
| L65982-01AS | AS | 05/27/21 17:27 | MS210420-3 | .05005 | .00132 | .05046 | mg/L | 98 | 70 70 | 130 | • | 20 | |
| L65982-01ASD | ASD | 05/27/21 17:29 | MS210420-3 MS210521-8 | .05005 | .00132 | .04952 | mg/L | 96 | 70 | 130 | 2 | 20 | |
| WG520028CCV2 | CCV CCB | 05/27/21 17:33 05/27/21 17:34 | 1197 1097 1-9 | .1001 | | .10026 U | mg/L mg/L | 100 | 90 | 110 | | | |
| WG520028CCB2 WG520028CCV3 | CCV | 05/27/21 17:34 | MS210521-8 | .1001 | | .0994 | mg/L | 99 | -0.0006 90 | 0.0006 110 | | | |
| WG520028CCV3 | CCB | 05/27/21 17:49 | .VIOL 1002 1-0 | . 1001 | | .0994 U | mg/L | 33 | -0.0006 | 0.0006 | | | |
| ** 00200200003 | ООВ | 00121121 11.01 | | | | J | 9/ = | | 0.0000 | 0.0000 | | | |

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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, disso | hovl | | M200.7 I | ∩D | | | | | | | | | |
|------------------|------|----------------|------------|--------|---------|---------|-------|------|----------|---------|-----|-------|------|
| | | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Hanar | RPD | Limit | Qual |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | round | Units | Rec% | Lower | Upper | KPU | Limit | Quai |
| WG519844 | | | | | | | | | | | | | |
| WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 2 | | 1.954 | mg/L | 98 | 95 | 105 | | | |
| WG519844ICB | ICB | 05/25/21 21:14 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG519844PQV | PQV | 05/25/21 21:18 | II210503-4 | .05 | | .049 | mg/L | 98 | 70 | 130 | | | |
| WG519844SIC | SIC | 05/25/21 21:21 | II210506-2 | .1 | | .098 | mg/L | 98 | 80 | 120 | | | |
| WG519844LFB | LFB | 05/25/21 21:28 | II210507-4 | .5 | | .498 | mg/L | 100 | 85 | 115 | | | |
| L65954-05AS | AS | 05/25/21 21:51 | II210507-4 | 1 | U | .979 | mg/L | 98 | 85 | 115 | | | |
| L65954-05ASD | ASD | 05/25/21 21:54 | II210507-4 | 1 | U | .984 | mg/L | 98 | 85 | 115 | 1 | 20 | |
| WG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 1 | | .989 | mg/L | 99 | 90 | 110 | | | |
| WG519844CCB1 | CCB | 05/25/21 22:04 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG519844CCV2 | CCV | 05/25/21 22:17 | II210517-1 | 1 | | .992 | mg/L | 99 | 90 | 110 | | | |
| WG519844CCB2 | CCB | 05/25/21 22:21 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| Boron, dissolve | d | | M200.7 I | CP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519844 | | | | | | | | | | | | | |
| WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 2 | | 1.997 | mg/L | 100 | 95 | 105 | | | |
| WG519844ICB | ICB | 05/25/21 21:14 | | | | U | mg/L | | -0.09 | 0.09 | | | |
| WG519844PQV | PQV | 05/25/21 21:18 | II210503-4 | .1001 | | .095 | mg/L | 95 | 70 | 130 | | | |
| WG519844SIC | SIC | 05/25/21 21:21 | II210506-2 | .1001 | | .09 | mg/L | 90 | 80 | 120 | | | |
| WG519844LFB | LFB | 05/25/21 21:28 | II210507-4 | .5005 | | .508 | mg/L | 101 | 85 | 115 | | | |
| L65954-05AS | AS | 05/25/21 21:51 | II210507-4 | 1.001 | .225 | 1.244 | mg/L | 102 | 85 | 115 | | | |
| L65954-05ASD | ASD | 05/25/21 21:54 | II210507-4 | 1.001 | .225 | 1.282 | mg/L | 106 | 85 | 115 | 3 | 20 | |
| WG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 1 | | .995 | mg/L | 100 | 90 | 110 | | | |
| WG519844CCB1 | CCB | 05/25/21 22:04 | | | | U | mg/L | | -0.09 | 0.09 | | | |
| WG519844CCV2 | CCV | 05/25/21 22:17 | II210517-1 | 1 | | .993 | mg/L | 99 | 90 | 110 | | | |
| WG519844CCB2 | CCB | 05/25/21 22:21 | | | | U | mg/L | | -0.09 | 0.09 | | | |
| Cadmium, disso | lved | | M200.8 I | CP-MS | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG520028 | | | | | | | | | | | | | |
| WG520028ICV | ICV | 05/27/21 16:53 | MS210503-1 | .05 | | .051202 | mg/L | 102 | 90 | 110 | | | |
| WG520028ICB | ICB | 05/27/21 16:54 | | | | U | mg/L | | -0.00011 | 0.00011 | | | |
| WG520028LFB | LFB | 05/27/21 16:56 | MS210420-3 | .05005 | | .048927 | mg/L | 98 | 85 | 115 | | | |
| L65863-02AS | AS | 05/27/21 17:02 | MS210420-3 | .05005 | .000119 | .048165 | mg/L | 96 | 70 | 130 | | | |
| L65863-02ASD | ASD | 05/27/21 17:04 | MS210420-3 | .05005 | .000119 | .047888 | mg/L | 95 | 70 | 130 | 1 | 20 | |
| WG520028CCV1 | CCV | 05/27/21 17:11 | MS210521-8 | .1001 | | .099665 | mg/L | 100 | 90 | 110 | | | |
| WG520028CCB1 | CCB | 05/27/21 17:13 | | | | U | mg/L | | -0.00015 | 0.00015 | | | |
| L65982-01AS | AS | 05/27/21 17:27 | MS210420-3 | .05005 | .00204 | .051845 | mg/L | 100 | 70 | 130 | | | |
| L65982-01ASD | ASD | 05/27/21 17:29 | MS210420-3 | .05005 | .00204 | .050997 | mg/L | 98 | 70 | 130 | 2 | 20 | |
| WG520028CCV2 | CCV | 05/27/21 17:33 | MS210521-8 | .1001 | | .100134 | mg/L | 100 | 90 | 110 | | | |
| WG520028CCB2 | ССВ | 05/27/21 17:34 | | | | U | mg/L | | -0.00015 | 0.00015 | | | |
| WG520028CCV3 | CCV | 05/27/21 17:49 | MS210521-8 | .1001 | | .099756 | mg/L | 100 | 90 | 110 | | | |
| WG520028CCB3 | ССВ | 05/27/21 17:51 | | | | U | mg/L | | -0.00015 | 0.00015 | | | |

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WG520642CCV9

WG520642CCB9

CCV

CCB

06/09/21 12:04

06/09/21 12:04

WI210203-7

50.05

GCC Rio Grande ACZ Project ID: L65969

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, dissol | ved | | M200.7 | ICP | | | | | | | | | |
|---|---------------------------------------|--|--------------------------|----------------------|--------|---|--|----------------|--|--|-----|-------|-----|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qua |
| WG519844 | | | | | | | | | | | | | |
| WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 100 | | 97.86 | mg/L | 98 | 95 | 105 | | | |
| WG519844ICB | ICB | 05/25/21 21:14 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG519844PQV | PQV | 05/25/21 21:18 | II210503-4 | .5006 | | .53 | mg/L | 106 | 70 | 130 | | | |
| WG519844SIC | SIC | 05/25/21 21:21 | II210506-2 | 200.5606 | | 198.8 | mg/L | 99 | 1 | 200 | | | |
| WG519844LFB | LFB | 05/25/21 21:28 | II210507-4 | 67.98753 | | 69.44 | mg/L | 102 | 85 | 115 | | | |
| L65954-05AS | AS | 05/25/21 21:51 | II210507-4 | 135.97506 | 704 | 812.8 | mg/L | 80 | 85 | 115 | | | МЗ |
| L65954-05ASD | ASD | 05/25/21 21:54 | II210507-4 | 135.97506 | 704 | 817.4 | mg/L | 83 | 85 | 115 | 1 | 20 | МЗ |
| WG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 50 | | 49.82 | mg/L | 100 | 90 | 110 | | | |
| WG519844CCB1 | ССВ | 05/25/21 22:04 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG519844CCV2 | CCV | 05/25/21 22:17 | II210517-1 | 50 | | 49.81 | mg/L | 100 | 90 | 110 | | | |
| WG519844CCB2 | ССВ | 05/25/21 22:21 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| Chloride | | | SM4500 | CI-E | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qua |
| WG520642 | | | | | | | | | | | | | |
| WG520642ICB | ICB | 06/09/21 8:51 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| WG520642ICV | ICV | 06/09/21 8:51 | WI210503-1 | 54.89 | | 55.03 | mg/L | 100 | 90 | 110 | | | |
| WG520642CCV1 | CCV | 06/09/21 10:55 | WI210203-7 | 50.05 | | 49.46 | mg/L | 99 | 90 | 110 | | | |
| WG520642CCB1 | ССВ | 06/09/21 10:55 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| WG520642LFB1 | LFB | 06/09/21 10:55 | WI200327-3 | 30.03 | | 30.86 | mg/L | 103 | 90 | 110 | | | |
| WG520642CCV2 | CCV | 06/09/21 10:57 | WI210203-7 | 50.05 | | 49.64 | mg/L | 99 | 90 | 110 | | | |
| WG520642CCB2 | ССВ | 06/09/21 10:57 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| L65969-02DUP | DUP | 06/09/21 10:57 | | | 51 | 51.05 | mg/L | | | | 0 | 20 | |
| WG520642CCV3 | CCV | 06/09/21 10:59 | WI210203-7 | 50.05 | | 49.28 | mg/L | 98 | 90 | 110 | | | |
| WG520642CCB3 | ССВ | 06/09/21 10:59 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| WG520642LFB2 | LFB | 06/09/21 10:59 | WI200327-3 | 30.03 | | 30.21 | mg/L | 101 | 90 | 110 | | | |
| VV 00200 1 2LI D2 | | | | | | 40.00 | mg/L | 99 | 90 | 110 | | | |
| WG520642CCV4 | CCV | 06/09/21 11:04 | WI210203-7 | 50.05 | | 49.36 | mg/L | | | | | | |
| | CCV CCB | 06/09/21 11:04 06/09/21 11:04 | WI210203-7 | 50.05 | | 49.36 U | mg/L | 00 | -1.5 | 1.5 | | | |
| WG520642CCV4 | | | WI210203-7 WI210203-7 | 50.05 50.05 | | | | 98 | | | | | |
| WG520642CCV4 WG520642CCB4 | ССВ | 06/09/21 11:04 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| WG520642CCV4 WG520642CCB4 WG520642CCV5 WG520642CCB5 | CCV | 06/09/21 11:04 06/09/21 11:05 | | | | U 49.1 | mg/L | | -1.5 90 | 1.5 110 | | | |
| WG520642CCV4 WG520642CCB4 WG520642CCV5 | CCB CCV CCB | 06/09/21 11:04 06/09/21 11:05 06/09/21 11:05 | WI210203-7 | 50.05 | | U 49.1 U | mg/L mg/L mg/L | 98 | -1.5 90 -1.5 | 1.5 110 1.5 | | | |
| NG520642CCV4 NG520642CCB4 NG520642CCV5 NG520642CCB5 NG520642CCV6 NG520642CCB6 | CCB CCV CCB CCV | 06/09/21 11:04 06/09/21 11:05 06/09/21 11:05 06/09/21 11:36 | WI210203-7 | 50.05 50.05 | 316 | U 49.1 U 49.03 U | mg/L mg/L mg/L mg/L | 98 | -1.5 90 -1.5 90 | 1.5 110 1.5 110 1.5 | | | M3 |
| WG520642CCV4 WG520642CCB4 WG520642CCV5 WG520642CCB5 WG520642CCV6 WG520642CCB6 L65969-03AS | CCB CCV CCB CCV CCB | 06/09/21 11:04 06/09/21 11:05 06/09/21 11:05 06/09/21 11:36 06/09/21 11:36 | WI210203-7 WI210203-7 | 50.05 50.05 30 | 316 | U 49.1 U 49.03 U 328.97 | mg/L mg/L mg/L mg/L mg/L | 98 98 | -1.5 90 -1.5 90 -1.5 90 | 1.5 110 1.5 110 1.5 110 | | | МЗ |
| WG520642CCV4 WG520642CCB4 WG520642CCV5 WG520642CCB5 WG520642CCV6 WG520642CCB6 L65969-03AS WG520642CCV7 | CCB CCV CCB CCV CCB AS | 06/09/21 11:04 06/09/21 11:05 06/09/21 11:05 06/09/21 11:36 06/09/21 11:36 06/09/21 11:36 | WI210203-7 WI210203-7 | 50.05 50.05 | 316 | U 49.1 U 49.03 U 328.97 49.71 | mg/L mg/L mg/L mg/L mg/L mg/L | 98 98 43 | -1.5 90 -1.5 90 -1.5 90 | 1.5 110 1.5 110 1.5 110 | | | МЗ |
| WG520642CCV4 WG520642CCB4 WG520642CCV5 WG520642CCB5 WG520642CCV6 WG520642CCB6 | CCB CCV CCB CCV CCB | 06/09/21 11:04 06/09/21 11:05 06/09/21 11:05 06/09/21 11:36 06/09/21 11:36 | WI210203-7 WI210203-7 | 50.05 50.05 30 | 316 | U 49.1 U 49.03 U 328.97 | mg/L mg/L mg/L mg/L mg/L | 98 98 43 | -1.5 90 -1.5 90 -1.5 90 | 1.5 110 1.5 110 1.5 110 | | | M3 |

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49.14

U

mg/L

mg/L

90

-1.5

110

1.5

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, diss | olved | | M200.7 | ICP | | | | | | | | | |
|------------------|-------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519909 | | | | | | | | | | | | | |
| WG519909ICV | ICV | 05/26/21 15:41 | II210514-2 | 2 | | 1.961 | mg/L | 98 | 95 | 105 | | | |
| WG519909ICB | ICB | 05/26/21 15:47 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG519909PQV | PQV | 05/26/21 15:50 | II210503-4 | .0502 | | .054 | mg/L | 108 | 70 | 130 | | | |
| WG519909SIC | SIC | 05/26/21 15:53 | II210506-2 | .1004 | | .097 | mg/L | 97 | 80 | 120 | | | |
| WG519909LFB | LFB | 05/26/21 16:00 | II210507-4 | .502 | | .498 | mg/L | 99 | 85 | 115 | | | |
| L65954-05AS | AS | 05/26/21 16:20 | II210507-4 | 1.004 | U | .978 | mg/L | 97 | 85 | 115 | | | |
| L65954-05ASD | ASD | 05/26/21 16:23 | II210507-4 | 1.004 | U | .975 | mg/L | 97 | 85 | 115 | 0 | 20 | |
| WG519909CCV1 | CCV | 05/26/21 16:33 | II210517-1 | 1 | | .985 | mg/L | 99 | 90 | 110 | | | |
| WG519909CCB1 | CCB | 05/26/21 16:36 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG519909CCV2 | CCV | 05/26/21 16:46 | II210517-1 | 1 | | .988 | mg/L | 99 | 90 | 110 | | | |
| WG519909CCB2 | CCB | 05/26/21 16:49 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| Cobalt, dissolve | ed | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519844 | | | | | | | | | | | | | |
| WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 2.004 | | 1.944 | mg/L | 97 | 95 | 105 | | | |
| WG519844ICB | ICB | 05/25/21 21:14 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG519844PQV | PQV | 05/25/21 21:18 | II210503-4 | .05005 | | .048 | mg/L | 96 | 70 | 130 | | | |
| WG519844SIC | SIC | 05/25/21 21:21 | II210506-2 | .1001 | | .091 | mg/L | 91 | 80 | 120 | | | |
| WG519844LFB | LFB | 05/25/21 21:28 | II210507-4 | .5005 | | .482 | mg/L | 96 | 85 | 115 | | | |
| L65954-05AS | AS | 05/25/21 21:51 | II210507-4 | 1.001 | .176 | 1.137 | mg/L | 96 | 85 | 115 | | | |
| L65954-05ASD | ASD | 05/25/21 21:54 | II210507-4 | 1.001 | .176 | 1.154 | mg/L | 98 | 85 | 115 | 1 | 20 | |
| WG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 1.002 | | .988 | mg/L | 99 | 90 | 110 | | | |
| WG519844CCB1 | CCB | 05/25/21 22:04 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG519844CCV2 | CCV | 05/25/21 22:17 | II210517-1 | 1.002 | | .986 | mg/L | 98 | 90 | 110 | | | |
| WG519844CCB2 | CCB | 05/25/21 22:21 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| Copper, dissolv | ed | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519844 | | | | | | | | | | | | | |
| WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 2 | | 1.908 | mg/L | 95 | 95 | 105 | | | |
| WG519844ICB | ICB | 05/25/21 21:14 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG519844PQV | PQV | 05/25/21 21:18 | II210503-4 | .0502 | | .049 | mg/L | 98 | 70 | 130 | | | |
| WG519844SIC | SIC | 05/25/21 21:21 | II210506-2 | .10035 | | .1 | mg/L | 100 | 80 | 120 | | | |
| WG519844LFB | LFB | 05/25/21 21:28 | II210507-4 | .502 | | .491 | mg/L | 98 | 85 | 115 | | | |
| L65954-05AS | AS | 05/25/21 21:51 | II210507-4 | 1.004 | .18 | 1.172 | mg/L | 99 | 85 | 115 | | | |
| L65954-05ASD | ASD | 05/25/21 21:54 | II210507-4 | 1.004 | .18 | 1.17 | mg/L | 99 | 85 | 115 | 0 | 20 | |
| WG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 1 | | .962 | mg/L | 96 | 90 | 110 | | | |
| WG519844CCB1 | CCB | 05/25/21 22:04 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG519844CCV2 | CCV | 05/25/21 22:17 | II210517-1 | 1 | | .962 | mg/L | 96 | 90 | 110 | | | |
| WG519844CCB2 | ССВ | 05/25/21 22:21 | | | | U | mg/L | | -0.03 | 0.03 | | | |

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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.

| | limits are in % R | ec. | | CMAEOO | E C | | | | | | | | | |
|--|-------------------|-------|----------------|------------|--------|--------|--------|--------|-------------|----------|---------|-----|-------|------|
| WG520128 CV | | - | | | | 0 1 | | 11. ** | D 0/ | | | DDD | | |
| WGS2012BICV | ACZ ID | I ype | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| MCS2012BCQC USB | WG520126 | | | | | | | | | | | | | |
| MGS20128F0PV PQV | WG520126ICV | ICV | 05/28/21 18:32 | WC210526-1 | 2.002 | | 2.06 | mg/L | 103 | 90 | 110 | | | |
| WGS20126LFB | WG520126ICB | ICB | 05/28/21 18:39 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WGS20128CCV1 | WG520126PQV | PQV | 05/28/21 18:43 | WC210330-2 | .35105 | | .35 | mg/L | 100 | 70 | 130 | | | |
| WGS20128CCB CCB CCB CS2821 20:25 | WG520126LFB | LFB | 05/28/21 18:46 | WC201221-2 | 5.015 | | 5.15 | mg/L | 103 | 90 | 110 | | | |
| L65989-02AS | WG520126CCV1 | CCV | 05/28/21 20:18 | WC210526-1 | 2.002 | | 1.93 | mg/L | 96 | 90 | 110 | | | |
| L65869-02ASD | WG520126CCB1 | CCB | 05/28/21 20:25 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG520126CCV2 | L65969-02AS | AS | 05/28/21 20:36 | WC201221-2 | 5.015 | .4 | 4.57 | mg/L | 83 | 90 | 110 | | | M2 |
| WG520126CCB2 CCB | L65969-02ASD | ASD | 05/28/21 20:39 | WC201221-2 | 5.015 | .4 | 4.55 | mg/L | 83 | 90 | 110 | 0 | 20 | M2 |
| L66008-01AS | WG520126CCV2 | CCV | 05/28/21 21:37 | WC210526-1 | 2.002 | | 2 | mg/L | 100 | 90 | 110 | | | |
| L68008-01ASD | WG520126CCB2 | CCB | 05/28/21 21:45 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WGS20128CCV3 | L66008-01AS | AS | 05/28/21 22:01 | WC201221-2 | 5.015 | U | 4.88 | mg/L | 97 | 90 | 110 | | | |
| M200.7 Iron, dissolved | L66008-01ASD | ASD | 05/28/21 22:05 | WC201221-2 | 5.015 | U | 4.88 | mg/L | 97 | 90 | 110 | 0 | 20 | |
| M200.7 IP | WG520126CCV3 | CCV | 05/28/21 22:24 | WC210526-1 | 2.002 | | 2 | mg/L | 100 | 90 | 110 | | | |
| No. No. | WG520126CCB3 | CCB | 05/28/21 22:31 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG519844CV ICV 05/25/21 21:08 II210514-2 2 1.97 mg/L 99 95 105 WG519844ICV ICV 05/25/21 21:14 II210503-4 .15027 .138 mg/L -0.18 0.18 WG519844PQV PQV 05/25/21 21:21 II210503-4 .15027 .138 mg/L 95 1 200 WG519844FB ISF 05/25/21 21:21 II210507-4 1.0018 .995 mg/L 99 85 1 200 WG519844FB IFB 05/25/21 21:28 II210507-4 1.0018 .995 mg/L 99 85 115 . M3 L65954-05AS AS 05/25/21 21:54 II210507-4 2.0036 8.27 9.908 mg/L 85 85 115 1 20 WG519844CCV1 CCV 05/25/21 21:201 II210517-1 1 .958 mg/L 96 90 110 WG519844CCB1 CCB 05/25/21 22:21 II210517-1 1 | Iron, dissolved | | | M200.7 I | СР | | | | | | | | | |
| WG519844ICV | ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519844 CB | WG519844 | | | | | | | | | | | | | |
| WG519844 CB | WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 2 | | 1 97 | mg/L | 99 | 95 | 105 | | | |
| WG519844PQV | | | | | - | | | | | | | | | |
| WG519844SIC SIC O5/25/21 21:21 I1/210506-2 200.17027 190.1 mg/L 95 1 200 VG519844LFB LFB O5/25/21 21:28 I1/210507-4 1.0018 .995 mg/L 99 85 115 . | | | | II210503-4 | .15027 | | | | 92 | | | | | |
| NG519844LFB | | | | | | | | | | | | | | |
| L65954-05AS | | | | II210507-4 | | | | | | | | | | |
| Column | | | | II210507-4 | | 8.27 | | | | | | | | M3 |
| WG519844CCB1 CCB 05/25/21 22:04 U mg/L 96 90 110 110 WG519844CCV2 CCV 05/25/21 22:17 II210517-1 1 961 mg/L 96 90 110 | L65954-05ASD | | | II210507-4 | | | | mg/L | 85 | | | 1 | 20 | |
| WG519844CCV2 CCV 05/25/21 22:21 U210517-1 1 .961 mg/L 96 90 110 .961 0.18 .962 0.18 .962 0.18 .962 0.18 .962 0.19 .962 0.110 .962 | WG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 1 | | .958 | mg/L | 96 | 90 | 110 | | | |
| M200.8 CCB CCB M200.8 CCB CCB M200.8 CCB CCB M200.8 CCB C | WG519844CCB1 | ССВ | 05/25/21 22:04 | | | | U | mg/L | | -0.18 | 0.18 | | | |
| M200.8 CP-MS M200 | WG519844CCV2 | CCV | 05/25/21 22:17 | II210517-1 | 1 | | .961 | mg/L | 96 | 90 | 110 | | | |
| ACZ ID Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper RPD Limit Qual WG520028 WG520028ICV ICV 05/27/21 16:53 MS210503-1 .05 .05036 mg/L 101 90 110 .05 .050202081CB Umg/L -0.00022 0.000022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.000022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00022 0.00 | WG519844CCB2 | CCB | 05/25/21 22:21 | | | | U | mg/L | | -0.18 | 0.18 | | | |
| WG520028 WG520028ICV ICV 05/27/21 16:53 MS210503-1 .05 .05036 mg/L 101 90 110 WG520028ICB ICB 05/27/21 16:54 U mg/L -0.00022 0.00022 WG520028LFB LFB 05/27/21 16:56 MS210420-3 .05005 .04821 mg/L 96 85 115 L65863-02AS AS 05/27/21 17:02 MS210420-3 .05005 U .04927 mg/L 98 70 130 L65863-02ASD ASD 05/27/21 17:04 MS210420-3 .05005 U .04897 mg/L 98 70 130 1 20 WG520028CCV1 CCV 05/27/21 17:11 MS210521-8 .25025 .24674 mg/L 99 90 110 WG520028CCB1 CCB 05/27/21 17:13 U mg/L 97 70 130 1 20 L65982-01ASD ASD 05/27/21 17:29 MS210420-3 .05005 .0002 .04887 mg/ | Lead, dissolved | | | M200.8 I | CP-MS | | | | | | | | | |
| WG520028ICV ICV 05/27/21 16:53 MS210503-1 .05 .05036 mg/L 101 90 110 WG520028ICB ICB 05/27/21 16:54 U mg/L -0.00022 0.00022 WG520028LFB LFB 05/27/21 16:56 MS210420-3 .05005 U .04821 mg/L 96 85 115 L65863-02AS AS 05/27/21 17:02 MS210420-3 .05005 U .04892 mg/L 98 70 130 L65863-02ASD ASD 05/27/21 17:04 MS210420-3 .05005 U .04899 mg/L 98 70 130 1 20 WG520028CCV1 CCV 05/27/21 17:11 MS210521-8 .25025 .24674 mg/L 99 90 110 WG520028CCB1 CCB 05/27/21 17:13 U mg/L 97 70 130 1 20 L65982-01ASD ASD 05/27/21 17:29 MS210420-3 .05005 .0002 .04821 mg/L | ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG520028ICB ICB 05/27/21 16:54 U mg/L -0.00022 0.00022 WG520028LFB LFB 05/27/21 16:56 MS210420-3 0.05005 U 0.04821 mg/L 96 85 115 L65863-02AS AS 05/27/21 17:02 MS210420-3 0.05005 U 0.04827 mg/L 98 70 130 1 20 WG520028CCV1 CCV 05/27/21 17:11 MS210420-3 0.5005 U 0.0489 mg/L 98 70 130 1 20 WG520028CCV1 CCV 05/27/21 17:11 MS210521-8 2.5025 2.4674 mg/L 99 90 110 WG520028CCB1 CCB 05/27/21 17:13 U mg/L 97 70 130 1 20 L65982-01ASD ASD 05/27/21 17:29 MS210420-3 0.5005 .0002 .04821 mg/L 97 70 130 1 20 WG520028CCV2 CCV 05/27/21 17:34 M | WG520028 | | | | | | | | | | | | | |
| WG520028LFB LFB 05/27/21 16:56 MS210420-3 .05005 .04821 mg/L 96 85 115 L65863-02AS AS 05/27/21 17:02 MS210420-3 .05005 U .04927 mg/L 98 70 130 L65863-02ASD ASD 05/27/21 17:04 MS210420-3 .05005 U .0489 mg/L 98 70 130 1 20 WG520028CCV1 CCV 05/27/21 17:11 MS210521-8 .25025 .24674 mg/L 99 90 110 WG520028CCB1 CCB 05/27/21 17:13 U mg/L 97 70 130 L65982-01AS AS 05/27/21 17:29 MS210420-3 .05005 .0002 .04887 mg/L 97 70 130 1 20 WG520028CCV2 CCV 05/27/21 17:33 MS210521-8 .25025 .24835 mg/L 99 90 110 WG520028CCV2 CCV 05/27/21 17:34 L .25025 | WG520028ICV | ICV | 05/27/21 16:53 | MS210503-1 | .05 | | .05036 | mg/L | 101 | 90 | 110 | | | |
| L65863-02AS AS 05/27/21 17:02 MS210420-3 .05005 U .04927 mg/L 98 70 130 L65863-02ASD ASD 05/27/21 17:04 MS210420-3 .05005 U .0489 mg/L 98 70 130 1 20 WG520028CCV1 CCV 05/27/21 17:11 MS210521-8 .25025 .24674 mg/L 99 90 110 WG520028CCB1 CCB 05/27/21 17:13 U mg/L 99 90 110 L65982-01AS AS 05/27/21 17:27 MS210420-3 .05005 .0002 .04887 mg/L 97 70 130 L65982-01ASD ASD 05/27/21 17:29 MS210420-3 .05005 .0002 .04821 mg/L 96 70 130 1 20 WG520028CCV2 CCV 05/27/21 17:33 MS210521-8 .25025 .24835 mg/L 99 90 110 WG520028CCV3 CCV 05/27/21 17:34 WS210521-8 .25025 .24794 mg/L 99 90 110 <td>WG520028ICB</td> <td>ICB</td> <td>05/27/21 16:54</td> <td></td> <td></td> <td></td> <td>U</td> <td>mg/L</td> <td></td> <td>-0.00022</td> <td>0.00022</td> <td></td> <td></td> <td></td> | WG520028ICB | ICB | 05/27/21 16:54 | | | | U | mg/L | | -0.00022 | 0.00022 | | | |
| L65863-02ASD ASD 05/27/21 17:04 MS210420-3 .05005 U .0489 mg/L 98 70 130 1 20 WG520028CCV1 CCV 05/27/21 17:11 MS210521-8 .25025 .24674 mg/L 99 90 110 WG520028CCB1 CCB 05/27/21 17:13 U mg/L -0.0003 0.0003 L65982-01AS AS 05/27/21 17:27 MS210420-3 .05005 .0002 .04887 mg/L 97 70 130 1 20 WG520028CCV2 CCV 05/27/21 17:39 MS210420-3 .05005 .0002 .04821 mg/L 96 70 130 1 20 WG520028CCV2 CCV 05/27/21 17:33 MS210521-8 .25025 .24835 mg/L 99 90 110 WG520028CCV2 CCV 05/27/21 17:34 WS210521-8 .25025 .24794 mg/L 99 90 110 | WG520028LFB | LFB | 05/27/21 16:56 | MS210420-3 | .05005 | | .04821 | mg/L | 96 | 85 | 115 | | | |
| WG520028CCV1 CCV 05/27/21 17:11 MS210521-8 .25025 .24674 mg/L 99 90 110 WG520028CCB1 CCB 05/27/21 17:13 U mg/L -0.0003 0.0003 L65982-01AS AS 05/27/21 17:27 MS210420-3 .05005 .0002 .04887 mg/L 96 70 130 1 20 WG520028CCV2 CCV 05/27/21 17:33 MS210521-8 .25025 .24835 mg/L 99 90 110 WG520028CCV2 CCB 05/27/21 17:34 L5025 L94835 mg/L 99 90 110 WG520028CCV3 CCV 05/27/21 17:34 L5025 L24794 mg/L 99 90 110 | L65863-02AS | AS | 05/27/21 17:02 | MS210420-3 | .05005 | U | .04927 | mg/L | 98 | 70 | 130 | | | |
| WG520028CCB1 CCB 05/27/21 17:13 U mg/L -0.0003 0.0003 L65982-01AS AS 05/27/21 17:27 MS210420-3 .05005 .0002 .04887 mg/L 97 70 130 L65982-01ASD ASD 05/27/21 17:29 MS210420-3 .05005 .0002 .04821 mg/L 96 70 130 1 20 WG520028CCV2 CCV 05/27/21 17:33 MS210521-8 .25025 .24835 mg/L 99 90 110 WG520028CCB2 CCB 05/27/21 17:34 MS210521-8 .25025 .24794 mg/L 99 90 110 | L65863-02ASD | ASD | 05/27/21 17:04 | MS210420-3 | .05005 | U | .0489 | mg/L | 98 | 70 | 130 | 1 | 20 | |
| L65982-01AS AS 05/27/21 17:27 MS210420-3 .05005 .0002 .04887 mg/L 97 70 130 L65982-01ASD ASD 05/27/21 17:29 MS210420-3 .05005 .0002 .04821 mg/L 96 70 130 1 20 WG520028CCV2 CCV 05/27/21 17:34 MS210521-8 .25025 .24835 mg/L 99 90 110 WG520028CCV3 CCV 05/27/21 17:34 MS210521-8 .25025 .24794 mg/L 99 90 110 | WG520028CCV1 | CCV | 05/27/21 17:11 | MS210521-8 | .25025 | | .24674 | mg/L | 99 | 90 | 110 | | | |
| L65982-01ASD ASD 05/27/21 17:29 MS210420-3 .05005 .0002 .04821 mg/L 96 70 130 1 20 WG520028CCV2 CCV 05/27/21 17:33 MS210521-8 .25025 .24835 mg/L 99 90 110 WG520028CCB2 CCB 05/27/21 17:34 V U mg/L -0.0003 0.0003 WG520028CCV3 CCV 05/27/21 17:49 MS210521-8 .25025 .24794 mg/L 99 90 110 | WG520028CCB1 | CCB | 05/27/21 17:13 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |
| WG520028CCV2 CCV 05/27/21 17:33 MS210521-8 .25025 .24835 mg/L 99 90 110 WG520028CCB2 CCB 05/27/21 17:34 U mg/L -0.0003 0.0003 WG520028CCV3 CCV 05/27/21 17:49 MS210521-8 .25025 .24794 mg/L 99 90 110 | L65982-01AS | AS | 05/27/21 17:27 | MS210420-3 | .05005 | .0002 | .04887 | mg/L | 97 | 70 | 130 | | | |
| WG520028CCB2 CCB 05/27/21 17:34 U mg/L -0.0003 0.0003 WG520028CCV3 CCV 05/27/21 17:49 MS210521-8 .25025 .24794 mg/L 99 90 110 | L65982-01ASD | ASD | 05/27/21 17:29 | MS210420-3 | .05005 | .0002 | .04821 | mg/L | 96 | 70 | 130 | 1 | 20 | |
| WG520028CCV3 CCV 05/27/21 17:49 MS210521-8 .25025 .24794 mg/L 99 90 110 | WG520028CCV2 | CCV | 05/27/21 17:33 | MS210521-8 | .25025 | | .24835 | mg/L | 99 | 90 | 110 | | | |
| WG520028CCV3 CCV 05/27/21 17:49 MS210521-8 .25025 .24794 mg/L 99 90 110 | WG520028CCB2 | CCB | 05/27/21 17:34 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |
| WG520028CCB3 CCB 05/27/21 17:51 U mg/L -0.0003 0.0003 | WG520028CCV3 | CCV | 05/27/21 17:49 | MS210521-8 | .25025 | | .24794 | mg/L | 99 | 90 | 110 | | | |
| | WG520028CCB3 | ССВ | 05/27/21 17:51 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |

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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, dissolv | ed | | M200.7 | ICP | | | | | | | | | |
|------------------|--------|----------------|------------|-----------|--------|-------|-------|------|--------|-------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519844 | | | | | | | | | | | | | |
| WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 2 | | 1.967 | mg/L | 98 | 95 | 105 | | | |
| WG519844ICB | ICB | 05/25/21 21:14 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| WG519844PQV | PQV | 05/25/21 21:18 | II210503-4 | .03996 | | .0354 | mg/L | 89 | 70 | 130 | | | |
| WG519844SIC | SIC | 05/25/21 21:21 | II210506-2 | .0999 | | .0951 | mg/L | 95 | 80 | 120 | | | |
| WG519844LFB | LFB | 05/25/21 21:28 | II210507-4 | .999 | | .9902 | mg/L | 99 | 85 | 115 | | | |
| L65954-05AS | AS | 05/25/21 21:51 | II210507-4 | 1.998 | .0388 | 2.008 | mg/L | 99 | 85 | 115 | | | |
| L65954-05ASD | ASD | 05/25/21 21:54 | II210507-4 | 1.998 | .0388 | 2.072 | mg/L | 102 | 85 | 115 | 3 | 20 | |
| WG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 1 | | .983 | mg/L | 98 | 90 | 110 | | | |
| WG519844CCB1 | CCB | 05/25/21 22:04 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| WG519844CCV2 | CCV | 05/25/21 22:17 | II210517-1 | 1 | | .983 | mg/L | 98 | 90 | 110 | | | |
| WG519844CCB2 | CCB | 05/25/21 22:21 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| Magnesium, dis | solved | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519844 | | | | | | | | | | | | | |
| WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 100 | | 96.58 | mg/L | 97 | 95 | 105 | | | |
| WG519844ICB | ICB | 05/25/21 21:14 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG519844PQV | PQV | 05/25/21 21:18 | II210503-4 | 1.0001 | | .94 | mg/L | 94 | 70 | 130 | | | |
| WG519844SIC | SIC | 05/25/21 21:21 | II210506-2 | 201.0201 | | 201.3 | mg/L | 100 | 1 | 200 | | | |
| WG519844LFB | LFB | 05/25/21 21:28 | II210507-4 | 50.00302 | | 49.86 | mg/L | 100 | 85 | 115 | | | |
| L65954-05AS | AS | 05/25/21 21:51 | II210507-4 | 100.00604 | 102 | 197.3 | mg/L | 95 | 85 | 115 | | | |
| L65954-05ASD | ASD | 05/25/21 21:54 | II210507-4 | 100.00604 | 102 | 199 | mg/L | 97 | 85 | 115 | 1 | 20 | |
| WG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 50 | | 49.18 | mg/L | 98 | 90 | 110 | | | |
| WG519844CCB1 | CCB | 05/25/21 22:04 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG519844CCV2 | CCV | 05/25/21 22:17 | II210517-1 | 50 | | 48.83 | mg/L | 98 | 90 | 110 | | | |
| WG519844CCB2 | CCB | 05/25/21 22:21 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| Manganese, dis | solved | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519844 | | | | | | | | | | | | | |
| WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 2 | | 1.937 | mg/L | 97 | 95 | 105 | | | |
| WG519844ICB | ICB | 05/25/21 21:14 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG519844PQV | PQV | 05/25/21 21:18 | II210503-4 | .05005 | | .046 | mg/L | 92 | 70 | 130 | | | |
| WG519844SIC | SIC | 05/25/21 21:21 | II210506-2 | 50.10005 | | 47.66 | mg/L | 95 | 1 | 200 | | | |
| WG519844LFB | LFB | 05/25/21 21:28 | II210507-4 | .5005 | | .486 | mg/L | 97 | 85 | 115 | | | |
| L65954-05AS | AS | 05/25/21 21:51 | II210507-4 | 1.001 | 7.95 | 8.574 | mg/L | 62 | 85 | 115 | | | M3 |
| L65954-05ASD | ASD | 05/25/21 21:54 | II210507-4 | 1.001 | 7.95 | 8.63 | mg/L | 68 | 85 | 115 | 1 | 20 | M3 |
| WG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 1 | | .98 | mg/L | 98 | 90 | 110 | | | |
| WG519844CCB1 | CCB | 05/25/21 22:04 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG519844CCV2 | CCV | 05/25/21 22:17 | II210517-1 | 1 | | .98 | mg/L | 98 | 90 | 110 | | | |
| WG519844CCB2 | ССВ | 05/25/21 22:21 | | | | U | mg/L | | -0.03 | 0.03 | | | |

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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, dissolv | /ed | | M245.1 (| CVAA | | | | | | | | | |
|------------------|------|------------------|-------------|---------|--------|--------|-------|------|----------|---------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519741 | | | | | | | | | | | | | |
| WG519741ICV | ICV | 05/24/21 13:18 | HG210329-2 | .00501 | | .00512 | mg/L | 102 | 95 | 105 | | | |
| NG519741ICB | ICB | 05/24/21 13:19 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| WG519741PQV | PQV | 05/24/21 13:19 | HG210513-3 | .001001 | | .00093 | mg/L | 93 | 70 | 130 | | | |
| NG519741LRB | LRB | 05/24/21 13:20 | | | | U | mg/L | | -0.00044 | 0.00044 | | | |
| NG519741LFB | LFB | 05/24/21 13:21 | HG210513-4 | .002002 | | .00194 | mg/L | 97 | 85 | 115 | | | |
| NG519741CCV1 | CCV | 05/24/21 13:29 | HG210329-2 | .00501 | | .00547 | mg/L | 109 | 90 | 110 | | | |
| WG519741CCB1 | ССВ | 05/24/21 13:30 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| .65927-01LFM | LFM | 05/24/21 13:39 | HG210513-4 | .002002 | U | .00195 | mg/L | 97 | 85 | 115 | | | |
| WG519741CCV2 | CCV | 05/24/21 13:40 | HG210329-2 | .00501 | | .00539 | mg/L | 108 | 90 | 110 | | | |
| WG519741CCB2 | ССВ | 05/24/21 13:41 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| _65927-01LFMD | LFMD | 05/24/21 13:42 | HG210513-4 | .002002 | U | .002 | mg/L | 100 | 85 | 115 | 3 | 20 | |
| NG519741CCV3 | CCV | 05/24/21 13:49 | HG210329-2 | .00501 | | .0055 | mg/L | 110 | 90 | 110 | | | |
| WG519741CCB3 | ССВ | 05/24/21 13:50 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| NG519827 | | | | | | | | | | | | | |
| VG519827ICV | ICV | 05/25/21 13:57 | HG210329-2 | .00501 | | .00515 | mg/L | 103 | 90 | 110 | | | |
| WG519827ICV | ICB | 05/25/21 13:57 | 110210020 2 | .00301 | | .00313 | mg/L | 103 | -0.0006 | 0.0006 | | | |
| | ЮВ | 03/23/21 13.37 | | | | O | 9/ = | | -0.0000 | 0.0000 | | | |
| NG519830 | | | | | | | | | | | | | |
| VG519830CCV1 | CCV | 05/25/21 14:34 | HG210329-2 | .00501 | | .00525 | mg/L | 105 | 90 | 110 | | | |
| VG519830CCB1 | CCB | 05/25/21 14:35 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| VG519830PQV | PQV | 05/25/21 14:36 | HG210513-3 | .001001 | | .00104 | mg/L | 104 | 70 | 130 | | | |
| VG519830LRB | LRB | 05/25/21 14:37 | | | | U | mg/L | | -0.00044 | 0.00044 | | | |
| WG519830LFB | LFB | 05/25/21 14:38 | HG210513-4 | .002002 | | .00197 | mg/L | 98 | 85 | 115 | | | |
| WG519830CCV2 | CCV | 05/25/21 14:46 | HG210329-2 | .00501 | | .00523 | mg/L | 104 | 90 | 110 | | | |
| WG519830CCB2 | CCB | 05/25/21 14:47 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| _65969-04LFM | LFM | 05/25/21 14:54 | HG210513-4 | .002002 | U | .00191 | mg/L | 95 | 85 | 115 | | | |
| _65969-04LFMD | LFMD | 05/25/21 14:55 | HG210513-4 | .002002 | U | .00189 | mg/L | 94 | 85 | 115 | 1 | 20 | |
| NG519830CCV3 | CCV | 05/25/21 14:56 | HG210329-2 | .00501 | | .00529 | mg/L | 106 | 90 | 110 | | | |
| WG519830CCB3 | CCB | 05/25/21 14:57 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| Nickel, dissolve | d | | M200.7 I | CP | | | | | | | | | |
| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519844 | | | | | | | | | | | | | |
| WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 2 | | 1.9288 | mg/L | 96 | 95 | 105 | | | |
| NG519844ICB | ICB | 05/25/21 21:14 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| WG519844PQV | PQV | 05/25/21 21:18 | II210503-4 | .04016 | | .0426 | mg/L | 106 | 70 | 130 | | | |
| WG519844SIC | SIC | 05/25/21 21:21 | II210506-2 | .1004 | | .0926 | mg/L | 92 | 80 | 120 | | | |
| WG519844LFB | LFB | 05/25/21 21:28 | II210507-4 | .5 | | .4885 | mg/L | 98 | 85 | 115 | | | |
| .65954-05AS | AS | 05/25/21 21:51 | II210507-4 | 1 | .351 | 1.2862 | mg/L | 94 | 85 | 115 | | | |
| .65954-05ASD | ASD | 05/25/21 21:54 | II210507-4 | 1 | .351 | 1.3182 | mg/L | 97 | 85 | 115 | 2 | 20 | |
| VG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 1 | | .987 | mg/L | 99 | 90 | 110 | - | • | |
| VG519844CCB1 | CCB | 05/25/21 22:04 | | • | | U | mg/L | | -0.024 | 0.024 | | | |
| VG519844CCV2 | CCV | 05/25/21 22:17 | II210517-1 | 1 | | .974 | mg/L | 97 | 90 | 110 | | | |
| . 50 100 1700 12 | - V | JUIZUIZ 1 ZZ. 11 | | | | .577 | 9, = | 01 | | | | | |

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WG519723CCV5

WG519723CCB5

CCV

CCB

05/22/21 1:21

05/22/21 1:24

WI210520-7

GCC Rio Grande ACZ Project ID: L65969

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 | s N, diss | olved | M353.2 - A | Automate | d Cadmiur | n Reduc | tion | | | | | | |
|--------------------|-----------|----------------|-------------|----------|-----------|---------|-------|------|-------|-------|-----|-------|------|
| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519719 | | | | | | | | | | | | | |
| WG519719ICV | ICV | 05/21/21 22:15 | WI210302-17 | 2.416 | | 2.416 | mg/L | 100 | 90 | 110 | | | |
| WG519719ICB | ICB | 05/21/21 22:16 | | | | U | mg/L | | -0.02 | 0.02 | | | |
| WG519723 | | | | | | | | | | | | | |
| WG519723CCV1 | CCV | 05/22/21 0:21 | WI210520-7 | 2 | | 2.026 | mg/L | 101 | 90 | 110 | | | |
| WG519723CCB1 | ССВ | 05/22/21 0:24 | | | | U | mg/L | | -0.02 | 0.02 | | | |
| WG519723LFB | LFB | 05/22/21 0:25 | WI210331-13 | 2 | | 2.078 | mg/L | 104 | 90 | 110 | | | |
| WG519723CCV2 | CCV | 05/22/21 0:37 | WI210520-7 | 2 | | 2.015 | mg/L | 101 | 90 | 110 | | | |
| WG519723CCB2 | ССВ | 05/22/21 0:40 | | | | U | mg/L | | -0.02 | 0.02 | | | |
| L65876-02AS | AS | 05/22/21 0:47 | WI210331-13 | 2 | .119 | 2.124 | mg/L | 100 | 90 | 110 | | | |
| L65969-01DUP | DUP | 05/22/21 0:49 | | | .032 | .039 | mg/L | | | | 20 | 20 | RA |
| WG519723CCV3 | CCV | 05/22/21 0:54 | WI210520-7 | 2 | | 2.028 | mg/L | 101 | 90 | 110 | | | |
| WG519723CCB3 | CCB | 05/22/21 0:57 | | | | U | mg/L | | -0.02 | 0.02 | | | |
| WG519723CCV4 | CCV | 05/22/21 1:11 | WI210520-7 | 2 | | 2.028 | mg/L | 101 | 90 | 110 | | | |
| WG519723CCB4 | CCB | 05/22/21 1:14 | | | | U | mg/L | | -0.02 | 0.02 | | | |
| WG519723CCV5 | CCV | 05/22/21 1:21 | WI210520-7 | 2 | | 2.013 | mg/L | 101 | 90 | 110 | | | |
| WG519723CCB5 | CCB | 05/22/21 1:24 | | | | U | mg/L | | -0.02 | 0.02 | | | |
| Nitrite as N, dis | solved | | M353.2 - A | Automate | d Cadmiur | m Reduc | tion | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519719 | | | | | | | | | | | | | |
| WG519719ICV | ICV | 05/21/21 22:15 | WI210302-17 | .609 | | .622 | mg/L | 102 | 90 | 110 | | | |
| WG519719ICB | ICB | 05/21/21 22:16 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| WG519723 | | | | | | | | | | | | | |
| WG519723CCV1 | CCV | 05/22/21 0:21 | WI210520-7 | 1 | | .961 | mg/L | 96 | 90 | 110 | | | |
| WG519723CCB1 | CCB | 05/22/21 0:24 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| WG519723LFB | LFB | 05/22/21 0:25 | WI210331-13 | 1 | | .989 | mg/L | 99 | 90 | 110 | | | |
| WG519723CCV2 | CCV | 05/22/21 0:37 | WI210520-7 | 1 | | .955 | mg/L | 96 | 90 | 110 | | | |
| WG519723CCB2 | ССВ | 05/22/21 0:40 | | - | | U | mg/L | | -0.01 | 0.01 | | | |
| L65876-02AS | AS | 05/22/21 0:47 | WI210331-13 | 1 | U | .933 | mg/L | 93 | 90 | 110 | | | |
| L65969-01DUP | DUP | 05/22/21 0:49 | | • | U | U | mg/L | | | | 0 | 20 | RA |
| WG519723CCV3 | CCV | 05/22/21 0:54 | WI210520-7 | 1 | - | .958 | mg/L | 96 | 90 | 110 | - | - | = - |
| WG519723CCB3 | CCB | 05/22/21 0:57 | | • | | U | mg/L | | -0.01 | 0.01 | | | |
| WG519723CCV4 | CCV | 05/22/21 1:11 | WI210520-7 | 1 | | .957 | mg/L | 96 | 90 | 110 | | | |
| WG519723CCB4 | CCB | 05/22/21 1:14 | | • | | U | mg/L | | -0.01 | 0.01 | | | |
| | | | | | | • | • | | | | | | |

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.961

U

mg/L

mg/L

90

-0.01

110

0.01

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, diss | olved | | M200.7 I | ICP | | | | | | | | | |
|-------------------|----------|----------------|------------|----------|--------|--------|-------|------|----------|---------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519844 | | | | | | | | | | | | | |
| WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 20 | | 19.51 | mg/L | 98 | 95 | 105 | | | |
| WG519844ICB | ICB | 05/25/21 21:14 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG519844PQV | PQV | 05/25/21 21:18 | II210503-4 | 1.004 | | 1 | mg/L | 100 | 70 | 130 | | | |
| WG519844SIC | SIC | 05/25/21 21:21 | II210506-2 | 1.004 | | 1.02 | mg/L | 102 | 80 | 120 | | | |
| WG519844LFB | LFB | 05/25/21 21:28 | II210507-4 | 100.0157 | | 100.1 | mg/L | 100 | 85 | 115 | | | |
| L65954-05AS | AS | 05/25/21 21:51 | II210507-4 | 200.0314 | 124 | 322.8 | mg/L | 99 | 85 | 115 | | | |
| L65954-05ASD | ASD | 05/25/21 21:54 | II210507-4 | 200.0314 | 124 | 324.4 | mg/L | 100 | 85 | 115 | 0 | 20 | |
| WG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 10 | | 10.27 | mg/L | 103 | 90 | 110 | | | |
| WG519844CCB1 | CCB | 05/25/21 22:04 | | | | .31 | mg/L | | -0.6 | 0.6 | | | |
| WG519844CCV2 | CCV | 05/25/21 22:17 | II210517-1 | 10 | | 10.35 | mg/L | 104 | 90 | 110 | | | |
| WG519844CCB2 | CCB | 05/25/21 22:21 | | | | .45 | mg/L | | -0.6 | 0.6 | | | |
| Residue, Filteral | ble (TDS | s) @180C | SM2540 | С | | | | | | | | | |
| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG519862 | | | | | | | | | | | | | |
| WG519862PBW | PBW | 05/25/21 14:00 | | | | U | mg/L | | -20 | 20 | | | |
| WG519862LCSW | LCSW | 05/25/21 14:01 | PCN62899 | 1000 | | 988 | mg/L | 99 | 80 | 120 | | | |
| L65969-04DUP | DUP | 05/25/21 14:23 | | | 5590 | 5450 | mg/L | | | | 3 | 10 | |
| WG520265 | | | | | | | | | | | | | |
| WG520265PBW | PBW | 06/02/21 12:10 | | | | U | mg/L | | -20 | 20 | | | |
| WG520265LCSW | LCSW | 06/02/21 12:12 | PCN63554 | 1000 | | 1002 | mg/L | 100 | 80 | 120 | | | |
| L66149-01DUP | DUP | 06/02/21 12:25 | | | 3010 | 3014 | mg/L | | | | 0 | 10 | |
| Selenium, disso | lved | | M200.8 I | ICP-MS | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG520028 | | | | | | | | | | | | | |
| WG520028ICV | ICV | 05/27/21 16:53 | MS210503-1 | .05 | | .05075 | mg/L | 102 | 90 | 110 | | | |
| WG520028ICB | ICB | 05/27/21 16:54 | | | | U | mg/L | | -0.00022 | 0.00022 | | | |
| WG520028LFB | LFB | 05/27/21 16:56 | MS210420-3 | .05 | | .0495 | mg/L | 99 | 85 | 115 | | | |
| L65863-02AS | AS | 05/27/21 17:02 | MS210420-3 | .05 | .00019 | .05447 | mg/L | 109 | 70 | 130 | | | |
| L65863-02ASD | ASD | 05/27/21 17:04 | MS210420-3 | .05 | .00019 | .05352 | mg/L | 107 | 70 | 130 | 2 | 20 | |
| WG520028CCV1 | CCV | 05/27/21 17:11 | MS210521-8 | .25 | | .24153 | mg/L | 97 | 90 | 110 | | | |
| WG520028CCB1 | CCB | 05/27/21 17:13 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |
| L65982-01AS | AS | 05/27/21 17:27 | MS210420-3 | .05 | U | .0508 | mg/L | 102 | 70 | 130 | | | |
| L65982-01ASD | ASD | 05/27/21 17:29 | MS210420-3 | .05 | U | .05014 | mg/L | 100 | 70 | 130 | 1 | 20 | |
| WG520028CCV2 | CCV | 05/27/21 17:33 | MS210521-8 | .25 | | .24691 | mg/L | 99 | 90 | 110 | | | |
| WG520028CCB2 | CCB | 05/27/21 17:34 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |
| WG520028CCV3 | CCV | 05/27/21 17:49 | MS210521-8 | .25 | | .2471 | mg/L | 99 | 90 | 110 | | | |
| WG520028CCB3 | CCB | 05/27/21 17:51 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |

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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 | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|----------------|------------|----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG519844 | | | | | | | | | | | | | |
| WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 100 | | 96.33 | mg/L | 96 | 95 | 105 | | | |
| WG519844ICB | ICB | 05/25/21 21:14 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG519844PQV | PQV | 05/25/21 21:18 | II210503-4 | .998 | | .98 | mg/L | 98 | 70 | 130 | | | |
| WG519844SIC | SIC | 05/25/21 21:21 | II210506-2 | .998 | | 1.04 | mg/L | 104 | 80 | 120 | | | |
| WG519844LFB | LFB | 05/25/21 21:28 | II210507-4 | 100.0605 | | 99.13 | mg/L | 99 | 85 | 115 | | | |
| L65954-05AS | AS | 05/25/21 21:51 | II210507-4 | 200.121 | 664 | 829.2 | mg/L | 83 | 85 | 115 | | | M3 |
| L65954-05ASD | ASD | 05/25/21 21:54 | II210507-4 | 200.121 | 664 | 829.2 | mg/L | 83 | 85 | 115 | 0 | 20 | M3 |
| WG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 50 | | 49.16 | mg/L | 98 | 90 | 110 | | | |
| WG519844CCB1 | CCB | 05/25/21 22:04 | | | | .5 | mg/L | | -0.6 | 0.6 | | | |
| WG519844CCV2 | CCV | 05/25/21 22:17 | II210517-1 | 50 | | 49.24 | mg/L | 98 | 90 | 110 | | | |
| WG519844CCB2 | CCB | 05/25/21 22:21 | | | | .69 | mg/L | | -0.6 | 0.6 | | | ВВ |
| WG519909 | | | | | | | | | | | | | |
| WG519909ICV | ICV | 05/26/21 15:41 | II210514-2 | 100 | | 97.53 | mg/L | 98 | 95 | 105 | | | |
| WG519909ICB | ICB | 05/26/21 15:47 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG519909PQV | PQV | 05/26/21 15:50 | II210503-4 | .998 | | .99 | mg/L | 99 | 70 | 130 | | | |
| WG519909SIC | SIC | 05/26/21 15:53 | II210506-2 | .998 | | 1.07 | mg/L | 107 | 80 | 120 | | | |
| WG519909LFB | LFB | 05/26/21 16:00 | II210507-4 | 100.0605 | | 99.68 | mg/L | 100 | 85 | 115 | | | |
| L65954-05AS | AS | 05/26/21 16:20 | II210507-4 | 200.121 | 669 | 824 | mg/L | 77 | 85 | 115 | | | M3 |
| L65954-05ASD | ASD | 05/26/21 16:23 | II210507-4 | 200.121 | 669 | 839.6 | mg/L | 85 | 85 | 115 | 2 | 20 | |
| WG519909CCV1 | CCV | 05/26/21 16:33 | II210517-1 | 50 | | 49.07 | mg/L | 98 | 90 | 110 | | | |
| WG519909CCB1 | CCB | 05/26/21 16:36 | | | | .35 | mg/L | | -0.6 | 0.6 | | | |
| WG519909CCV2 | CCV | 05/26/21 16:46 | II210517-1 | 50 | | 48.89 | mg/L | 98 | 90 | 110 | | | |
| WG519909CCB2 | CCB | 05/26/21 16:49 | | | | .31 | mg/L | | -0.6 | 0.6 | | | |

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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 D516-02/-07/-11 - TURBIDIMETRIC

| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|---------------|------|---------------|------------|-------|--------|--------|-------|------|-------|-------|-----|-------|------|
| WG520205 | | | | | | | | | | | | | |
| WG520205ICB | ICB | 06/04/21 8:56 | | | | U | mg/L | | -3 | 3 | | | |
| WG520205ICV | ICV | 06/04/21 8:56 | WI210531-2 | 20.46 | | 19.7 | mg/L | 96 | 90 | 110 | | | |
| WG520205CCV1 | CCV | 06/04/21 9:04 | WI210531-3 | 25 | | 24.9 | mg/L | 100 | 90 | 110 | | | |
| WG520205CCB1 | CCB | 06/04/21 9:04 | | | | U | mg/L | | -3 | 3 | | | |
| WG520205LFB | LFB | 06/04/21 9:04 | WI210105-3 | 10 | | 10.4 | mg/L | 104 | 90 | 110 | | | |
| WG520205CCV2 | CCV | 06/04/21 9:06 | WI210531-3 | 25 | | 24.9 | mg/L | 100 | 90 | 110 | | | |
| WG520205CCB2 | CCB | 06/04/21 9:06 | | | | U | mg/L | | -3 | 3 | | | |
| WG520205CCV3 | CCV | 06/04/21 9:08 | WI210531-3 | 25 | | 24.9 | mg/L | 100 | 90 | 110 | | | |
| WG520205CCB3 | CCB | 06/04/21 9:08 | | | | U | mg/L | | -3 | 3 | | | |
| WG520205CCV4 | CCV | 06/04/21 9:10 | WI210531-3 | 25 | | 25 | mg/L | 100 | 90 | 110 | | | |
| WG520205CCB4 | CCB | 06/04/21 9:10 | | | | U | mg/L | | -3 | 3 | | | |
| WG520205CCV5 | CCV | 06/04/21 9:13 | WI210531-3 | 25 | | 24.5 | mg/L | 98 | 90 | 110 | | | |
| WG520205CCB5 | CCB | 06/04/21 9:13 | | | | U | mg/L | | -3 | 3 | | | |
| WG520205CCV6 | CCV | 06/04/21 9:14 | WI210531-3 | 25 | | 24.9 | mg/L | 100 | 90 | 110 | | | |
| WG520205CCB6 | CCB | 06/04/21 9:15 | | | | U | mg/L | | -3 | 3 | | | |
| L65986-01AS | AS | 06/04/21 9:18 | SO4TURB5X | 10 | 68.5 | 78.4 | mg/L | 99 | 90 | 110 | | | |
| WG520205CCV7 | CCV | 06/04/21 9:21 | WI210531-3 | 25 | | 24.8 | mg/L | 99 | 90 | 110 | | | |
| WG520205CCB7 | CCB | 06/04/21 9:21 | | | | U | mg/L | | -3 | 3 | | | |
| WG520205CCV8 | CCV | 06/04/21 9:21 | WI210531-3 | 25 | | 24.7 | mg/L | 99 | 90 | 110 | | | |
| WG520205CCB8 | CCB | 06/04/21 9:21 | | | | U | mg/L | | -3 | 3 | | | |
| WG520205CCV9 | CCV | 06/04/21 9:30 | WI210531-3 | 25 | | 25.1 | mg/L | 100 | 90 | 110 | | | |
| WG520205CCB9 | CCB | 06/04/21 9:30 | | | | U | mg/L | | -3 | 3 | | | |
| WG520205CCV10 | CCV | 06/04/21 9:32 | WI210531-3 | 25 | | 25 | mg/L | 100 | 90 | 110 | | | |
| WG520205CCB10 | CCB | 06/04/21 9:32 | | | | U | mg/L | | -3 | 3 | | | |
| WG520205CCV11 | CCV | 06/04/21 9:42 | WI210531-3 | 25 | | 25 | mg/L | 100 | 90 | 110 | | | |
| WG520205CCB11 | CCB | 06/04/21 9:42 | | | | U | mg/L | | -3 | 3 | | | |
| L65969-04DUP | DUP | 06/04/21 9:44 | | | 3280 | 3422.6 | mg/L | | | | 4 | 20 | |
| WG520205CCV12 | CCV | 06/04/21 9:44 | WI210531-3 | 25 | | 24.9 | mg/L | 100 | 90 | 110 | | | |
| WG520205CCB12 | CCB | 06/04/21 9:45 | | | | U | mg/L | | -3 | 3 | | | |
| WG520205CCV13 | CCV | 06/04/21 9:52 | WI210531-3 | 25 | | 25.1 | mg/L | 100 | 90 | 110 | | | |
| WG520205CCB13 | CCB | 06/04/21 9:52 | | | | U | mg/L | | -3 | 3 | | | |
| WG520205CCV14 | CCV | 06/04/21 9:53 | WI210531-3 | 25 | | 24.8 | mg/L | 99 | 90 | 110 | | | |
| WG520205CCB14 | ССВ | 06/04/21 9:53 | | | | U | mg/L | | -3 | 3 | | | |

Vanadium, dissolved

M200.7 ICP

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|----------------|------------|---------|--------|-------|-------|------|--------|-------|-----|-------|------|
| WG519844 | | | | | | | | | | | | | |
| WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 2 | | 1.973 | mg/L | 99 | 95 | 105 | | | |
| WG519844ICB | ICB | 05/25/21 21:14 | | | | U | mg/L | | -0.015 | 0.015 | | | |
| WG519844PQV | PQV | 05/25/21 21:18 | II210503-4 | .025025 | | .022 | mg/L | 88 | 70 | 130 | | | |
| WG519844SIC | SIC | 05/25/21 21:21 | II210506-2 | .1001 | | .093 | mg/L | 93 | 80 | 120 | | | |
| WG519844LFB | LFB | 05/25/21 21:28 | II210507-4 | .5005 | | .5099 | mg/L | 102 | 85 | 115 | | | |
| L65954-05AS | AS | 05/25/21 21:51 | II210507-4 | 1.001 | U | 1.011 | mg/L | 101 | 85 | 115 | | | |
| L65954-05ASD | ASD | 05/25/21 21:54 | II210507-4 | 1.001 | U | 1.024 | mg/L | 102 | 85 | 115 | 1 | 20 | |
| WG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 1 | | .995 | mg/L | 100 | 90 | 110 | | | |
| WG519844CCB1 | CCB | 05/25/21 22:04 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG519844CCV2 | CCV | 05/25/21 22:17 | II210517-1 | 1 | | 1 | mg/L | 100 | 90 | 110 | | | |
| WG519844CCB2 | CCB | 05/25/21 22:21 | | | | U | mg/L | | -0.03 | 0.03 | | | |

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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 | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG519844 | | | | | | | | | | | | | |
| WG519844ICV | ICV | 05/25/21 21:08 | II210514-2 | 2 | | 1.944 | mg/L | 97 | 95 | 105 | | | |
| WG519844ICB | ICB | 05/25/21 21:14 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG519844PQV | PQV | 05/25/21 21:18 | II210503-4 | .05015 | | .047 | mg/L | 94 | 70 | 130 | | | |
| WG519844SIC | SIC | 05/25/21 21:21 | II210506-2 | .1003 | | .095 | mg/L | 95 | 80 | 120 | | | |
| WG519844LFB | LFB | 05/25/21 21:28 | II210507-4 | .50075 | | .498 | mg/L | 99 | 85 | 115 | | | |
| L65954-05AS | AS | 05/25/21 21:51 | II210507-4 | 1.0015 | 2.7 | 3.56 | mg/L | 86 | 85 | 115 | | | |
| L65954-05ASD | ASD | 05/25/21 21:54 | II210507-4 | 1.0015 | 2.7 | 3.59 | mg/L | 89 | 85 | 115 | 1 | 20 | |
| WG519844CCV1 | CCV | 05/25/21 22:01 | II210517-1 | 1 | | .983 | mg/L | 98 | 90 | 110 | | | |
| WG519844CCB1 | CCB | 05/25/21 22:04 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG519844CCV2 | CCV | 05/25/21 22:17 | II210517-1 | 1 | | .972 | mg/L | 97 | 90 | 110 | | | |
| WG519844CCB2 | CCB | 05/25/21 22:21 | | | | U | mg/L | | -0.06 | 0.06 | | | |

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GCC Rio Grande ACZ Project ID: L65969

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|-----------|----------|---------------------------------|--------------------------------------|------|---|
| L65969-01 | WG519844 | Calcium, dissolved | M200.7 ICP | М3 | 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. |
| | WG520642 | Chloride | SM4500CI-E | 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. |
| | WG520126 | Fluoride | SM4500F-C | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | WG519844 | Iron, 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. |
| | | Manganese, 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. |
| | WG519723 | Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | НЗ | Sample was received and analyzed past holding time. |
| | | | M353.2 - 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, dissolved | M353.2 - Automated Cadmium Reduction | НЗ | Sample was received and analyzed past holding time. |
| | | | M353.2 - 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). |
| | WG520265 | Residue, Filterable (TDS) @180C | SM2540C | H2 | Initial analysis within holding time. Reanalysis for the required dilution was past holding time. |
| | WG519844 | Sodium, 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. |

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| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|-----------|----------|---------------------------------|---|------|---|
| L65969-02 | WG519844 | 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. |
| | WG520642 | Chloride | SM4500CI-E | М3 | 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. |
| | WG520126 | Fluoride | SM4500F-C | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | WG519844 | Iron, 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. |
| | | Manganese, dissolved | M200.7 ICP | М3 | 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. |
| | WG519723 | Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | HE | Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions). |
| | | | M353.2 - 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, dissolved | M353.2 - Automated Cadmium Reduction | HE | Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions). |
| | | | M353.2 - 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). |
| | WG519844 | Sodium, dissolved | M200.7 ICP | BB | Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank. |
| | | | 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. |

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| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|-----------|----------|---------------------------------|--------------------------------------|------|---|
| L65969-03 | WG519844 | Calcium, dissolved | M200.7 ICP | М3 | 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. |
| | WG520642 | Chloride | SM4500CI-E | М3 | 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. |
| | WG519844 | Iron, 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. |
| | | Manganese, dissolved | M200.7 ICP | МЗ | 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. |
| | WG519723 | Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | HE | Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions). |
| | | | M353.2 - 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, dissolved | M353.2 - Automated Cadmium Reduction | HE | Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions). |
| | | | M353.2 - 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). |
| | WG519909 | Sodium, dissolved | M200.7 ICP | М3 | 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. |

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| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|-----------|----------|---------------------------------|---|------|---|
| L65969-04 | WG519844 | Calcium, dissolved | M200.7 ICP | М3 | 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. |
| | WG520642 | Chloride | SM4500CI-E | М3 | 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. |
| | WG519844 | Iron, dissolved | M200.7 ICP | М3 | 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. |
| | | Manganese, dissolved | M200.7 ICP | М3 | 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. |
| | WG519723 | Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | HE | Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions). |
| | | | M353.2 - 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, dissolved | M353.2 - Automated Cadmium Reduction | HE | Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions). |
| | | | M353.2 - 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). |
| | WG519844 | Sodium, dissolved | M200.7 ICP | BB | Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank. |
| | | | M200.7 ICP | М3 | 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. |

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Sample Receipt

GCC Rio Grande ACZ Project ID: L65969

Date Received: 05/21/2021 11:05

Received By:

Date Printed: 5/24/2021

Receipt Verification YES NO NA 1) Is a foreign soil permit included for applicable samples? Χ 2) Is the Chain of Custody form or other directive shipping papers present? Χ 3) Does this project require special handling procedures such as CLP protocol? Χ 4) Are any samples NRC licensable material? Χ 5) If samples are received past hold time, proceed with requested short hold time analyses? Х 6) Is the Chain of Custody form complete and accurate? Х 7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples? Χ A change was made in the Remarks section prior to ACZ custody. A change was made in the Remarks section prior to ACZ custody. A change was made in the Remarks section prior to ACZ custody.

A change was made in the Remarks section prior to ACZ custody.

A change was made in the Remarks section prior to ACZ custody.

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

NA indicates Not Applicable

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

| Cooler Id | Temp(°C) | Temp Criteria(°C) | Rad(μR/Hr) | Custody Seal Intact? |
|-----------|----------|----------------------|------------|-------------------------|
| | | | | |

Some parameters were received past hold time.

REPAD LPII 2012-03



Sample Receipt

GCC Rio Grande ACZ Project ID: L65969

Date Received: 05/21/2021 11:05

Received By:

Date Printed: 5/24/2021

NA35131 4.1 <=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.

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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), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

| = | ustody |
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| | in of C |
| | 969 Cha |
| | S S S |

| 2773 Downhill Drive Steambo Report to: Name: Greg Gannon Company: GCC Rio Gra | aboratories, Inc at Springs, CO 80487 (800) 33 | | 100 | - / (| · · | | :ΗΔΙ | N of | CHS | STO | עח |
|--|---|----------------------------------|---------------|-----------------|---------------------------|-----------------------------|------------------------------|----------------------|---------------|-------------|--------|
| Report to: Name: Greg Gannon | | 34-5493 | 50, | 70 | 7 | | 7117-51 | 14 01 | | | |
| | | | | | | | | | | | |
| Company: GCC Rio Gr | | T | Addre | ess: 3 | 372 | Lime I | Road. | Pueb | lo CC | 8100 |)4 |
| | ande Inc. | 1 | | | | | | | | | |
| E-mail: ggannon@gcc. | com | 7 | Teler | hone: | 406. | 285.4 | 977 | | | | |
| Copy of Report to: | | | | | | | | | | | |
| Name: Landon Beck | | 1 | F-ma | ii: lhe | ck@r | esour | cehvo | Ironeo | Modic | com | |
| Company: Resource Hy | drogeologic Co | _ | | | | 159.48 | | nogec | nogic. | | |
| Invoice to: | | | | | | | | | | | _ |
| Name: Greg Gannon | | Ţ | Addre | ess: 3 | 372 L | ime R | load, | Puebl | o CO | 8100 | 4 |
| Company: GCC Rio Gra | ande Inc. | | | | | | | - | | | |
| E-mail: ggannon@gcc.o | |] | | | | 285.49 | 977 | | | | |
| If sample(s) received past ho | Iding time (HT), or if insufficie | nt HT rei | mains t | o comp | lete | | | | YES | × | |
| arrarysis before expiration, sh f "NO" then ACZ will contact client for further | nall ACZ proceed with request instruction. If neither "YES" nor "NO" is indicated | ed short ted, ACZ will | HT and | alyses? | sted analy | rses, even if | HT is avel | red and dat | NO | lified | 1 |
| Are samples for SDWA Comp | liance Monitoring? | Ÿ. | Yes | | T T | No | × | Cu, and dat | a will be qua | illited | |
| | rms. Results will be reported | to PQL f | or Colo | rado. | _ | | | | | | |
| Sampler's Name: S. Less | , | | State_ | _Cc | <u> </u> | Zip co | de <u>31</u> | rer ² i | Time Z | one_/ | 17/N |
| Sampler's Signature: | tampering | o the authentic with the samp | ele in anyw | ay, is consid | ample. I ui ered fraud | iderstand th and punisha | at intention ble by State | ally mislabe Law. | ling the time | /date/locat | ion or |
| ROJECT INFORMATION | | | | ANA | YSES R | EQUESTE | D (attach | list or use | quote nu | mber) | |
| Quote #: GW-COMPLIAN | NCE SUITE | | S S | 6 | | | | | | | |
| PO#: N/A | | | of Containers | attached quote, | | | | İ | | | |
| Reporting state for compliance | | T same | မ် | pau | | | | - | | ·- · | L |
| Check box if samples include N SAMPLE IDENTIFICATIO | | | | attac | | | | | | | i |
| | N DATE:TIME | Matrix | # | P. H. | | | | ļ | | | |
| MW-6 MW-7 | 5/19/21 1057 | GW | 3 | × | | | | | | | |
| MW-8 | 5/19/21:12:30 | GW | 3 | × | ᆜ | | | | | | |
| IVIVV-O | 5/19/71 1253 | GW | 3 | × | <u> </u> | | Ц | Ш | | | |
| M/M/ 2D | | $G\omega$ | 3 | ! EYI i | | | | | 200 | | |
| MW-2B | 5/19/21-1245 | 1 1 | | × | | | Ш. | | | | |
| MW-2B | 07(4/2(1721) | | | | | | | | | | |
| MW-2B | 371472(17213 | | | | | | | | | | |
| MW-2B | 3/14/2012/2 | | | | | | | | | | |
| MW-2B | 13/14/2012/12/12 | | | | | | | | | | |
| MW-2B | 37(47-2(-12-12-12-12-12-12-12-12-12-12-12-12-12- | | | | | | | | | | |
| | GW (Ground Water) · WW (Waste V | | | | | | | | | | |

L65969-2106101222

September 20, 2021

Report to:

Grea Gannon GCC Rio Grande 3372 Lime Road Pueblo, CO 81004

cc: Landon Beck

Bill to:

Grea Gannon GCC Rio Grande 3372 Lime Road Pueblo, CO 81004

Project ID:

ACZ Project ID: L68204

Greg Gannon:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on September 02, 2021. This project has been assigned to ACZ's project number, L68204. 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 L68204. 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 September 20, 2022. 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.

Bill Lane has reviewed and

approved this report





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Project ID:

Sample ID: MW-6 ACZ Sample ID: L68204-01

Date Sampled: 08/31/21 13:30

Date Received: 09/02/21

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 | 09/10/21 17:59 | jlw |
| Arsenic, dissolved | M200.8 ICP-MS | 5 | <0.001 | U | | mg/L | 0.001 | 0.005 | 09/14/21 13:19 | mfm |
| Beryllium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 09/10/21 17:59 | jlw |
| Boron, dissolved | M200.7 ICP | 1 | 0.240 | | | mg/L | 0.03 | 0.1 | 09/10/21 17:59 | jlw |
| Cadmium, dissolved | M200.8 ICP-MS | 5 | <0.00025 | U | | mg/L | 0.00025 | 0.00125 | 09/14/21 13:19 | mfm |
| Calcium, dissolved | M200.7 ICP | 1 | 410 | | * | mg/L | 0.1 | 0.5 | 09/10/21 17:59 | jlw |
| Chromium, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 09/10/21 17:59 | jlw |
| Cobalt, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 09/10/21 17:59 | jlw |
| Copper, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 09/10/21 17:59 | jlw |
| Iron, dissolved | M200.7 ICP | 1 | <0.06 | U | | mg/L | 0.06 | 0.15 | 09/10/21 17:59 | jlw |
| Lead, dissolved | M200.8 ICP-MS | 5 | <0.0005 | U | | mg/L | 0.0005 | 0.0025 | 09/14/21 13:19 | mfm |
| Lithium, dissolved | M200.7 ICP | 1 | 0.491 | | | mg/L | 0.008 | 0.04 | 09/10/21 17:59 | jlw |
| Magnesium, dissolved | M200.7 ICP | 1 | 498 | | * | mg/L | 0.2 | 1 | 09/10/21 17:59 | jlw |
| Manganese, dissolved | M200.7 ICP | 1 | 0.279 | | | mg/L | 0.01 | 0.05 | 09/10/21 17:59 | jlw |
| Mercury, dissolved | M245.1 CVAA | 1 | < 0.0002 | U | | mg/L | 0.0002 | 0.001 | 09/08/21 14:19 | mlh |
| Nickel, dissolved | M200.7 ICP | 1 | 0.0845 | | | mg/L | 0.008 | 0.04 | 09/10/21 17:59 | jlw |
| Potassium, dissolved | M200.7 ICP | 1 | 11.2 | | | mg/L | 0.2 | 1 | 09/10/21 17:59 | jlw |
| Selenium, dissolved | M200.8 ICP-MS | 5 | 0.0148 | | | mg/L | 0.0005 | 0.00125 | 09/16/21 13:33 | mfm |
| Sodium, dissolved | M200.7 ICP | 1 | 575 | | * | mg/L | 0.2 | 1 | 09/10/21 17:59 | jlw |
| Vanadium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.025 | 09/10/21 17:59 | jlw |
| Zinc, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 09/10/21 17:59 | jlw |
| Wet Chemistry | | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
| Alkalinity as CaCO3 | SM2320B - Titration | Bilation | resuit | Quui | Λα | Omio | MDL | 1 0(= | Date | Allalyst |
| Bicarbonate as CaCO3 | | 1 | 459 | | | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Carbonate as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 09/11/21 0:00 | eep |
| Hydroxide as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Total Alkalinity | | 1 | 459 | O | * | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Chloride | SM4500CI-E | 1 | 74.3 | | | mg/L | 0.5 | 2 | 09/13/21 16:14 | md |
| Fluoride | SM4500F-C | 1 | 0.58 | | | mg/L | 0.15 | 0.35 | 09/15/21 17:22 | еер |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | ' | 4.20 | Н | | mg/L | 0.13 | 0.2 | 09/20/21 0:00 | calc |
| Nitrate/Nitrite as N, | M353.2 - Automated | 2 | 4.24 | н | * | mg/L | 0.04 | 0.2 | 09/03/21 1:57 | pjb |
| dissolved | Cadmium Reduction | 2 | 4.24 | | | IIIg/L | 0.04 | 0.2 | 09/03/21 1.37 | pju |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.038 | ВН | * | mg/L | 0.01 | 0.05 | 09/03/21 1:39 | pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 2 | 6100 | | | mg/L | 40 | 80 | 09/07/21 14:15 | jck |
| Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 100 | 3390 | | * | mg/L | 100 | 500 | 09/15/21 11:28 | wtc |

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^{*} Please refer to Qualifier Reports for details.



Project ID:

Sample ID: MW-7 ACZ Sample ID: L68204-02

Date Sampled: 08/31/21 12:20

Date Received: 09/02/21

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 | 09/10/21 18:03 | jlw |
| Arsenic, dissolved | M200.8 ICP-MS | 5 | <0.001 | U | | mg/L | 0.001 | 0.005 | 09/14/21 13:21 | mfm |
| Beryllium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 09/10/21 18:03 | jlw |
| Boron, dissolved | M200.7 ICP | 1 | 0.313 | | | mg/L | 0.03 | 0.1 | 09/10/21 18:03 | jlw |
| Cadmium, dissolved | M200.8 ICP-MS | 5 | <0.00025 | U | | mg/L | 0.00025 | 0.00125 | 09/14/21 13:21 | mfm |
| Calcium, dissolved | M200.7 ICP | 1 | 391 | | * | mg/L | 0.1 | 0.5 | 09/10/21 18:03 | jlw |
| Chromium, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 09/10/21 18:03 | jlw |
| Cobalt, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 09/10/21 18:03 | jlw |
| Copper, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 09/10/21 18:03 | jlw |
| Iron, dissolved | M200.7 ICP | 1 | <0.06 | U | | mg/L | 0.06 | 0.15 | 09/10/21 18:03 | jlw |
| Lead, dissolved | M200.8 ICP-MS | 5 | <0.0005 | U | | mg/L | 0.0005 | 0.0025 | 09/14/21 13:21 | mfm |
| Lithium, dissolved | M200.7 ICP | 1 | 0.521 | | | mg/L | 0.008 | 0.04 | 09/10/21 18:03 | jlw |
| Magnesium, dissolved | M200.7 ICP | 1 | 397 | | * | mg/L | 0.2 | 1 | 09/10/21 18:03 | jlw |
| Manganese, dissolved | M200.7 ICP | 1 | 0.067 | | | mg/L | 0.01 | 0.05 | 09/10/21 18:03 | jlw |
| Mercury, dissolved | M245.1 CVAA | 1 | <0.0002 | U | | mg/L | 0.0002 | 0.001 | 09/08/21 14:20 | mlh |
| Nickel, dissolved | M200.7 ICP | 1 | 0.0155 | В | | mg/L | 0.008 | 0.04 | 09/10/21 18:03 | jlw |
| Potassium, dissolved | M200.7 ICP | 1 | 10.8 | | | mg/L | 0.2 | 1 | 09/10/21 18:03 | jlw |
| Selenium, dissolved | M200.8 ICP-MS | 5 | 0.0115 | | | mg/L | 0.0005 | 0.00125 | 09/16/21 13:35 | mfm |
| Sodium, dissolved | M200.7 ICP | 1 | 666 | | * | mg/L | 0.2 | 1 | 09/10/21 18:03 | jlw |
| Vanadium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.025 | 09/10/21 18:03 | jlw |
| Zinc, dissolved | M200.7 ICP | 1 | <0.02 | U | | mg/L | 0.02 | 0.05 | 09/10/21 18:03 | jlw |
| Wet Chemistry | | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
| Alkalinity as CaCO3 | SM2320B - Titration | | | | | | | | | |
| Bicarbonate as CaCO3 | | 1 | 467 | | | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Carbonate as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Hydroxide as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Total Alkalinity | | 1 | 467 | | | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Chloride | SM4500CI-E | 1 | 95.5 | | | mg/L | 0.5 | 2 | 09/13/21 16:14 | md |
| Fluoride | SM4500F-C | 1 | 0.52 | | | mg/L | 0.15 | 0.35 | 09/15/21 17:30 | еер |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | 0.91 | Н | | mg/L | 0.02 | 0.1 | 09/20/21 0:00 | calc |
| Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.907 | Н | * | mg/L | 0.02 | 0.1 | 09/03/21 1:40 | pjb |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | <0.01 | UH | * | mg/L | 0.01 | 0.05 | 09/03/21 1:40 | pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 2 | 5790 | | | mg/L | 40 | 80 | 09/07/21 14:17 | jck |
| Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 100 | 3360 | | * | mg/L | 100 | 500 | 09/15/21 11:08 | wtc |

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^{*} Please refer to Qualifier Reports for details.



Project ID:

Sample ID: MW-8 ACZ Sample ID: L68204-03

Date Sampled: 08/31/21 13:00

Date Received: 09/02/21 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 | 09/10/21 18:06 | jlw |
| Arsenic, dissolved | M200.8 ICP-MS | 5 | 0.00124 | В | | mg/L | 0.001 | 0.005 | 09/14/21 13:23 | mfm |
| Beryllium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 09/10/21 18:06 | jlw |
| Boron, dissolved | M200.7 ICP | 1 | 0.784 | | | mg/L | 0.03 | 0.1 | 09/10/21 18:06 | jlw |
| Cadmium, dissolved | M200.8 ICP-MS | 5 | <0.00025 | U | | mg/L | 0.00025 | 0.00125 | 09/14/21 13:23 | mfm |
| Calcium, dissolved | M200.7 ICP | 1 | 111 | | * | mg/L | 0.1 | 0.5 | 09/10/21 18:06 | jlw |
| Chromium, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 09/10/21 18:06 | jlw |
| Cobalt, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 09/10/21 18:06 | jlw |
| Copper, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 09/10/21 18:06 | jlw |
| Iron, dissolved | M200.7 ICP | 1 | <0.06 | U | | mg/L | 0.06 | 0.15 | 09/10/21 18:06 | jlw |
| Lead, dissolved | M200.8 ICP-MS | 5 | <0.0005 | U | | mg/L | 0.0005 | 0.0025 | 09/14/21 13:23 | mfm |
| Lithium, dissolved | M200.7 ICP | 1 | 0.383 | | | mg/L | 0.008 | 0.04 | 09/10/21 18:06 | jlw |
| Magnesium, dissolved | M200.7 ICP | 1 | 38.5 | | * | mg/L | 0.2 | 1 | 09/10/21 18:06 | jlw |
| Manganese, dissolved | M200.7 ICP | 1 | 0.319 | | | mg/L | 0.01 | 0.05 | 09/10/21 18:06 | jlw |
| Mercury, dissolved | M245.1 CVAA | 1 | <0.0002 | U | | mg/L | 0.0002 | 0.001 | 09/08/21 14:21 | mlh |
| Nickel, dissolved | M200.7 ICP | 1 | <0.008 | U | | mg/L | 0.008 | 0.04 | 09/10/21 18:06 | jlw |
| Potassium, dissolved | M200.7 ICP | 1 | 5.93 | | | mg/L | 0.2 | 1 | 09/10/21 18:06 | jlw |
| Selenium, dissolved | M200.8 ICP-MS | 5 | < 0.0005 | U | | mg/L | 0.0005 | 0.00125 | 09/16/21 13:36 | mfm |
| Sodium, dissolved | M200.7 ICP | 5 | 1300 | | | mg/L | 1 | 5 | 09/14/21 16:42 | jlw |
| Vanadium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.025 | 09/10/21 18:06 | jlw |
| Zinc, dissolved | M200.7 ICP | 1 | <0.02 | U | | mg/L | 0.02 | 0.05 | 09/10/21 18:06 | jlw |
| Wet Chemistry | | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
| Alkalinity as CaCO3 | SM2320B - Titration | | | | | | | | | , , |
| Bicarbonate as CaCO3 | | 1 | 1080 | | | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Carbonate as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Hydroxide as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Total Alkalinity | | 1 | 1080 | | | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Chloride | SM4500CI-E | 5 | 272 | | | mg/L | 2.5 | 10 | 09/13/21 16:47 | md |
| Fluoride | SM4500F-C | 1 | 1.00 | | | mg/L | 0.15 | 0.35 | 09/15/21 17:38 | еер |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | < 0.02 | UH | | mg/L | 0.02 | 0.1 | 09/20/21 0:00 | calc |
| Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.022 | ВН | * | mg/L | 0.02 | 0.1 | 09/03/21 1:42 | pjb |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.014 | ВН | * | mg/L | 0.01 | 0.05 | 09/03/21 1:42 | pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 2 | 4250 | | | mg/L | 40 | 80 | 09/07/21 14:20 | jck |
| Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 60 | 1820 | | * | mg/L | 60 | 300 | 09/15/21 11:09 | wtc |

REPIN.02.06.05.01

^{*} Please refer to Qualifier Reports for details.



Project ID:

Sample ID: MW-2B ACZ Sample ID: L68204-04

Date Sampled: 08/31/21 12:35

Date Received: 09/02/21

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 | 09/10/21 18:09 | jlw |
| Arsenic, dissolved | M200.8 ICP-MS | 5 | <0.001 | U | | mg/L | 0.001 | 0.005 | 09/14/21 13:24 | mfm |
| Beryllium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 09/10/21 18:09 | jlw |
| Boron, dissolved | M200.7 ICP | 1 | 0.309 | | | mg/L | 0.03 | 0.1 | 09/10/21 18:09 | jlw |
| Cadmium, dissolved | M200.8 ICP-MS | 5 | <0.00025 | U | | mg/L | 0.00025 | 0.00125 | 09/14/21 13:24 | mfm |
| Calcium, dissolved | M200.7 ICP | 1 | 390 | | * | mg/L | 0.1 | 0.5 | 09/10/21 18:09 | jlw |
| Chromium, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 09/10/21 18:09 | jlw |
| Cobalt, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 09/10/21 18:09 | jlw |
| Copper, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 09/10/21 18:09 | jlw |
| Iron, dissolved | M200.7 ICP | 1 | <0.06 | U | | mg/L | 0.06 | 0.15 | 09/10/21 18:09 | jlw |
| Lead, dissolved | M200.8 ICP-MS | 5 | <0.0005 | U | | mg/L | 0.0005 | 0.0025 | 09/14/21 13:24 | mfm |
| Lithium, dissolved | M200.7 ICP | 1 | 0.520 | | | mg/L | 0.008 | 0.04 | 09/10/21 18:09 | jlw |
| Magnesium, dissolved | M200.7 ICP | 1 | 396 | | * | mg/L | 0.2 | 1 | 09/10/21 18:09 | jlw |
| Manganese, dissolved | M200.7 ICP | 1 | 0.066 | | | mg/L | 0.01 | 0.05 | 09/10/21 18:09 | jlw |
| Mercury, dissolved | M245.1 CVAA | 1 | <0.0002 | U | | mg/L | 0.0002 | 0.001 | 09/08/21 14:26 | mlh |
| Nickel, dissolved | M200.7 ICP | 1 | 0.0170 | В | | mg/L | 0.008 | 0.04 | 09/10/21 18:09 | jlw |
| Potassium, dissolved | M200.7 ICP | 1 | 10.9 | | | mg/L | 0.2 | 1 | 09/10/21 18:09 | jlw |
| Selenium, dissolved | M200.8 ICP-MS | 5 | 0.0109 | | | mg/L | 0.0005 | 0.00125 | 09/16/21 13:42 | mfm |
| Sodium, dissolved | M200.7 ICP | 1 | 661 | | * | mg/L | 0.2 | 1 | 09/10/21 18:09 | jlw |
| Vanadium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.025 | 09/10/21 18:09 | jlw |
| Zinc, dissolved | M200.7 ICP | 1 | <0.02 | U | | mg/L | 0.02 | 0.05 | 09/10/21 18:09 | jlw |
| Wet Chemistry | | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
| Alkalinity as CaCO3 | SM2320B - Titration | | | | | | | | | , , |
| Bicarbonate as CaCO3 | | 1 | 464 | | | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Carbonate as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Hydroxide as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Total Alkalinity | | 1 | 464 | | * | mg/L | 2 | 20 | 09/11/21 0:00 | еер |
| Chloride | SM4500CI-E | 5 | 109 | | * | mg/L | 2.5 | 10 | 09/13/21 16:47 | md |
| Fluoride | SM4500F-C | 1 | 0.53 | | | mg/L | 0.15 | 0.35 | 09/15/21 17:46 | еер |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | 0.91 | Н | | mg/L | 0.02 | 0.1 | 09/20/21 0:00 | calc |
| Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.907 | Н | * | mg/L | 0.02 | 0.1 | 09/03/21 1:50 | pjb |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | <0.01 | UH | * | mg/L | 0.01 | 0.05 | 09/03/21 1:50 | pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 2 | 5760 | | | mg/L | 40 | 80 | 09/07/21 14:23 | jck |
| Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 120 | 3480 | | * | mg/L | 120 | 600 | 09/15/21 11:09 | wtc |

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^{*} Please refer to Qualifier Reports for details.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

| Report Header Explanations | Report | Header | Expl | anations |
|----------------------------|--------|--------|------|----------|
|----------------------------|--------|--------|------|----------|

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest

Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5).

Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit. Synonymous with the EPA term "minimum level".

QC True Value of the Control Sample or the amount added to the Spike

Rec Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

| $-\alpha c$ | Sam | nlo ' | Lynne |
|-------------|-------|-------|-------|
| QU. | Jaili | DIE | Types |

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

 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

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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 CaC | O3 | | SM2320 | B - Titration | | | | | | | | | |
|-------------------|------|-----------------|------------|---------------|--------|------------|-------|------|--------------|---------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526961 | | | | | | | | | | | | | |
| WG526961PBW1 | PBW | 09/10/21 20:17 | | | | 2.6 | mg/L | | -20 | 20 | | | |
| WG526961LCSW3 | LCSW | 09/10/21 20:34 | WC210908-1 | 820.0001 | | 784.1 | mg/L | 96 | 90 | 110 | | | |
| WG526961LCSW6 | LCSW | 09/10/21 23:25 | WC210908-1 | 820.0001 | | 793 | mg/L | 97 | 90 | 110 | | | |
| WG526961PBW2 | PBW | 09/10/21 23:32 | | | | U | mg/L | | -20 | 20 | | | |
| L68204-03DUP | DUP | 09/11/21 1:14 | | | 1080 | 1078.7 | mg/L | | | | 0 | 20 | |
| L68219-08DUP | DUP | 09/11/21 2:40 | | | U | U | mg/L | | | | 0 | 20 | RA |
| WG526961LCSW9 | LCSW | 09/11/21 2:57 | WC210908-1 | 820.0001 | | 794 | mg/L | 97 | 90 | 110 | | | |
| WG526961PBW3 | PBW | 09/11/21 3:05 | | | | U | mg/L | | -20 | 20 | | | |
| WG526961LCSW12 | LCSW | 09/11/21 6:26 | WC210908-1 | 820.0001 | | 815.1 | mg/L | 99 | 90 | 110 | | | |
| WG526961PBW4 | PBW | 09/11/21 6:34 | | | | U | mg/L | | -20 | 20 | | | |
| WG526961LCSW15 | LCSW | 09/11/21 10:35 | WC210908-1 | 820.0001 | | 811.4 | mg/L | 99 | 90 | 110 | | | |
| Aluminum, disso | lved | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526939 | · · | • | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 2 | | 2.016 | mg/L | 101 | 95 | 105 | | | |
| | | 09/10/21 16:41 | 11210020-1 | 2 | | 2.016 U | | 101 | | 105 | | | |
| WG526939ICB | ICB | | II210901-4 | 250225 | | | mg/L | 100 | -0.15 -70 | 0.15 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | | .250325 | | .25 | mg/L | 100 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | 200.410325 | | 205.3 | mg/L | 102 | 1 | 200 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | 1.0008 | | 1.02 | mg/L | 102 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 1 | | 1.003 | mg/L | 100 | 90 | 110 | | | |
| WG526939CCB1 | CCB | 09/10/21 17:36 | | | | U | mg/L | | -0.15 | 0.15 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 1 | | .993 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB2 | CCB | 09/10/21 18:16 | | 4 0000 | | U | mg/L | 400 | -0.15 | 0.15 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | 1.0008 | U | 1.081 | mg/L | 108 | 85 | 115 | | | |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | 1.0008 | U | 1.079 | mg/L | 108 | 85 | 115 | 0 | 20 | |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 1 | | .994 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB3 | ССВ | 09/10/21 18:39 | | | | U | mg/L | | -0.15 | 0.15 | | | |
| Arsenic, dissolve | ed | | M200.8 | ICP-MS | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG527157 | | | | | | | | | | | | | |
| WG527157ICV | ICV | 09/14/21 13:14 | MS210727-2 | .05 | | .05016 | mg/L | 100 | 90 | 110 | | | |
| WG527157ICB | ICB | 09/14/21 13:15 | | | | U | mg/L | | -0.00044 | 0.00044 | | | |
| WG527157LFB | LFB | 09/14/21 13:17 | MS210827-2 | .05005 | | .05058 | mg/L | 101 | 85 | 115 | | | |
| L68208-01AS | AS | 09/14/21 13:28 | MS210827-2 | .05005 | .00085 | .05481 | mg/L | 108 | 70 | 130 | | | |
| L68208-01ASD | ASD | 09/14/21 13:30 | MS210827-2 | .05005 | .00085 | .0536 | mg/L | 105 | 70 | 130 | 2 | 20 | |
| WG527157CCV1 | CCV | 09/14/21 13:35 | MS210909-2 | .1001 | | .0959 | mg/L | 96 | 90 | 110 | | | |
| WG527157CCB1 | ССВ | 09/14/21 13:37 | | | | U | mg/L | | -0.0006 | 0.0006 | | | |
| WG527157CCV2 | CCV | 09/14/21 13:57 | MS210909-2 | .1001 | | .10011 | mg/L | 100 | 90 | 110 | | | |
| WG527157CCB2 | ССВ | 09/14/21 13:59 | | | | U | mg/L | | -0.0006 | 0.0006 | | | |
| WG527157CCV3 | CCV | 09/14/21 14:10 | MS210909-2 | .1001 | | .09949 | mg/L | 99 | 90 | 110 | | | |
| | CCB | - 5,, _ 1 11.10 | | | | .00010 | .5. = | 50 | | | | | |

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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, disso | lved | | M200.7 I | СР | | | | | | | | | |
|------------------|------|----------------|------------|--------|---------|---------|-------|------|----------|---------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 2 | | 1.965 | mg/L | 98 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | .05 | | .052 | mg/L | 104 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | .1 | | .099 | mg/L | 99 | 80 | 120 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | .5005 | | .495 | mg/L | 99 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 1 | | .991 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB1 | CCB | 09/10/21 17:36 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 1 | | .984 | mg/L | 98 | 90 | 110 | | | |
| WG526939CCB2 | CCB | 09/10/21 18:16 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | .5005 | U | .474 | mg/L | 95 | 85 | 115 | | | |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | .5005 | U | .472 | mg/L | 94 | 85 | 115 | 0 | 20 | |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 1 | | .986 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB3 | CCB | 09/10/21 18:39 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| Boron, dissolve | d | | M200.7 I | СР | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 2 | | 1.99 | mg/L | 100 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.09 | 0.09 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | .1001 | | .1 | mg/L | 100 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | .1001 | | .092 | mg/L | 92 | 80 | 120 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | .5005 | | .498 | mg/L | 100 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 1 | | .99 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB1 | CCB | 09/10/21 17:36 | | | | U | mg/L | | -0.09 | 0.09 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 1 | | .987 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB2 | CCB | 09/10/21 18:16 | | | | U | mg/L | | -0.09 | 0.09 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | .5005 | .309 | .806 | mg/L | 99 | 85 | 115 | | | |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | .5005 | .309 | .805 | mg/L | 99 | 85 | 115 | 0 | 20 | |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 1 | | .986 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB3 | CCB | 09/10/21 18:39 | | | | U | mg/L | | -0.09 | 0.09 | | | |
| Cadmium, disso | lved | | M200.8 I | CP-MS | | | | | | | | | |
| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG527157 | | | | | | | | | | | | | |
| WG527157ICV | ICV | 09/14/21 13:14 | MS210727-2 | .05 | | .050184 | mg/L | 100 | 90 | 110 | | | |
| WG527157ICB | ICB | 09/14/21 13:15 | | | | U | mg/L | | -0.00011 | 0.00011 | | | |
| WG527157LFB | LFB | 09/14/21 13:17 | MS210827-2 | .05005 | | .048698 | mg/L | 97 | 85 | 115 | | | |
| L68208-01AS | AS | 09/14/21 13:28 | MS210827-2 | .05005 | .000744 | .052514 | mg/L | 103 | 70 | 130 | | | |
| L68208-01ASD | ASD | 09/14/21 13:30 | MS210827-2 | .05005 | .000744 | .051068 | mg/L | 101 | 70 | 130 | 3 | 20 | |
| WG527157CCV1 | CCV | 09/14/21 13:35 | MS210909-2 | .1001 | | .094361 | mg/L | 94 | 90 | 110 | | | |
| WG527157CCB1 | CCB | 09/14/21 13:37 | | | | U | mg/L | | -0.00015 | 0.00015 | | | |
| WG527157CCV2 | CCV | 09/14/21 13:57 | MS210909-2 | .1001 | | .096508 | mg/L | 96 | 90 | 110 | | | |
| WG527157CCB2 | CCB | 09/14/21 13:59 | | | | U | mg/L | | -0.00015 | 0.00015 | | | |
| WG527157CCV3 | CCV | 09/14/21 14:10 | MS210909-2 | .1001 | | .096185 | mg/L | 96 | 90 | 110 | | | |
| WG527157CCB3 | CCB | 09/14/21 14:12 | | | | U | mg/L | | -0.00015 | 0.00015 | | | |

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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 |
|--------------------|------------|
|--------------------|------------|

WG527058CCV8 CCV 09/13/21 17:00 WI210203-7

CCB 09/13/21 17:01

WG527058CCB8

| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|----------------|------------|-----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 100 | | 97.85 | mg/L | 98 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | .50015 | | .53 | mg/L | 106 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | 200.56015 | | 193.5 | mg/L | 96 | 1 | 200 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | 67.98972 | | 67.13 | mg/L | 99 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 50 | | 49.31 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB1 | CCB | 09/10/21 17:36 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 50 | | 49.43 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB2 | CCB | 09/10/21 18:16 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | 67.98972 | 390 | 442.2 | mg/L | 77 | 85 | 115 | | | M3 |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | 67.98972 | 390 | 436.7 | mg/L | 69 | 85 | 115 | 1 | 20 | M3 |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 50 | | 49.28 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB3 | CCB | 09/10/21 18:39 | | | | U | mg/L | | -0.3 | 0.3 | | | |

| Chloride | | | SM4500C | I-E | | | | | | | | | |
|--------------|------|----------------|-------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG527058 | | | | | | | | | | | | | |
| WG527058ICV | ICV | 09/13/21 16:07 | WI210503-1 | 54.89 | | 54.85 | mg/L | 100 | 90 | 110 | | | |
| WG527058ICB | ICB | 09/13/21 16:07 | | | | .65 | mg/L | | -1.5 | 1.5 | | | |
| WG527058LFB1 | LFB | 09/13/21 16:08 | WI210908-11 | 29.97 | | 31.14 | mg/L | 104 | 90 | 110 | | | |
| L68200-05AS | AS | 09/13/21 16:09 | WI210908-11 | 29.97 | 16.7 | 46.54 | mg/L | 100 | 90 | 110 | | | |
| L68200-06DUP | DUP | 09/13/21 16:10 | | | 17.1 | 16.83 | mg/L | | | | 2 | 20 | |
| WG527058CCV1 | CCV | 09/13/21 16:13 | WI210203-7 | 50.05 | | 50.5 | mg/L | 101 | 90 | 110 | | | |
| WG527058CCB1 | CCB | 09/13/21 16:13 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| L68208-01DUP | DUP | 09/13/21 16:17 | | | .82 | .66 | mg/L | | | | 22 | 20 | RA |
| WG527058CCV2 | CCV | 09/13/21 16:19 | WI210203-7 | 50.05 | | 50.22 | mg/L | 100 | 90 | 110 | | | |
| WG527058CCB2 | CCB | 09/13/21 16:20 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| WG527058LFB2 | LFB | 09/13/21 16:23 | WI210908-11 | 29.97 | | 30.3 | mg/L | 101 | 90 | 110 | | | |
| WG527058CCV3 | CCV | 09/13/21 16:25 | WI210203-7 | 50.05 | | 50.31 | mg/L | 101 | 90 | 110 | | | |
| WG527058CCB3 | CCB | 09/13/21 16:26 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| WG527058CCV4 | CCV | 09/13/21 16:30 | WI210203-7 | 50.05 | | 51.66 | mg/L | 103 | 90 | 110 | | | |
| WG527058CCB4 | CCB | 09/13/21 16:30 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| WG527058CCV5 | CCV | 09/13/21 16:45 | WI210203-7 | 50.05 | | 51.46 | mg/L | 103 | 90 | 110 | | | |
| WG527058CCB5 | CCB | 09/13/21 16:46 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| WG527058CCV6 | CCV | 09/13/21 16:48 | WI210203-7 | 50.05 | | 51.81 | mg/L | 104 | 90 | 110 | | | |
| WG527058CCB6 | CCB | 09/13/21 16:48 | | | | .51 | mg/L | | -1.5 | 1.5 | | | |
| WG527058CCV7 | CCV | 09/13/21 16:59 | WI210203-7 | 50.05 | | 50.55 | mg/L | 101 | 90 | 110 | | | |
| WG527058CCB7 | CCB | 09/13/21 16:59 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| L68204-04AS | AS | 09/13/21 17:00 | 5XCL | 30 | 109 | 133.4 | mg/L | 81 | 90 | 110 | | | M2 |

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52.36

.52

mg/L

mg/L

105

90

-1.5

110

1.5

50.05

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.

| limits are in % R | Rec. | | | | | | | | | | | | |
|-------------------|-------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| Chromium, diss | olved | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 2 | | 1.974 | mg/L | 99 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | .0502 | | .047 | mg/L | 94 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | .1004 | | .081 | mg/L | 81 | 80 | 120 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | .5005 | | .494 | mg/L | 99 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 1 | | .993 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB1 | ССВ | 09/10/21 17:36 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 1 | | .994 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB2 | CCB | 09/10/21 18:16 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | .5005 | U | .488 | mg/L | 98 | 85 | 115 | | | |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | .5005 | U | .488 | mg/L | 98 | 85 | 115 | 0 | 20 | |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 1 | | .991 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB3 | ССВ | 09/10/21 18:39 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| Cobalt, dissolve | ed | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 2.01 | | 1.959 | mg/L | 97 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | .05005 | | .049 | mg/L | 98 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | .1001 | | .091 | mg/L | 91 | 80 | 120 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | .5005 | | .482 | mg/L | 96 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 1.005 | | .995 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB1 | ССВ | 09/10/21 17:36 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 1.005 | | .991 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB2 | CCB | 09/10/21 18:16 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | .5005 | U | .472 | mg/L | 94 | 85 | 115 | | | |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | .5005 | U | .473 | mg/L | 95 | 85 | 115 | 0 | 20 | |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 1.005 | | .991 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB3 | CCB | 09/10/21 18:39 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| Copper, dissolv | ed | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 2 | | 1.952 | mg/L | 98 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | .05 | | .05 | mg/L | 100 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | .1 | | .101 | mg/L | 101 | 80 | 120 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | .5 | | .496 | mg/L | 99 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 1 | | .975 | mg/L | 98 | 90 | 110 | | | |
| WG526939CCB1 | ССВ | 09/10/21 17:36 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 1 | | .971 | mg/L | 97 | 90 | 110 | | | |
| WG526939CCB2 | ССВ | 09/10/21 18:16 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | .5 | U | .5 | mg/L | 100 | 85 | 115 | | | |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | .5 | U | .501 | mg/L | 100 | 85 | 115 | 0 | 20 | |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 1 | | .971 | mg/L | 97 | 90 | 110 | | | |
| WG526939CCB3 | CCB | 09/10/21 18:39 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| - | | | | | | | | | | | | | |

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WG526939CCB3

CCB

09/10/21 18:39

GCC Rio Grande ACZ Project ID: L68204

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 | | | SM4500 | F-C | | | | | | | | | |
|-----------------|------|----------------|------------|------------|--------|-------|-------|------|-------|-------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG527249 | | | | | | | | | | | | | |
| WG527249ICV | ICV | 09/15/21 15:35 | WC210903-1 | 2.002 | | 2.04 | mg/L | 102 | 90 | 110 | | | |
| WG527249ICB | ICB | 09/15/21 15:40 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG527249PQV | PQV | 09/15/21 15:44 | WC210803-3 | .3514 | | .36 | mg/L | 102 | 70 | 130 | | | |
| WG527249LFB1 | LFB | 09/15/21 15:47 | WC210803-9 | 5.02 | | 4.74 | mg/L | 94 | 90 | 110 | | | |
| L68077-04AS | AS | 09/15/21 16:23 | WC210803-9 | 5.02 | U | 4.55 | mg/L | 91 | 90 | 110 | | | |
| L68077-04ASD | ASD | 09/15/21 16:31 | WC210803-9 | 5.02 | U | 4.59 | mg/L | 91 | 90 | 110 | 1 | 20 | |
| WG527249CCV1 | CCV | 09/15/21 16:58 | WC210903-1 | 2.002 | | 2.09 | mg/L | 104 | 90 | 110 | | | |
| WG527249CCB1 | ССВ | 09/15/21 17:06 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG527249CCV2 | CCV | 09/15/21 18:56 | WC210903-1 | 2.002 | | 2.11 | mg/L | 105 | 90 | 110 | | | |
| WG527249CCB2 | CCB | 09/15/21 19:04 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| L68221-01AS | AS | 09/15/21 19:20 | WC210803-9 | 5.02 | .31 | 5.19 | mg/L | 97 | 90 | 110 | | | |
| L68221-01ASD | ASD | 09/15/21 19:28 | WC210803-9 | 5.02 | .31 | 5.21 | mg/L | 98 | 90 | 110 | 0 | 20 | |
| WG527249LFB2 | LFB | 09/15/21 19:56 | WC210803-9 | 5.02 | | 4.76 | mg/L | 95 | 90 | 110 | | | |
| WG527249CCV3 | CCV | 09/15/21 20:30 | WC210903-1 | 2.002 | | 2.11 | mg/L | 105 | 90 | 110 | | | |
| WG527249CCB3 | CCB | 09/15/21 20:38 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG527249CCV4 | CCV | 09/15/21 22:13 | WC210903-1 | 2.002 | | 2.13 | mg/L | 106 | 90 | 110 | | | |
| WG527249CCB4 | CCB | 09/15/21 22:21 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG527249CCV5 | CCV | 09/15/21 23:40 | WC210903-1 | 2.002 | | 2.11 | mg/L | 105 | 90 | 110 | | | |
| WG527249CCB5 | CCB | 09/15/21 23:48 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| Iron, dissolved | | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 2 | | 1.977 | mg/L | 99 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.18 | 0.18 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | .150015 | | .149 | mg/L | 99 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | 200.170015 | | 192.5 | mg/L | 96 | 1 | 200 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | 1.0001 | | 1.017 | mg/L | 102 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 1 | | 1.005 | mg/L | 101 | 90 | 110 | | | |
| WG526939CCB1 | CCB | 09/10/21 17:36 | | | | U | mg/L | | -0.18 | 0.18 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 1 | | 1.004 | mg/L | 100 | 90 | 110 | | | |
| WG526939CCB2 | CCB | 09/10/21 18:16 | | | | U | mg/L | | -0.18 | 0.18 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | 1.0001 | U | 1.017 | mg/L | 102 | 85 | 115 | | | |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | 1.0001 | U | 1.022 | mg/L | 102 | 85 | 115 | 0 | 20 | |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 1 | | .995 | mg/L | 100 | 90 | 110 | | | |

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U

mg/L

-0.18

0.18

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 | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG527157 | | | | | | | | | | | | | |
| WG527157ICV | ICV | 09/14/21 13:14 | MS210727-2 | .05 | | .05138 | mg/L | 103 | 90 | 110 | | | |
| WG527157ICB | ICB | 09/14/21 13:15 | | .00 | | U | mg/L | .00 | -0.00022 | 0.00022 | | | |
| WG527157LFB | LFB | 09/14/21 13:17 | MS210827-2 | .05005 | | .04997 | mg/L | 100 | 85 | 115 | | | |
| L68208-01AS | AS | 09/14/21 13:28 | MS210827-2 | .05005 | .00048 | .05219 | mg/L | 103 | 70 | 130 | | | |
| L68208-01ASD | ASD | 09/14/21 13:30 | MS210827-2 | .05005 | .00048 | .05122 | mg/L | 101 | 70 | 130 | 2 | 20 | |
| WG527157CCV1 | CCV | 09/14/21 13:35 | MS210909-2 | .25025 | | .23798 | mg/L | 95 | 90 | 110 | | | |
| WG527157CCB1 | ССВ | 09/14/21 13:37 | | | | U | mg/L | | -0.0003 | 0.0003 | | | |
| WG527157CCV2 | CCV | 09/14/21 13:57 | MS210909-2 | .25025 | | .24182 | mg/L | 97 | 90 | 110 | | | |
| WG527157CCB2 | ССВ | 09/14/21 13:59 | | | | .00012 | mg/L | | -0.0003 | 0.0003 | | | |
| WG527157CCV3 | CCV | 09/14/21 14:10 | MS210909-2 | .25025 | | .23909 | mg/L | 96 | 90 | 110 | | | |
| WG527157CCB3 | ССВ | 09/14/21 14:12 | | | | .00012 | mg/L | | -0.0003 | 0.0003 | | | |
| Lithium, dissolv | ed | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 2 | | 1.9772 | mg/L | 99 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | .03996 | | .0391 | mg/L | 98 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | .0999 | | .0995 | mg/L | 100 | 80 | 120 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | .999 | | .9742 | mg/L | 98 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 1 | | .9821 | mg/L | 98 | 90 | 110 | | | |
| WG526939CCB1 | CCB | 09/10/21 17:36 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 1 | | .9754 | mg/L | 98 | 90 | 110 | | | |
| WG526939CCB2 | CCB | 09/10/21 18:16 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | .999 | .52 | 1.508 | mg/L | 99 | 85 | 115 | | | |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | .999 | .52 | 1.514 | mg/L | 99 | 85 | 115 | 0 | 20 | |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 1 | | .9797 | mg/L | 98 | 90 | 110 | | | |
| WG526939CCB3 | CCB | 09/10/21 18:39 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| Magnesium, diss | solved | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 100 | | 95.67 | mg/L | 96 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | 1.0001 | | 1.05 | mg/L | 105 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | 201.0201 | | 199.7 | mg/L | 99 | 1 | 200 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | 49.99828 | | 47.68 | mg/L | 95 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 50 | | 47.93 | mg/L | 96 | 90 | 110 | | | |
| WG526939CCB1 | CCB | 09/10/21 17:36 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 50 | | 48.34 | mg/L | 97 | 90 | 110 | | | |
| WG526939CCB2 | CCB | 09/10/21 18:16 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | 49.99828 | 396 | 434.1 | mg/L | 76 | 85 | 115 | | | M3 |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | 49.99828 | 396 | 429.2 | mg/L | 66 | 85 | 115 | 1 | 20 | M3 |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 50 | | 48.04 | mg/L | 96 | 90 | 110 | | | |
| WG526939CCB3 | ССВ | 09/10/21 18:39 | | | | U | mg/L | | -0.6 | 0.6 | | | |

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WG526731CCB4

CCB 09/08/21 14:41

GCC Rio Grande ACZ Project ID: L68204

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.

| IIIIIIIS are III 70 K | | | | | | | | | | | | | |
|-----------------------|--------|----------------|------------|----------|--------|--------|-------|------|----------|---------|-----|-------|------|
| Manganese, dis | solved | | M200.7 I | ICP | | | | | | | | | |
| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 2 | | 1.951 | mg/L | 98 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | .05005 | | .049 | mg/L | 98 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | 50.10005 | | 46.79 | mg/L | 93 | 1 | 200 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | .5005 | | .498 | mg/L | 100 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 1 | | .988 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB1 | CCB | 09/10/21 17:36 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 1 | | .985 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB2 | CCB | 09/10/21 18:16 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | .5005 | .066 | .555 | mg/L | 98 | 85 | 115 | | | |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | .5005 | .066 | .552 | mg/L | 97 | 85 | 115 | 1 | 20 | |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 1 | | .984 | mg/L | 98 | 90 | 110 | | | |
| WG526939CCB3 | CCB | 09/10/21 18:39 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| Mercury, dissolv | ved | | M245.1 | CVAA | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526711 | | | | | | | | | | | | | |
| WG526711ICV | ICV | 09/08/21 11:29 | HG210830-3 | .00501 | | .00497 | mg/L | 99 | 95 | 105 | | | |
| WG526711ICB | ICB | 09/08/21 11:30 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| WG526731 | | | | | | | | | | | | | |
| WG526731CCV1 | CCV | 09/08/21 14:11 | HG210830-3 | .00501 | | .00525 | mg/L | 105 | 90 | 110 | | | |
| WG526731CCB1 | ССВ | 09/08/21 14:12 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| WG526731PQV | PQV | 09/08/21 14:13 | HG210830-8 | .001001 | | .00085 | mg/L | 85 | 70 | 130 | | | |
| WG526731LRB | LRB | 09/08/21 14:14 | | | | U | mg/L | | -0.00044 | 0.00044 | | | |
| WG526731LFB | LFB | 09/08/21 14:15 | HG210830-6 | .002002 | | .00179 | mg/L | 89 | 85 | 115 | | | |
| L68204-03LFM | LFM | 09/08/21 14:22 | HG210830-6 | .002002 | U | .00183 | mg/L | 91 | 85 | 115 | | | |
| WG526731CCV2 | CCV | 09/08/21 14:23 | HG210830-3 | .00501 | | .00499 | mg/L | 100 | 90 | 110 | | | |
| WG526731CCB2 | CCB | 09/08/21 14:24 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| L68204-03LFMD | LFMD | 09/08/21 14:25 | HG210830-6 | .002002 | U | .00184 | mg/L | 92 | 85 | 115 | 1 | 20 | |
| WG526731CCV3 | CCV | 09/08/21 14:34 | HG210830-3 | .00501 | | .00497 | mg/L | 99 | 90 | 110 | | | |
| WG526731CCB3 | CCB | 09/08/21 14:35 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| WG526731CCV4 | CCV | 09/08/21 14:40 | HG210830-3 | .00501 | | .00498 | mg/L | 99 | 90 | 110 | | | |

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mg/L

U

-0.0002

0.0002

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 UISSOIVEU IVIZUU./ ICF | Nickel. | . dissolved | M200.7 ICP |
|-------------------------------|---------|-------------|------------|
|-------------------------------|---------|-------------|------------|

| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|----------------|------------|-----|--------|--------|-------|------|--------|-------|-----|-------|------|
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 2 | | 1.9758 | mg/L | 99 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | .04 | | .04 | mg/L | 100 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | .1 | | .0943 | mg/L | 94 | 80 | 120 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | .5 | | .4933 | mg/L | 99 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 1 | | 1.005 | mg/L | 101 | 90 | 110 | | | |
| WG526939CCB1 | CCB | 09/10/21 17:36 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 1 | | 1.007 | mg/L | 101 | 90 | 110 | | | |
| WG526939CCB2 | CCB | 09/10/21 18:16 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | .5 | .017 | .4924 | mg/L | 95 | 85 | 115 | | | |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | .5 | .017 | .4942 | mg/L | 95 | 85 | 115 | 0 | 20 | |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 1 | | 1.003 | mg/L | 100 | 90 | 110 | | | |
| WG526939CCB3 | CCB | 09/10/21 18:39 | | | | U | mg/L | | -0.024 | 0.024 | | | |

| Nitrate/Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction | | | | | | | | | | | | | |
|--|------|---------------|-------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526531 | | | | | | | | | | | | | |
| WG526531ICV | ICV | 09/03/21 1:13 | WI210603-7 | 2.416 | | 2.362 | mg/L | 98 | 90 | 110 | | | |
| WG526531ICB | ICB | 09/03/21 1:14 | | | | U | mg/L | | -0.02 | 0.02 | | | |
| WG526531PQV | PQV | 09/03/21 1:18 | WI210331-14 | .1 | | .097 | mg/L | 97 | 70 | 130 | | | |
| WG526531LFB | LFB | 09/03/21 1:19 | WI210331-13 | 2 | | 2.097 | mg/L | 105 | 90 | 110 | | | |
| L68133-01AS | AS | 09/03/21 1:21 | WI210331-13 | 2 | U | 2.063 | mg/L | 103 | 90 | 110 | | | |
| L68133-02DUP | DUP | 09/03/21 1:24 | | | .681 | .668 | mg/L | | | | 2 | 20 | |
| WG526531CCV1 | CCV | 09/03/21 1:28 | WI210828-1 | 2 | | 2.086 | mg/L | 104 | 90 | 110 | | | |
| WG526531CCB1 | CCB | 09/03/21 1:31 | | | | U | mg/L | | -0.02 | 0.02 | | | |
| L68204-02AS | AS | 09/03/21 1:41 | WI210331-13 | 2 | .907 | 3.061 | mg/L | 108 | 90 | 110 | | | |
| L68204-03DUP | DUP | 09/03/21 1:44 | | | .022 | .033 | mg/L | | | | 40 | 20 | RA |
| WG526531CCV2 | CCV | 09/03/21 1:45 | WI210828-1 | 2 | | 2.119 | mg/L | 106 | 90 | 110 | | | |
| WG526531CCB2 | CCB | 09/03/21 1:48 | | | | U | mg/L | | -0.02 | 0.02 | | | |
| WG526531CCV3 | CCV | 09/03/21 2:01 | WI210828-1 | 2 | | 2.096 | mg/L | 105 | 90 | 110 | | | |
| WG526531CCB3 | CCB | 09/03/21 2:04 | | | | U | mg/L | | -0.02 | 0.02 | | | |

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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, o | dissolved | | M353.2 - A | Automate | d Cadmiun | n Reduc | tion |
|-----------------|-----------|-------------------|------------|----------|-----------|---------|------|
| A 0.7 ID | T | A so a la sura al | DCN/CCN | 00 | Camanda | Ed | 11 |

| Nitrite as N, dis | solved | | M353.2 - A | Automate | ed Cadmiur | n Reduc | tion | | | | | | |
|-------------------|--------|----------------|-------------|----------|------------|---------|-------|------|-------|-------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526531 | | | | | | | | | | | | | |
| WG526531ICV | ICV | 09/03/21 1:13 | WI210603-7 | .609 | | .584 | mg/L | 96 | 90 | 110 | | | |
| WG526531ICB | ICB | 09/03/21 1:14 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| WG526531PQV | PQV | 09/03/21 1:18 | WI210331-14 | .05 | | .051 | mg/L | 102 | 70 | 130 | | | |
| WG526531LFB | LFB | 09/03/21 1:19 | WI210331-13 | 1 | | 1.004 | mg/L | 100 | 90 | 110 | | | |
| L68133-01AS | AS | 09/03/21 1:21 | WI210331-13 | 1 | U | .994 | mg/L | 99 | 90 | 110 | | | |
| L68133-02DUP | DUP | 09/03/21 1:24 | | | U | U | mg/L | | | | 0 | 20 | RA |
| WG526531CCV1 | CCV | 09/03/21 1:28 | WI210828-1 | 1 | | .983 | mg/L | 98 | 90 | 110 | | | |
| WG526531CCB1 | CCB | 09/03/21 1:31 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| L68204-02AS | AS | 09/03/21 1:41 | WI210331-13 | 1 | U | 1.027 | mg/L | 103 | 90 | 110 | | | |
| L68204-03DUP | DUP | 09/03/21 1:44 | | | .014 | .014 | mg/L | | | | 0 | 20 | RA |
| WG526531CCV2 | CCV | 09/03/21 1:45 | WI210828-1 | 1 | | .993 | mg/L | 99 | 90 | 110 | | | |
| WG526531CCB2 | CCB | 09/03/21 1:48 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| WG526531CCV3 | CCV | 09/03/21 2:01 | WI210828-1 | 1 | | .992 | mg/L | 99 | 90 | 110 | | | |
| WG526531CCB3 | CCB | 09/03/21 2:04 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| Potassium, diss | olved | | M200.7 IC | P | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 20 | | 19.8 | mg/L | 99 | 95 | 105 | | | |

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|----------------|------------|----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 20 | | 19.8 | mg/L | 99 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | .9958 | | 1.06 | mg/L | 106 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | .9958 | | 1.08 | mg/L | 108 | 80 | 120 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | 99.96008 | | 97.78 | mg/L | 98 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 10 | | 9.88 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB1 | CCB | 09/10/21 17:36 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 10 | | 10.12 | mg/L | 101 | 90 | 110 | | | |
| WG526939CCB2 | CCB | 09/10/21 18:16 | | | | .28 | mg/L | | -0.6 | 0.6 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | 99.96008 | 10.9 | 112 | mg/L | 101 | 85 | 115 | | | |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | 99.96008 | 10.9 | 112 | mg/L | 101 | 85 | 115 | 0 | 20 | |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 10 | | 10.12 | mg/L | 101 | 90 | 110 | | | |
| WG526939CCB3 | CCB | 09/10/21 18:39 | | | | .28 | mg/L | | -0.6 | 0.6 | | | |

| Residue | Filterable (TDS) @180C | SM2540C |
|---------|------------------------|---------|

| WG526687 WG526687PBW PBW 09/07/21 14:10 U mg/L -20 20 WG526687LCSW LCSW 09/07/21 14:12 PCN64129 1000 998 mg/L 100 80 120 | ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--|--------------|------|----------------|----------|------|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG526687LCSW LCSW 09/07/21 14:12 PCN64129 1000 998 mg/L 100 80 120 | WG526687 | | | | | | | | | | | | | |
| | WG526687PBW | PBW | 09/07/21 14:10 | | | | U | mg/L | | -20 | 20 | | | |
| 100044.000110 | WG526687LCSW | LCSW | 09/07/21 14:12 | PCN64129 | 1000 | | 998 | mg/L | 100 | 80 | 120 | | | |
| L68244-02DUP DUP 09/07/21 14:41 324 324 mg/L 0 10 | L68244-02DUP | DUP | 09/07/21 14:41 | | | 324 | 324 | mg/L | | | | 0 | 10 | |

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WG527044CCB3

CCB

09/14/21 18:00

GCC Rio Grande ACZ Project ID: L68204

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.

| limits are in % R | ec. | | | | | | | | | | | | |
|-------------------|------|----------------|------------|---------|--------|--------|-------|------|----------|---------|-----|-------|------|
| Selenium, disso | lved | | M200.8 I | CP-MS | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG527379 | | | | | | | | | | | | | |
| WG527379ICV | ICV | 09/16/21 13:20 | MS210727-2 | .05 | | .0503 | mg/L | 101 | 90 | 110 | | | |
| WG527379ICB | ICB | 09/16/21 13:21 | | | | .00012 | mg/L | | -0.00022 | 0.00022 | | | |
| WG527379LFB | LFB | 09/16/21 13:31 | MS210827-2 | .05 | | .04655 | mg/L | 93 | 85 | 115 | | | |
| L68204-03AS | AS | 09/16/21 13:38 | MS210827-2 | .25 | U | .2091 | mg/L | 84 | 70 | 130 | | | |
| L68204-03ASD | ASD | 09/16/21 13:40 | MS210827-2 | .25 | U | .22762 | mg/L | 91 | 70 | 130 | 8 | 20 | |
| WG527379CCV1 | CCV | 09/16/21 13:49 | MS210909-2 | .25 | | .24021 | mg/L | 96 | 90 | 110 | | | |
| WG527379CCB1 | CCB | 09/16/21 13:51 | | | | .00013 | mg/L | | -0.0003 | 0.0003 | | | |
| WG527379CCV2 | CCV | 09/16/21 14:12 | MS210909-2 | .25 | | .24758 | mg/L | 99 | 90 | 110 | | | |
| WG527379CCB2 | CCB | 09/16/21 14:14 | | | | .00012 | mg/L | | -0.0003 | 0.0003 | | | |
| WG527379CCV3 | CCV | 09/16/21 14:25 | MS210909-2 | .25 | | .2368 | mg/L | 95 | 90 | 110 | | | |
| WG527379CCB3 | CCB | 09/16/21 14:26 | | | | .00017 | mg/L | | -0.0003 | 0.0003 | | | |
| Sodium, dissolv | /ed | | M200.7 I | CP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 100 | | 99.83 | mg/L | 100 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | 1.0053 | | 1.01 | mg/L | 100 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | 1.0053 | | 1.08 | mg/L | 107 | 80 | 120 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | 100.007 | | 98.81 | mg/L | 99 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 50 | | 49.56 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB1 | CCB | 09/10/21 17:36 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 50 | | 49.65 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB2 | CCB | 09/10/21 18:16 | | | | .24 | mg/L | | -0.6 | 0.6 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | 100.007 | 661 | 744.4 | mg/L | 83 | 85 | 115 | | | М3 |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | 100.007 | 661 | 738.5 | mg/L | 77 | 85 | 115 | 1 | 20 | M3 |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 50 | | 49.48 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB3 | CCB | 09/10/21 18:39 | | | | .2 | mg/L | | -0.6 | 0.6 | | | |
| WG527044 | | | | | | | | | | | | | |
| WG527044ICV | ICV | 09/14/21 16:04 | II210826-1 | 100 | | 100.6 | mg/L | 101 | 95 | 105 | | | |
| WG527044ICB | ICB | 09/14/21 16:10 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG527044PQV | PQV | 09/14/21 16:13 | II210901-4 | 1.0053 | | .99 | mg/L | 98 | 70 | 130 | | | |
| WG527044SIC | SIC | 09/14/21 16:17 | II210907-1 | 1.0053 | | 1.12 | mg/L | 111 | 80 | 120 | | | |
| WG527044LFB | LFB | 09/14/21 16:23 | II210910-2 | 100.007 | | 99.78 | mg/L | 100 | 85 | 115 | | | |
| WG527044CCV1 | CCV | 09/14/21 16:55 | II210826-2 | 50 | | 50.16 | mg/L | 100 | 90 | 110 | | | |
| WG527044CCB1 | CCB | 09/14/21 16:58 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| L68291-03AS | AS | 09/14/21 17:02 | II210910-2 | 100.007 | 3.49 | 103.3 | mg/L | 100 | 85 | 115 | | | |
| L68291-03ASD | ASD | 09/14/21 17:05 | II210910-2 | 100.007 | 3.49 | 102.5 | mg/L | 99 | 85 | 115 | 1 | 20 | |
| WG527044CCV2 | CCV | 09/14/21 17:34 | II210826-2 | 50 | | 49.56 | mg/L | 99 | 90 | 110 | | | |
| WG527044CCB2 | CCB | 09/14/21 17:37 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG527044CCV3 | CCV | 09/14/21 17:56 | II210826-2 | 50 | | 49.42 | mg/L | 99 | 90 | 110 | | | |
| | | | | | | | | | | | | | |

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U

mg/L

-0.6

0.6

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 | D516-02/-07/-11 - TURBIDIMETF | ≀IC |
|---------|-------------------------------|-----|
| | | |

WG526939CCB3

CCB 09/10/21 18:39

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|-----------------|-------|----------------|------------|---------|--------|-------|-------|------|--------|-------|-----|-------|------|
| WG527177 | | | | | | | | | | | | | |
| WG527177ICB | ICB | 09/15/21 9:54 | | | | U | mg/L | | -3 | 3 | | | |
| WG527177ICV | ICV | 09/15/21 9:54 | WI210909-1 | 20.46 | | 19.9 | mg/L | 97 | 90 | 110 | | | |
| WG527177CCV1 | CCV | 09/15/21 10:21 | WI210909-2 | 25 | | 25.9 | mg/L | 104 | 90 | 110 | | | |
| WG527177CCB1 | ССВ | 09/15/21 10:21 | | | | U | mg/L | | -3 | 3 | | | |
| WG527177LFB | LFB | 09/15/21 10:21 | WI210105-3 | 10 | | 9.2 | mg/L | 92 | 90 | 110 | | | |
| WG527177CCV2 | CCV | 09/15/21 10:23 | WI210909-2 | 25 | | 25.7 | mg/L | 103 | 90 | 110 | | | |
| WG527177CCB2 | ССВ | 09/15/21 10:23 | | | | U | mg/L | | -3 | 3 | | | |
| WG527177CCV3 | CCV | 09/15/21 10:25 | WI210909-2 | 25 | | 25.6 | mg/L | 102 | 90 | 110 | | | |
| WG527177CCB3 | ССВ | 09/15/21 10:25 | | | | U | mg/L | | -3 | 3 | | | |
| WG527177CCV4 | CCV | 09/15/21 10:46 | WI210909-2 | 25 | | 25.6 | mg/L | 102 | 90 | 110 | | | |
| WG527177CCB4 | ССВ | 09/15/21 10:46 | | | | U | mg/L | | -3 | 3 | | | |
| L68241-01DUP | DUP | 09/15/21 10:46 | | | 87.1 | 86 | mg/L | | | | 1 | 20 | |
| WG527177CCV5 | CCV | 09/15/21 10:48 | WI210909-2 | 25 | | 25.4 | mg/L | 102 | 90 | 110 | | | |
| WG527177CCB5 | ССВ | 09/15/21 10:48 | | | | U | mg/L | | -3 | 3 | | | |
| WG527177CCV6 | CCV | 09/15/21 10:52 | WI210909-2 | 25 | | 24.8 | mg/L | 99 | 90 | 110 | | | |
| WG527177CCB6 | ССВ | 09/15/21 10:52 | | | | U | mg/L | | -3 | 3 | | | |
| WG527177CCV7 | CCV | 09/15/21 10:53 | WI210909-2 | 25 | | 25.4 | mg/L | 102 | 90 | 110 | | | |
| WG527177CCB7 | ССВ | 09/15/21 10:53 | | | | U | mg/L | | -3 | 3 | | | |
| WG527177CCV8 | CCV | 09/15/21 11:06 | WI210909-2 | 25 | | 25.7 | mg/L | 103 | 90 | 110 | | | |
| WG527177CCB8 | ССВ | 09/15/21 11:06 | | | | U | mg/L | | -3 | 3 | | | |
| L68209-02AS | AS | 09/15/21 11:08 | SO4TURB20X | 10 | 758 | 750.6 | mg/L | -74 | 90 | 110 | | | МЗ |
| WG527177CCV9 | CCV | 09/15/21 11:08 | WI210909-2 | 25 | | 24.2 | mg/L | 97 | 90 | 110 | | | |
| WG527177CCB9 | ССВ | 09/15/21 11:08 | | | | U | mg/L | | -3 | 3 | | | |
| WG527177CCV10 | CCV | 09/15/21 11:10 | WI210909-2 | 25 | | 25.1 | mg/L | 100 | 90 | 110 | | | |
| WG527177CCB10 | CCB | 09/15/21 11:10 | | | | U | mg/L | | -3 | 3 | | | |
| WG527177CCV11 | CCV | 09/15/21 11:28 | WI210909-2 | 25 | | 26 | mg/L | 104 | 90 | 110 | | | |
| WG527177CCB11 | CCB | 09/15/21 11:28 | | | | U | mg/L | | -3 | 3 | | | |
| WG527177CCV12 | CCV | 09/15/21 11:29 | WI210909-2 | 25 | | 25.4 | mg/L | 102 | 90 | 110 | | | |
| WG527177CCB12 | CCB | 09/15/21 11:29 | | | | U | mg/L | | -3 | 3 | | | |
| Vanadium, disso | olved | | M200.7 IC | CP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 2 | | 1.959 | mg/L | 98 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.015 | 0.015 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | .025025 | | .025 | mg/L | 100 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | .1001 | | .085 | mg/L | 85 | 80 | 120 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | .5005 | | .4961 | mg/L | 99 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 1 | | .982 | mg/L | 98 | 90 | 110 | | | |
| WG526939CCB1 | CCB | 09/10/21 17:36 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 1 | | .979 | mg/L | 98 | 90 | 110 | | | |
| WG526939CCB2 | ССВ | 09/10/21 18:16 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | .5005 | U | .4823 | mg/L | 96 | 85 | 115 | | | |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | .5005 | U | .482 | mg/L | 96 | 85 | 115 | 0 | 20 | |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 1 | | .98 | mg/L | 98 | 90 | 110 | | | |
| 140500000000 | 000 | 00/40/04 40 00 | | | | | | | 0.00 | 0.00 | | | |

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mg/L

-0.03

0.03

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 |
|--------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG526939 | | | | | | | | | | | | | |
| WG526939ICV | ICV | 09/10/21 16:41 | II210826-1 | 2 | | 1.965 | mg/L | 98 | 95 | 105 | | | |
| WG526939ICB | ICB | 09/10/21 16:47 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG526939PQV | PQV | 09/10/21 16:51 | II210901-4 | .05015 | | .049 | mg/L | 98 | 70 | 130 | | | |
| WG526939SIC | SIC | 09/10/21 16:54 | II210907-1 | .1003 | | .096 | mg/L | 96 | 80 | 120 | | | |
| WG526939LFB | LFB | 09/10/21 17:00 | II210910-2 | .50045 | | .508 | mg/L | 102 | 85 | 115 | | | |
| WG526939CCV1 | CCV | 09/10/21 17:33 | II210826-2 | 1 | | .982 | mg/L | 98 | 90 | 110 | | | |
| WG526939CCB1 | CCB | 09/10/21 17:36 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG526939CCV2 | CCV | 09/10/21 18:13 | II210826-2 | 1 | | .987 | mg/L | 99 | 90 | 110 | | | |
| WG526939CCB2 | CCB | 09/10/21 18:16 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| L68204-04AS | AS | 09/10/21 18:19 | II210910-2 | .50045 | U | .524 | mg/L | 105 | 85 | 115 | | | |
| L68204-04ASD | ASD | 09/10/21 18:23 | II210910-2 | .50045 | U | .525 | mg/L | 105 | 85 | 115 | 0 | 20 | |
| WG526939CCV3 | CCV | 09/10/21 18:36 | II210826-2 | 1 | | .984 | mg/L | 98 | 90 | 110 | | | |
| WG526939CCB3 | CCB | 09/10/21 18:39 | | | | U | mg/L | | -0.06 | 0.06 | | | |

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Inorganic Extended
Qualifier Report

GCC Rio Grande ACZ Project ID: L68204

| ACZ ID | WORKNU <u>M</u> | PARAMETER | METHOD | QUAL | DESCRIPTION |
|-----------|-----------------|---------------------------------|--------------------------------------|------|---|
| L68204-01 | WG526939 | 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. |
| | | Magnesium, dissolved | M200.7 ICP | М3 | 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. |
| | WG526531 | Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | HE | Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions). |
| | | Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | HE | Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions). |
| | | | M353.2 - 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). |
| | WG526939 | Sodium, 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. |
| | WG527177 | Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 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. |
| | WG526961 | Total Alkalinity | SM2320B - Titration | ZW | Method deviation. The sample was centrifuged prior to analysis due to high solid content. |
| L68204-02 | WG526939 | Calcium, dissolved | M200.7 ICP | М3 | 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. |
| | | Magnesium, 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. |
| | WG526531 | Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | HE | Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions). |
| | | | M353.2 - 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, dissolved | M353.2 - Automated Cadmium Reduction | HE | Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions). |
| | | | M353.2 - 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). |
| | WG526939 | Sodium, dissolved | M200.7 ICP | M3 | |
| | WG527177 | Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 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. |

REPAD.15.06.05.01

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| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|-----------|----------|---------------------------------|---|------|---|
| L68204-03 | WG526939 | 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. |
| | | Magnesium, 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. |
| | WG526531 | Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | HE | Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions). |
| | | | M353.2 - 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, dissolved | M353.2 - Automated Cadmium Reduction | HE | Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions). |
| | | | M353.2 - 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). |
| | WG527177 | Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 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. |
| L68204-04 | WG526939 | Calcium, dissolved | M200.7 ICP | М3 | 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. |
| | WG527058 | Chloride | SM4500CI-E | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | | | SM4500CI-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). |
| | WG526939 | Magnesium, 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. |
| | WG526531 | Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | HE | Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions). |
| | | | M353.2 - 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, dissolved | M353.2 - Automated Cadmium Reduction | HE | Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions). |
| | | | M353.2 - 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). |
| | WG526939 | Sodium, 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. |
| | WG527177 | Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | | 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. |
| | WG526961 | 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). |

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No certification qualifiers associated with this analysis

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Sample Receipt

GCC Rio Grande ACZ Project ID: L68204

Date Received: 09/02/2021 11:12

Received By:

Date Printed: 9/3/2021

NA indicates Not Applicable

| Date F | rinted: | ξ | 9/3/2021 |
|---|---------|----|----------|
| Receipt Verification | | | |
| | YES | NO | NA |
| 1) Is a foreign soil permit included for applicable samples? | | | X |
| 2) Is the Chain of Custody form or other directive shipping papers present? | X | | |
| 3) Does this project require special handling procedures such as CLP protocol? | | Х | |
| 4) Are any samples NRC licensable material? | | | Х |
| 5) If samples are received past hold time, proceed with requested short hold time analyses? | Х | | |
| 6) Is the Chain of Custody form complete and accurate? | X | | |
| 7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples? | | Х | |
| Samples/Containers | | | |
| | YES | NO | NA |
| 8) Are all containers intact and with no leaks? | X | | |
| 9) Are all labels on containers and are they intact and legible? | Х | | |
| 10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time? | Х | | |
| 11) For preserved bottle types, was the pH checked and within limits? 1 | Х | | |
| 12) Is there sufficient sample volume to perform all requested work? | Х | | |
| 13) Is the custody seal intact on all containers? | | | Х |
| 14) Are samples that require zero headspace acceptable? | | | Х |
| 15) Are all sample containers appropriate for analytical requirements? | X | | |
| 16) Is there an Hg-1631 trip blank present? | | | Х |
| 17) Is there a VOA trip blank present? | | | Х |
| 18) Were all samples received within hold time? | Х | | |
| | | | |

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

| Cooler Id | Temp(°C) | Temp Criteria(°C) | Rad(µR/Hr) | Custody Seal Intact? |
|-----------|----------|----------------------|------------|-------------------------|
| | | | | |
| NA35837 | 2.7 | <=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.



Sample Receipt

GCC Rio Grande ACZ Project ID: L68204

Date Received: 09/02/2021 11:12

Received By:

Date Printed: 9/3/2021

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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), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

| | ACZ In | havetevias I | 1006 | CHAIN | | | | | | | | |
|------------|--|--|--|---|-----------------------|--|--|--|--|--|--|--|
| | | boratories, Inc. t Springs, CO 80487 (800) 334-549 | COXO, | CHAIN of | CUSTODY | | | | | | | |
| | Report to: | 1 Springs, CO 60467 (800) 334-549 | 3 · V | | | | | | | | | |
| | Name: Greg Gannon | | Address 2272 | Lime Bood Duck | 1- 00 04004 | | | | | | | |
| | Company: GCC Rio Gra | nde Inc | Address: 3372 Lime Road, Pueblo CO 81004 | | | | | | | | | |
| | E-mail: ggannon@gcc.c | | Telephone: 406 | 285 4077 | | | | | | | | |
| | Copy of Report to: | | Teleprione: 400 | .203.4977 | | | | | | | | |
| | Name: Landon Beck | | | | | | | | | | | |
| | · · · · · · · · · · · · · · · · · · · | Ironnela sia Ca | | resourcehydroged | ologic.com | | | | | | | |
| | Company: Resource Hyd | rogeologic Co | Telephone: 970. | 459.4865 | | | | | | | | |
| | Invoice to: | - <u> </u> | | | | | | | | | | |
| | Name: Greg Gannon | | Address: 3372 I | Lime Road, Puebl | o CO 81004 | | | | | | | |
| | Company: GCC Rio Gran | | | | | | | | | | | |
| | E-mail: ggannon@gcc.co | | Telephone: 406 | .285.4977 | | | | | | | | |
| | analysis before expiration, sha | ling time (HT), or if insufficient HT III ACZ proceed with requested sh | ort HT analyses? | | YES 🗵 | | | | | | | |
| | If "NO" then ACZ will contact client for further ins | struction. If neither "YES" nor "NO" is indicated, ACZ | will proceed with the requested ana | [Marks] | a will be qualified | | | | | | | |
| | Are samples for SDWA Compliant of the sample | ance Monitoring? ns. Results will be reported to PQ | Yes | No 🔀 | | | | | | | | |
| | Sampler's Name: 5. Lago | | | Zip code 💍 | - WAR | | | | | | | |
| | *Sampler's Signature: | *I attest to the auth | State | understand that intentionally mislabe | I IME ZONE | | | | | | | |
| | PROJECT INFORMATION | campering with the | sample in anyway, is considered frau ANALYSES I | d and punishable by State Law. REQUESTED (attach list or use | e quote number) | | | | | | | |
| | Quote #: GW-COMPLIAN | CE SUITE | | | | | | | | | | |
| | PO#: N/A | | iner | | | | | | | | | |
| | Reporting state for compliance te | esting: CO | od que | | | | | | | | | |
| | Check box if samples include NR | C licensed material? | # of Containers Per attached quote, no | | | | | | | | | |
| | SAMPLE IDENTIFICATION | | ix # Рега | | | | | | | | | |
| | MVV-6 | 8/31/21: 1330GU | 1 3 🗵 🗖 | | | | | | | | | |
| | MVV-7 | 8/31/21:1230 GU | <i>)</i> 3 🗵 🗖 | | | | | | | | | |
| | MVV-8 | 2/31/21:1300 (21 | N 3 🗵 🗖 | | | | | | | | | |
| | MW-2B | 3/31/21:1235 GU | 3 🗵 🗆 | | | | | | | | | |
| | | ' | | | | | | | | | | |
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| | | | | | | | | | | | | |
| | | | <u> </u> | | | | | | | | | |
| | | | | <u> </u> | | | | | | | | |
| | Mark Survey of Aura and | | | | | | | | | | | |
| | Matrix SW (Surface Water) CREMARKS | W (Ground Water) · WW (Waste Water) · | DW (Drinking Water) · SL | (Sludge) · SO (Soil) · OL (O | il) · Other (Specify) | | | | | | | |
| | REWARKS | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| stod | | refer to ACZ's terms & conditions | located on the revers | se side of this COC. | | | | | | | | |
| 3 | RELINQUISHED BY | Y: DATE:TIME | RECEI | IVED BY: | DATE:TIME | | | | | | | |
| = 5 | 3000 | Z/31/21:140 | 2 | | j . | | | | | | | |
| <u> </u> | | > (/ | 120 M | Y1221 | 1//2 | | | | | | | |
| | | | | | ,,,, | | | | | | | |
| | FRMAD050.06.14.14 | White - Return with sample. Ye | ellow - Retain for your re | cords. | | | | | | | | |
| 200 | | | | | | | | | | | | |
| 89 | 0400004005 | | | | - | | | | | | | |
| L68204- | 2109201235 | | | | Page | | | | | | | |
| | | | | | | | | | | | | |

December 09, 2021

Report to: Bill to:

Greg Gannon Greg Gannon
GCC Rio Grande
3372 Lime Road
Pueblo, CO 81004
GCC Rio Grande
3372 Lime Road
Pueblo, CO 81004
Pueblo, CO 81004

Project ID:

ACZ Project ID: L70041

Greg Gannon:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on November 19, 2021. This project has been assigned to ACZ's project number, L70041. 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 L70041. 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 December 09, 2022. 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.

Bill Lane has reviewed and approved this report





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2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

GCC Rio Grande

Project ID:

Sample ID: MW-6 ACZ Sample ID: L70041-01

Date Sampled: 11/18/21 14:28

Date Received: 11/19/21 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 | 11/29/21 18:30 | kja |
| Arsenic, dissolved | M200.8 ICP-MS | 5 | <0.001 | U | | mg/L | 0.001 | 0.005 | 12/01/21 10:59 | mfm |
| Beryllium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 11/29/21 18:30 | kja |
| Boron, dissolved | M200.7 ICP | 1 | 0.245 | | | mg/L | 0.03 | 0.1 | 11/29/21 18:30 | kja |
| Cadmium, dissolved | M200.8 ICP-MS | 5 | <0.00025 | U | | mg/L | 0.00025 | 0.00125 | 12/01/21 10:59 | mfm |
| Calcium, dissolved | M200.7 ICP | 1 | 383 | | | mg/L | 0.1 | 0.5 | 11/29/21 18:30 | kja |
| Chromium, dissolved | M200.7 ICP | 5 | <0.1 | U | | mg/L | 0.1 | 0.25 | 11/30/21 21:46 | kja |
| Cobalt, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 11/29/21 18:30 | kja |
| Copper, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 11/29/21 18:30 | kja |
| Iron, dissolved | M200.7 ICP | 1 | <0.06 | U | | mg/L | 0.06 | 0.15 | 11/29/21 18:30 | kja |
| Lead, dissolved | M200.8 ICP-MS | 5 | <0.0005 | U | | mg/L | 0.0005 | 0.0025 | 12/03/21 17:25 | mfm |
| Lithium, dissolved | M200.7 ICP | 1 | 0.469 | | | mg/L | 0.008 | 0.04 | 11/29/21 18:30 | kja |
| Magnesium, dissolved | M200.7 ICP | 1 | 473 | | | mg/L | 0.2 | 1 | 11/29/21 18:30 | kja |
| Manganese, dissolved | M200.7 ICP | 1 | 0.241 | | | mg/L | 0.01 | 0.05 | 11/29/21 18:30 | kja |
| Mercury, dissolved | M245.1 CVAA | 1 | <0.0002 | U | | mg/L | 0.0002 | 0.001 | 11/24/21 12:42 | mlh |
| Nickel, dissolved | M200.7 ICP | 1 | 0.0763 | | | mg/L | 0.008 | 0.04 | 11/29/21 18:30 | kja |
| Potassium, dissolved | M200.7 ICP | 1 | 10.3 | | | mg/L | 0.2 | 1 | 11/29/21 18:30 | kja |
| Selenium, dissolved | M200.8 ICP-MS | 5 | 0.0153 | | | mg/L | 0.0005 | 0.00125 | 12/03/21 17:25 | mfm |
| Sodium, dissolved | M200.7 ICP | 1 | 589 | | * | mg/L | 0.2 | 1 | 11/29/21 18:30 | kja |
| Vanadium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.025 | 11/30/21 12:10 | jlw |
| Zinc, dissolved | M200.7 ICP | 1 | <0.02 | U | | mg/L | 0.02 | 0.05 | 11/29/21 18:30 | kja |
| Wet Chemistry | | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
| Alkalinity as CaCO3 | SM2320B - Titration | | | | | | | | | |
| Bicarbonate as CaCO3 | | 1 | 450 | | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Carbonate as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Hydroxide as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Total Alkalinity | | 1 | 450 | | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Chloride | SM4500CI-E | 1 | 76.1 | | * | mg/L | 0.5 | 2 | 12/03/21 11:11 | md |
| Fluoride | SM4500F-C | 1 | 0.62 | | | mg/L | 0.15 | 0.35 | 12/02/21 21:05 | eep |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | 0.846 | | | mg/L | 0.02 | 0.1 | 12/09/21 0:00 | calc |
| Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.846 | | * | mg/L | 0.02 | 0.1 | 11/20/21 1:06 | pjb |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | <0.01 | U | * | mg/L | 0.01 | 0.05 | 11/20/21 0:58 | pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 5 | 5670 | | * | mg/L | 100 | 200 | 11/24/21 14:22 | anc |
| Sulfate | D516-02/-07/-11 - TURBIDIMETRIO | C 100 | 3750 | | * | mg/L | 100 | 500 | 12/03/21 16:31 | wtc |

REPIN.02.06.05.01

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^{*} Please refer to Qualifier Reports for details.



Project ID:

Sample ID: MW-7 ACZ Sample ID: L70041-02

Date Sampled: 11/18/21 12:01

Date Received: 11/19/21

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 | 11/29/21 18:33 | kja |
| Arsenic, dissolved | M200.8 ICP-MS | 5 | <0.001 | U | | mg/L | 0.001 | 0.005 | 12/01/21 11:01 | mfm |
| Beryllium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 11/29/21 18:33 | kja |
| Boron, dissolved | M200.7 ICP | 1 | 0.187 | | | mg/L | 0.03 | 0.1 | 11/29/21 18:33 | kja |
| Cadmium, dissolved | M200.8 ICP-MS | 5 | <0.00025 | U | | mg/L | 0.00025 | 0.00125 | 12/01/21 11:01 | mfm |
| Calcium, dissolved | M200.7 ICP | 1 | 429 | | | mg/L | 0.1 | 0.5 | 11/29/21 18:33 | kja |
| Chromium, dissolved | M200.7 ICP | 5 | <0.1 | U | | mg/L | 0.1 | 0.25 | 11/30/21 21:49 | kja |
| Cobalt, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 11/29/21 18:33 | kja |
| Copper, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 11/29/21 18:33 | kja |
| Iron, dissolved | M200.7 ICP | 1 | <0.06 | U | | mg/L | 0.06 | 0.15 | 11/29/21 18:33 | kja |
| Lead, dissolved | M200.8 ICP-MS | 5 | <0.0005 | U | | mg/L | 0.0005 | 0.0025 | 12/03/21 17:27 | mfm |
| Lithium, dissolved | M200.7 ICP | 1 | 0.375 | | | mg/L | 0.008 | 0.04 | 11/29/21 18:33 | kja |
| Magnesium, dissolved | M200.7 ICP | 1 | 386 | | | mg/L | 0.2 | 1 | 11/29/21 18:33 | kja |
| Manganese, dissolved | M200.7 ICP | 1 | 0.060 | | | mg/L | 0.01 | 0.05 | 11/29/21 18:33 | kja |
| Mercury, dissolved | M245.1 CVAA | 1 | <0.0002 | U | | mg/L | 0.0002 | 0.001 | 11/24/21 12:45 | mlh |
| Nickel, dissolved | M200.7 ICP | 1 | 0.0157 | В | | mg/L | 0.008 | 0.04 | 11/29/21 18:33 | kja |
| Potassium, dissolved | M200.7 ICP | 1 | 10.6 | | | mg/L | 0.2 | 1 | 11/29/21 18:33 | kja |
| Selenium, dissolved | M200.8 ICP-MS | 5 | 0.0284 | | * | mg/L | 0.0005 | 0.00125 | 12/01/21 11:01 | mfm |
| Sodium, dissolved | M200.7 ICP | 1 | 402 | | * | mg/L | 0.2 | 1 | 11/29/21 18:33 | kja |
| Vanadium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.025 | 11/30/21 12:13 | jlw |
| Zinc, dissolved | M200.7 ICP | 1 | <0.02 | U | | mg/L | 0.02 | 0.05 | 11/29/21 18:33 | kja |
| Wet Chemistry | | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analvst |
| Alkalinity as CaCO3 | SM2320B - Titration | | | | | | | | | , , , , , |
| Bicarbonate as CaCO3 | | 1 | 299 | | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Carbonate as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Hydroxide as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Total Alkalinity | | 1 | 299 | | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Chloride | SM4500CI-E | 1 | 52.9 | | * | mg/L | 0.5 | 2 | 12/03/21 11:11 | md |
| Fluoride | SM4500F-C | 1 | 0.53 | | | mg/L | 0.15 | 0.35 | 12/02/21 21:13 | еер |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | 3.84 | | | mg/L | 0.02 | 0.1 | 12/09/21 0:00 | calc |
| Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 3.84 | | * | mg/L | 0.02 | 0.1 | 11/20/21 0:59 | pjb |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | <0.01 | U | * | mg/L | 0.01 | 0.05 | 11/20/21 0:59 | pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 2 | 4810 | | * | mg/L | 40 | 80 | 11/24/21 14:24 | anc |
| Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 100 | 3700 | | * | mg/L | 100 | 500 | 12/03/21 16:31 | wtc |

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^{*} Please refer to Qualifier Reports for details.



Project ID:

Sample ID: MW-2B ACZ Sample ID: L70041-03

Date Sampled: 11/18/21 14:06

Date Received: 11/19/21 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 | 11/29/21 18:37 | kja |
| Arsenic, dissolved | M200.8 ICP-MS | 2 | 0.00084 | В | | mg/L | 0.0004 | 0.002 | 12/01/21 11:03 | mfm |
| Beryllium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 11/29/21 18:37 | kja |
| Boron, dissolved | M200.7 ICP | 1 | 0.809 | | | mg/L | 0.03 | 0.1 | 11/29/21 18:37 | kja |
| Cadmium, dissolved | M200.8 ICP-MS | 2 | <0.0001 | U | | mg/L | 0.0001 | 0.0005 | 12/01/21 11:03 | mfm |
| Calcium, dissolved | M200.7 ICP | 1 | 104 | | | mg/L | 0.1 | 0.5 | 11/29/21 18:37 | kja |
| Chromium, dissolved | M200.7 ICP | 2 | < 0.04 | U | | mg/L | 0.04 | 0.1 | 11/30/21 21:52 | kja |
| Cobalt, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 11/29/21 18:37 | kja |
| Copper, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 11/29/21 18:37 | kja |
| Iron, dissolved | M200.7 ICP | 1 | < 0.06 | U | | mg/L | 0.06 | 0.15 | 11/29/21 18:37 | kja |
| Lead, dissolved | M200.8 ICP-MS | 2 | <0.0002 | U | | mg/L | 0.0002 | 0.001 | 12/03/21 17:29 | mfm |
| Lithium, dissolved | M200.7 ICP | 1 | 0.380 | | | mg/L | 0.008 | 0.04 | 11/29/21 18:37 | kja |
| Magnesium, dissolved | M200.7 ICP | 1 | 43.2 | | | mg/L | 0.2 | 1 | 11/29/21 18:37 | kja |
| Manganese, dissolved | M200.7 ICP | 1 | 0.270 | | | mg/L | 0.01 | 0.05 | 11/29/21 18:37 | kja |
| Mercury, dissolved | M245.1 CVAA | 1 | <0.0002 | U | | mg/L | 0.0002 | 0.001 | 11/24/21 12:46 | mlh |
| Nickel, dissolved | M200.7 ICP | 1 | <0.008 | U | | mg/L | 0.008 | 0.04 | 11/29/21 18:37 | kja |
| Potassium, dissolved | M200.7 ICP | 1 | 6.31 | | | mg/L | 0.2 | 1 | 11/29/21 18:37 | kja |
| Selenium, dissolved | M200.8 ICP-MS | 2 | <0.0002 | U | * | mg/L | 0.0002 | 0.0005 | 12/01/21 11:03 | mfm |
| Sodium, dissolved | M200.7 ICP | 2 | 1150 | | | mg/L | 0.4 | 2 | 11/30/21 12:17 | jlw |
| Vanadium, dissolved | M200.7 ICP | 2 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 11/30/21 12:17 | jlw |
| Zinc, dissolved | M200.7 ICP | 1 | <0.02 | U | | mg/L | 0.02 | 0.05 | 11/29/21 18:37 | kja |
| Wet Chemistry | | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analvst |
| Alkalinity as CaCO3 | SM2320B - Titration | Dilation | resuit | Gaar | Λα | Office | IIIDE | 1 % | Dute | Allalyst |
| Bicarbonate as | | 1 | 1130 | | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| CaCO3 | | • | 1100 | | | 1119/12 | - | 20 | 12/01/21 0.00 | joit |
| Carbonate as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Hydroxide as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Total Alkalinity | | 1 | 1130 | | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Chloride | SM4500CI-E | 5 | 288 | | * | mg/L | 2.5 | 10 | 12/03/21 11:40 | md |
| Fluoride | SM4500F-C | 1 | 0.89 | | | mg/L | 0.15 | 0.35 | 12/02/21 21:21 | еер |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | 0.078 | В | | mg/L | 0.02 | 0.1 | 12/09/21 0:00 | calc |
| Nitrate/Nitrite as N, | M353.2 - Automated | 1 | 0.107 | | * | mg/L | 0.02 | 0.1 | 11/20/21 1:00 | pjb |
| dissolved | Cadmium Reduction | | | | | | | | | |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.029 | В | * | mg/L | 0.01 | 0.05 | 11/20/21 1:00 | pjb |
| Residue, Filterable | SM2540C | 5 | 3900 | | * | mg/L | 100 | 200 | 11/24/21 14:27 | anc |
| (TDS) @180C | 3.11.E3.400 | J | 0000 | | | 9, _ | 100 | 200 | 11/27/21 17.21 | and |
| Sulfate | D516-02/-07/-11 - TURBIDIMETRIO | 75 | 1920 | | * | mg/L | 75 | 375 | 12/03/21 15:20 | wtc |

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^{*} Please refer to Qualifier Reports for details.



2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

GCC Rio Grande

Project ID:

Sample ID: MW-8 ACZ Sample ID: L70041-04

Date Sampled: 11/18/21 13:51

Date Received: 11/19/21

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 | 11/29/21 18:47 | kja |
| Arsenic, dissolved | M200.8 ICP-MS | 5 | <0.001 | U | | mg/L | 0.001 | 0.005 | 12/01/21 11:05 | mfm |
| Beryllium, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 11/29/21 18:47 | kja |
| Boron, dissolved | M200.7 ICP | 1 | 0.798 | | | mg/L | 0.03 | 0.1 | 11/29/21 18:47 | kja |
| Cadmium, dissolved | M200.8 ICP-MS | 5 | <0.00025 | U | | mg/L | 0.00025 | 0.00125 | 12/01/21 11:05 | mfm |
| Calcium, dissolved | M200.7 ICP | 1 | 107 | | | mg/L | 0.1 | 0.5 | 11/29/21 18:47 | kja |
| Chromium, dissolved | M200.7 ICP | 5 | <0.1 | U | | mg/L | 0.1 | 0.25 | 11/30/21 21:55 | kja |
| Cobalt, dissolved | M200.7 ICP | 1 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 11/29/21 18:47 | kja |
| Copper, dissolved | M200.7 ICP | 1 | <0.01 | U | | mg/L | 0.01 | 0.05 | 11/29/21 18:47 | kja |
| Iron, dissolved | M200.7 ICP | 1 | <0.06 | U | | mg/L | 0.06 | 0.15 | 11/29/21 18:47 | kja |
| Lead, dissolved | M200.8 ICP-MS | 5 | <0.0005 | U | | mg/L | 0.0005 | 0.0025 | 12/03/21 17:30 | mfm |
| Lithium, dissolved | M200.7 ICP | 1 | 0.378 | | | mg/L | 0.008 | 0.04 | 11/29/21 18:47 | kja |
| Magnesium, dissolved | M200.7 ICP | 1 | 46.5 | | | mg/L | 0.2 | 1 | 11/29/21 18:47 | kja |
| Manganese, dissolved | M200.7 ICP | 1 | 0.265 | | | mg/L | 0.01 | 0.05 | 11/29/21 18:47 | kja |
| Mercury, dissolved | M245.1 CVAA | 1 | <0.0002 | U | | mg/L | 0.0002 | 0.001 | 11/24/21 12:47 | mlh |
| Nickel, dissolved | M200.7 ICP | 1 | <0.008 | U | | mg/L | 0.008 | 0.04 | 11/29/21 18:47 | kja |
| Potassium, dissolved | M200.7 ICP | 1 | 6.44 | | | mg/L | 0.2 | 1 | 11/29/21 18:47 | kja |
| Selenium, dissolved | M200.8 ICP-MS | 5 | <0.0005 | U | * | mg/L | 0.0005 | 0.00125 | 12/01/21 11:05 | mfm |
| Sodium, dissolved | M200.7 ICP | 2 | 1150 | | | mg/L | 0.4 | 2 | 11/30/21 12:20 | jlw |
| Vanadium, dissolved | M200.7 ICP | 2 | < 0.02 | U | | mg/L | 0.02 | 0.05 | 11/30/21 12:20 | jlw |
| Zinc, dissolved | M200.7 ICP | 1 | <0.02 | U | | mg/L | 0.02 | 0.05 | 11/29/21 18:47 | kja |
| Wet Chemistry | | | | | | | | | | |
| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
| Alkalinity as CaCO3 | SM2320B - Titration | | | | | | | | | , , |
| Bicarbonate as CaCO3 | | 1 | 1140 | | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Carbonate as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Hydroxide as CaCO3 | | 1 | <2 | U | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Total Alkalinity | | 1 | 1140 | | | mg/L | 2 | 20 | 12/01/21 0:00 | jck |
| Chloride | SM4500CI-E | 5 | 283 | | * | mg/L | 2.5 | 10 | 12/03/21 11:41 | md |
| Fluoride | SM4500F-C | 1 | 0.90 | | | mg/L | 0.15 | 0.35 | 12/08/21 18:29 | eep |
| Nitrate as N, dissolved | Calculation: NO3NO2 minus NO2 | | 0.068 | В | | mg/L | 0.02 | 0.1 | 12/09/21 0:00 | calc |
| Nitrate/Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.096 | В | * | mg/L | 0.02 | 0.1 | 11/20/21 1:02 | pjb |
| Nitrite as N, dissolved | M353.2 - Automated Cadmium Reduction | 1 | 0.028 | В | * | mg/L | 0.01 | 0.05 | 11/20/21 1:02 | pjb |
| Residue, Filterable (TDS) @180C | SM2540C | 5 | 4040 | | * | mg/L | 100 | 200 | 11/24/21 14:30 | anc |
| Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 75 | 1920 | | * | mg/L | 75 | 375 | 12/03/21 15:20 | wtc |

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^{*} Please refer to Qualifier Reports for details.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

| Report F | leader | Exp | lanations | |
|----------|--------|-----|--------------|--|
| IXCOCILI | CCCC | | Idilidilollo | |

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest

Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5).

Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit. Synonymous with the EPA term "minimum level".

QC True Value of the Control Sample or the amount added to the Spike

Rec Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

| 26 | ӯр€ | т | ole | am | S | റവ |
|----|-----|---|------|----|---|-----|
| | VЮ | ш | olle | am | 3 | UU. |

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

 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

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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

| Alkalinity as CaC | О3 | | SM2320 | B - Titration | | | | | | | | | |
|------------------------------|------|----------------------------------|-------------|---------------|--------|-----------|--------------|------|-------------|-------------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532647 | | | | | | | | | | | | | |
| WG532647PBW1 | PBW | 11/30/21 19:08 | | | | U | mg/L | | -20 | 20 | | | |
| WG532647LCSW3 | LCSW | 11/30/21 19:30 | WC211118-1 | 820.0001 | | 816.6 | mg/L | 100 | 90 | 110 | | | |
| WG532647PQV2 | PQV | 11/30/21 19:40 | WC210630-2 | 20 | | 24.4 | mg/L | 122 | 50 | 150 | | | |
| WG532647LCSW6 | LCSW | 11/30/21 22:20 | WC211118-1 | 820.0001 | | 820.8 | mg/L | 100 | 90 | 110 | | | |
| WG532647PBW2 | PBW | 11/30/21 22:27 | | | | 4.7 | mg/L | | -20 | 20 | | | |
| WG532647LCSW9 | LCSW | 12/01/21 1:34 | WC211118-1 | 820.0001 | | 823.8 | mg/L | 100 | 90 | 110 | | | |
| WG532647PBW3 | PBW | 12/01/21 1:41 | | | | 4.9 | mg/L | | -20 | 20 | | | |
| _70041-03DUP | DUP | 12/01/21 3:55 | | | 1130 | 1156.6 | mg/L | | 20 | 20 | 2 | 20 | |
| _70082-01DUP | DUP | 12/01/21 5:56 | | | 1130 | 1139.2 | mg/L | | | | 1 | 20 | |
| WG532647LCSW12 | | 12/01/21 5:36 | WC211118-1 | 820.0001 | 1130 | 808.9 | mg/L | 99 | 90 | 110 | | 20 | |
| | | | WOZ11110-1 | 020.0001 | | | | 99 | | | | | |
| NG532647PBW4 | PBW | 12/01/21 6:24 | WC211119 1 | 000 0004 | | U | mg/L | 400 | -20 | 20 | | | |
| VG532647LCSW15 | LUSW | 12/01/21 9:56 | WC211118-1 | 820.0001 | | 817 | mg/L | 100 | 90 | 110 | | | |
| Aluminum, disso | lved | | M200.7 I | CP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qua |
| WG532511 | | | | | | | | | | | | | |
| WG532511ICV | ICV | 11/29/21 18:04 | II211118-1 | 2 | | 1.992 | mg/L | 100 | 95 | 105 | | | |
| NG532511ICB | ICB | 11/29/21 18:10 | | | | U | mg/L | | -0.15 | 0.15 | | | |
| WG532511PQV | PQV | 11/29/21 18:14 | II211104-2 | .250325 | | .213 | mg/L | 85 | 70 | 130 | | | |
| NG532511SIC | SIC | 11/29/21 18:17 | II211027-2 | 200.410325 | | 209.1 | mg/L | 104 | 1 | 200 | | | |
| NG532511LFB | LFB | 11/29/21 18:24 | II211118-4 | 1.0008 | | 1.01 | mg/L | 101 | 85 | 115 | | | |
| _70041-03AS | AS | 11/29/21 18:40 | II211118-4 | 1.0008 | U | 1.013 | mg/L | 101 | 85 | 115 | | | |
| L70041-03ASD | ASD | 11/29/21 18:43 | II211118-4 | 1.0008 | U | 1.008 | mg/L | 101 | 85 | 115 | 0 | 20 | |
| WG532511CCV1 | CCV | 11/29/21 18:57 | II211118-2 | 1 | Ū | .973 | mg/L | 97 | 90 | 110 | ŭ | | |
| WG532511CCB1 | CCB | 11/29/21 19:00 | | | | U | mg/L | 0. | -0.15 | 0.15 | | | |
| WG532511CCV2 | CCV | 11/29/21 19:36 | II211118-2 | 1 | | .973 | mg/L | 97 | 90 | 110 | | | |
| | | | 11211110-2 | 1 | | .973 U | mg/L | 91 | | | | | |
| NG532511CCB2 | CCB | 11/29/21 19:39 | 112111110 2 | 4 | | | | 00 | -0.15 | 0.15 | | | |
| NG532511CCV3 NG532511CCB3 | CCV | 11/29/21 19:58 11/29/21 20:01 | II211118-2 | 1 | | .977 U | mg/L mg/L | 98 | 90 -0.15 | 110 0.15 | | | |
| WG332311CCB3 | ССВ | 11/29/21 20:01 | | | | | mg/L | | -0.15 | 0.15 | | | |
| Arsenic, dissolve | d | | M200.8 I | CP-MS | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qua |
| WG532669 | | | | | | | | | | | | | |
| NG532669ICV | ICV | 12/01/21 10:10 | MS211013-2 | .05 | | .05181 | mg/L | 104 | 90 | 110 | | | |
| NG532669ICB | ICB | 12/01/21 10:12 | | | | U | mg/L | | -0.00044 | 0.00044 | | | |
| WG532669LFB | LFB | 12/01/21 10:14 | MS211115-2 | .05005 | | .05071 | mg/L | 101 | 85 | 115 | | | |
| NG532669CCV1 | CCV | 12/01/21 10:32 | MS211119-2 | .1001 | | .10336 | mg/L | 103 | 90 | 110 | | | |
| WG532669CCB1 | ССВ | 12/01/21 10:34 | | | | U | mg/L | | -0.0006 | 0.0006 | | | |
| _69990-14AS | AS | 12/01/21 10:48 | MS211115-2 | .05005 | .00221 | .05603 | mg/L | 108 | 70 | 130 | | | |
| _69990-14ASD | ASD | 12/01/21 10:50 | MS211115-2 | .05005 | .00221 | .05073 | mg/L | 97 | 70 | 130 | 10 | 20 | |
| WG532669CCV2 | CCV | 12/01/21 10:54 | MS211119-2 | .1001 | | .10101 | mg/L | 101 | 90 | 110 | .0 | | |
| WG532669CCB2 | CCB | 12/01/21 10:54 | | .1001 | | U | mg/L | 101 | -0.0006 | 0.0006 | | | |
| * 000200300DZ | COD | 12/01/21 10:00 | | | | U | mg/L | | -0.0000 | 0.0000 | | | |
| NG532669CCV3 | CCV | 12/01/21 11:06 | MS211119-2 | .1001 | | .10077 | mg/L | 101 | 90 | 110 | | | |

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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.

| limits are in % R | ec. | | | | | | | | | | | | |
|-------------------|------|----------------|----------------|--------|--------|-------------|-------|------|----------|---------|-----|-------|------|
| Beryllium, disso | lved | | M200.7 I | CP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532511 | | | | | | | | | | | | | |
| WG532511ICV | ICV | 11/29/21 18:04 | II211118-1 | 2 | | 1.952 | mg/L | 98 | 95 | 105 | | | |
| WG532511ICB | ICB | 11/29/21 18:10 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG532511PQV | PQV | 11/29/21 18:14 | II211104-2 | .05 | | .045 | mg/L | 90 | 70 | 130 | | | |
| WG532511SIC | SIC | 11/29/21 18:17 | II211027-2 | .1 | | .092 | mg/L | 92 | 80 | 120 | | | |
| WG532511LFB | LFB | 11/29/21 18:24 | II211118-4 | .5005 | | .493 | mg/L | 99 | 85 | 115 | | | |
| L70041-03AS | AS | 11/29/21 18:40 | II211118-4 | .5005 | U | .475 | mg/L | 95 | 85 | 115 | | | |
| L70041-03ASD | ASD | 11/29/21 18:43 | II211118-4 | .5005 | U | .475 | mg/L | 95 | 85 | 115 | 0 | 20 | |
| WG532511CCV1 | CCV | 11/29/21 18:57 | II211118-2 | 1 | | .982 | mg/L | 98 | 90 | 110 | | | |
| WG532511CCB1 | ССВ | 11/29/21 19:00 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG532511CCV2 | CCV | 11/29/21 19:36 | II211118-2 | 1 | | .981 | mg/L | 98 | 90 | 110 | | | |
| WG532511CCB2 | ССВ | 11/29/21 19:39 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG532511CCV3 | CCV | 11/29/21 19:58 | II211118-2 | 1 | | .981 | mg/L | 98 | 90 | 110 | | | |
| WG532511CCB3 | CCB | 11/29/21 20:01 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| Boron, dissolve | d | | M200.7 I | CP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532511 | | | | | | | | | | | | | |
| WG532511ICV | ICV | 11/29/21 18:04 | II211118-1 | 2 | | 1.98 | mg/L | 99 | 95 | 105 | | | |
| WG532511ICB | ICB | 11/29/21 18:10 | | _ | | U | mg/L | | -0.09 | 0.09 | | | |
| WG532511PQV | PQV | 11/29/21 18:14 | II211104-2 | .1001 | | .092 | mg/L | 92 | 70 | 130 | | | |
| WG532511SIC | SIC | 11/29/21 18:17 | II211027-2 | .1001 | | .084 | mg/L | 84 | 80 | 120 | | | |
| WG532511LFB | LFB | 11/29/21 18:24 | II211118-4 | .5005 | | .5 | mg/L | 100 | 85 | 115 | | | |
| L70041-03AS | AS | 11/29/21 18:40 | II211118-4 | .5005 | .809 | 1.256 | mg/L | 89 | 85 | 115 | | | |
| L70041-03ASD | ASD | 11/29/21 18:43 | II211118-4 | .5005 | .809 | 1.266 | mg/L | 91 | 85 | 115 | 1 | 20 | |
| WG532511CCV1 | CCV | 11/29/21 18:57 | II211118-2 | 1 | .000 | .992 | mg/L | 99 | 90 | 110 | | 0 | |
| WG532511CCB1 | CCB | 11/29/21 19:00 | | • | | U | mg/L | | -0.09 | 0.09 | | | |
| WG532511CCV2 | CCV | 11/29/21 19:36 | II211118-2 | 1 | | .984 | mg/L | 98 | 90 | 110 | | | |
| WG532511CCB2 | CCB | 11/29/21 19:39 | | • | | U | mg/L | 00 | -0.09 | 0.09 | | | |
| WG532511CCV3 | CCV | 11/29/21 19:58 | II211118-2 | 1 | | .976 | mg/L | 98 | 90 | 110 | | | |
| WG532511CCB3 | CCB | 11/29/21 20:01 | | • | | U | mg/L | 00 | -0.09 | 0.09 | | | |
| Cadmium, disso | lvod | | M200.8 I | CD MS | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532669 | | | | | | | | | | | | | |
| | ICV/ | 12/01/21 10:12 | MS211013-2 | 0E | | 051105 | ma/l | 100 | 00 | 110 | | | |
| WG532669ICV | ICV | 12/01/21 10:10 | WISZ I 10 13-Z | .05 | | .051195 | mg/L | 102 | 90 | 110 | | | |
| WG532669ICB | ICB | 12/01/21 10:12 | MS211115-2 | 05005 | | .000108 | mg/L | 100 | -0.00011 | 0.00011 | | | |
| WG532669LFB | LFB | 12/01/21 10:14 | | .05005 | | .049899 | mg/L | 100 | 85 | 115 | | | |
| WG532669CCV1 | CCV | 12/01/21 10:32 | MS211119-2 | .1001 | | .102532 | mg/L | 102 | 90 | 110 | | | |
| WG532669CCB1 | CCB | 12/01/21 10:34 | MQ211115 2 | 05005 | | U 054050 | mg/L | 100 | -0.00015 | 0.00015 | | | |
| L69990-14AS | AS | 12/01/21 10:48 | MS211115-2 | .05005 | U | .051052 | mg/L | 102 | 70 70 | 130 | 0 | 00 | |
| L69990-14ASD | ASD | 12/01/21 10:50 | MS211115-2 | .05005 | U | .046486 | mg/L | 93 | 70 | 130 | 9 | 20 | |
| WG532669CCV2 | CCV | 12/01/21 10:54 | MS211119-2 | .1001 | | .101576 | mg/L | 101 | 90 | 110 | | | |
| WG532669CCB2 | CCB | 12/01/21 10:56 | M0044440.5 | 4004 | | U | mg/L | 400 | -0.00015 | 0.00015 | | | |
| WG532669CCV3 | CCV | 12/01/21 11:06 | MS211119-2 | .1001 | | .102548 | mg/L | 102 | 90 | 110 | | | |
| WG532669CCB3 | ССВ | 12/01/21 11:08 | | | | .000051 | mg/L | | -0.00015 | 0.00015 | | | |

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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 M2 | 200.7 | ICP |
|-----------------------|-------|-----|
|-----------------------|-------|-----|

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|----------------|------------|-----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG532511 | | | | | | | | | | | | | |
| WG532511ICV | ICV | 11/29/21 18:04 | II211118-1 | 100 | | 97.86 | mg/L | 98 | 95 | 105 | | | |
| WG532511ICB | ICB | 11/29/21 18:10 | | | | .18 | mg/L | | -0.3 | 0.3 | | | |
| WG532511PQV | PQV | 11/29/21 18:14 | II211104-2 | .50015 | | .63 | mg/L | 126 | 70 | 130 | | | |
| WG532511SIC | SIC | 11/29/21 18:17 | II211027-2 | 200.56015 | | 194.5 | mg/L | 97 | 1 | 200 | | | |
| WG532511LFB | LFB | 11/29/21 18:24 | II211118-4 | 67.98808 | | 68.63 | mg/L | 101 | 85 | 115 | | | |
| L70041-03AS | AS | 11/29/21 18:40 | II211118-4 | 67.98808 | 104 | 166 | mg/L | 91 | 85 | 115 | | | |
| L70041-03ASD | ASD | 11/29/21 18:43 | II211118-4 | 67.98808 | 104 | 165.7 | mg/L | 91 | 85 | 115 | 0 | 20 | |
| WG532511CCV1 | CCV | 11/29/21 18:57 | II211118-2 | 50 | | 48.83 | mg/L | 98 | 90 | 110 | | | |
| WG532511CCB1 | CCB | 11/29/21 19:00 | | | | .15 | mg/L | | -0.3 | 0.3 | | | |
| WG532511CCV2 | CCV | 11/29/21 19:36 | II211118-2 | 50 | | 48.69 | mg/L | 97 | 90 | 110 | | | |
| WG532511CCB2 | CCB | 11/29/21 19:39 | | | | .14 | mg/L | | -0.3 | 0.3 | | | |
| WG532511CCV3 | CCV | 11/29/21 19:58 | II211118-2 | 50 | | 48.65 | mg/L | 97 | 90 | 110 | | | |
| WG532511CCB3 | CCB | 11/29/21 20:01 | | | | .15 | mg/L | | -0.3 | 0.3 | | | |

| Chloride | SM4500CI-E |
|----------|------------|
| | |

| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|---------------|------|----------------|-------------|-------|--------|--------|-------|------|-------|-------|-----|-------|------|
| WG532858 | | | | | | | | | | | | | |
| WG532858ICV | ICV | 12/03/21 10:59 | WI210503-1 | 54.89 | | 53.96 | mg/L | 98 | 90 | 110 | | | |
| WG532858ICB | ICB | 12/03/21 11:00 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| WG532858LFB1 | LFB | 12/03/21 11:00 | WI210908-11 | 29.97 | | 30.36 | mg/L | 101 | 90 | 110 | | | |
| WG532858CCV1 | CCV | 12/03/21 11:06 | WI211201-1 | 49.95 | | 53.59 | mg/L | 107 | 90 | 110 | | | |
| WG532858CCB1 | CCB | 12/03/21 11:06 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| L70022-01AS | AS | 12/03/21 11:09 | WI210908-11 | 29.97 | 72.5 | 96.67 | mg/L | 81 | 90 | 110 | | | M2 |
| WG532858CCV2 | CCV | 12/03/21 11:12 | WI211201-1 | 49.95 | | 54.27 | mg/L | 109 | 90 | 110 | | | |
| WG532858CCB2 | CCB | 12/03/21 11:12 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| WG532858LFB2 | LFB | 12/03/21 11:15 | WI210908-11 | 29.97 | | 29.63 | mg/L | 99 | 90 | 110 | | | |
| WG532858CCV3 | CCV | 12/03/21 11:18 | WI211201-1 | 49.95 | | 53.84 | mg/L | 108 | 90 | 110 | | | |
| WG532858CCB3 | CCB | 12/03/21 11:18 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| WG532858CCV4 | CCV | 12/03/21 11:22 | WI211201-1 | 49.95 | | 54.33 | mg/L | 109 | 90 | 110 | | | |
| WG532858CCB4 | CCB | 12/03/21 11:23 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| WG532858CCV5 | CCV | 12/03/21 11:38 | WI211201-1 | 49.95 | | 54.25 | mg/L | 109 | 90 | 110 | | | |
| WG532858CCB5 | CCB | 12/03/21 11:38 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| L70022-02DUP | DUP | 12/03/21 11:40 | | | 159 | 157.56 | mg/L | | | | 1 | 20 | |
| WG532858CCV6 | CCV | 12/03/21 11:42 | WI211201-1 | 49.95 | | 53.76 | mg/L | 108 | 90 | 110 | | | |
| WG532858CCB6 | CCB | 12/03/21 11:42 | | | | .74 | mg/L | | -1.5 | 1.5 | | | |
| WG532858CCV9 | CCV | 12/03/21 12:15 | WI211201-1 | 49.95 | | 53.88 | mg/L | 108 | 90 | 110 | | | |
| WG532858CCB9 | CCB | 12/03/21 12:16 | | | | U | mg/L | | -1.5 | 1.5 | | | |
| WG532858CCV10 | CCV | 12/03/21 12:17 | WI211201-1 | 49.95 | | 54.63 | mg/L | 109 | 90 | 110 | | | |
| WG532858CCB10 | CCB | 12/03/21 12:17 | | | | .56 | mg/L | | -1.5 | 1.5 | | | |

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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.

| limits are in % Re | 9C. | | | | | | | | | | | | |
|------------------------------|------------|----------------------------------|--------------------------|--------|--------|------------|--------------|-----------|-------------|-------------|-----|-------|------|
| Chromium, disse | olved | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532631 | | | | | | | | | | | | | |
| WG532631ICV | ICV | 11/30/21 21:15 | II211118-1 | 2 | | 1.95 | mg/L | 98 | 95 | 105 | | | |
| WG532631ICB | ICB | 11/30/21 21:21 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG532631PQV | PQV | 11/30/21 21:24 | II211104-2 | .0502 | | .05 | mg/L | 100 | 70 | 130 | | | |
| WG532631SIC | SIC | 11/30/21 21:27 | II211027-2 | .1004 | | .103 | mg/L | 103 | 80 | 120 | | | |
| WG532631LFB | LFB | 11/30/21 21:33 | II211118-4 | .5005 | | .49 | mg/L | 98 | 85 | 115 | | | |
| L70065-01AS | AS | 11/30/21 22:01 | II211118-4 | .5005 | U | .512 | mg/L | 102 | 85 | 115 | | | |
| WG532631CCV1 | CCV | 11/30/21 22:04 | II211118-2 | 1 | | .996 | mg/L | 100 | 90 | 110 | | | |
| WG532631CCB1 | ССВ | 11/30/21 22:07 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| L70065-01ASD | ASD | 11/30/21 22:10 | II211118-4 | .5005 | U | .505 | mg/L | 101 | 85 | 115 | 1 | 20 | |
| WG532631CCV2 | CCV | 11/30/21 22:40 | II211118-2 | 1 | | .97 | mg/L | 97 | 90 | 110 | | | |
| WG532631CCB2 | ССВ | 11/30/21 22:43 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG532631CCV3 | CCV | 11/30/21 23:02 | II211118-2 | 1 | | .98 | mg/L | 98 | 90 | 110 | | | |
| WG532631CCB3 | ССВ | 11/30/21 23:05 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| Cobalt, dissolve | d | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532511 | .,,,,, | | | | | | | | | oppo. | | | |
| WG532511 | 101/ | 11/20/21 12:04 | II211118-1 | 2.04 | | 2.005 | ma/l | 100 | 0E | 105 | | | |
| | ICV | 11/29/21 18:04 | 11211110-1 | 2.01 | | 2.005 | mg/L | 100 | 95 | 105 | | | |
| WG532511ICB | ICB | 11/29/21 18:10 | 11044404.0 | 05005 | | U | mg/L | 0.4 | -0.06 | 0.06 | | | |
| WG532511PQV | PQV | 11/29/21 18:14 | II211104-2 | .05005 | | .047 | mg/L | 94 | 70 | 130 | | | |
| WG532511SIC | SIC | 11/29/21 18:17 | II211027-2 II211118-4 | .1001 | | .091 | mg/L | 91 | 80 | 120 | | | |
| WG532511LFB | LFB | 11/29/21 18:24 | II211118-4 | .5005 | | .496 | mg/L | 99 | 85 85 | 115 | | | |
| L70041-03AS | AS | 11/29/21 18:40 | II211118-4 | .5005 | U U | .485 | mg/L mg/L | 97 | 85 85 | 115 | 0 | 20 | |
| L70041-03ASD | ASD CCV | 11/29/21 18:43 11/29/21 18:57 | II211118-2 | .5005 | U | .486 | | 97 101 | 85 90 | 115 110 | 0 | 20 | |
| WG532511CCV1 | CCB | | 11211110-2 | 1.005 | | 1.016 U | mg/L | 101 | | | | | |
| WG532511CCB1 | | 11/29/21 19:00 | II211118-2 | 1 005 | | | mg/L | 101 | -0.06 | 0.06 | | | |
| WG532511CCV2 WG532511CCB2 | CCV CCB | 11/29/21 19:36 11/29/21 19:39 | 11211110-2 | 1.005 | | 1.012 U | mg/L | 101 | 90 | 110 0.06 | | | |
| WG532511CCB2 WG532511CCV3 | CCV | 11/29/21 19:59 | II211118-2 | 1.005 | | 1.008 | mg/L mg/L | 100 | -0.06 90 | | | | |
| WG532511CCV3 | CCB | 11/29/21 19:58 | 11211110-2 | 1.003 | | 1.008 U | mg/L | 100 | -0.06 | 110 0.06 | | | |
| WG332311CCB3 | ССВ | 11/29/21 20:01 | | | | | mg/L | | -0.00 | 0.00 | | | |
| Copper, dissolve | ed | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532511 | | | | | | | | | | | | | |
| WG532511ICV | ICV | 11/29/21 18:04 | II211118-1 | 2 | | 1.942 | mg/L | 97 | 95 | 105 | | | |
| WG532511ICB | ICB | 11/29/21 18:10 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG532511PQV | PQV | 11/29/21 18:14 | II211104-2 | .05 | | .047 | mg/L | 94 | 70 | 130 | | | |
| WG532511SIC | SIC | 11/29/21 18:17 | II211027-2 | .1 | | .097 | mg/L | 97 | 80 | 120 | | | |
| WG532511LFB | LFB | 11/29/21 18:24 | II211118-4 | .5 | | .488 | mg/L | 98 | 85 | 115 | | | |
| L70041-03AS | AS | 11/29/21 18:40 | II211118-4 | .5 | U | .489 | mg/L | 98 | 85 | 115 | | | |
| L70041-03ASD | ASD | 11/29/21 18:43 | II211118-4 | .5 | U | .485 | mg/L | 97 | 85 | 115 | 1 | 20 | |
| WG532511CCV1 | CCV | 11/29/21 18:57 | II211118-2 | 1 | | .974 | mg/L | 97 | 90 | 110 | | | |
| WG532511CCB1 | CCB | 11/29/21 19:00 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG532511CCV2 | CCV | 11/29/21 19:36 | II211118-2 | 1 | | .974 | mg/L | 97 | 90 | 110 | | | |
| WG532511CCB2 | CCB | 11/29/21 19:39 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG532511CCV3 | CCV | 11/29/21 19:58 | II211118-2 | 1 | | .975 | mg/L | 98 | 90 | 110 | | | |
| | | | | | | | | | | | | | |

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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 |
|--------------|------|----------------|------------|-------|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG532786 | | | | | | | | | | | | | |
| WG532786ICV | ICV | 12/02/21 12:57 | WC211129-1 | 2.002 | | 2.09 | mg/L | 104 | 90 | 110 | | | |
| WG532786ICB | ICB | 12/02/21 13:04 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG532786PQV | PQV | 12/02/21 13:09 | WC211011-2 | .3514 | | .36 | mg/L | 102 | 70 | 130 | | | |
| WG532786LFB1 | LFB | 12/02/21 13:13 | WC210803-9 | 5.02 | | 5.02 | mg/L | 100 | 90 | 110 | | | |
| WG532786CCV1 | CCV | 12/02/21 14:51 | WC211129-1 | 2.002 | | 2.18 | mg/L | 109 | 90 | 110 | | | |
| WG532786CCB1 | CCB | 12/02/21 14:57 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG532786CCV2 | CCV | 12/02/21 16:27 | WC211129-1 | 2.002 | | 2.11 | mg/L | 105 | 90 | 110 | | | |
| WG532786CCB2 | CCB | 12/02/21 16:35 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG532786LFB2 | LFB | 12/02/21 17:38 | WC210803-9 | 5.02 | | 4.84 | mg/L | 96 | 90 | 110 | | | |
| WG532786CCV3 | CCV | 12/02/21 18:21 | WC211129-1 | 2.002 | | 2.05 | mg/L | 102 | 90 | 110 | | | |
| WG532786CCB3 | CCB | 12/02/21 18:28 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG532786CCV4 | CCV | 12/02/21 20:01 | WC211129-1 | 2.002 | | 2.12 | mg/L | 106 | 90 | 110 | | | |
| WG532786CCB4 | CCB | 12/02/21 20:09 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| L69990-16AS | AS | 12/02/21 20:25 | WC210803-9 | 5.02 | .18 | 5.05 | mg/L | 97 | 90 | 110 | | | |
| L69990-16ASD | ASD | 12/02/21 20:33 | WC210803-9 | 5.02 | .18 | 5.05 | mg/L | 97 | 90 | 110 | 0 | 20 | |
| WG532786CCV5 | CCV | 12/02/21 21:33 | WC211129-1 | 2.002 | | 2.09 | mg/L | 104 | 90 | 110 | | | |
| WG532786CCB5 | CCB | 12/02/21 21:41 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG533168 | | | | | | | | | | | | | |
| WG533168ICV | ICV | 12/08/21 17:10 | WC211129-1 | 2.002 | | 2.13 | mg/L | 106 | 90 | 110 | | | |
| WG533168ICB | ICB | 12/08/21 17:14 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG533168PQV | PQV | 12/08/21 17:19 | WC211203-1 | .3514 | | .36 | mg/L | 102 | 70 | 130 | | | |
| WG533168LFB1 | LFB | 12/08/21 17:23 | WC210803-9 | 5.02 | | 5.17 | mg/L | 103 | 90 | 110 | | | |
| WG533168CCV1 | CCV | 12/08/21 18:49 | WC211129-1 | 2.002 | | 2.17 | mg/L | 108 | 90 | 110 | | | |
| WG533168CCB1 | CCB | 12/08/21 18:57 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| L70065-01AS | AS | 12/08/21 19:13 | WC210803-9 | 5.02 | U | 5.14 | mg/L | 102 | 90 | 110 | | | |
| L70065-01ASD | ASD | 12/08/21 19:21 | WC210803-9 | 5.02 | U | 5.14 | mg/L | 102 | 90 | 110 | 0 | 20 | |
| WG533168CCV2 | CCV | 12/08/21 20:21 | WC211129-1 | 2.002 | | 2.18 | mg/L | 109 | 90 | 110 | | | |
| WG533168CCB2 | CCB | 12/08/21 20:29 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG533168LFB2 | LFB | 12/08/21 21:13 | WC210803-9 | 5.02 | | 5.29 | mg/L | 105 | 90 | 110 | | | |
| WG533168CCV3 | CCV | 12/08/21 21:33 | WC211129-1 | 2.002 | | 2.17 | mg/L | 108 | 90 | 110 | | | |
| WG533168CCB3 | CCB | 12/08/21 21:41 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG533168CCV4 | CCV | 12/08/21 22:52 | WC211129-1 | 2.002 | | 2.2 | mg/L | 110 | 90 | 110 | | | |
| WG533168CCB4 | CCB | 12/08/21 22:57 | | | | U | mg/L | | -0.3 | 0.3 | | | |

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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.

| limits are in % R | ec. | | | | | | | | | | | | |
|------------------------------|------|----------------|------------|------------|--------|-------------|-------|------|----------|---------|-----|-------|------|
| Iron, dissolved | | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532511 | | | | | | | | | | | | | |
| WG532511ICV | ICV | 11/29/21 18:04 | II211118-1 | 2 | | 1.953 | mg/L | 98 | 95 | 105 | | | |
| WG532511ICB | ICB | 11/29/21 18:10 | | | | U | mg/L | | -0.18 | 0.18 | | | |
| WG532511PQV | PQV | 11/29/21 18:14 | II211104-2 | .150015 | | .142 | mg/L | 95 | 70 | 130 | | | |
| WG532511SIC | SIC | 11/29/21 18:17 | II211027-2 | 200.170015 | | 197.2 | mg/L | 99 | 1 | 200 | | | |
| WG532511LFB | LFB | 11/29/21 18:24 | II211118-4 | 1.0001 | | 1.002 | mg/L | 100 | 85 | 115 | | | |
| L70041-03AS | AS | 11/29/21 18:40 | II211118-4 | 1.0001 | U | .979 | mg/L | 98 | 85 | 115 | | | |
| L70041-03ASD | ASD | 11/29/21 18:43 | II211118-4 | 1.0001 | U | .971 | mg/L | 97 | 85 | 115 | 1 | 20 | |
| WG532511CCV1 | CCV | 11/29/21 18:57 | II211118-2 | 1 | | .984 | mg/L | 98 | 90 | 110 | | | |
| WG532511CCB1 | CCB | 11/29/21 19:00 | | | | U | mg/L | | -0.18 | 0.18 | | | |
| WG532511CCV2 | CCV | 11/29/21 19:36 | II211118-2 | 1 | | .986 | mg/L | 99 | 90 | 110 | | | |
| WG532511CCB2 | CCB | 11/29/21 19:39 | | | | U | mg/L | | -0.18 | 0.18 | | | |
| WG532511CCV3 | CCV | 11/29/21 19:58 | II211118-2 | 1 | | .982 | mg/L | 98 | 90 | 110 | | | |
| WG532511CCB3 | CCB | 11/29/21 20:01 | | | | U | mg/L | | -0.18 | 0.18 | | | |
| Lead, dissolved | | | M200.8 | ICP-MS | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532909 | | | | | | | | | | | | | |
| WG532909ICV | ICV | 12/03/21 16:38 | MS211013-2 | .05 | | .0525 | mg/L | 105 | 90 | 110 | | | |
| WG532909ICB | ICB | 12/03/21 16:40 | MOZITOTO Z | .03 | | .0323 U | mg/L | 103 | -0.00022 | 0.00022 | | | |
| WG532909LFB | LFB | 12/03/21 16:42 | MS211115-2 | .05005 | | .05173 | mg/L | 103 | 85 | 115 | | | |
| WG532909CCV1 | CCV | 12/03/21 17:00 | MS211119-2 | .25025 | | .24581 | mg/L | 98 | 90 | 110 | | | |
| WG532909CCV1 | CCB | 12/03/21 17:02 | WOZ11113-Z | .23023 | | .24301 U | mg/L | 90 | -0.0003 | 0.0003 | | | |
| L69990-14AS | AS | 12/03/21 17:02 | MS211115-2 | .05005 | U | .05223 | mg/L | 104 | 70 | 130 | | | |
| L69990-14ASD | ASD | 12/03/21 17:14 | MS211115-2 | .05005 | U | .0522 | mg/L | 104 | 70 | 130 | 1 | 20 | |
| WG532909CCV2 | CCV | 12/03/21 17:10 | MS211119-2 | .25025 | O | .24844 | mg/L | 99 | 90 | 110 | ' | 20 | |
| WG532909CCV2 | CCB | 12/03/21 17:21 | WOZTTTTO Z | .23023 | | .24044 U | mg/L | 33 | -0.0003 | 0.0003 | | | |
| WG532909CCV3 | CCV | 12/03/21 17:32 | MS211119-2 | .25025 | | .25099 | mg/L | 100 | 90 | 110 | | | |
| WG532909CCV3 | CCB | 12/03/21 17:34 | WOZTTTTO Z | .23023 | | .23099 U | mg/L | 100 | -0.0003 | 0.0003 | | | |
| WG532909CCV4 | CCV | 12/03/21 17:41 | MS211119-2 | .25025 | | .25348 | mg/L | 101 | 90 | 110 | | | |
| WG532909CCV4 WG532909CCB4 | CCB | 12/03/21 17:41 | | .23023 | | .23340 U | mg/L | 101 | -0.0003 | 0.0003 | | | |
| WG332303CCD4 | | 12/03/21 17.43 | | | | | mg/L | | -0.0003 | 0.0003 | | | |
| Lithium, dissolv | ed | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532511 | | | | | | | | | | | | | |
| WG532511ICV | ICV | 11/29/21 18:04 | II211118-1 | 2 | | 1.9982 | mg/L | 100 | 95 | 105 | | | |
| WG532511ICB | ICB | 11/29/21 18:10 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| WG532511PQV | PQV | 11/29/21 18:14 | II211104-2 | .03996 | | .0339 | mg/L | 85 | 70 | 130 | | | |
| WG532511SIC | SIC | 11/29/21 18:17 | II211027-2 | .0999 | | .0938 | mg/L | 94 | 80 | 120 | | | |
| WG532511LFB | LFB | 11/29/21 18:24 | II211118-4 | .999 | | 1.006 | mg/L | 101 | 85 | 115 | | | |
| L70041-03AS | AS | 11/29/21 18:40 | II211118-4 | .999 | .38 | 1.381 | mg/L | 100 | 85 | 115 | | | |
| L70041-03ASD | ASD | 11/29/21 18:43 | II211118-4 | .999 | .38 | 1.381 | mg/L | 100 | 85 | 115 | 0 | 20 | |
| WG532511CCV1 | CCV | 11/29/21 18:57 | II211118-2 | 1 | | .9959 | mg/L | 100 | 90 | 110 | | | |
| WG532511CCB1 | CCB | 11/29/21 19:00 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| WG532511CCV2 | CCV | 11/29/21 19:36 | II211118-2 | 1 | | .9958 | mg/L | 100 | 90 | 110 | | | |
| WG532511CCB2 | CCB | 11/29/21 19:39 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| WG532511CCV3 | CCV | 11/29/21 19:58 | II211118-2 | 1 | | .9975 | mg/L | 100 | 90 | 110 | | | |
| WG532511CCB3 | CCB | 11/29/21 20:01 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| | | | | | | | | | | | | | |

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WG532511CCB3

CCB

11/29/21 20:01

GCC ACZ Project ID: L70041

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, dis | solved | | M200.7 | ICP | | | | | | | | | |
|----------------|--------|----------------|------------|----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532511 | | | | | | | | | | | | | |
| WG532511ICV | ICV | 11/29/21 18:04 | II211118-1 | 100 | | 95.43 | mg/L | 95 | 95 | 105 | | | |
| WG532511ICB | ICB | 11/29/21 18:10 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG532511PQV | PQV | 11/29/21 18:14 | II211104-2 | 1.0001 | | 1.14 | mg/L | 114 | 70 | 130 | | | |
| WG532511SIC | SIC | 11/29/21 18:17 | II211027-2 | 201.0201 | | 204.9 | mg/L | 102 | 1 | 200 | | | |
| WG532511LFB | LFB | 11/29/21 18:24 | II211118-4 | 49.99847 | | 48.72 | mg/L | 97 | 85 | 115 | | | |
| L70041-03AS | AS | 11/29/21 18:40 | II211118-4 | 49.99847 | 43.2 | 88.98 | mg/L | 92 | 85 | 115 | | | |
| L70041-03ASD | ASD | 11/29/21 18:43 | II211118-4 | 49.99847 | 43.2 | 88.93 | mg/L | 91 | 85 | 115 | 0 | 20 | |
| WG532511CCV1 | CCV | 11/29/21 18:57 | II211118-2 | 50 | | 47.51 | mg/L | 95 | 90 | 110 | | | |
| WG532511CCB1 | ССВ | 11/29/21 19:00 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG532511CCV2 | CCV | 11/29/21 19:36 | II211118-2 | 50 | | 47.57 | mg/L | 95 | 90 | 110 | | | |
| WG532511CCB2 | ССВ | 11/29/21 19:39 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG532511CCV3 | CCV | 11/29/21 19:58 | II211118-2 | 50 | | 47.28 | mg/L | 95 | 90 | 110 | | | |
| WG532511CCB3 | CCB | 11/29/21 20:01 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| Manganese, dis | solved | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532511 | | | | | | | | | | | | | |
| WG532511ICV | ICV | 11/29/21 18:04 | II211118-1 | 2 | | 1.953 | mg/L | 98 | 95 | 105 | | | |
| WG532511ICB | ICB | 11/29/21 18:10 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG532511PQV | PQV | 11/29/21 18:14 | II211104-2 | .05005 | | .044 | mg/L | 88 | 70 | 130 | | | |
| WG532511SIC | SIC | 11/29/21 18:17 | II211027-2 | 50.10005 | | 47.62 | mg/L | 95 | 1 | 200 | | | |
| WG532511LFB | LFB | 11/29/21 18:24 | II211118-4 | .499 | | .497 | mg/L | 100 | 85 | 115 | | | |
| L70041-03AS | AS | 11/29/21 18:40 | II211118-4 | .499 | .27 | .742 | mg/L | 95 | 85 | 115 | | | |
| L70041-03ASD | ASD | 11/29/21 18:43 | II211118-4 | .499 | .27 | .741 | mg/L | 94 | 85 | 115 | 0 | 20 | |
| WG532511CCV1 | CCV | 11/29/21 18:57 | II211118-2 | 1 | | .985 | mg/L | 99 | 90 | 110 | | | |
| WG532511CCB1 | ССВ | 11/29/21 19:00 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG532511CCV2 | CCV | 11/29/21 19:36 | II211118-2 | 1 | | .983 | mg/L | 98 | 90 | 110 | | | |
| WG532511CCB2 | ССВ | 11/29/21 19:39 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| WG532511CCV3 | CCV | 11/29/21 19:58 | II211118-2 | 1 | | .982 | mg/L | 98 | 90 | 110 | | | |

mg/L

-0.03

0.03

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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.

| limits are in % R | ec. | | | | | | | | | | | | |
|--------------------|--------|----------------|--------------|-----------|-----------|-------------|-------|------|----------|---------|-----|-------|------|
| Mercury, dissolv | /ed | | M245.1 C | CVAA | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532380 | | | | | | | | | | | | | |
| WG532380ICV | ICV | 11/24/21 9:50 | HG211115-3 | .00501 | | .00498 | mg/L | 99 | 95 | 105 | | | |
| WG532380ICB | ICB | 11/24/21 9:51 | 1102111100 | .00001 | | .00430 U | mg/L | 33 | -0.0002 | 0.0002 | | | |
| | ЮВ | 11/24/21 9.51 | | | | O | 9/2 | | -0.0002 | 0.0002 | | | |
| WG532322 | | | | | | | | | | | | | |
| WG532322CCV1 | CCV | 11/24/21 12:17 | HG211115-3 | .00501 | | .00491 | mg/L | 98 | 90 | 110 | | | |
| WG532322CCB1 | CCB | 11/24/21 12:17 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| WG532322PQV | PQV | 11/24/21 12:18 | HG211115-5 | .001001 | | .00097 | mg/L | 97 | 70 | 130 | | | |
| WG532322LRB | LRB | 11/24/21 12:19 | | | | U | mg/L | | -0.00044 | 0.00044 | | | |
| WG532322LFB | LFB | 11/24/21 12:20 | HG211115-6 | .002002 | | .00193 | mg/L | 96 | 85 | 115 | | | |
| WG532322CCV2 | CCV | 11/24/21 12:28 | HG211115-3 | .00501 | | .00527 | mg/L | 105 | 90 | 110 | | | |
| WG532322CCB2 | CCB | 11/24/21 12:29 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| WG532322CCV3 | CCV | 11/24/21 12:39 | HG211115-3 | .00501 | | .00523 | mg/L | 104 | 90 | 110 | | | |
| WG532322CCB3 | CCB | 11/24/21 12:40 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| L70041-01LFM | LFM | 11/24/21 12:43 | HG211115-6 | .002002 | U | .00191 | mg/L | 95 | 85 | 115 | | | |
| L70041-01LFMD | LFMD | 11/24/21 12:44 | HG211115-6 | .002002 | U | .00187 | mg/L | 93 | 85 | 115 | 2 | 20 | |
| WG532322CCV4 | CCV | 11/24/21 12:48 | HG211115-3 | .00501 | | .00511 | mg/L | 102 | 90 | 110 | | | |
| WG532322CCB4 | CCB | 11/24/21 12:49 | | | | U | mg/L | | -0.0002 | 0.0002 | | | |
| Nickel, dissolve | d | | M200.7 I | СР | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532511 | | | | | | | | | | | | | |
| WG532511ICV | ICV | 11/29/21 18:04 | II211118-1 | 2 | | 1.9562 | mg/L | 98 | 95 | 105 | | | |
| WG532511ICB | ICB | 11/29/21 18:10 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| WG532511PQV | PQV | 11/29/21 18:14 | II211104-2 | .04 | | .0411 | mg/L | 103 | 70 | 130 | | | |
| WG532511SIC | SIC | 11/29/21 18:17 | II211027-2 | .1 | | .101 | mg/L | 101 | 80 | 120 | | | |
| WG532511LFB | LFB | 11/29/21 18:24 | II211118-4 | .5 | | .4988 | mg/L | 100 | 85 | 115 | | | |
| L70041-03AS | AS | 11/29/21 18:40 | II211118-4 | .5 | U | .4859 | mg/L | 97 | 85 | 115 | | | |
| L70041-03ASD | ASD | 11/29/21 18:43 | II211118-4 | .5 | U | .4881 | mg/L | 98 | 85 | 115 | 0 | 20 | |
| WG532511CCV1 | CCV | 11/29/21 18:57 | II211118-2 | 1 | | .9994 | mg/L | 100 | 90 | 110 | | | |
| WG532511CCB1 | ССВ | 11/29/21 19:00 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| WG532511CCV2 | CCV | 11/29/21 19:36 | II211118-2 | 1 | | .9967 | mg/L | 100 | 90 | 110 | | | |
| WG532511CCB2 | ССВ | 11/29/21 19:39 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| WG532511CCV3 | CCV | 11/29/21 19:58 | II211118-2 | 1 | | .9893 | mg/L | 99 | 90 | 110 | | | |
| WG532511CCB3 | CCB | 11/29/21 20:01 | | | | U | mg/L | | -0.024 | 0.024 | | | |
| Nitrate/Nitrite as | N diss | olved | M353 2 - | Automated | d Cadmiun | n Reduc | tion | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532147 | 71. | , , | | | | | | | | | | | |
| WG532147ICV | ICV | 11/20/21 0:20 | WI210904-1 | 2.4161 | | 2.268 | mg/L | 94 | 90 | 110 | | | |
| | | 11/20/21 0:20 | W1210904-1 | 2.4101 | | 2.200 U | mg/L | 94 | | | | | |
| WG532147ICB | ICB | | W/1211001 F | 2 | | | | 100 | -0.02 | 0.02 | | | |
| WG532147LFB | LFB | 11/20/21 0:25 | WI211001-5 | 2 | | 1.996 | mg/L | 100 | 90 | 110 | | | |
| WG532147CCP1 | CCV | 11/20/21 0:35 | WI211113-1 | 2 | | 1.953 | mg/L | 98 | 90 | 110 | | | |
| WG532147CCB1 | CCB | 11/20/21 0:38 | W/1211001 F | 2 | 0 | U | mg/L | 00 | -0.02 | 0.02 | | | |
| L70021-02AS | AS | 11/20/21 0:47 | WI211001-5 | 2 | .9 | 2.853 | mg/L | 98 | 90 | 110 | ^ | 20 | D.A |
| L70022-01DUP | DUP | 11/20/21 0:50 | \N/I244442.4 | 2 | .123 | .123 | mg/L | 00 | 00 | 110 | 0 | 20 | RA |
| WG532147CCV2 | CCV | 11/20/21 0:52 | WI211113-1 | 2 | | 1.951 | mg/L | 98 | 90 | 110 | | | |
| WG532147CCB2 | CCB | 11/20/21 0:55 | \N/I244442.4 | 0 | | U 1 020 | mg/L | 00 | -0.02 | 0.02 | | | |
| WG532147CCR3 | CCV | 11/20/21 1:09 | WI211113-1 | 2 | | 1.929 U | mg/L | 96 | 90 | 110 | | | |
| WG532147CCB3 | ССВ | 11/20/21 1:13 | | | | U | mg/L | | -0.02 | 0.02 | | | |

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10

L70043-01DUP

DUP

11/24/21 14:35

GCC ACZ Project ID: L70041

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, diss | olved | | M353.2 | - Automated | l Cadmiur | n Reduc | tion | | | | | | |
|--------------------|----------|----------------|------------|-------------|-----------|---------|-------|------|-------|-------|-----|-------|------|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532147 | | | | | | | | | | | | | |
| WG532147ICV | ICV | 11/20/21 0:20 | WI210904-1 | .6089 | | .585 | mg/L | 96 | 90 | 110 | | | |
| WG532147ICB | ICB | 11/20/21 0:21 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| WG532147LFB | LFB | 11/20/21 0:25 | WI211001-5 | 1 | | .976 | mg/L | 98 | 90 | 110 | | | |
| WG532147CCV1 | CCV | 11/20/21 0:35 | WI211113-1 | 1 | | .985 | mg/L | 99 | 90 | 110 | | | |
| WG532147CCB1 | CCB | 11/20/21 0:38 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| L70021-02AS | AS | 11/20/21 0:47 | WI211001-5 | 1 | U | .982 | mg/L | 98 | 90 | 110 | | | |
| L70022-01DUP | DUP | 11/20/21 0:50 | | | .022 | .021 | mg/L | | | | 5 | 20 | RA |
| WG532147CCV2 | CCV | 11/20/21 0:52 | WI211113-1 | 1 | | .979 | mg/L | 98 | 90 | 110 | | | |
| WG532147CCB2 | CCB | 11/20/21 0:55 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| WG532147CCV3 | CCV | 11/20/21 1:09 | WI211113-1 | 1 | | .984 | mg/L | 98 | 90 | 110 | | | |
| WG532147CCB3 | CCB | 11/20/21 1:13 | | | | U | mg/L | | -0.01 | 0.01 | | | |
| Potassium, diss | olved | | M200.7 | ICP | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532511 | | | | | | | | | | | | | |
| WG532511ICV | ICV | 11/29/21 18:04 | II211118-1 | 20 | | 19.83 | mg/L | 99 | 95 | 105 | | | |
| WG532511ICB | ICB | 11/29/21 18:10 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG532511PQV | PQV | 11/29/21 18:14 | II211104-2 | .9958 | | 1.1 | mg/L | 110 | 70 | 130 | | | |
| WG532511SIC | SIC | 11/29/21 18:17 | II211027-2 | .9958 | | 1.09 | mg/L | 109 | 80 | 120 | | | |
| WG532511LFB | LFB | 11/29/21 18:24 | II211118-4 | 99.96008 | | 100.7 | mg/L | 101 | 85 | 115 | | | |
| L70041-03AS | AS | 11/29/21 18:40 | II211118-4 | 99.96008 | 6.31 | 107 | mg/L | 101 | 85 | 115 | | | |
| L70041-03ASD | ASD | 11/29/21 18:43 | II211118-4 | 99.96008 | 6.31 | 106.2 | mg/L | 100 | 85 | 115 | 1 | 20 | |
| WG532511CCV1 | CCV | 11/29/21 18:57 | II211118-2 | 10 | | 10.1 | mg/L | 101 | 90 | 110 | | | |
| WG532511CCB1 | CCB | 11/29/21 19:00 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG532511CCV2 | CCV | 11/29/21 19:36 | II211118-2 | 10 | | 10 | mg/L | 100 | 90 | 110 | | | |
| WG532511CCB2 | CCB | 11/29/21 19:39 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG532511CCV3 | CCV | 11/29/21 19:58 | II211118-2 | 10 | | 9.96 | mg/L | 100 | 90 | 110 | | | |
| WG532511CCB3 | CCB | 11/29/21 20:01 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| Residue, Filteral | ole (TDS |) @180C | SM2540 | С | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
| WG532428 | | | | | | | | | | | | | |
| WG532428PBW | PBW | 11/24/21 14:04 | | | | U | mg/L | | -20 | 20 | | | |
| WG532428LCSW | LCSW | 11/24/21 14:06 | PCN64720 | 1000 | | 970 | mg/L | 97 | 80 | 120 | | | |

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1860

1868

mg/L

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 | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|----------------|------------|-----|--------|--------|-------|------|----------|---------|-----|-------|-------|
| WG532669 | | | | | | | | | | | | | |
| WG532669ICV | ICV | 12/01/21 10:10 | MS211013-2 | .05 | | .05242 | mg/L | 105 | 90 | 110 | | | |
| WG532669ICB | ICB | 12/01/21 10:12 | | | | U | mg/L | | -0.00022 | 0.00022 | | | |
| WG532669LFB | LFB | 12/01/21 10:14 | MS211115-2 | .05 | | .05192 | mg/L | 104 | 85 | 115 | | | |
| WG532669CCV1 | CCV | 12/01/21 10:32 | MS211119-2 | .25 | | .26251 | mg/L | 105 | 90 | 110 | | | |
| L69990-14AS | AS | 12/01/21 10:48 | MS211115-2 | .05 | .00011 | .05642 | mg/L | 113 | 70 | 130 | | | |
| L69990-14ASD | ASD | 12/01/21 10:50 | MS211115-2 | .05 | .00011 | .0517 | mg/L | 103 | 70 | 130 | 9 | 20 | |
| WG532669CCV2 | CCV | 12/01/21 10:54 | MS211119-2 | .25 | | .26119 | mg/L | 104 | 90 | 110 | | | |
| WG532669CCB2 | CCB | 12/01/21 10:56 | | | | .0004 | mg/L | | -0.0003 | 0.0003 | | | BB BE |
| WG532669CCV3 | CCV | 12/01/21 11:06 | MS211119-2 | .25 | | .26203 | mg/L | 105 | 90 | 110 | | | |
| WG532669CCB3 | CCB | 12/01/21 11:08 | | | | .00042 | mg/L | | -0.0003 | 0.0003 | | | BB BE |
| WG532909 | | | | | | | | | | | | | |
| WG532909ICV | ICV | 12/03/21 16:38 | MS211013-2 | .05 | | .05181 | mg/L | 104 | 90 | 110 | | | |
| WG532909ICB | ICB | 12/03/21 16:40 | | | | U | mg/L | | -0.00022 | 0.00022 | | | |
| WG532909LFB | LFB | 12/03/21 16:42 | MS211115-2 | .05 | | .04997 | mg/L | 100 | 85 | 115 | | | |
| WG532909CCV1 | CCV | 12/03/21 17:00 | MS211119-2 | .25 | | .24441 | mg/L | 98 | 90 | 110 | | | |
| WG532909CCB1 | CCB | 12/03/21 17:02 | | | | .0003 | mg/L | | -0.0003 | 0.0003 | | | BE |
| L69990-14AS | AS | 12/03/21 17:14 | MS211115-2 | .05 | U | .05432 | mg/L | 109 | 70 | 130 | | | |
| L69990-14ASD | ASD | 12/03/21 17:16 | MS211115-2 | .05 | U | .05452 | mg/L | 109 | 70 | 130 | 0 | 20 | |
| WG532909CCV2 | CCV | 12/03/21 17:21 | MS211119-2 | .25 | | .23788 | mg/L | 95 | 90 | 110 | | | |
| WG532909CCB2 | CCB | 12/03/21 17:23 | | | | .00018 | mg/L | | -0.0003 | 0.0003 | | | |
| WG532909CCV3 | CCV | 12/03/21 17:32 | MS211119-2 | .25 | | .25189 | mg/L | 101 | 90 | 110 | | | |
| WG532909CCB3 | CCB | 12/03/21 17:34 | | | | .00024 | mg/L | | -0.0003 | 0.0003 | | | |
| WG532909CCV4 | CCV | 12/03/21 17:41 | MS211119-2 | .25 | | .25579 | mg/L | 102 | 90 | 110 | | | |
| WG532909CCB4 | CCB | 12/03/21 17:43 | | | | .00015 | mg/L | | -0.0003 | 0.0003 | | | |

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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 | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|----------------|------------|----------|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG532511 | | | | | | | | | | | | | |
| WG532511ICV | ICV | 11/29/21 18:04 | II211118-1 | 100 | | 99.34 | mg/L | 99 | 95 | 105 | | | |
| WG532511ICB | ICB | 11/29/21 18:10 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG532511PQV | PQV | 11/29/21 18:14 | II211104-2 | 1.0053 | | 1.04 | mg/L | 103 | 70 | 130 | | | |
| WG532511SIC | SIC | 11/29/21 18:17 | II211027-2 | 1.0053 | | 1.08 | mg/L | 107 | 80 | 120 | | | |
| WG532511LFB | LFB | 11/29/21 18:24 | II211118-4 | 100.0086 | | 100.9 | mg/L | 101 | 85 | 115 | | | |
| L70041-03AS | AS | 11/29/21 18:40 | II211118-4 | 100.0086 | 1220 | 1248 | mg/L | 28 | 85 | 115 | | | M3 |
| L70041-03ASD | ASD | 11/29/21 18:43 | II211118-4 | 100.0086 | 1220 | 1252 | mg/L | 32 | 85 | 115 | 0 | 20 | М3 |
| WG532511CCV1 | CCV | 11/29/21 18:57 | II211118-2 | 50 | | 49.86 | mg/L | 100 | 90 | 110 | | | |
| WG532511CCB1 | CCB | 11/29/21 19:00 | | | | .23 | mg/L | | -0.6 | 0.6 | | | |
| WG532511CCV2 | CCV | 11/29/21 19:36 | II211118-2 | 50 | | 49.68 | mg/L | 99 | 90 | 110 | | | |
| WG532511CCB2 | CCB | 11/29/21 19:39 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG532511CCV3 | CCV | 11/29/21 19:58 | II211118-2 | 50 | | 49.66 | mg/L | 99 | 90 | 110 | | | |
| WG532511CCB3 | CCB | 11/29/21 20:01 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG532584 | | | | | | | | | | | | | |
| WG532584ICV | ICV | 11/30/21 11:49 | II211118-1 | 100 | | 99.52 | mg/L | 100 | 95 | 105 | | | |
| WG532584ICB | ICB | 11/30/21 11:55 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| WG532584PQV | PQV | 11/30/21 11:58 | II211104-2 | 1.0053 | | 1.01 | mg/L | 100 | 70 | 130 | | | |
| WG532584SIC | SIC | 11/30/21 12:01 | II211027-2 | 1.0053 | | 1.06 | mg/L | 105 | 80 | 120 | | | |
| WG532584LFB | LFB | 11/30/21 12:07 | II211118-4 | 100.0086 | | 98.45 | mg/L | 98 | 85 | 115 | | | |
| L70067-01AS | AS | 11/30/21 12:35 | II211118-4 | 100.0086 | 7.04 | 105.7 | mg/L | 99 | 85 | 115 | | | |
| WG532584CCV1 | CCV | 11/30/21 12:38 | II211118-2 | 50 | | 49.47 | mg/L | 99 | 90 | 110 | | | |
| WG532584CCB1 | CCB | 11/30/21 12:41 | | | | U | mg/L | | -0.6 | 0.6 | | | |
| L70067-01ASD | ASD | 11/30/21 12:44 | II211118-4 | 100.0086 | 7.04 | 106.5 | mg/L | 99 | 85 | 115 | 1 | 20 | |
| WG532584CCV2 | CCV | 11/30/21 12:50 | II211118-2 | 50 | | 49.2 | mg/L | 98 | 90 | 110 | | | |
| WG532584CCB2 | CCB | 11/30/21 12:53 | | | | U | mg/L | | -0.6 | 0.6 | | | |

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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 D516-02/-07/-11 - TURBIDIMETRIC

| Juliate | | | D310-02/-C | 777-11-1 | CINDIDIN | | | | | | | | |
|-----------------|------|----------------|------------|----------|----------|--------|-------|------|-------|-------|-----|-------|-----|
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qua |
| NG532901 | | | | | | | | | | | | | |
| WG532901ICB | ICB | 12/03/21 10:47 | | | | U | mg/L | | -3 | 3 | | | |
| WG532901ICV | ICV | 12/03/21 10:47 | WI211129-1 | 20 | | 20.7 | mg/L | 104 | 90 | 110 | | | |
| WG532901CCV1 | CCV | 12/03/21 14:41 | WI211129-2 | 25 | | 25.6 | mg/L | 102 | 90 | 110 | | | |
| WG532901CCB1 | CCB | 12/03/21 14:41 | | | | U | mg/L | | -3 | 3 | | | |
| WG532901LFB | LFB | 12/03/21 14:41 | WI210105-3 | 10 | | 10.8 | mg/L | 108 | 90 | 110 | | | |
| -70030-01DUP | DUP | 12/03/21 14:41 | | | 16.3 | 15.8 | mg/L | | | | 3 | 20 | |
| WG532901CCV2 | CCV | 12/03/21 14:43 | WI211129-2 | 25 | | 25.5 | mg/L | 102 | 90 | 110 | | | |
| WG532901CCB2 | CCB | 12/03/21 14:43 | | | | U | mg/L | | -3 | 3 | | | |
| WG532901CCV3 | CCV | 12/03/21 14:44 | WI211129-2 | 25 | | 25.4 | mg/L | 102 | 90 | 110 | | | |
| WG532901CCB3 | CCB | 12/03/21 14:44 | | | | U | mg/L | | -3 | 3 | | | |
| WG532901CCV4 | CCV | 12/03/21 14:46 | WI211129-2 | 25 | | 25.3 | mg/L | 101 | 90 | 110 | | | |
| WG532901CCB4 | CCB | 12/03/21 14:46 | | | | U | mg/L | | -3 | 3 | | | |
| WG532901CCV5 | CCV | 12/03/21 14:51 | WI211129-2 | 25 | | 25 | mg/L | 100 | 90 | 110 | | | |
| VG532901CCB5 | CCB | 12/03/21 14:51 | | | | U | mg/L | | -3 | 3 | | | |
| WG532901CCV6 | CCV | 12/03/21 14:54 | WI211129-2 | 25 | | 25.1 | mg/L | 100 | 90 | 110 | | | |
| WG532901CCB6 | CCB | 12/03/21 14:54 | | | | U | mg/L | | -3 | 3 | | | |
| WG532901CCV7 | CCV | 12/03/21 15:20 | WI211129-2 | 25 | | 25.2 | mg/L | 101 | 90 | 110 | | | |
| WG532901CCB7 | CCB | 12/03/21 15:20 | | | | U | mg/L | | -3 | 3 | | | |
| WG532901CCV8 | CCV | 12/03/21 15:21 | WI211129-2 | 25 | | 25.2 | mg/L | 101 | 90 | 110 | | | |
| VG532901CCB8 | CCB | 12/03/21 15:22 | | | | U | mg/L | | -3 | 3 | | | |
| WG532901CCV9 | CCV | 12/03/21 16:31 | WI211129-2 | 25 | | 25.1 | mg/L | 100 | 90 | 110 | | | |
| WG532901CCB9 | CCB | 12/03/21 16:31 | | | | U | mg/L | | -3 | 3 | | | |
| _70041-01AS | AS | 12/03/21 16:31 | SO4TURB20X | 50 | 3750 | 3783.9 | mg/L | 68 | 90 | 110 | | | М3 |
| WG532901CCV10 | CCV | 12/03/21 16:33 | WI211129-2 | 25 | | 25.1 | mg/L | 100 | 90 | 110 | | | |
| WG532901CCB10 | CCB | 12/03/21 16:33 | | | | U | mg/L | | -3 | 3 | | | |
| WG532901CCV11 | CCV | 12/03/21 16:35 | WI211129-2 | 25 | | 25 | mg/L | 100 | 90 | 110 | | | |
| VG532901CCB11 | CCB | 12/03/21 16:35 | | | | U | mg/L | | -3 | 3 | | | |
| /anadium, disso | lved | | M200.7 IC | P | | | | | | | | | |
| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qua |
| NG532584 | | | | | | | | | | | | | |

| ACZ ID | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|----------------|------------|---------|--------|-------|-------|------|--------|-------|-----|-------|------|
| WG532584 | | | | | | | | | | | | | |
| WG532584ICV | ICV | 11/30/21 11:49 | II211118-1 | 2 | | 2.037 | mg/L | 102 | 95 | 105 | | | |
| WG532584ICB | ICB | 11/30/21 11:55 | | | | U | mg/L | | -0.015 | 0.015 | | | |
| WG532584PQV | PQV | 11/30/21 11:58 | II211104-2 | .025025 | | .024 | mg/L | 96 | 70 | 130 | | | |
| WG532584SIC | SIC | 11/30/21 12:01 | II211027-2 | .1001 | | .101 | mg/L | 101 | 80 | 120 | | | |
| WG532584LFB | LFB | 11/30/21 12:07 | II211118-4 | .5005 | | .5036 | mg/L | 101 | 85 | 115 | | | |
| L70067-01AS | AS | 11/30/21 12:35 | II211118-4 | .5005 | U | .4932 | mg/L | 99 | 85 | 115 | | | |
| WG532584CCV1 | CCV | 11/30/21 12:38 | II211118-2 | 1 | | 1.005 | mg/L | 101 | 90 | 110 | | | |
| WG532584CCB1 | CCB | 11/30/21 12:41 | | | | U | mg/L | | -0.03 | 0.03 | | | |
| L70067-01ASD | ASD | 11/30/21 12:44 | II211118-4 | .5005 | U | .505 | mg/L | 101 | 85 | 115 | 2 | 20 | |
| WG532584CCV2 | CCV | 11/30/21 12:50 | II211118-2 | 1 | | .982 | mg/L | 98 | 90 | 110 | | | |
| WG532584CCB2 | CCB | 11/30/21 12:53 | | | | U | mg/L | | -0.03 | 0.03 | | | |

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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 | Туре | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec% | Lower | Upper | RPD | Limit | Qual |
|--------------|------|----------------|------------|--------|--------|-------|-------|------|-------|-------|-----|-------|------|
| WG532511 | | | | | | | | | | | | | |
| WG532511ICV | ICV | 11/29/21 18:04 | II211118-1 | 2 | | 1.998 | mg/L | 100 | 95 | 105 | | | |
| WG532511ICB | ICB | 11/29/21 18:10 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG532511PQV | PQV | 11/29/21 18:14 | II211104-2 | .05015 | | .047 | mg/L | 94 | 70 | 130 | | | |
| WG532511SIC | SIC | 11/29/21 18:17 | II211027-2 | .1003 | | .095 | mg/L | 95 | 80 | 120 | | | |
| WG532511LFB | LFB | 11/29/21 18:24 | II211118-4 | .50045 | | .517 | mg/L | 103 | 85 | 115 | | | |
| L70041-03AS | AS | 11/29/21 18:40 | II211118-4 | .50045 | U | .523 | mg/L | 105 | 85 | 115 | | | |
| L70041-03ASD | ASD | 11/29/21 18:43 | II211118-4 | .50045 | U | .524 | mg/L | 105 | 85 | 115 | 0 | 20 | |
| WG532511CCV1 | CCV | 11/29/21 18:57 | II211118-2 | 1 | | .999 | mg/L | 100 | 90 | 110 | | | |
| WG532511CCB1 | CCB | 11/29/21 19:00 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG532511CCV2 | CCV | 11/29/21 19:36 | II211118-2 | 1 | | .998 | mg/L | 100 | 90 | 110 | | | |
| WG532511CCB2 | CCB | 11/29/21 19:39 | | | | U | mg/L | | -0.06 | 0.06 | | | |
| WG532511CCV3 | CCV | 11/29/21 19:58 | II211118-2 | 1 | | .994 | mg/L | 99 | 90 | 110 | | | |
| WG532511CCB3 | CCB | 11/29/21 20:01 | | | | U | mg/L | | -0.06 | 0.06 | | | |

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ACZ Project ID: L70041 **GCC Rio Grande**

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|-----------|----------|---------------------------------|---|------|---|
| L70041-01 | WG532858 | Chloride | SM4500CI-E | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | WG532147 | Nitrate/Nitrite as N, dissolved | M353.2 - 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, dissolved | M353.2 - 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). |
| | WG532428 | Residue, Filterable (TDS) @180C | SM2540C | N1 | See Case Narrative. |
| | WG532511 | Sodium, dissolved | M200.7 ICP | М3 | 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. |
| | WG532901 | Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 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. |
| L70041-02 | WG532858 | Chloride | SM4500CI-E | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | WG532147 | Nitrate/Nitrite as N, dissolved | M353.2 - 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, dissolved | M353.2 - 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). |
| | WG532428 | Residue, Filterable (TDS) @180C | SM2540C | N1 | See Case Narrative. |
| | WG532669 | Selenium, dissolved | M200.8 ICP-MS | ВВ | Target analyte detected in calibration blank at or above acceptance limit. Sample value was > 10X the concentration in the calibration blank. |
| | WG532511 | Sodium, 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. |
| | WG532901 | Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 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. |
| L70041-03 | NG532858 | Chloride | SM4500CI-E | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | WG532147 | Nitrate/Nitrite as N, dissolved | M353.2 - 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, dissolved | M353.2 - 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). |
| | WG532428 | Residue, Filterable (TDS) @180C | SM2540C | N1 | See Case Narrative. |
| | WG532669 | Selenium, dissolved | M200.8 ICP-MS | BE | Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [< MDL]. |
| | WG532901 | Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | М3 | 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. |

REPAD.15.06.05.01

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| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|-----------|----------|---------------------------------|--------------------------------------|------|---|
| L70041-04 | WG532858 | Chloride | SM4500CI-E | M2 | Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable. |
| | WG532147 | Nitrate/Nitrite as N, dissolved | M353.2 - 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, dissolved | M353.2 - 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). |
| | WG532428 | Residue, Filterable (TDS) @180C | SM2540C | N1 | See Case Narrative. |
| | WG532669 | Selenium, dissolved | M200.8 ICP-MS | BE | Target analyte in continuing calibration blank (CCB) at or above the acceptance criteria. Target analyte was not detected in the sample [< MDL]. |
| | WG532901 | Sulfate | D516-02/-07/-11 - TURBIDIMETRIC | 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. |

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GCC Rio Grande ACZ Project ID: L70041

No certification qualifiers associated with this analysis

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Sample Receipt

GCC Rio Grande ACZ Project ID: L70041

Date Received: 11/19/2021 11:37

Received By:

Date Printed: 11/22/2021

| Date F | rinted: | 11/ | 22/2021 |
|---|-----------|-----------|-----------|
| Receipt Verification | | | |
| | YES | NO | NA |
| 1) Is a foreign soil permit included for applicable samples? | | | Х |
| 2) Is the Chain of Custody form or other directive shipping papers present? | X | | |
| 3) Does this project require special handling procedures such as CLP protocol? | | Х | |
| 4) Are any samples NRC licensable material? | | | Х |
| 5) If samples are received past hold time, proceed with requested short hold time analyses? | X | | |
| 6) Is the Chain of Custody form complete and accurate? | X | | |
| 7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples? | | Х | |
| Samples/Containers | | | |
| | YES | NO | NA |
| 8) Are all containers intact and with no leaks? | X | | |
| 9) Are all labels on containers and are they intact and legible? | X | | |
| 10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time? | X | | |
| 11) For preserved bottle types, was the pH checked and within limits? 1 | X | | |
| 12) Is there sufficient sample volume to perform all requested work? | Х | | |
| 13) Is the custody seal intact on all containers? | | | X |
| 14) Are samples that require zero headspace acceptable? | | | Х |
| 15) Are all sample containers appropriate for analytical requirements? | Х | | |
| 16) Is there an Hg-1631 trip blank present? | | | Х |
| 17) Is there a VOA trip blank present? | | | Х |
| 18) Were all samples received within hold time? | Х | | |
| | NA indica | tes Not A | oplicable |

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

| Cooler Id | Temp(°C) | Temp Criteria(°C) | Rad(µR/Hr) | Custody Seal Intact? | | |
|-----------|----------|----------------------|------------|----------------------|--|--|
| | | | | | | |
| 6635 | 1.1 | <=6.0 | 15 | N/A | | |

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.



Sample Receipt

GCC Rio Grande ACZ Project ID: L70041

Date Received: 11/19/2021 11:37

Received By:

Date Printed: 11/22/2021

REPAD LPII 2012-03

L70041-2112091439 Page 24 of 26

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), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

| ACZ Lab | orator | ies, Inc | | 70 | $\mathcal{D}_{\mathcal{L}}$ | | С | HAII | V of | CUS | TOI | DΥ |
|--|-------------|-------------------|--------------------------------|----------------|-----------------------------|------------|-------------|------------------|--------------|--------------|-------------|--------|
| 2773 Downhill Drive Steamboat S | prings, CO | 80487 (800) 33 | 4-5493 | ,) | | | | | | | | |
| Report to: Name: Diana Furman | | | | | | 270 1 | · |) d | DI | - 00 | 040 | 0.4 |
| Company: GCC Rio Grand | do Inc | | 4 | Addre | ss: 3 | 3/2 L | .ime F | koad, | Puebl | o, CC | 810 | 04 |
| E-mail: dfurman@gcc.cor | | | - | T-1 | hone: | /710\ | 647.6 | 961 | | | | |
| | 11 | | | reiep | none: | (713) | 047-0 | 1001 | | | | |
| Copy of Report to: Name: Sen Wellow | | <u>.</u> | | | | | · ~ | | | | | |
| Name: Gen Wellow Company: Agrianity | | | - | E-mai | <u> </u> | cello | <u> </u> | aqu | onix | con | <u> </u> | |
| | | | | генер | hone: | (310 | <u>) ሄଏ</u> | 0-5 | 380 | | | |
| Invoice to: | | | 1 | iii | | | | | | | | |
| Name: Diana Furman | la la a | | - | Addre | ss: 33 | 372 Li | me R | oad, f | Pueblo | o, CO | 8100 |)4 |
| Company: GCC Rio Grand E-mail: dfurman@gcc.con | | | - | | | (740) | 647.6 | 004 | | | | |
| If sample(s) received past holding | | or if insufficio | nt HT re | | hone: | <u> </u> | 047-0 | 1 00 | | YES | × | |
| analysis before expiration, shall | ACZ procee | d with request | ed short | HT and | alyses? | | | | | NO | | |
| If "NO" then ACZ will contact client for further instru Are samples for SDWA Compliar | | | ted, ACZ will | | th the reque | sted analy | | | ed, and data | will be qua | lified | |
| If yes, please include state forms | | 9 | to PQL f | Yes or Colo | rado. | ļ | No | × | 1 | | | |
| Sampler's Name: <u>En Kellerd</u> | *** | er's Site Inform | | State_ | | | Zip co | _{de} 81 | 004 | Time Z | one N | IDT |
| *Sampler's Signature: | 1 | | o the authenti with the sam | | | | | | | ing the time | /date/locat | ion or |
| PROJECT INFORMATION | | _ | | | ANA | YSES RE | QUESTE | D (attach | list or use | quote nu | mber) | |
| Quote #: GW-COMPLIANC | E 03/27/2 | 2019 | | 2 | ř | | | | | | | |
| PO#: N/A | | | | of Containers | r attached quote but pH | | | | | | | |
| Reporting state for compliance test | ting: Color | ado | | Ö | hed q | | | | | | | |
| Check box if samples include NRC | | | | | · attac pH | | | | | | | |
| SAMPLE IDENTIFICATION | | re:TIME | Matrix | _ | P G | | | | | | | |
| MW-6 | 11/14/21 | 14:26 | GW | 3 | × | | | | | | | |
| MW-7 | | 12:01 | GW | 3 | X | | | | | | | |
| MW-2B MW-8 | 11/18/21 | 14:06 | GW | 3 | X | H | | | | | <u> </u> | |
| 10100-0 | 11/18/51 | 12.21 | GVV | 3 | | H | | | | H | | 님 |
| | | | | | H | | | | | | | |
| | | | _ | | H | H | H | H | | H | | |
| | | | - | | H | H | H | H | | | | |
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| | | ,,,,,, | | | | | | | | | | |
| Matrix SW (Surface Water) GW | Ground Wate | er) · WW (Waste \ | Water) · D | W (Drink | ing Wate | r) · SL (S | Sludge) · | SO (Soil) | · OL (O | i) · Other | (Specify | |
| REMARKS | | | | | | | | | | | | |
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| | | s terms & cond | | cated | on the | revers | e side d | of this (| coc. | | | |
| RELINQUISHED BY | : | DATE:TI | | | R | ECEI | ED BY | ′ : | | DA | TE:TI | VΙΕ |
| 12/2 | | 11/18/51 12 | :22 | | | | // | | | 11/15/ | 21 1 | 1:37 |
| | | | | | | 91 | ·-· | | _ | | | |
| FRMAD050 06 14 14 | Marita Dat | urn with sample | | | tain for | | | | | | | |

Bottle Order Packing List

Account:

GCC/GCC Rio Grande

Bottle Order: BO48511

Internal Note:

Bill to Account: Bill to ACZ

Ship Date Requested: 11/12/2021

Request Placed at: 11/11/2021 16:11

Service Requested: UPS Ground

Sampling supplies

| PACK | Qty | ACZ ID | Туре | Description |
|------|-----|---------|------------------|--|
| 1 | 1 | COC | Chain of Custody | Chain of Custody, 1 for 10 samples. |
| 2 | 2 | SEAL | Custody Seal | Custody seals for cooler, two for each cooler. |
| | 1 | RETURN | Return Address | Return Address label, one for each cooler. |
| 12 | 18 | LABELS | Sample Labels | ACZ supplied labels for sample containers |
| | | TRIP HG | | |

ACZ Coolers

| PACK | Qty | ACZ ID | Size | Weight | UPS Tracking Number |
|-------------------|-----|----------|---------|------------------------------------|---|
| | 1 | 6635 | Large | 11 | |
| Quote r Sample | | | OMPLIAI | NCE | Quarterly Groundwater Compliance Monitoring: 2019 4 samples Client is responsible for necessary field filtering |
| PACK | Qty | Туре | Size | Filter/Raw/Preserv | e Instructions |
| 4 | 1 | GREEN PC | 125 ML | Green pre-cleaned Filtered/Nitiric | Metals (dissolved including ICPMS) - Filter sample with .45 micron filter. Do not overfill as there is Nitric Acid in the bottle. |
| 4 | 1 | RAW | 500 ML | Raw | Wet Chemistry (analyses that do not require preservative or filtration) - Completely fill container. |
| Ч | 1 | WHITE | 250 ML | Filtered | Wet chemistry (dissolved) - Filter sample with .45 micron filter. Completely fill container. |

| Prepared By/Date: | | |
|-------------------|--|--|
| | | |

wpl



| DIANE SHORT & A | SSOCIATES, | INC |
|-----------------|------------|-----|
|-----------------|------------|-----|

2634 S. Deframe Circle Lakewood CO 80228 303:271-9642 dsa7cbc@eazyqaqc.com

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

| SDG | L64379, L65969, L68204, L70041 | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|
| PROJECT | GCC Rio Grande – First through Fourth Quarters 2021, Resource Hydrogeologic Services and GCC | | | | | | | |
| LABORATORY | ACZ Laboratories, Steamboat Springs, CO | | | | | | | |
| SAMPLE MATRIX | Water SAMPLING DATE: 2/22; 5/19; 8/31, 11/18/2021 | | | | | | | |
| 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, sM2540C (total dissolved solids); D516-02/-07/-11 -Sulfate by turbidimetry; SM4500Cl-E (Chloride) | | | | | | | |
| SAMPLE NUMBER | MW-6, MW-7, MW-2B and MW-8 | | | | | | | |
| DATA REVIEWER: | John Huntington | | | | | | | |
| QA REVIEWER: <u>D</u> | Diane Short & Associates, Inc. INITIALS/DATE: | | | | | | | |
| Telephone Logs inclu | | | | | | | | |

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.

| 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 X 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, 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. Note 12 ICP metals for 3 rd quarter. |
| The data were validated at EPA Level III (EPA Stage 2B) with a minimum of 10% validated as EPA raw data review). All SDGs are Level IV. |
| 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 X No |
| B. Holding Times |
| 1. The contract holding times were met for all analyses (time of sample receipt to date of analysis). |
| Yes X 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 X 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 4 x the hold time is rejected. Such results should be considered as estimates due to time and temperature changes in the samples. |
| In this set of data, nitrate and nitrite results have been flagged by the laboratory as out of hold in SDG L65969 and in SDG L68204. The analysis has exceeded the 48-hr hold time for individual determination of nitrate or nitrite. The results could be biased due to microbial degradation or formation of nitrate and nitrite. The bias is typically thought to be low, but a positive bias is also possible. In this case, the outliers are only about 12 hours beyond the hold time. Any degradation is likely to be insignificant during this brief time since the samples were kept cold, which suppresses microbial activity. |
| Note that the laboratory extended qualifier section of the report states that the hold time for nitrate and nitrite is 7 days, which is incorrect for the methods quoted. The laboratory has actually used 48 hours as stipulated by 40CFR. This is a report error that should be corrected but has no impact on the results. |

GCC_Rio-Qtr1-4_2021

In addition, one TDS analysis in SDG L65969 was analyzed at a dilution 7 days after the expiration of the 7-day hold time, and that result is qualified accordingly. The original result contained more than 200 mg of final

residue, and the method specifies that there must be less than 200 mg. Therefore, the laboratory reanalyzed the sample. The reason for the 200-mg method limit is to avoid a crust over the solid material that prevents proper drying. This phenomenon is dependent on the area over which the residue is distributed, so different laboratory evaporation dishes used in this method may produce different results. From the raw data review, the original result was essentially the same as the second analysis so there is not likely to be a bias due to the hold time outlier for TDS.

Qualifiers added are shown below and in the qualified EDD.

| CLIENTID | LABID | ANALYTE | RESULT | QUAL | UNITS | MDL | PQL | DSA | EPA |
|----------|-----------|---------------------------------------|--------|------|-------|------|-----|----------|-----|
| MW-2B | L68204-04 | Nitrate as N, dissolved | 0.91 | Н | mg/L | 0.02 | 0.1 | JHT0.55 | J- |
| MW-2B | L65969-04 | Nitrate as N, dissolved | 7.45 | Н | mg/L | 0.08 | 0.4 | JHT0.52 | J- |
| MW-6 | L68204-01 | Nitrate as N, dissolved | 4.20 | Н | mg/L | 0.04 | 0.2 | JHT0.52 | J- |
| MW-6 | L65969-01 | Nitrate as N, dissolved | .03 | ВН | mg/L | 0.02 | 0.1 | JHT0.58 | J- |
| MW-7 | L68204-02 | Nitrate as N, dissolved | 0.91 | Н | mg/L | 0.02 | 0.1 | JHT0.56 | J- |
| MW-7 | L65969-02 | Nitrate as N, dissolved | 7.51 | Н | mg/L | 0.08 | 0.4 | JHT0.53 | J- |
| MW-8 | L68204-03 | Nitrate as N, dissolved | | UH | mg/L | 0.02 | 0.1 | UJHT0.53 | UJ- |
| MW-8 | L65969-03 | Nitrate as N, dissolved | .99 | Н | mg/L | 0.02 | 0.1 | JHT0.52 | J- |
| MW-2B | L68204-04 | Nitrate/Nitrite as N, dissolved | 0.907 | Н | mg/L | 0.02 | 0.1 | JHT0.55 | J- |
| MW-2B | L65969-04 | Nitrate/Nitrite as N, dissolved | 7.48 | Н | mg/L | 0.08 | 0.4 | JHT0.52 | J- |
| MW-6 | L68204-01 | Nitrate/Nitrite as N, dissolved | 4.24 | Н | mg/L | 0.04 | 0.2 | JHT0.52 | J- |
| MW-6 | L65969-01 | Nitrate/Nitrite as N, dissolved | 0.032 | ВН | mg/L | 0.02 | 0.1 | JHT0.58 | J- |
| MW-7 | L68204-02 | Nitrate/Nitrite as N, dissolved | 0.907 | Н | mg/L | 0.02 | 0.1 | JHT0.56 | J- |
| MW-7 | L65969-02 | Nitrate/Nitrite as N, dissolved | 7.54 | Н | mg/L | 0.08 | 0.4 | JHT0.53 | J- |
| MW-8 | L68204-03 | Nitrate/Nitrite as N, dissolved | 0.022 | ВН | mg/L | 0.02 | 0.1 | JHT0.53 | J- |
| MW-8 | L65969-03 | Nitrate/Nitrite as N, dissolved | 1.01 | Н | mg/L | 0.02 | 0.1 | JHT0.52 | J- |

| CLIENTID | LABID | ANALYTE | RESULT | QUAL | UNITS | MDL | PQL | DSA | EPA |
|----------|-----------|--|--------|------|-------|------|------|----------|-----|
| MW-2B | L68204-04 | Nitrite as N, dissolved | | UH | mg/L | 0.01 | 0.05 | UJHT0.55 | UJ- |
| MW-2B | L65969-04 | Nitrite as N, dissolved | 0.028 | ВН | mg/L | 0.01 | 0.05 | JHT0.52 | J- |
| MW-6 | L68204-01 | Nitrite as N, dissolved | 0.038 | ВН | mg/L | 0.01 | 0.05 | JHT0.51 | J- |
| MW-6 | L65969-01 | Nitrite as N, dissolved | | UH | mg/L | 0.01 | 0.05 | UJHT0.58 | UJ- |
| MW-7 | L68204-02 | Nitrite as N, dissolved | | UH | mg/L | 0.01 | 0.05 | UJHT0.56 | UJ- |
| MW-7 | L65969-02 | Nitrite as N, dissolved | 0.027 | ВН | mg/L | 0.01 | 0.05 | JHT0.51 | J- |
| MW-8 | L68204-03 | Nitrite as N, dissolved | 0.014 | ВН | mg/L | 0.01 | 0.05 | JHT0.53 | J- |
| MW-8 | L65969-03 | Nitrite as N, dissolved | 0.016 | ВН | mg/L | 0.01 | 0.05 | JHT0.52 | J- |
| MW-6 | L65969-01 | Residue, Filterable (TDS) @180C | 5430 | Н | mg/L | 100 | 200 | JHT7.06 | J- |

| 3. Samples were properly preserved to $pH \le 2$ 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. |
| 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 <u>X</u> 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 <u>X</u> 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 <u>X</u> No |
| IV. CONTRACT REQUIRED DETECTION LIMIT (CRDL) STANDARDS |
| The 2x CRDL standards were analyzed for metals as required in the QAPP. Yes X No N/A NO |
| 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. 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. |
| 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. Note that the interference check standards are only reported in the raw data for ICP. Method 200.8 (ICPMS) does not specify the use of interference check standards. |

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.

| The ICB is used as the method blank. 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 X No |
| 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. All associated client field sample data were either non-detect or > 10x the blank for metals. Note that the preparation blanks are all run as totals and are applied to both total and dissolved samples. |
| SDG L70041: Dissolved cadmium and calcium had low-level detections in the associated ICB. However, cadmium was not detected in any sample, and calcium was present at levels much greater than the blank level. No qualifiers are required. |
| C. The source of contamination was corrected, and the samples were reanalyzed. |
| Yes No N/AX |
| 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 \underline{X} No $\underline{N/A}$ 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 $10 \times \text{blank}$ for metals and $5 \times \text{blank}$ for other analyse are qualified. |
| There are several analytes detected in CCBs. However, these are all associated with non-detects in samples or else with sample results > 10x the CCB level. No qualifiers are required. |
| C. Field, decon rinse or other Field Blanks are contained and identified in the package. |
| Yes No _X _N/A |
| D. The reported results for the Field Blanks are less than the CRDL or less than the MDL, whichever is lower. |
| Yes No N/AX |
| VIII. INTERNAL STANDARD RESPONSES (*) |

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

| Yes <u>X</u> 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/AX |
| D. If not, the appropriate test procedures were performed, and the required corrections made. |
| Yes No N/AX |
| 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.

Matrix spikes, duplicates, and matrix spike duplicates were present, but none were specifically for client samples for Method 200.8. 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 would be required per year.

The ICP-MS data (200.8) included MS/MSDs, but these were associated with a different project and are not applicable to these samples. Nitrate and nitrate (M353.2) had a MS and sample duplicate performed. Matrix spikes are not appropriate for the other methods performed.

| Spiked Sample - SDG L68204 | Methods | | | | | |
|----------------------------|--------------------------------------|--|--|--|--|--|
| MW-2B | M200.7 ICP | | | | | |
| MW-2B | SM4500Cl-E | | | | | |
| MW-8 | M245.1 CVAA | | | | | |
| MW-8 | M353.2 - Automated Cadmium Reduction | | | | | |
| MW-7 | M353.2 - Automated Cadmium Reduction | | | | | |
| Spiked Sample – SDG L64379 | Methods | | | | | |
| MW-7 | M245.1 CVAA | | | | | |
| Spiked Sample -SDG L65969 | Methods | | | | | |
| MW-8 | SM4500C1-E | | | | | |
| MW-7 | SM4500F-C | | | | | |
| MW-2B | M245.1 CVAA | | | | | |
| Spiked Sample - SDG L70041 | | | | | | |
| MW-2B | M200.7 ICP | | | | | |

| Spiked Sample - SDG L68204 | Methods |
|----------------------------|---|
| MW-6 | M245.1 CVAA |
| MW-6 | D516-02/-07/-11 – TURBIDIMETRIC Sulfate |

| B. The MS/MSD percent recoveries were within | n the required control limits of $75 - 125\%$. |
|---|---|
| of the %R for the associated MS or MSD. Data m The laboratory 'flags' data as M1 whether they are flags are not recommended for use in evaluating the | re qualified with the DSA qualifier JMS#, where # is the value may be biased high or low proportional to the spike recovery. The laboratory me data as MS/MSD recoveries are not used for qualification of pike. Non-detected data are not qualified for high spikes. Only ects are considered. |
| For some methods, such as Method 300.0 and Met Results are only qualified if the recoveries are outs | thod 353.2, the laboratory uses a recovery window of 90-110%. side the window specified above. |
| No samples are qualified for matrix spike outliers. | |
| C. A Post Digestion Spike was prepared and ana | alyzed if required. |
| Yes No N/AXNot required in this case. | |
| D. The MS/MSD samples were client samples. | |
| Yes X No MS/MSD analyses were also performed on client s | samples from other SDGs but are not pertinent for qualification. |
| X. MATRIX DUPLICATE | |
| A. Matrix Duplicate samples were prepared and | l analyzed per every 20 samples for each matrix. |
| Yes X No | |
| For nitrate, nitrite, chloride, and TDS the duplicate | e precision criteria are met. |
| Parent Sample I 68204 | Methods |

| Parent Sample L68204 | Methods | | | | | |
|--------------------------|--------------------------------------|--|--|--|--|--|
| MW-8 | SM2320B - alkalinity | | | | | |
| MW-7 | M353.2 - Automated Cadmium Reduction | | | | | |
| MW-7 | SM2540C – TDS | | | | | |
| Parent Sample L65969 | Methods | | | | | |
| MW-2B | SM2540C – TDS | | | | | |
| MW-6 | M353.2 - Automated Cadmium Reduction | | | | | |
| MW-7 | SM4500Cl-E | | | | | |
| Parent Sample L64379 | Methods | | | | | |
| MW-2B | SM2540C – TDS | | | | | |
| Parent Sample SDG L70041 | Methods | | | | | |
| MW-2B | SM2320B -alkalinity | | | | | |

| 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 5x 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 1x RL for water samples or \pm 2x RL for soil samples). If the parent sample result is greater than 4 x 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 <u>X</u> 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 in all SDGs except L70041. For that SDG, MW-2B is a blind duplicate of sample MW-8. |
| 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 $5x$ RL, the water limit is $\pm 1x$ RL or the soil limit is $\pm 2x$ 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 50x 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 |
| Tota | I metals were not requested, so the total vs dissolved check cannot be performed. For two of the SDGs, the |
| analy | ytes required for a minimal cation/anion balance are present, but this is not part of the scope for this |
| valid | lation. As part of the calculation check, one sample was checked (L68204-01) and passed Standard Methods |
| crite | ria for cation-anion balance. |

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, 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. Note 12 ICP metals for 3rd quarter.

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

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 report in the Inorganic Reference section.

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 4 x the hold time is rejected. Such results should be considered as estimates due to time and temperature changes in the samples.

In this set of data, nitrate and nitrite results have been flagged by the laboratory as out of hold in SDG L65969 and in SDG L68204. The analysis has exceeded the 48-hr hold time for individual determination of nitrate or nitrite. The results could be biased due to microbial degradation or formation of nitrate and nitrite. The bias is typically thought to be low, but a positive bias is also possible. In this case, the outliers are only about 12 hours beyond the hold time. Any degradation is likely to be insignificant during this brief time since the samples were kept cold, which suppresses microbial activity.

Note that the laboratory extended qualifier section of the report states that the hold time for nitrate and nitrite is 7 days, which is incorrect. The laboratory has actually used 48 hours as stipulated by 40CFR. This is a report error that should be corrected but has no impact on the results.

In addition, one TDS analysis in SDG L65969 was analyzed at a dilution 7 days after the expiration of the 7-day hold time, and that result is qualified accordingly. The original result contained more than 200 mg of final residue, and the method specifies that there must be less than 200 mg. Therefore, the laboratory reanalyzed the sample. The reason for the 200-mg method limit is to avoid a crust over the solid material that prevents proper drying. This phenomenon is dependent on the area over which the residue is distributed, so different laboratory

evaporation dishes used in this method may produce different results. From the raw data review, the original result was essentially the same as the second analysis so there is not likely to be a bias due to the hold time outlier for TDS.

Qualifiers added are shown below and in the qualified EDD.

Method Blanks

The ICB is used as the method blank. 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. All associated client field sample data were either non-detect or > 10x the blank for metals. Note that the preparation blanks are all run as totals and are applied to both total and dissolved samples.

SDG L70041: Dissolved cadmium and calcium had low-level detections in the associated ICB. However, cadmium was not detected in any sample, and calcium was present at levels much greater than the blank level. No qualifiers are required.

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 $10 \times \text{blank}$ for metals and $5 \times \text{blank}$ for other analyses are qualified.

There are several analytes detected in CCBs. However, these are all associated with non-detects in samples or else with sample results > 10x the CCB level. No qualifiers are required.

Matrix Spikes, Matrix Spike Duplicates, and Matrix Duplicates

Matrix spikes, duplicates, and matrix spike duplicates were present but none were specifically for client samples for Method 200.8. 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 would be required per year.

The ICP-MS data (200.8) included MS/MSDs, but these were associated with a different project and are not applicable to these samples. Nitrate and nitrate (M353.2) had a MS and sample duplicate performed. Matrix spikes are not appropriate for the other methods performed.

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.

No samples are qualified for matrix spike outliers. Matrix duplicates were run for nitrate, nitrite, chloride, and TDS. The duplicate precision criteria are met.

Field QC

Sample MW-2B is a blind duplicate of sample MW-7 in all SDGs except L70041. For that SDG, MW-2B is a blind duplicate of sample MW-8. All are in control.

TABLE OF QUALIFIED DATA

| CLIENTID | LABID | ANALYTE | RESULT | QUAL | UNITS | MDL | PQL | DSA | EPA |
|----------|-----------|---------------------------------------|--------|------|-------|------|------|----------|-----|
| MW-2B | L68204-04 | Nitrate as N, dissolved | 0.91 | Н | mg/L | 0.02 | 0.1 | JHT0.55 | J- |
| MW-2B | L65969-04 | Nitrate as N, dissolved | 7.45 | Н | mg/L | 0.08 | 0.4 | JHT0.52 | J- |
| MW-6 | L68204-01 | Nitrate as N, dissolved | 4.20 | Н | mg/L | 0.04 | 0.2 | JHT0.52 | J- |
| MW-6 | L65969-01 | Nitrate as N, dissolved | .03 | ВН | mg/L | 0.02 | 0.1 | JHT0.58 | J- |
| MW-7 | L68204-02 | Nitrate as N, dissolved | 0.91 | Н | mg/L | 0.02 | 0.1 | JHT0.56 | J- |
| MW-7 | L65969-02 | Nitrate as N, dissolved | 7.51 | Н | mg/L | 0.08 | 0.4 | JHT0.53 | J- |
| MW-8 | L68204-03 | Nitrate as N, dissolved | | UH | mg/L | 0.02 | 0.1 | UJHT0.53 | UJ- |
| MW-8 | L65969-03 | Nitrate as N, dissolved | .99 | Н | mg/L | 0.02 | 0.1 | JHT0.52 | J- |
| MW-2B | L68204-04 | Nitrate/Nitrite as N, dissolved | 0.907 | Н | mg/L | 0.02 | 0.1 | JHT0.55 | J- |
| MW-2B | L65969-04 | Nitrate/Nitrite as N, dissolved | 7.48 | Н | mg/L | 0.08 | 0.4 | JHT0.52 | J- |
| MW-6 | L68204-01 | Nitrate/Nitrite as N, dissolved | 4.24 | Н | mg/L | 0.04 | 0.2 | JHT0.52 | J- |
| MW-6 | L65969-01 | Nitrate/Nitrite as N, dissolved | 0.032 | ВН | mg/L | 0.02 | 0.1 | JHT0.58 | J- |
| MW-7 | L68204-02 | Nitrate/Nitrite as N, dissolved | 0.907 | Н | mg/L | 0.02 | 0.1 | JHT0.56 | J- |
| MW-7 | L65969-02 | Nitrate/Nitrite as N, dissolved | 7.54 | Н | mg/L | 0.08 | 0.4 | JHT0.53 | J- |
| MW-8 | L68204-03 | Nitrate/Nitrite as N, dissolved | 0.022 | ВН | mg/L | 0.02 | 0.1 | JHT0.53 | J- |
| MW-8 | L65969-03 | Nitrate/Nitrite as N, dissolved | 1.01 | Н | mg/L | 0.02 | 0.1 | JHT0.52 | J- |
| MW-2B | L68204-04 | Nitrite as N, dissolved | | UH | mg/L | 0.01 | 0.05 | UJHT0.55 | UJ- |
| MW-2B | L65969-04 | Nitrite as N, dissolved | 0.028 | ВН | mg/L | 0.01 | 0.05 | JHT0.52 | J- |

| CLIENTID | LABID | ANALYTE | RESULT | QUAL | UNITS | MDL | PQL | DSA | EPA |
|----------|-----------|--|--------|------|-------|------|------|----------|-----|
| MW-6 | L68204-01 | Nitrite as N, dissolved | 0.038 | ВН | mg/L | 0.01 | 0.05 | JHT0.51 | J- |
| MW-6 | L65969-01 | Nitrite as N, dissolved | | UH | mg/L | 0.01 | 0.05 | UJHT0.58 | UJ- |
| MW-7 | L68204-02 | Nitrite as N, dissolved | | UH | mg/L | 0.01 | 0.05 | UJHT0.56 | UJ- |
| MW-7 | L65969-02 | Nitrite as N, dissolved | 0.027 | ВН | mg/L | 0.01 | 0.05 | JHT0.51 | J- |
| MW-8 | L68204-03 | Nitrite as N, dissolved | 0.014 | ВН | mg/L | 0.01 | 0.05 | JHT0.53 | J- |
| MW-8 | L65969-03 | Nitrite as N, dissolved | 0.016 | ВН | mg/L | 0.01 | 0.05 | JHT0.52 | J- |
| MW-6 | L65969-01 | Residue, Filterable (TDS) @180C | 5430 | Н | mg/L | 100 | 200 | JHT7.06 | J- |