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SENT VIA ELECTRONIC COMMUNICATIONS

March 7, 2023

Mr. Patrick Lennberg
Environmental Protection Specialist
Colorado Department of Natural Resources
Division of Reclamation, Mining and Safety
Office of Mined Land Reclamation
1313 Sherman Street, Room 215
Denver, Colorado 80203

RE: Additional Information Required, Grassy Valley Groundwater and Surface Water Monitoring Report December 2023; Permit No. M-1980-244

Dear Mr. Lennberg:

Cripple Creek and Victor Gold Mining Company (CC&V) received the Division of Reclamation, Mining, and Safety's (DRMS) *Additional Information Required, Fourth Quarter (4th) 2023 Groundwater and Surface Water Monitoring Report*; Permit No. M-1980-244. CC&V has reviewed the additional information required in the letter dated February 9, 2023 from DRMS and has prepared the following responses for each comment. The DRMS comment (**in bold**) and CC&V's corresponding response (*in italics*) is presented below.

1. **During review of the submittal it was determined the Operator did not include SGMW-8 and WCMW-6 in the narrative section discussing why samples were not collected from certain wells. Both wells are point-of-compliance (POC) wells for Maize Gulch and Wilson Creek, respectively. The Division expects the narrative to be an accurate and concise description of the sampling event and results. Omission of these types of details result in lengthy review times by the Division on what should be a routine report. Provide an updated narrative that specifically addresses if and when each POC well, for all basins, was sampled. If a POC well was not sampled a reason must be provided. This narrative is expected to be included in every quarterly report in the future. Additionally, a summary table must be provided, and included if all future reports, listing each sampling location (grouped according to media sampled), date sampled, a clear indication if a sample was collected and notes (reason for no sample collected or location and type of QA/QC sample).**

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It is the Division's expectation that all POC well locations are sampled on a quarterly basis according to the approved monitoring plan. If a location cannot be accessed during the routine quarterly sampling event then every effort shall be made to sample the location later in the quarter.

The 4th quarter monitoring report has been revised to include the requested items; included as Enclosure A. This format will be the standard for quarterly reports moving forward.

2. **The narrative incorrectly states WCSW-1 was dry during the quarter. According to the field sheet WCSW-1 was not visited during the quarter because of a road wash out. Update this section to accurately reflect what is on the field sheets.**

   This has been updated in Enclosure A.

3. **The graphs at the end of the report need to be updated to include all currently approved POC wells.**

   This has been updated in Enclosure A.

4. **Provide the missing QA/QC section referenced in the Results section of the narrative.**

   This has been updated in Enclosure A.

5. **On page 2, first complete paragraph, it is stated "Of the aforementioned wells, GV-06 is the only point of compliance location." This is an incorrect statement that needs to be corrected.**

   This has been updated in Enclosure A.

6. **On page 2, first complete paragraph, it is stated "There have been no exceedances observed at the new point of compliance wells GVMW-26A or GVMW-26B during the third quarter." This statement needs to be updated to accurately state which quarter the report is for.**

   This has been updated in Enclosure A.

7. **In the 3Q2023 it was noted no sample was collected from CRMW-3B due to issues with the pump. Provide the date when the pump went out of service and the date when the new**

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pump was installed and when it returned to service. Additionally, please provide description as to why the pump failed.

For clarification, the pump back system for the VLF underdrains was never out of service; the pump that moves water from CRMW-3B to the larger pump back vault failed. CC&V was able to collect a sample from CRMW-3B on May 3, 2023 and the system was operational into July of 2023. The pump was inspected on July 3, 2023 and was working but when a sampling attempt was made on July 5, 2023 it was discovered that the pump was no longer operational and a maintenance request was issued. An inspection by maintenance personnel was performed on the pump in August of 2023, and it was determined that the pump needed to be replaced. The replacement pump was promptly ordered but the new pump was not received until October of 2023. The new pump was installed on November 2, 2023 and the system returned to service. A sample was collected from this well on November 28, 2023. The pump failed due to the splines of the pump motor that turn the impeller being worn, preventing rotation of the impeller and, therefore, movement of water. In October of 2023, CC&V secured a contract with a third party to perform routine maintenance on the pump back well system in Arequa Gulch on a quarter basis to prolong the equipment life and functionality of the system.

8. **The Appendix A maps need to be updated to clearly reflect the point-of-compliance locations for each basin.**

   This has been updated in Enclosure A.

9. **The appropriate maps need to be updated with the surface water location GV-06.**

   This has been updated in Enclosure A.

10. **During the November sampling event arsenic was detected above the calculated chronic standard for the associated stream segment at GV-06. This is the first time arsenic has been detected at this location for the period of record. The arsenic exceedance appears to be related to the on-going ECOSA seep problem and correlates to the highest measured concentrations of arsenic in GVMW-25. On January 25, 2024, the Division was provided the December 2023 results of the Grassy Valley monthly monitoring program associated with the ECOSA seep; the Operator declared the site frozen on December 6 and no sample was collected. In the area of GV-06 the stream is gaining and if flow is occurring beneath a frozen layer of ice a sample shall be collected rather than being declared frozen and no sample collected.**

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Within in one week of the date of this letter, the Operator shall determine if flow is occurring beneath the ice at GV-06. If flow is occurring, the Operator will remove the ice and collect a sample. The sample shall have a 24-hour rush analysis performed and the results provided to the Division no later than 48 hours after sample collection. The results will be compared to the appropriate calculated stream segment standards. The Division is to be notified no sooner than 24 hours of when GV-06 will be visited and then notified again whether a sample was collected. If no sample is collected, the site shall be revisited on a weekly basis until a sample can be collected.
Additionally, provide a time series graph of all constituents that have exceeded a standard for GV-06 for the period of record. The Operator shall inform the Division if a sample was collected during the January 2024 Grassy Valley monthly sampling event. If a sample was collected the Operator shall provide the results of the sample within a week of receiving this letter.

CC&V respectfully disagrees with DRMS's assertion that arsenic concentration at GV-06 is related to on-going ECOSA seepage. CC&V is committed to continued monitoring and evaluation of water quality at the GV-06 location.

On 2/12/2024, CC&V notified the Division of its intent to inspect the GV-06 location for flowing water. After snow and ice were removed from the monitoring location, no flowing water was observed. CC&V provided photo documentation to the Division of this on the same day (2/12/24). CC&V has continued to monitor flow at the location weekly and has provided weekly photo documentation of inspection to DRMS. As of 3/4/2024 there is still no flowing water at the GV-06 monitoring location. CC&V will continue to monitor the location weekly until a sample can be collected.

Requested graphs are included in Enclosure B. Please note that the exceedances for arsenic and phosphorus at the GV-06 only occurred during November for the period of record and are not included in the time series graphs. No sample was collected at the GV-06 location during the January or February monthly monitoring period due to the absence of flowing water.

11. **Field sheet for CRMW-3A, the actual volume pumped has a line through it. Why is the volume not completed given the flow rate and time purged? Confirm the volume removed from the well.**

Total volume removed was not included on the field sheet but based on a calculation of rate and time of pumping, its estimated that approximately 4.6 gallons of water was purged prior to sample collection. The procedure for recording volume removed has been updated since the time this sample was collected.

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12. Field sheet CRMW-5B, the beginning water level (WL) was 28 feet yet the drawdown column reports 0 feet drawdown at a WL of 28.4 feet. At the bottom of the form the drawdown greater than section has "N" circled. Clarify these discrepancies. Provide the calculation that appears to have been completed to determine the required pump volume following stabilization.

The "N" was incorrectly circled on the field sheet as the draw down was greater than 0.33 feet. However, the volume of water purged from the well was sufficient to satisfy the requirements of a low-stress sample. The volume of water between the initial water level and the stabilized water level was 0.41 gallons.

Volume calculation:

Initial (Static)

$$Gallons\ per\ Foot\ of\ Depth * Well\ Radius\ Squared * Water\ Colum\ Height\ (Total\ Depth - Static\ Depth\ to\ Water)$$

Stabilized

$$Gallons\ per\ Foot\ of\ Depth * Well\ Radius\ Squared * Water\ Colum\ Height\ (Total\ Depth - Stabalized\ Depth\ to\ Water)$$

Tubing Volume

$$(\pi * (Tubing\ Radius)r^2) * Length\ of\ Tubing) * (Gallons\ per\ Cubic\ Foot)$$

(Initial – Stabilized) + Tubing Volume = Required Purge Volume.

For additional references for how purge volume are calculated, please refer to Appendix F of the QAPP. The volume of 3.75 gallons removed from the well was sufficient to satisfy the requirements of a low-stress sample.

13. Field sheet CRMW-5C, the drawdown portion of the field sheet is incorrectly completed. Drawdown is a measure of the lowering of the water level from its initial measurement. The initial drawdown entry is correct but the following readings reference this initial measurement taken during pumping which is incorrect. The entry at the bottom for drawdown greater than 0.33 ft is incorrectly completed. Clarify these discrepancies. Provide the calculation that appears to have been completed to determine the required pump volume following stabilization.

The subsequent entries in the Drawdown (ft) column reference drawdown in feet as compared to the previous depth to water measurement to identify drawdown stabilization. The entry at the bottom for drawdown is not incorrect as there was no drawdown from the previous measurement. Total Drawdown can be calculated by subtracting the initial water

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level (static) from the final measured water level. Please refer to the volume calculation included in the response to item number 12. For additional references for how purge volume are calculated, please refer to Appendix F of the QAPP.

14. Field sheet CRMW-5D, the drawdown portion of the field sheet is incorrectly completed. The initial drawdown entry is correct but the following readings reference this initial measurement taken during pumping which is incorrect. Clarify this discrepancy and provide the calculation that was used to determine the required pump volume following stabilization.

The subsequent entries in the Drawdown (ft) column reference drawdown in feet as compared to the previous depth to water measurement to identify drawdown stabilization. Drawdown can be calculated by subtracting the initial water level (static) from the final measured water level. Please refer to the volume calculation included in the response to item number 12. For additional references for how purge volume are calculated, please refer to Appendix F of the QAPP.

15. Field sheet GVMW-8A, the drawdown portion of the field sheet is incorrectly completed. Clarify this discrepancy and provide the missing calculation for the actual volume pumped.

The subsequent entries in the Drawdown (ft) column reference drawdown in feet as compared to the previous depth to water measurement to identify drawdown stabilization. Drawdown can be calculated by subtracting the initial water level (static) from the final measured water level. Based on the time and pumping rate, the actual volume removed would be approximately 4.5 gallons.

Volume Calculation:

$$Pumping\ Rate * Time = Total\ Gallons\ Removed$$

16. Field sheet GVMW-8B, the drawdown portion of the field sheet is incorrectly completed. Clarify this discrepancy and verify that 8 gallons were removed to complete the three volume purge method. It appears from the field sheet setup the 8 gallons removed should be indicated in the space for actual volume pumped, comment required.

The subsequent entries in the Drawdown (ft) column reference drawdown in feet as compared to the previous depth to water measurement to identify drawdown stabilization. Drawdown can

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be calculated by subtracting the initial water level (static) from the final measured water level. By the volumetric purge method, approximately 7.44 gallons are required to be removed to achieve 3 casing volumes. The field sheet indicated approximately 8 gallons were removed.

17. **Field sheet GVMW-22A, the drawdown portion of the field sheet is incorrectly completed. Clarify this discrepancy and provide the calculation used to determine the required pump volume following stabilization.**

The subsequent entries in the Drawdown (ft) column reference drawdown in feet as compared to the previous depth to water measurement to identify drawdown stabilization. Drawdown can be calculated by subtracting the initial water level (static) from the final measured water level. Please refer to the volume calculation included in the response to item number 12. For additional references for how purge volume are calculated, please refer to Appendix F of the QAPP.

18. **Field sheet GVMW-22B, the drawdown portion of the field sheet is incorrectly completed. Clarify this discrepancy and provide the calculation used to determine the required pump volume following stabilization.**

The subsequent entries in the Drawdown (ft) column reference drawdown in feet as compared to the previous depth to water measurement to identify drawdown stabilization. Drawdown can be calculated by subtracting the initial water level (static) from the final measured water level. Please refer to the volume calculation included in the response to item number 12. For additional references for how purge volume are calculated, please refer to Appendix F of the QAPP.

19. **Field sheet PGMW-5, the drawdown portion of the field sheet is incorrectly completed. Clarify this discrepancy and provide the calculation used to determine the required pump volume following stabilization.**

The subsequent entries in the Drawdown (ft) column reference drawdown in feet as compared to the previous depth to water measurement to identify drawdown stabilization. Drawdown can be calculated by subtracting the initial water level (static) from the final measured water level. Please refer to the volume calculation included in the response to item number 12. For additional references for how purge volume are calculated, please refer to Appendix F of the QAPP.

20. **Field sheet SGMW-6B, the drawdown portion of the field sheet is incorrectly completed and the part indicating if drawdown was greater than 0.33 feet was incorrectly completed.**

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Clarify these discrepancies and provide the calculation used to determine the required pump volume following stabilization.

The subsequent entries in the Drawdown (ft) column reference drawdown in feet as compared to the previous depth to water measurement to identify drawdown stabilization. Drawdown can be calculated by subtracting the initial water level (static) from the final measured water level. The "N" was incorrectly circled on the field sheet as the draw down was greater than 0.33 feet. However, the volume of water purged from the well was sufficient to satisfy the requirements of a low-stress sample. The volume of water between the initial water level and the stabilized water level was 0.80 gallons. Please refer to the volume calculation included in the response to item number 12. For additional references for how purge volume are calculated, please refer to Appendix F of the QAPP.

21. **Field sheet SGMW-8, this well had 5 feet of water in the screened interval. Provide an explanation why the well was not purged to dryness, revisited to measure recovery and sampled according to the QAPP? SGMW-8 is the point-of-compliance well for the associated drainage and every effort should be made to either collect a sample or definitively determine a sample cannot be collected.**

In the United States Geologic Survey's (USGS) National Field Manual for the Collection of Water Quality Data Book 9 Chapter A4 section 4.2.2, it is recommended to "Avoid sampling…wells at which purging will stir up bottom detritus that can bias analytical results. This is often the case in wells that have 5 feet or less of water". Purging the well to dryness would likely further disturb the sediment at the bottom of the well and ultimately reduce the height of the water column. Additionally, sampling this well would require the use of a bailer which would further disturb the water column. CC&V opted not to sample the well to avoid producing biased results. CC&V plans to sample the well when the water column returns to a favorable height.

22. **Field sheet VIN-2A, the drawdown portion of the field sheet is incorrectly completed. Clarify this discrepancy and provide the calculation used to determine the required pump volume following stabilization.**

The subsequent entries in the Drawdown (ft) column reference drawdown in feet as compared to the previous depth to water measurement to identify drawdown stabilization. Drawdown can be calculated by subtracting the initial water level (static) from the final measured water level. Please refer to the volume calculation included in the response to item number 12. For additional references for how purge volume are calculated, please refer to Appendix F of the QAPP.

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23. Field sheet WCMW-3, the drawdown portion of the field sheet is incorrectly completed. Clarify this discrepancy and provide the calculation used to determine the required pump volume following stabilization.

The subsequent entries in the Drawdown (ft) column reference drawdown in feet as compared to the previous depth to water measurement to identify drawdown stabilization. Drawdown can be calculated by subtracting the initial water level (static) from the final measured water level. Please refer to the volume calculation included in the response to item number 12. For additional references for how purge volume are calculated, please refer to Appendix F of the QAPP.

24. Field sheets WCMW-6 and WCSW-1 indicates the road has been washed out and a sample sites were not visited to collect a sample. Provide an update of the current road condition. In the event the road is still not accessible, please provide the plan and timeframes to reestablish access to ensure compliance with sampling of the point-of-compliance well and surface water locations.

The road to the Wilson Creek wells is significantly eroded and is currently snow packed. This is an offsite road that can't be regularly maintained by mine resources, as access to the location requires travel through public roads and municipalities, which do not allow heavy equipment travel.
Maintaining the road for access during the winter months would present a significant safety hazard for maintenance crews as well as CC&V personnel attempting to access the location due to the steep rocky terrain that is currently iced over. CC&V will attempt to sample the locations once warmer weather has reduced the hazard. Once the weather conditions improve, CC&V will evaluate the access route for improvements that would allow for year-round access and maintenance. CC&V believes this approach best protects human health and safety as well as the environment.

25. The laboratory data reports need to be updated to clearly indicate (highlighted, bolded font, or other) where results exceed a standard.

This has been updated in Enclosure A.

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Should the Division required further information regarding the above responses, please do not hesitate to contact Josh Adams at 719-323-0438 or Joshua.Adams@Newmont.com or me at 719-851-4048 or Katie.Blake@Newmont.com.

Sincerely,

DocuSigned by:
Katie Blake
5A3D013B629844B...

Katie Blake
Sustainability & External Relations Manager
Cripple Creek & Victor Mine

EC: M. Cunningham – DRMS
E. Russell - DRMS
K. Blake - CC&V
J. Gonzalez – CC&V
J. Adams – CC&V

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Enclosure A

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SENT VIA ELECTRONIC MAIL

March 7, 2023

Mr. Elliott Russell
Environmental Protection Specialist
Colorado Department of Natural Resources Division of Reclamation, Mining, and Safety Office of Mined Land Reclamation
1313 Sherman Street, Room 215
Denver, Colorado 80203

RE: Cresson Project Permit M-1980-244:
Ground Water Monitoring Data: 4th Quarter 2023
Surface Water Monitoring Data: 4th Quarter 2023

Dear Mr. Russell:

Cripple Creek & Victor Gold Mining Company ("CC&V") hereby provides the ground water & surface water monitoring report for the Cresson Project compliance locations for the 4th quarter, (October through December) 2023.

METHODOLOGY

In the 4th quarter (Q4), CC&V monitored all accessible and applicable groundwater locations and collected all possible samples as outlined in Permit No. M-1980-244. Table 1 provides a summary of the status of each monitoring locations (groundwater and surface water). Monitoring locations are displayed on Locations Maps (Figures).

During the current monitoring period, CC&V was unable to collect water samples from the following monitoring locations:

- Poverty Gulch monitoring wells PGMW-2 and PGMW-4 were dry;
- Maize Gulch monitoring wells SGMW-5, SGMW-6A, SGMW-7A, were dry and monitoring wells SGMW-7B and SGMW-8 due to insufficient water;
- Arequa Gulch monitor well CRMW-5A due to insufficient water;
- Wilson Creek monitoring locations WCMW-06 and WCSW-01 were inaccessible due to road conditions;
- Vindicator Valley monitoring location T-2 was dry; and
- Grassy Valley surface monitoring locations GV-02 and GV-03 had no observed flowing water during the quarter. No flowing water was observed at the GV-06 in December 2023.

Groundwater Level Measurements

Prior to the collection of groundwater samples, depth to groundwater was measured using a

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Geotech™ water level indicator. The water level indicator was decontaminated with Alconox™ soap and rinsed with de-ionized water prior to each measurement to prevent cross contamination.

Groundwater Sampling

CC&V utilized both dedicated and deployable pumps to purge water and collect groundwater samples. Samples were collecting using either the low-flow, volumetric, or purge and return sampling methods described in the *Quality Assurance Project Plan (QAPP)* dated January 16, 2024 and submitted to the Division of Reclamation, Mining, and Safety (DRMS) on January 16, 2024.

Groundwater samples were collected to filling both preserved and unpreserved laboratory-supplied sample containers with the appropriate amount of water and were capped to prevent sample degradation. Samples were labeled with date and time of sample collection, sample location, sample identification (ID#), initials of sample collector, whether the sample was filtered, and type of preservative used. The labels must be attached to the appropriate sample bottle. In the absence of labels, write the above information directly on the sample bottle with a permanent marker. Samples were sealed, packed on ice and submitted to SVL Analytical Inc. in Kellogg, Idaho for analysis of parameters listed in Table 3.1 – Groundwater Monitoring Parameters of the QAPP. Proper chain-of custody (COC) were followed as described in Section 9.5 of the QAPP.

Surface Water Sampling

CC&V collected grab samples from the mid-depth from the middle of the stream, as applicable, from the surface water monitoring locations in accordance with the *QAPP*. If a stream has no visible flow, it will be recorded as dry or frozen and not be sampled. An estimate of the flow rate of water at each stream sampling location was recorded, along with the general appearance of the water (turbidity, color, etc.).

QA/QC Samples

CC&V collected eleven quality assurance/quality control (QA/QC) samples in Q4, 2023 as shown in the QA/QC section. Five duplicate samples were collected in Q4; one from monitoring well CRMW-5C was collected on 10/3/23; a second duplicate sample was collected from SGMW-6B on 10/3/23; and three duplicates were collected from monitoring well GVMW-25 on 10/10/23, 11/15/23, and 12/6/23. Five rinse blanks were collected this quarter and were sent with samples to the analytical laboratory. Rinse blanks were collected during quarterly and grassy valley monthly sampling events. Rinse blanks were collected on 10/4/23 (x2), 10/10/23, 11/15/23, and 12/6/23. One trip blank sample was also collected on 10/4/23. QA/QC samples were collected in accordance with the *QAPP*.

RESULTS

Groundwater and Surface Water Analytical Results

Groundwater analytical results are compared to applicable standards in Table 2. Complete laboratory analytical reports from the 4th quarter sampling event are included as Attachment 1 and field collected data is presented on the field sheets (Attachment 2).

Surface water analytical results are compared to applicable standards in the Surface Water Standard Calculation Sheets (Attachment 3). Complete laboratory analytical reports from the 4th quarter sampling event are included as Attachment 1 and field collected data is presented on the field sheets (Attachment 2).

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QA/QC Sample Results

Results for the Quality Assurance/Quality Control (QA/QC) samples are included in Attachment 1. Relative percent difference (RPD) calculations completed for the duplicate monitoring well samples are included within the QA/QC section. The majority of the RPD calculations were less than 20% with only a few outliers that pertain to constituents of very low concentrations. RPD calculations are presented in Attachment 4.

DISCUSSION

Graphs of the trends in various analytes at the compliance locations are presented in Attachment 5.

Poverty Gulch

Exceedances recorded in the Poverty Gulch drainage were from monitoring wells PGMW-3 and PGMW-5. Monitoring well PGMW-3 exceeded concentrations of aluminum, cadmium, copper, manganese, pH, and sulfate. Fourth quarter PGMW-3 concentrations are consistent with historical data, and attributable to historic mine waste and tailings material. Monitoring well PGMW-5 exhibited elevated aluminum, beryllium, cadmium, copper, cobalt, fluoride, manganese, nickel, sulfate, pH, uranium, and zinc. PGMW-5 is a new well and the water quality baseline for this well is still being established.

Maize Gulch

Within the Maize Gulch drainage, samples collected from monitoring well SGMW-6B exceeded concentrations of aluminum, beryllium, cadmium, fluoride, manganese, sulfate, uranium, and pH. Data from this monitoring period is consistent with previously recorded concentrations.

Arequa Gulch

Q4 exceedances recorded in the Arequa Gulch drainage were from monitoring wells CRMW-3A, CRMW-3C, CRMW-5B, CRMW-5C, and CRMW-5D. Monitoring wells CRMW-5B, CRMW-5C, and CRMW-5D exceeded for fluoride, monitoring wells CRMW-3A exceeded for fluoride and sulfate and CRMW-3C exceeded for fluoride, sulfate, and manganese. All exceedances recorded within the Arequa Gulch drainage for fluoride and sulfate are consistent with previously reported concentrations. Occurrences of manganese above standard in CRMW-3C are consistent with previous results.

Wilson Creek

Monitoring well WCMW-3 (Wilson Creek drainage) was compliant with applicable standards.

Vindicator Valley

Elevated sulfate concentrations were observed within the Vindicator Valley drainage for samples collected from monitoring well VIN-2A. Fourth quarter 2023 Vindicator Valley concentrations for VIN-2A are generally consistent with previously reported concentrations.

Grassy Valley

Q4 exceedances recorded in the Grassy Valley drainage were from monitoring wells GVMW-8B, GVMW-22A, and GVMW-25 and from surface water monitoring location GV-06. Of the aforementioned monitoring locations, GV-06 is the only point of compliance location. Monitoring well GVMW-8B and GVMW-22A exceeded applicable standards for fluoride and monitoring well GVMW-25 exceeded

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applicable standards for aluminum, antimony, arsenic, beryllium, cadmium, chromium, cobalt, copper, fluoride, manganese, nickel, pH, selenium, sulfate, thallium, uranium, and zinc. GVMW-25 exceedances were reported to the Division in the monthly grassy valley report updates. Surface water monitoring location GV-06 exceeded applicable standards for arsenic, iron, pH, and phosphorus. The exceedances at GVMW-8B and GVMW-22A are consistent with previously reported concentrations. Increased concentrations at GVMW-25 have been observed historically in August and September and is likely attributed to increased precipitation from monsoon season. This is a similar trend to what was observed in the Fall of 2022 following increased precipitation during monsoon season. There have been no exceedances observed at the new point of compliance wells GVMW-26A or GVMW-26B during the fourth quarter.

Reported Exceedances

As reported on October 25, 2023, CC&V collected fourth quarter compliance groundwater compliance samples from: CRMW-5B, CRMW-5C, CRMW-5D and SGMW-6B on October 3, 2023; Upon review of received analytical reports, CC&V determined monitoring wells CRMW-5B, CRMW-5C, CRMW-5D exceeded the established Numeric Protection Level for Fluoride. Monitoring well SGMW-6B exceeded the established Numeric Protection Level for Aluminum, Cadmium, Fluoride, Manganese, pH and the Table Value Standard for Beryllium, Sulfate and Uranium. The below table lists these exceedances by date, location, and the associated parameter.

Location	Sample Date	Parameter	Value (mg/L)	NPL (mg/L)	Table Value Standard (mg/L)
CRMW-5B	10/3/2023	Fluoride	2.69	2	
CRMW-5C	10/3/2023	Fluoride	2.73	2	
CRMW-5D	10/3/2023	Fluoride	2.78	2	
SGMW-6B	10/3/2023	Aluminum	7.59	7	
SGMW-6B	10/3/2023	Cadmium	0.0104	0.005	
SGMW-6B	10/3/2023	Fluoride	11.1	2	
SGMW-6B	10/3/2023	Manganese	12.7	3	
SGMW-6B	10/3/2023	Beryllium	0.0865		0.004
SGMW-6B	10/3/2023	Sulfate	1640		250
SGMW-6B	10/3/2023	Uranium	0.0501		0.03
SGMW-6B	10/3/2023	pH	5.6	6.0-8.5	

As reported on October 27, 2023, CC&V collected fourth quarter groundwater compliance samples from monitoring well PGMW-3 and PGMW-5 on October 4, 2023. Upon review of received analytical reports, CC&V determined monitoring well PGMW-3 exceeded the established Numeric Protection Level for Aluminum, Cadmium, Copper, Manganese, pH and the Table Value Standard for Sulfate. Monitoring well PGMW-5 exceeded the established Numeric Protection Levels for Aluminum, Cadmium, Copper, Fluoride, Manganese, Nickel, pH, Zinc, and the Table Value Standards for Beryllium, Cobalt, Sulfate, and Uranium. The below table lists these exceedances by date, location, and the associated parameter.

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Location	Sample Date	Parameter	Value (mg/L)	NPL (mg/L)	Table Value Standard (mg/L)
PGMW-3	10/4/2023	Aluminum	12.7	7	
PGMW-3	10/4/2023	Cadmium	0.0055	0.005	
PGMW-3	10/4/2023	Copper	0.219	0.2	
PGMW-3	10/4/2023	Manganese	4.46	3	
PGMW-3	10/4/2023	Sulfate	660		250
PGMW-3	10/4/2023	pH	4.03	6.0 - 8.5	
PGMW-5	10/4/2023	Aluminum	78.8	7	
PGMW-5	10/4/2023	Beryllium	0.00907		0.004
PGMW-5	10/4/2023	Cadmium	0.0471	0.005	
PGMW-5	10/4/2023	Cobalt	0.219		0.05
PGMW-5	10/4/2023	Copper	1.58	0.2	
PGMW-5	10/4/2023	Fluoride	10.6	2	
PGMW-5	10/4/2023	Manganese	50	3	
PGMW-5	10/4/2023	Nickel	0.385	0.2	
PGMW-5	10/4/2023	pH	3.6	6.0 - 8.5	
PGMW-5	10/4/2023	Sulfate	1080		250
PGMW-5	10/4/2023	Uranium	0.0426		0.03
PGMW-5	10/4/2023	Zinc	5.91	2	

As reported on November 2, 2023, CC&V collected fourth quarter groundwater compliance samples from monitoring well GVMW-8B and GVMW-22A on October 11, 2023. Upon review of received analytical reports, CC&V determined monitoring wells GVMW-8B and GVMW-22A exceeded the Regulation 41 Table Value Standard for Fluoride. The below table lists these exceedances by date, location, and the associated parameter.

Location	Sample Date	Parameter	Value (mg/L)	NPL (mg/L)	Table Value Standard (mg/L)
GVMW-8B	10/11/2023	Fluoride	2.14	2	2
GVMW-22A	10/11/2023	Fluoride	2.09	2	2

As reported on November 24, 2023, CC&V collected third quarter groundwater compliance samples from monitoring wells CRMW-3A on October 26, 2023 and monitoring well VIN-2A on November 2, 2023. Upon review of received analytical reports, CC&V determined monitoring wells CRMW-3A exceeded the Numeric Protection Level for Fluoride and the Table Value Standard for Sulfate. Monitoring well VIN-2A exceeded the Table Value Standard for Sulfate. The below table lists these exceedances by date, location, and the associated parameter.

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Location	Sample Date	Parameter	Value (mg/L)	NPL (mg/L)	Table Value Standard (mg/L)
CRMW-3A	10/26/2023	Fluoride	3.04	2	
CRMW-3A	10/26/2023	Sulfate	831		250
VIN-2A	11/2/2023	Sulfate	676		250

Should you require additional information please do not hesitate to contact Josh Adams at 719-323-0438 or Joshua.Adams@Newmont.com or myself at 719-689-4048 or Katie.Blake@Newmont.com

Sincerely,

DocuSigned by:
Katie Blake
5A3D013B629844B...

Katie Blake
Sustainability & External Relations Manager
Cripple Creek & Victor Gold Mining Company

EC: P. Lennberg
M. Cunningham
K. Blake
J. Gonzalez
J. Adams

File: "C:\Users\19012214\Newmont USA Limited\CC&V – S&ER Environmental - Environmental Compliance\Water\DRMS\Quarterly\Q4\Revised Report"

Attachments:

Figures: Location Maps

Table 1: Monitoring Location Summary
Table 2: 2023 4th Quarter Groundwater Analytical Results

Attachment 1: Laboratory Analytical Reports
Attachment 2: Filed Sheets
Attachment 3: Surface Water Standard Calculation Sheets
Attachment 4: RPD Calculations
Attachment 5 : Graphs

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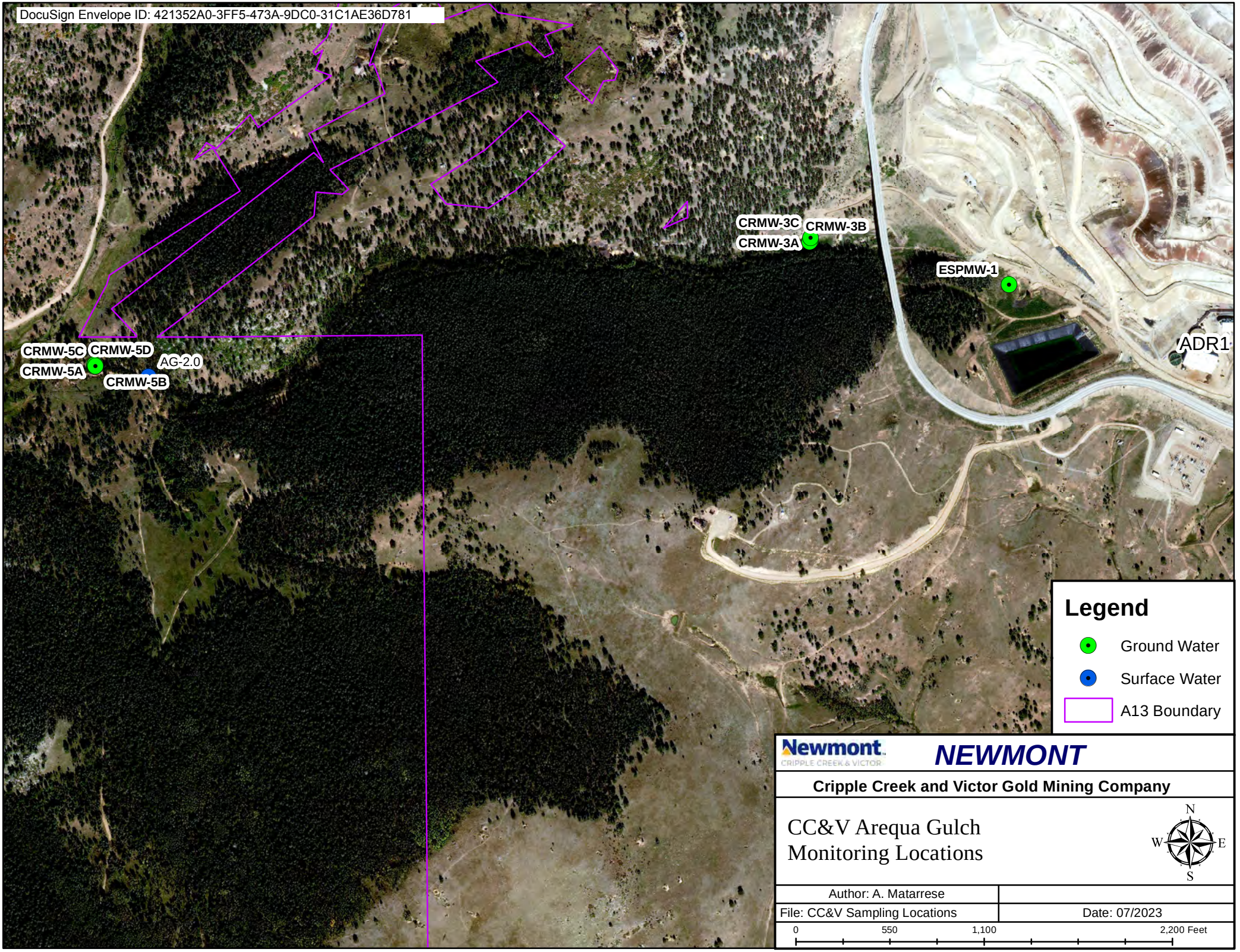
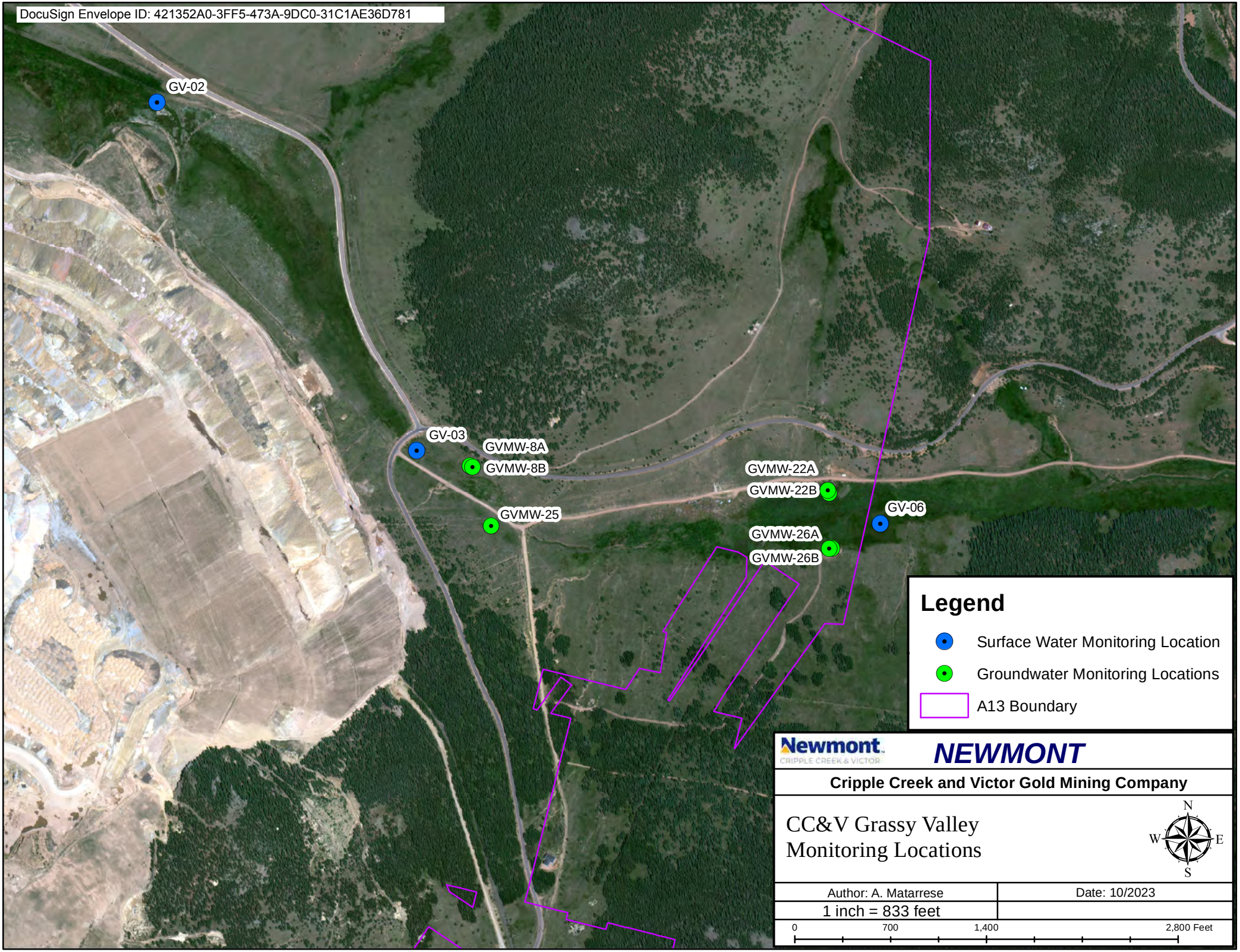
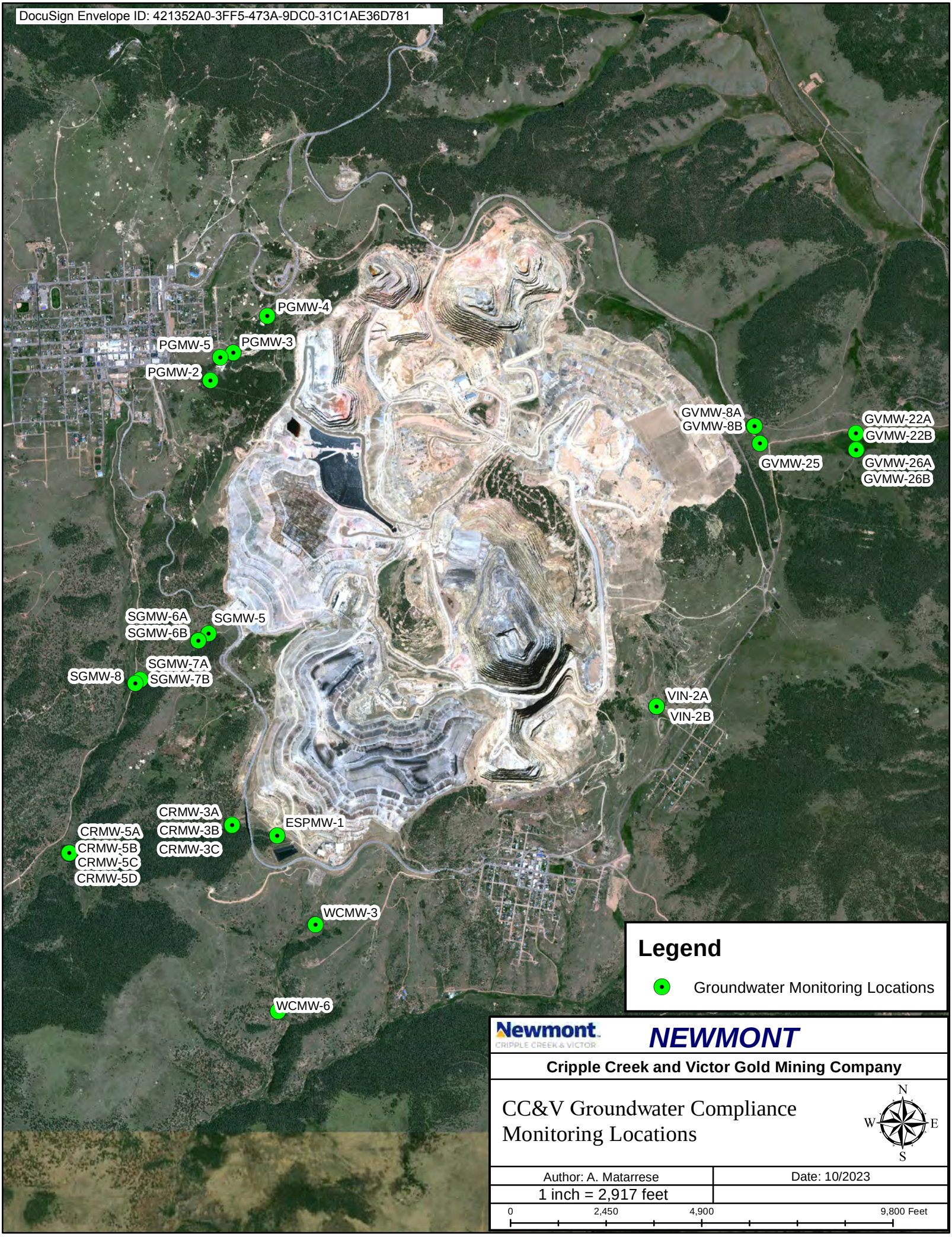
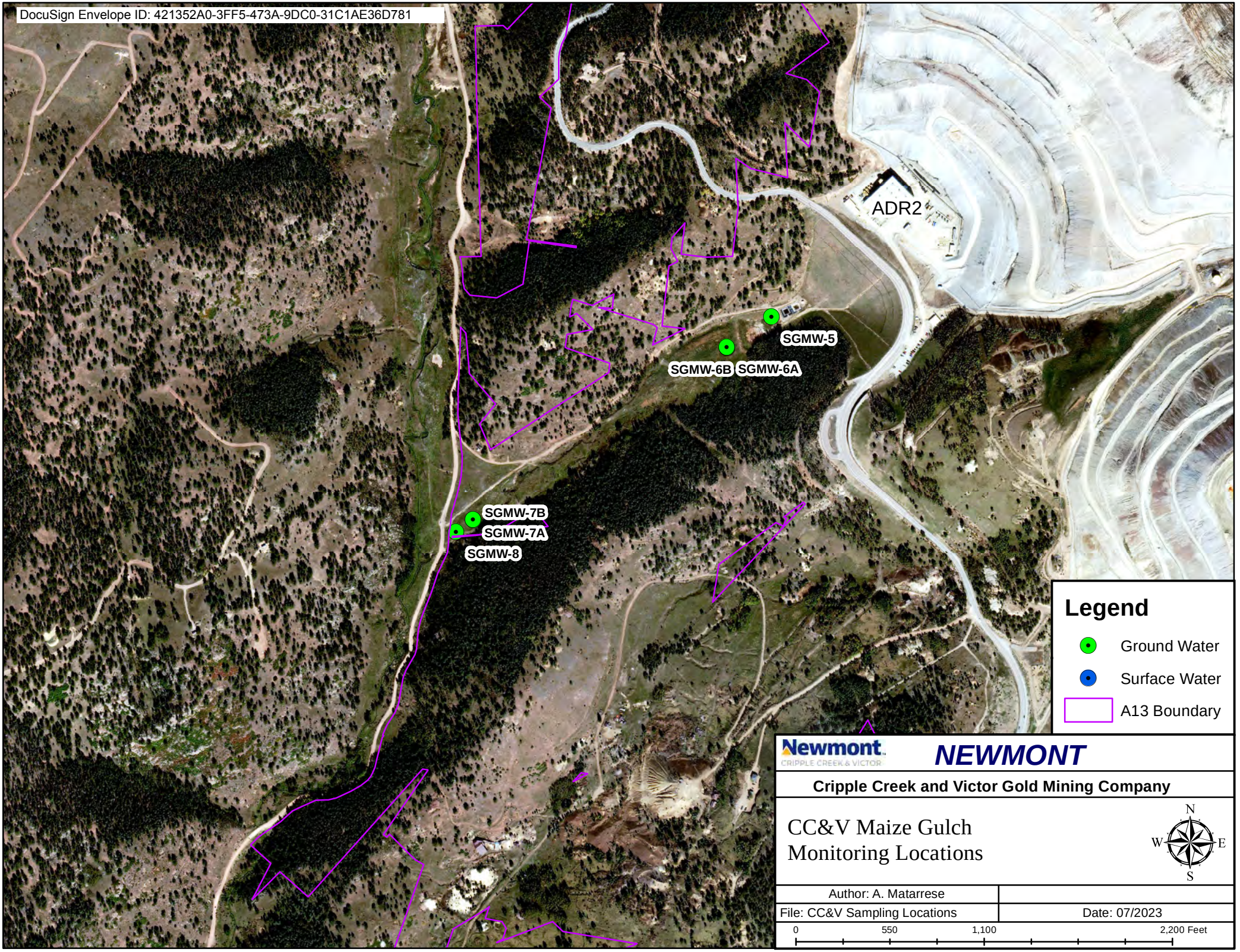
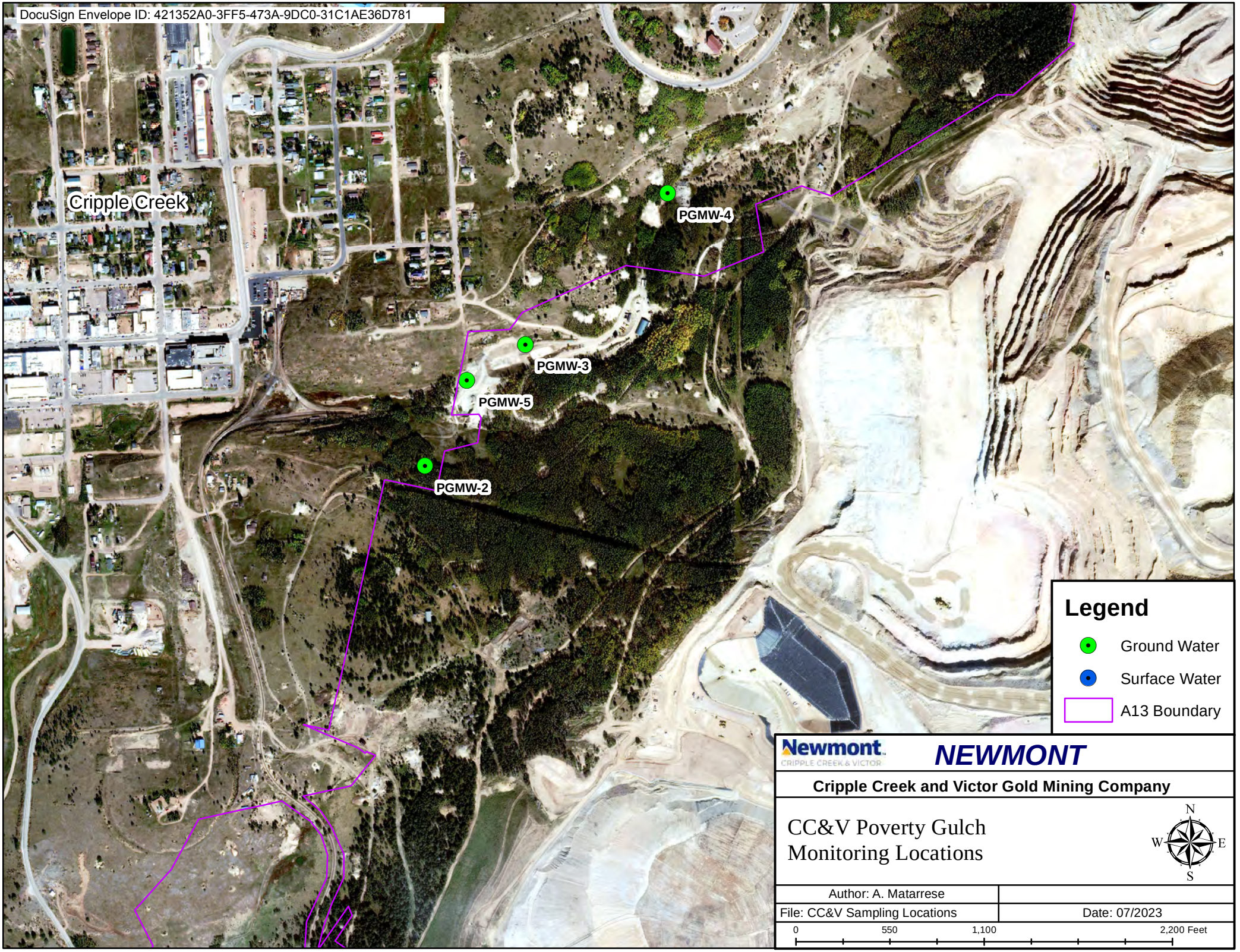
Figures











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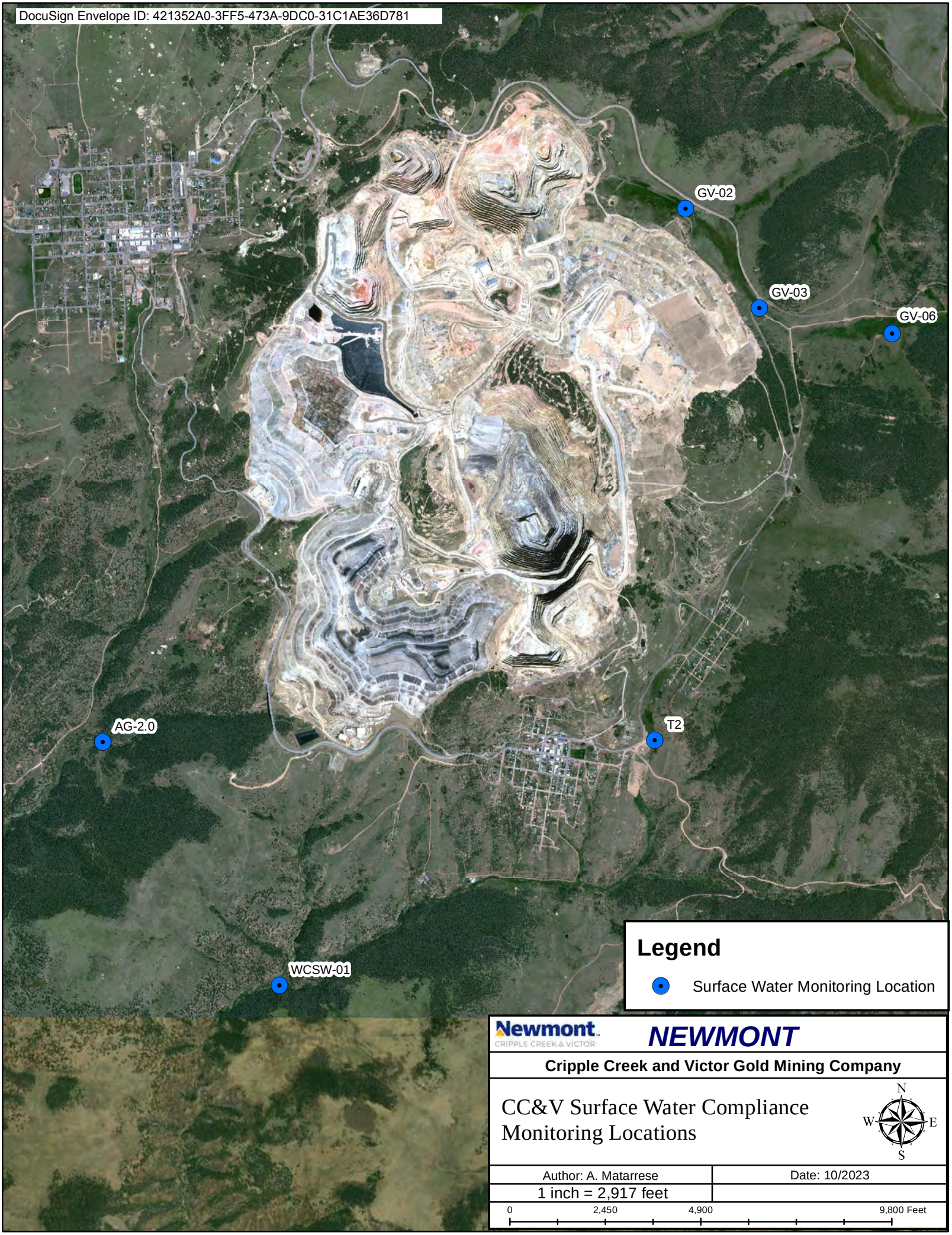
CC&V Poverty Gulch Monitoring Locations

N
W E
S

Author: A. Matarrese	
File: CC&V Sampling Locations	Date: 07/2023

0 550 1,100 2,200 Feet



Legend

- Surface Water Monitoring Location

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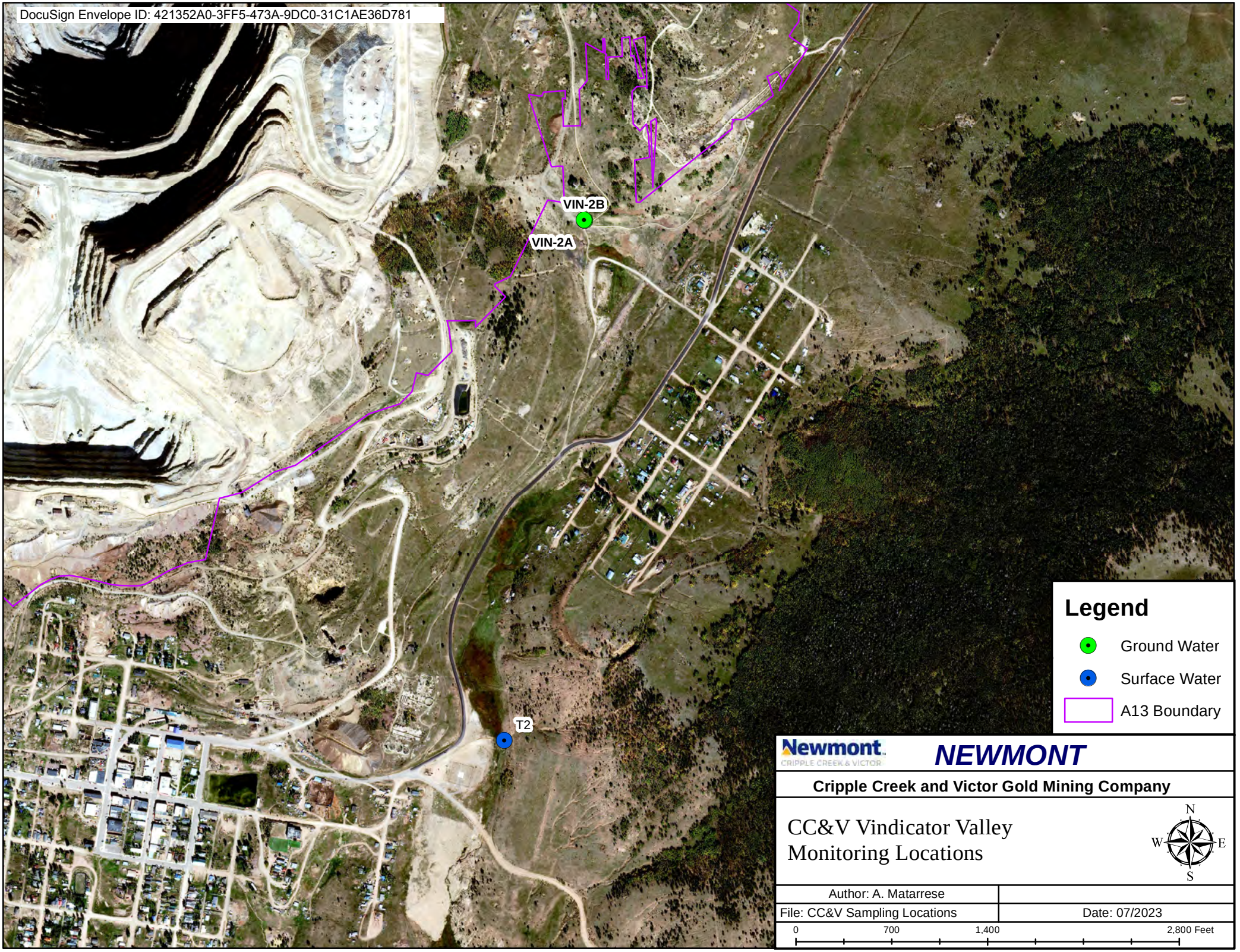
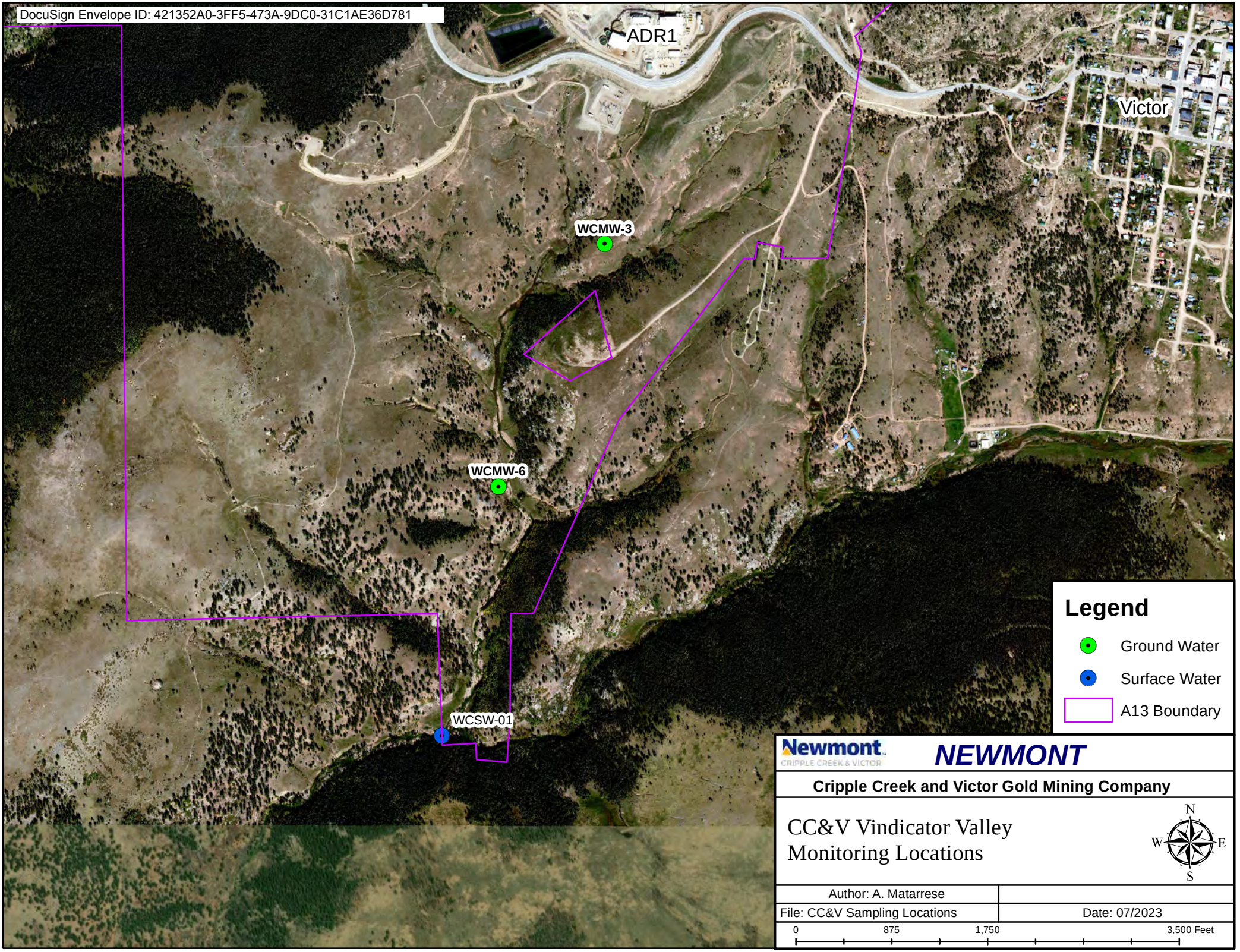
CC&V Surface Water Compliance Monitoring Locations

N
W E
S

Author: A. Matarrese	Date: 10/2023
1 inch = 2,917 feet	

0 2,450 4,900 9,800 Feet





Legend

- Ground Water
- Surface Water
- A13 Boundary

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Cripple Creek and Victor Gold Mining Company

CC&V Vindicator Valley Monitoring Locations

N W E S

Author: A. Matarrese	
File: CC&V Sampling Locations	Date: 07/2023

0 875 1,750 3,500 Feet

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Tables

Table 1
Quarterly Monitoring Location Summary
Cripple Creek and Victor Gold Mining Company

Monitoring Location	Date Monitored	Status	Comments
Poverty Gulch			
PGMW-2	10/4/2023	Dry	
PGMW-3	10/4/2023	Sampled	
PGMW-4	10/4/2023	Dry	
PGMW-5	10/4/2023	Sampled	
Maize Gulch			
SGMW-5	10/3/2023	Dry	
SGMW-6A	10/3/2023	Dry	
SGMW-6B	10/3/2023	Sampled	
SGMW-7A	10/3/2023	Dry	
SGMW-7B	10/3/2023	NS-IW	Water column < 5 feet
SGMW-8	10/3/2023	NS-IW	Water column < 5 feet
Arequa Gulch			
CRMW-3A	10/26/2023	Sampled	
CRMW-3B	11/28/2023	Sampled	
CRMW-3C	12/7/2023	Sampled	
CRMW-5A	10/3/2023	NS-IW	Water column < 5 feet
CRMW-5B	10/3/2023	Sampled	
CRMW-5C	10/3/2023	Sampled	
CRMW-5D	10/3/2023	Sampled	
ESPMW-1	10/26/2023	Sampled	
AG-2.0	10/3/2023	Sampled	
Wilson Creek			
WCMW-3	10/26/2023	Sampled	
WCMW-6	10/26/2023	Inaccessible	Road/weather conditions prevented access
WCSW-01	10/26/2023	Inaccessible	Road/weather conditions prevented access
Vindicator Valley			
VIN-2A	11/2/2023	Sampled	
VIN-2B	11/2/2023	Sampled	
T-2	10/4/2023	Dry	
Grassy Valley			
GVMW-8A*	10/11/2023	Sampled	
GVMW-8B*	10/11/2023	Sampled	
GVMW-22A*	10/11/2023	Sampled	
GVMW-22B*	10/11/2023	Sampled	
GVMW-25*	12/6/2023	Sampled	
GVMW-26A*	12/7/2023	Sampled	
GVMW-26B*	12/7/2023	Sampled	
GV-02	10/4/2023	Dry	
GV-03	10/4/2023	Dry	
GV-06*	10/4/2023, 11/15/2023, 12/5/2023	Dry	

Notes:

< -Less than

D - Dry

NS-IW - Not sampled due to insufficient water

* - indicates locations that are monitored monthly

Table 2
Quarterly Groundwater Analytical Results
Fourth Quarter 2023
Cripple Creek and Victor Gold Mining Company

ANALYTE	Reg 41 TVS	Site-Wide NPL	UNIT	Well I.D.	PGMW-3	PGMW-5	SGMW-6B	CRMW-3A	CRMW-3B*	CRMW-3C	CRMW-5B	CRMW-5C	CRMW-5D	ESPMW-1	WCMW-3*	VIN-2A	VIN-2B*	GVMW-8A*	GVMW-8B	GVMW-22A	GVMW-22B	GVMW-25	GVMW-26A	GVMW-26B
				Sample Date	10/4/2023	10/4/2023	10/3/2023	10/26/2023	11/28/2023	12/7/2023	10/3/2023	10/3/2023	10/3/2023	10/26/2023	10/26/2023	11/2/2023	11/2/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023	10/11/2023	12/6/2023	12/7/2023	12/7/2023
Aluminium - Dissolved	5	**7**	mg/L		**12.7**	**78.8**	**7.59**	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	NS	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	**820**	<0.080	<0.080
Ammonia	NA	NA	mg/L		<0.030	<0.030	0.0750	0.338	<0.030	<0.030	<0.030	<0.030	<0.030	NS	<0.030	0.109	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Antimony - Dissolved	**0.006**	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00101	<0.00100	<0.00100	<0.00100	NS	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.00100
Arsenic - Dissolved	**0.01**	NA	mg/L		0.00162	0.00438	0.00110	0.00159	<0.00100	<0.00100	**<0.00100**	<0.00100	<0.00100	NS	<0.00100	0.00112	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.318**	<0.00100	<0.00100
Barium - Dissolved	**2**	NA	mg/L		0.0116	0.0098	0.0084	0.0369	0.0145	0.0122	0.0051	0.0078	0.0694	NS	0.0653	0.0074	0.0061	<0.0020	0.0055	0.1080	0.0489	0.0186	0.1980	0.1170
Beryllium - Dissolved	**0.004**	NA	mg/L		<0.00200	**0.00907**	**0.0865**	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	NS	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**0.492**	<0.00200	<0.00200
Boron - Total	**0.75**	NA	mg/L		<0.0400	<0.0400	0.0864	0.0989	0.0834	0.0695	<0.0400	<0.0400	<0.0400	NS	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400
Cadmium - Dissolved	**0.005**	**0.005**	mg/L		**0.0055**	**0.0471**	**0.0104**	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	NS	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	**1.56**	<0.0020	<0.0020
Chloride - Total	**250**	NA	mg/L		50	61	144	241	**281**	**270**	9.75	10.1	12.8	NS	1.1	7.1	10.8	71.1	43.9	4.03	9.81	22.7	1.26	1.72
Chromium - Dissolved	**0.1**	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	NS	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0884	<0.0060	<0.0060
Cobalt - Dissolved	**0.05**	NA	mg/L		0.0263	**0.2190**	0.0345	0.0257	0.0263	0.0300	<0.0060	<0.0060	<0.0060	NS	<0.0060	0.0098	0.0089	<0.0060	<0.0060	<0.0060	<0.0060	**2.04**	<0.0060	<0.0060
Copper - Dissolved	**0.2**	**0.2**	mg/L		**0.219**	**1.58**	0.0425	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NS	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	**3.2**	<0.0100	<0.0100
Cyanide - Free	**0.2**	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NS	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500	<0.0050	<0.0050
Cyanide - Total	NA	NA	mg/L		<0.0050	0.0200	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NS	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide - WAD	NA	**0.2**	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500	<0.0050	<0.0050
Fluoride - Total F	**2**	**2**	mg/L		1.99	**10.6**	**11.1**	**3.04**	**3.05**	**2.62**	**2.69**	**2.73**	**2.78**	NS	0.75	0.201	0.141	1.81	**2.14**	**2.09**	0.367	**70**	1.91	0.218
Iron - Dissolved	0.3	**14**	mg/L		<0.100	<0.100	2.19	1.28	<0.100	<0.100	<0.100	<0.100	<0.100	NS	<0.100	0.103	<0.100	<0.100	<0.100	<0.100	<0.100	1.37	<0.100	<0.100
Lead - Dissolved	**0.05**	NA	mg/L		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	NS	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Lithium - Dissolved	**2.5**	NA	mg/L		<0.040	<0.040	0.104	0.143	0.112	0.185	<0.040	<0.040	<0.040	NS	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.28	<0.040	<0.040
Manganese - Dissolved	0.05	**3**	mg/L		**4.46**	**50.0**	**12.7**	0.131	2.95	**7.65**	**<0.0080**	<0.0080	<0.0080	NS	**0.0335**	0.261	2.02	<0.0080	<0.0080	0.0667	<0.0080	**230**	0.0086	<0.0080
Mercury - Dissolved	**0.002**	**0.002**	mg/L		0.000278	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	NS	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum - Dissolved	**0.21**	NA	mg/L		<0.0080	<0.0080	<0.0080	0.051	<0.0080	0.0187	<0.0080	<0.0080	0.0128	NS	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel - Dissolved	**0.1**	NA	mg/L		0.0602	**0.3850**	**0.175**	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NS	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	**2.52**	<0.0100	<0.0100
Nitrate as Nitrogen	**10**	**10**	mg/L		8.52	1.35	1.35	3.33	0.079	<0.050	0.103	0.097	0.074	NS	<0.050	<0.050	<0.050	1.09	2.11	<0.050	0.565	3.55	<0.050	0.634
Nitrite + Nitrate as Nitrogen	**1**	**1**	mg/L		**8.52**	**1.35**	**1.35**	**3.33**	0.230	<0.100	0.103	<0.100	<0.100	NS	<0.100	<0.100	<0.100	**1.09**	**2.11**	<0.100	0.565	**3.55**	<0.100	0.634
Nitrite as Nitrogen	1.0	**11**	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	NS	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.500	<0.050	<0.050
pH Field	**6.0-8.5**	**6.0-8.5**	pH units		**4.03**	**3.60**	**5.35**	6.58	6.87	7.21	7.40	6.75	6.43	7.20	7.65	7.70	7.40	6.92	6.65	7.85	6.66	**3.88**	7.81	6.85
Selenium - Dissolved	0.02	**0.024**	mg/L		0.00139	0.00171	<0.00100	<0.00100	<0.00100	<0.00100	0.00112	0.00110	0.00127	NS	0.00487	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.0202	<0.00100	<0.00100
Silver - Dissolved	**0.05**	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NS	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium - Dissolved	NA	NA	mg/L		25.0	30.4	75.4	98.0	100	85.8	8.22	8.16	7.79	NS	10.00	21.40	31.20	23.8	24.3	36.4	20.4	44.9	31.2	10
Sulfate - Total	**250**	NA	mg/L		**660**	**1,080**	**1,640**	**831**	852	**811**	33.4	33.4	31.6	NS	25.8	**676**	**725**	55.4	87.3	37.4	83.8	**8,850**	12.4	21.8
Thallium - Dissolved	**0.002**	NA	mg/L		0.000526	<0.000200	<0.000200	<0.00200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	NS	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.00200	<0.000200	<0.000200
Total Dissolved Solids	NA	NA	mg/L		973	1,520	2,440	1,600	1,740	1,680	178	105	105	NS	305	1,020	1,100	276	255	221	226	11,900	199	137
Uranium - Dissolved	**0.03**	NA	mg/L		0.00119	**0.0426**	**0.0501**	0.00892	0.0274	0.0274	0.00388	0.000359	0.000119	NS	0.006280	0.00313	0.000245	0.0049	0.00277	0.00384	0.000936	**2.82**	0.003180	<0.000100
Vanadium - Dissolved	**0.1**	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NS	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zinc - Dissolved	**2**	**2**	mg/L		0.554	**5.91**	1.84	<0.0100	0.0763	0.0196	<0.0100	<0.0100	<0.0100	NS	0.0242	1.02	0.0179	<0.0100	<0.0100	<0.0100	<0.0100	**71.8**	<0.0100	<0.0100

Notes:
Applicable Standard vs. Non-applicable standard
* well specific NPL applied, refer table 3.2 in the QAPP
Result below laboratory detection limit
BOLD - exceeds applicable standard
< - less than
mg/L - miligrams per liter
NPL - Numeric Protection Limit
NS- Not sampled
TVS - table value standard
NS- Not sampled

Newmont
NORTH AMERICA

Cripple Creek & Victor
Gold Mining Company
100 North 3rd Street
P.O. Box 191
Victor, Colorado 80860

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Attachment 1

Laboratory Analytical Reports

Newmont
NORTH AMERICA

Cripple Creek & Victor
Gold Mining Company
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Victor, Colorado 80860

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Groundwater

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Client Sample ID: **PGMW-5**
SVL Sample ID: **X3J0149-03 (Ground Water)**

Sampled: 04-Oct-23 12:06
Received: 06-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	129	mg/L	0.100	0.069		X341025	JRR	10/13/23 12:25	
EPA 200.7	**Magnesium**	55.3	mg/L	0.500	0.090		X341025	JRR	10/13/23 12:25	
EPA 200.7	**Potassium**	4.45	mg/L	0.50	0.18		X341025	JRR	10/13/23 12:25	
SM 2340 B	**Hardness (as CaCO3)**	550	mg/L	2.31	0.543		N/A		10/19/23 14:09	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	78.8	mg/L	0.080	0.054		X341090	JRR	10/19/23 14:09	
EPA 200.7	**Barium**	0.0098	mg/L	0.0020	0.0019		X341090	JRR	10/19/23 14:09	
EPA 200.7	**Beryllium**	0.00907	mg/L	0.00200	0.00080		X341090	JRR	10/19/23 14:09	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X341090	JRR	10/19/23 14:09	
EPA 200.7	**Cadmium**	0.0471	mg/L	0.0020	0.0016		X341090	JRR	10/19/23 14:09	
EPA 200.7	**Calcium**	132	mg/L	0.100	0.069		X341090	JRR	10/19/23 14:09	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X341090	JRR	10/19/23 14:09	
EPA 200.7	**Cobalt**	0.219	mg/L	0.0060	0.0046		X341090	JRR	10/19/23 14:09	
EPA 200.7	**Copper**	1.58	mg/L	0.0100	0.0027		X341090	JRR	10/19/23 14:09	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X341090	JRR	10/19/23 14:09	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X341090	JRR	10/19/23 14:55	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X341090	JRR	10/19/23 14:09	
EPA 200.7	**Magnesium**	60.0	mg/L	0.500	0.090		X341090	JRR	10/19/23 14:09	
EPA 200.7	**Manganese**	50.0	mg/L	0.0080	0.0034		X341090	JRR	10/19/23 14:09	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X341090	JRR	10/19/23 14:09	
EPA 200.7	**Nickel**	0.385	mg/L	0.0100	0.0048		X341090	JRR	10/19/23 14:09	
EPA 200.7	**Potassium**	4.28	mg/L	0.50	0.18		X341090	JRR	10/19/23 14:09	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X341090	JRR	10/19/23 14:09	
EPA 200.7	**Sodium**	30.4	mg/L	0.50	0.12		X341090	JRR	10/19/23 14:09	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X341090	JRR	10/19/23 14:55	
EPA 200.7	**Zinc**	5.91	mg/L	0.0100	0.0054		X341090	JRR	10/19/23 14:55	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X340298	SMU	10/16/23 17:59	
EPA 200.8	**Arsenic**	0.00438	mg/L	0.00100	0.00021		X340298	SMU	10/16/23 17:59	
EPA 200.8	**Selenium**	0.00171	mg/L	0.00100	0.00024		X340298	SMU	10/16/23 17:59	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X340298	SMU	10/16/23 17:59	
EPA 200.8	**Uranium**	0.0426	mg/L	0.000100	0.000052		X340298	SMU	10/16/23 17:59	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341002	NMS	10/09/23 14:18	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X341176	DD	10/12/23 17:14	
EPA 335.4	**Cyanide (total)**	0.0200	mg/L	0.0050	0.0038		X342016	DD	10/17/23 10:27	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342115	JRR	10/18/23 18:13	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X340270	DD	10/09/23 10:12	
SM 2310 B	**Acidity to pH 8.3**	560	mg/L as CaCO3	10.0			X342025	MWD	10/16/23 12:24	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:13	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:13	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:13	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:13	
SM 2540 C	**Total Diss. Solids**	1520	mg/L	10			X340303	TJL	10/10/23 14:25	
SM 2540 D	**Total Susp. Solids**	9.0	mg/L	5.0			X340304	TJL	10/10/23 15:30	
SM 4500 H B	**pH @19.6°C**	4.0	pH Units				X341044	MWD	10/11/23 14:13	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Newmont - Cripple Creek & Victor
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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Client Sample ID: **PGMW-5**
SVL Sample ID: **X3J0149-03 (Ground Water)**

Sampled: 04-Oct-23 12:06
Received: 06-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	60.7	mg/L	10.0	1.10	50	X340259	RS	10/06/23 11:31	D2
EPA 300.0	**Fluoride**	10.6	mg/L	5.00	0.850	50	X340259	RS	10/06/23 11:31	D2
EPA 300.0	**Nitrate as N**	1.35	mg/L	0.050	0.013		X340259	RS	10/06/23 10:58	
EPA 300.0	**Nitrate+Nitrite as N**	1.35	mg/L	0.100	0.044		X340259	RS	10/06/23 10:58	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X340259	RS	10/06/23 10:58	
EPA 300.0	**Sulfate as SO4**	1080	mg/L	15.0	9.00	50	X340259	RS	10/06/23 11:31	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 23.6 meq/L Anion Sum: 24.9 meq/L C/A Balance: -2.58 % Calculated TDS: 1380 TDS/cTDS: 1.10

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Client Sample ID: **PGMW-3**
SVL Sample ID: **X3J0149-04 (Ground Water)**

Sampled: 04-Oct-23 12:35
Received: 06-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	167	mg/L	0.100	0.069		X341025	JRR	10/13/23 12:28	
EPA 200.7	**Magnesium**	45.2	mg/L	0.500	0.090		X341025	JRR	10/13/23 12:28	
EPA 200.7	**Potassium**	4.74	mg/L	0.50	0.18		X341025	JRR	10/13/23 12:28	
SM 2340 B	**Hardness (as CaCO3)**	612	mg/L	2.31	0.543		N/A		10/13/23 12:28	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	12.7	mg/L	0.080	0.054		X341090	JRR	10/19/23 14:13	
EPA 200.7	**Barium**	0.0116	mg/L	0.0020	0.0019		X341090	JRR	10/19/23 14:13	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X341090	JRR	10/19/23 14:13	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X341090	JRR	10/19/23 14:13	
EPA 200.7	**Cadmium**	0.0055	mg/L	0.0020	0.0016		X341090	JRR	10/19/23 14:13	
EPA 200.7	**Calcium**	168	mg/L	0.100	0.069		X341090	JRR	10/19/23 14:13	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X341090	JRR	10/19/23 14:13	
EPA 200.7	**Cobalt**	0.0263	mg/L	0.0060	0.0046		X341090	JRR	10/19/23 14:13	
EPA 200.7	**Copper**	0.219	mg/L	0.0100	0.0027		X341090	JRR	10/19/23 14:13	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X341090	JRR	10/19/23 14:13	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X341090	JRR	10/19/23 14:59	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X341090	JRR	10/19/23 14:13	
EPA 200.7	**Magnesium**	47.2	mg/L	0.500	0.090		X341090	JRR	10/19/23 14:13	
EPA 200.7	**Manganese**	4.46	mg/L	0.0080	0.0034		X341090	JRR	10/19/23 14:13	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X341090	JRR	10/19/23 14:13	
EPA 200.7	**Nickel**	0.0602	mg/L	0.0100	0.0048		X341090	JRR	10/19/23 14:13	
EPA 200.7	**Potassium**	4.56	mg/L	0.50	0.18		X341090	JRR	10/19/23 14:13	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X341090	JRR	10/19/23 14:13	
EPA 200.7	**Sodium**	25.0	mg/L	0.50	0.12		X341090	JRR	10/19/23 14:13	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X341090	JRR	10/19/23 14:59	
EPA 200.7	**Zinc**	0.554	mg/L	0.0100	0.0054		X341090	JRR	10/19/23 14:59	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X340298	SMU	10/16/23 18:01	
EPA 200.8	**Arsenic**	0.00162	mg/L	0.00100	0.00021		X340298	SMU	10/16/23 18:01	
EPA 200.8	**Selenium**	0.00139	mg/L	0.00100	0.00024		X340298	SMU	10/16/23 18:01	
EPA 200.8	**Thallium**	0.000526	mg/L	0.000200	0.00008		X340298	SMU	10/16/23 18:01	
EPA 200.8	**Uranium**	0.00119	mg/L	0.000100	0.000052		X340298	SMU	10/16/23 18:01	
Metals (Filtered)										
EPA 245.1	**Mercury**	0.000278	mg/L	0.000200	0.000093		X341002	NMS	10/09/23 14:20	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X341176	DD	10/12/23 17:22	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342016	DD	10/17/23 10:41	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342115	JRR	10/18/23 18:16	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X340270	DD	10/09/23 10:14	
SM 2310 B	**Acidity to pH 8.3**	103	mg/L as CaCO3	10.0			X342025	MWD	10/16/23 12:24	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:19	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:19	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:19	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:19	
SM 2540 C	**Total Diss. Solids**	973	mg/L	10			X340303	TJL	10/10/23 14:25	
SM 2540 D	**Total Susp. Solids**	10.0	mg/L	5.0			X340304	TJL	10/10/23 15:30	R2B
SM 4500 H B	**pH @19.8°C**	4.2	pH Units				X341044	MWD	10/11/23 14:19	H5

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Client Sample ID: **PGMW-3**
SVL Sample ID: **X3J0149-04 (Ground Water)**

Sampled: 04-Oct-23 12:35
Received: 06-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	49.6	mg/L	10.0	1.10	50	X340259	RS	10/06/23 11:48	D2
EPA 300.0	**Fluoride**	1.99	mg/L	0.100	0.017		X340259	RS	10/06/23 11:15	
EPA 300.0	**Nitrate as N**	8.52	mg/L	2.50	0.650	50	X340259	RS	10/06/23 11:48	D2,H2
EPA 300.0	**Nitrate+Nitrite as N**	8.52	mg/L	5.00	2.20	50	X340259	RS	10/06/23 11:48	D2,H2
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X340259	RS	10/06/23 11:15	
EPA 300.0	**Sulfate as SO4**	660	mg/L	15.0	9.00	50	X340259	RS	10/06/23 11:48	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 15.3 meq/L Anion Sum: 15.9 meq/L C/A Balance: -1.78 % Calculated TDS: 993 TDS/cTDS: 0.98

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X341025	13-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X341025	13-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X341025	13-Oct-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X341090	19-Oct-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X341090	19-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X341090	19-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X341090	19-Oct-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X341090	19-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X341090	19-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X341090	19-Oct-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X341090	19-Oct-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X341090	19-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X341090	19-Oct-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X341090	19-Oct-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X341090	19-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X341090	19-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X341090	19-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X341090	19-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X341090	19-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X341090	19-Oct-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X341090	19-Oct-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X341090	19-Oct-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X341090	19-Oct-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X341090	19-Oct-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X340298	16-Oct-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X340298	16-Oct-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X340298	16-Oct-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X340298	16-Oct-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X340298	16-Oct-23	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X341002	09-Oct-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X341176	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X342016	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X342115	18-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X340270	09-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X342025	16-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X341044	11-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X341044	11-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X341044	11-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X341044	11-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X340303	10-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X340304	10-Oct-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X340259	06-Oct-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X340259	06-Oct-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X340259	06-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X340259	06-Oct-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X340259	06-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X340259	06-Oct-23	

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.3	20.0	96.3	85 - 115	X341025	13-Oct-23	
EPA 200.7	Magnesium	mg/L	18.6	20.0	92.9	85 - 115	X341025	13-Oct-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.9	85 - 115	X341025	13-Oct-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.03	1.00	103	85 - 115	X341090	19-Oct-23	
EPA 200.7	Barium	mg/L	1.06	1.00	106	85 - 115	X341090	19-Oct-23	
EPA 200.7	Beryllium	mg/L	0.916	1.00	91.6	85 - 115	X341090	19-Oct-23	
EPA 200.7	Boron	mg/L	0.978	1.00	97.8	85 - 115	X341090	19-Oct-23	
EPA 200.7	Cadmium	mg/L	0.968	1.00	96.8	85 - 115	X341090	19-Oct-23	
EPA 200.7	Calcium	mg/L	19.7	20.0	98.3	85 - 115	X341090	19-Oct-23	
EPA 200.7	Chromium	mg/L	0.982	1.00	98.2	85 - 115	X341090	19-Oct-23	
EPA 200.7	Cobalt	mg/L	0.966	1.00	96.6	85 - 115	X341090	19-Oct-23	
EPA 200.7	Copper	mg/L	0.972	1.00	97.2	85 - 115	X341090	19-Oct-23	
EPA 200.7	Iron	mg/L	9.74	10.0	97.4	85 - 115	X341090	19-Oct-23	
EPA 200.7	Lead	mg/L	0.966	1.00	96.6	85 - 115	X341090	19-Oct-23	
EPA 200.7	Lithium	mg/L	0.929	1.00	92.9	85 - 115	X341090	19-Oct-23	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.8	85 - 115	X341090	19-Oct-23	
EPA 200.7	Manganese	mg/L	0.985	1.00	98.5	85 - 115	X341090	19-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.984	1.00	98.4	85 - 115	X341090	19-Oct-23	
EPA 200.7	Nickel	mg/L	0.966	1.00	96.6	85 - 115	X341090	19-Oct-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.0	85 - 115	X341090	19-Oct-23	
EPA 200.7	Silver	mg/L	0.0471	0.0500	94.2	85 - 115	X341090	19-Oct-23	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.3	85 - 115	X341090	19-Oct-23	
EPA 200.7	Vanadium	mg/L	1.05	1.00	105	85 - 115	X341090	19-Oct-23	
EPA 200.7	Zinc	mg/L	0.971	1.00	97.1	85 - 115	X341090	19-Oct-23	
EPA 200.8	Antimony	mg/L	0.0264	0.0250	106	85 - 115	X340298	16-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0231	0.0250	92.4	85 - 115	X340298	17-Oct-23	
EPA 200.8	Selenium	mg/L	0.0222	0.0250	88.7	85 - 115	X340298	17-Oct-23	
EPA 200.8	Thallium	mg/L	0.0282	0.0250	113	85 - 115	X340298	16-Oct-23	
EPA 200.8	Uranium	mg/L	0.0278	0.0250	111	85 - 115	X340298	17-Oct-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00206	0.00200	103	85 - 115	X341002	09-Oct-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.100	98.0	90 - 110	X341176	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.0969	0.100	96.9	90 - 110	X342016	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X342115	18-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0980	0.100	98.0	90 - 110	X340270	09-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	98.6	95.4 - 104	X342025	16-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X341044	11-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X341044	11-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	400	397	101	96.4 - 105	X341044	11-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X340304	10-Oct-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.7	90 - 110	X340259	06-Oct-23	
EPA 300.0	Fluoride	mg/L	2.00	2.00	100	90 - 110	X340259	06-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	101	90 - 110	X340259	06-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.58	4.50	102	90 - 110	X340259	06-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.57	2.50	103	90 - 110	X340259	06-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X340259	06-Oct-23	

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X342025 - X3J0149-01	16-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	542	543	0.2	20	X341044 - X3J0187-03	11-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	542	543	0.2	20	X341044 - X3J0187-03	11-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X341044 - X3J0187-03	11-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X341044 - X3J0187-03	11-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	1530	1520	1.1	10	X340303 - X3J0149-03	10-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	966	973	0.7	10	X340303 - X3J0149-04	10-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	10.5	10	X340304 - X3J0149-04	10-Oct-23	R2B
SM 2540 D	Total Susp. Solids	mg/L	9.0	9.0	0.0	10	X340304 - X3J0149-03	10-Oct-23	
SM 4500 H B	pH @20.0°C	pH Units	6.9	6.9	0.3	20	X341044 - X3J0187-03	11-Oct-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	20.2	0.360	20.0	99.0	70 - 130	X341025 - X3J0149-01	13-Oct-23	
EPA 200.7	Calcium	mg/L	75.2	52.5	20.0	113	70 - 130	X341025 - X3J0152-36	13-Oct-23	
EPA 200.7	Magnesium	mg/L	19.3	<0.500	20.0	96.3	70 - 130	X341025 - X3J0149-01	13-Oct-23	
EPA 200.7	Magnesium	mg/L	34.0	12.9	20.0	106	70 - 130	X341025 - X3J0152-36	13-Oct-23	
EPA 200.7	Potassium	mg/L	19.9	<0.50	20.0	99.6	70 - 130	X341025 - X3J0149-01	13-Oct-23	
EPA 200.7	Potassium	mg/L	21.8	1.27	20.0	103	70 - 130	X341025 - X3J0152-36	13-Oct-23	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.06	<0.080	1.00	106	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Barium	mg/L	1.07	<0.0020	1.00	107	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Beryllium	mg/L	0.941	<0.00200	1.00	94.1	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	102	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Cadmium	mg/L	1.00	<0.0020	1.00	100	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Calcium	mg/L	19.9	<0.100	20.0	99.6	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Chromium	mg/L	1.02	<0.0060	1.00	102	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Cobalt	mg/L	1.00	<0.0060	1.00	100	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Copper	mg/L	0.996	<0.0100	1.00	99.6	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Iron	mg/L	9.80	<0.100	10.0	98.0	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Lead	mg/L	0.974	<0.0075	1.00	97.4	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Lithium	mg/L	0.937	<0.040	1.00	93.7	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Magnesium	mg/L	19.5	<0.500	20.0	97.3	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Manganese	mg/L	1.03	<0.0080	1.00	103	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	101	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Nickel	mg/L	0.998	<0.0100	1.00	99.8	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Potassium	mg/L	19.6	<0.50	20.0	97.8	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Silver	mg/L	0.0481	<0.0050	0.0500	96.1	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Sodium	mg/L	18.7	<0.50	19.0	98.6	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Zinc	mg/L	0.979	<0.0100	1.00	97.9	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.8	Antimony	mg/L	0.0301	<0.00100	0.0250	121	70 - 130	X340298 - X3J0142-04	16-Oct-23	
EPA 200.8	Antimony	mg/L	0.0268	<0.00100	0.0250	107	70 - 130	X340298 - X3J0163-02	16-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0334	<0.00100	0.0250	131	70 - 130	X340298 - X3J0142-04	16-Oct-23	M1
EPA 200.8	Arsenic	mg/L	0.0285	<0.00100	0.0250	112	70 - 130	X340298 - X3J0163-02	16-Oct-23	
EPA 200.8	Selenium	mg/L	0.0374	<0.00100	0.0250	146	70 - 130	X340298 - X3J0142-04	16-Oct-23	M1

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Selenium	mg/L	0.0289	<0.00100	0.0250	113	70 - 130	X340298 - X3J0163-02	17-Oct-23	
EPA 200.8	Thallium	mg/L	0.0311	<0.000200	0.0250	124	70 - 130	X340298 - X3J0142-04	16-Oct-23	
EPA 200.8	Thallium	mg/L	0.0278	<0.000200	0.0250	111	70 - 130	X340298 - X3J0163-02	16-Oct-23	
EPA 200.8	Uranium	mg/L	0.0325	0.000393	0.0250	128	70 - 130	X340298 - X3J0142-04	16-Oct-23	
EPA 200.8	Uranium	mg/L	0.0292	0.000168	0.0250	116	70 - 130	X340298 - X3J0163-02	16-Oct-23	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00203	<0.000200	0.00200	102	70 - 130	X341002 - X3J0149-01	09-Oct-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0790	<0.0050	0.100	79.0	79 - 121	X341176 - X3J0097-01	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X342016 - X3J0148-01	17-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X342016 - X3J0149-01	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	99.7	90 - 110	X342115 - X3J0149-01	18-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	101	90 - 110	X342115 - X3J0149-02	18-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	<0.0050	0.100	94.0	82 - 118	X340270 - X3J0149-01	09-Oct-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.96	<0.20	3.00	98.7	90 - 110	X340259 - X3J0149-05	06-Oct-23	
EPA 300.0	Chloride	mg/L	3.00	<0.20	3.00	98.9	90 - 110	X340259 - X3J0149-01	06-Oct-23	
EPA 300.0	Fluoride	mg/L	2.00	<0.100	2.00	99.8	90 - 110	X340259 - X3J0149-05	06-Oct-23	
EPA 300.0	Fluoride	mg/L	2.01	<0.100	2.00	101	90 - 110	X340259 - X3J0149-01	06-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.00	<0.050	2.00	99.9	90 - 110	X340259 - X3J0149-05	06-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.01	<0.050	2.00	101	90 - 110	X340259 - X3J0149-01	06-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.03	<0.100	4.00	101	90 - 110	X340259 - X3J0149-05	06-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.05	<0.100	4.00	101	90 - 110	X340259 - X3J0149-01	06-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X340259 - X3J0149-05	06-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X340259 - X3J0149-01	06-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.4	<0.30	10.0	104	90 - 110	X340259 - X3J0149-05	06-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.9	0.57	10.0	104	90 - 110	X340259 - X3J0149-01	06-Oct-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	19.7	20.2	20.0	2.2	20	96.8	X341025 - X3J0149-01	
EPA 200.7	Magnesium	mg/L	18.9	19.3	20.0	1.8	20	94.6	X341025 - X3J0149-01	
EPA 200.7	Potassium	mg/L	19.5	19.9	20.0	2.3	20	97.3	X341025 - X3J0149-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.03	1.06	1.00	3.1	20	103	X341090 - X3J0149-02	
EPA 200.7	Barium	mg/L	1.07	1.07	1.00	0.2	20	107	X341090 - X3J0149-02	
EPA 200.7	Beryllium	mg/L	0.888	0.941	1.00	5.8	20	88.8	X341090 - X3J0149-02	
EPA 200.7	Boron	mg/L	0.979	1.02	1.00	3.8	20	97.9	X341090 - X3J0149-02	
EPA 200.7	Cadmium	mg/L	0.961	1.00	1.00	4.1	20	96.1	X341090 - X3J0149-02	
EPA 200.7	Calcium	mg/L	19.5	19.9	20.0	2.2	20	97.4	X341090 - X3J0149-02	
EPA 200.7	Chromium	mg/L	0.984	1.02	1.00	3.3	20	98.4	X341090 - X3J0149-02	
EPA 200.7	Cobalt	mg/L	0.962	1.00	1.00	3.9	20	96.2	X341090 - X3J0149-02	
EPA 200.7	Copper	mg/L	0.960	0.996	1.00	3.7	20	96.0	X341090 - X3J0149-02	
EPA 200.7	Iron	mg/L	9.69	9.80	10.0	1.1	20	96.9	X341090 - X3J0149-02	
EPA 200.7	Lead	mg/L	0.971	0.974	1.00	0.3	20	97.1	X341090 - X3J0149-02	

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lithium	mg/L	0.905	0.937	1.00	3.5	20	90.5	X341090 - X3J0149-02	
EPA 200.7	Magnesium	mg/L	19.4	19.5	20.0	0.3	20	96.9	X341090 - X3J0149-02	
EPA 200.7	Manganese	mg/L	0.987	1.03	1.00	3.8	20	98.7	X341090 - X3J0149-02	
EPA 200.7	Molybdenum	mg/L	0.970	1.01	1.00	4.2	20	97.0	X341090 - X3J0149-02	
EPA 200.7	Nickel	mg/L	0.960	0.998	1.00	3.9	20	96.0	X341090 - X3J0149-02	
EPA 200.7	Potassium	mg/L	19.2	19.6	20.0	1.6	20	96.2	X341090 - X3J0149-02	
EPA 200.7	Silver	mg/L	0.0458	0.0481	0.0500	4.7	20	91.7	X341090 - X3J0149-02	
EPA 200.7	Sodium	mg/L	18.4	18.7	19.0	2.1	20	96.6	X341090 - X3J0149-02	
EPA 200.7	Vanadium	mg/L	1.04	1.04	1.00	0.4	20	104	X341090 - X3J0149-02	
EPA 200.7	Zinc	mg/L	0.981	0.979	1.00	0.1	20	98.1	X341090 - X3J0149-02	
EPA 200.8	Antimony	mg/L	0.0310	0.0301	0.0250	2.8	20	124	X340298 - X3J0142-04	
EPA 200.8	Arsenic	mg/L	0.0333	0.0334	0.0250	0.3	20	131	X340298 - X3J0142-04	M1
EPA 200.8	Selenium	mg/L	0.0375	0.0374	0.0250	0.4	20	147	X340298 - X3J0142-04	M1
EPA 200.8	Thallium	mg/L	0.0303	0.0311	0.0250	2.6	20	121	X340298 - X3J0142-04	
EPA 200.8	Uranium	mg/L	0.0317	0.0325	0.0250	2.3	20	125	X340298 - X3J0142-04	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00221	0.00203	0.00200	8.6	20	111	X341002 - X3J0149-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0800	0.0790	0.100	1.3	11	80.0	X341176 - X3J0097-01	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.102	0.100	0.4	20	102	X342016 - X3J0148-01	
EPA 350.1	Ammonia as N	mg/L	0.989	1.02	1.00	2.8	20	96.9	X342115 - X3J0149-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0870	0.0960	0.100	9.8	11	85.0	X340270 - X3J0149-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.03	2.96	3.00	2.4	20	101	X340259 - X3J0149-05	
EPA 300.0	Fluoride	mg/L	2.04	2.00	2.00	2.3	20	102	X340259 - X3J0149-05	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	2.00	2.3	20	102	X340259 - X3J0149-05	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.12	4.03	4.00	2.1	20	103	X340259 - X3J0149-05	
EPA 300.0	Nitrite as N	mg/L	2.08	2.04	2.00	1.9	20	104	X340259 - X3J0149-05	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.4	10.0	1.9	20	106	X340259 - X3J0149-05	

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Client Sample ID: **CRMW-5B**
SVL Sample ID: **X3J0097-02 (Ground Water)**

Sampled: 03-Oct-23 10:47
Received: 04-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	37.2	mg/L	0.100	0.069		X340277	JRR	10/10/23 13:52	
EPA 200.7	**Magnesium**	4.90	mg/L	0.500	0.090		X340277	JRR	10/10/23 13:52	
EPA 200.7	**Potassium**	2.60	mg/L	0.50	0.18		X340277	JRR	10/10/23 13:52	
SM 2340 B	**Hardness (as CaCO3)**	112	mg/L	2.31	0.543		N/A		10/13/23 10:38	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X340250	JRR	10/13/23 10:38	
EPA 200.7	**Barium**	0.0051	mg/L	0.0020	0.0019		X340250	JRR	10/13/23 10:38	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X340250	JRR	10/13/23 10:38	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X340250	JRR	10/13/23 10:38	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X340250	JRR	10/13/23 10:38	
EPA 200.7	**Calcium**	36.6	mg/L	0.100	0.069		X340250	JRR	10/13/23 10:38	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X340250	JRR	10/13/23 10:38	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X340250	JRR	10/13/23 10:38	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X340250	JRR	10/13/23 10:38	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X340250	JRR	10/13/23 10:38	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X340250	JRR	10/13/23 10:38	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X340250	JRR	10/13/23 10:38	
EPA 200.7	**Magnesium**	4.81	mg/L	0.500	0.090		X340250	JRR	10/13/23 10:38	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X340250	JRR	10/13/23 10:38	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X340250	JRR	10/13/23 10:38	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X340250	JRR	10/13/23 10:38	
EPA 200.7	**Potassium**	2.62	mg/L	0.50	0.18		X340250	JRR	10/13/23 10:38	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X340250	JRR	10/13/23 12:48	
EPA 200.7	**Sodium**	8.22	mg/L	0.50	0.12		X340250	JRR	10/13/23 10:38	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X340250	JRR	10/13/23 10:38	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X340250	JRR	10/13/23 10:38	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X340135	SMU	10/12/23 12:50	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X340135	SMU	10/12/23 12:50	
EPA 200.8	**Selenium**	0.00112	mg/L	0.00100	0.00024		X340135	SMU	10/12/23 12:50	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X340135	SMU	10/12/23 12:50	
EPA 200.8	**Uranium**	0.00388	mg/L	0.000100	0.000052		X340135	SMU	10/12/23 12:50	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341001	NMS	10/09/23 13:03	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X341176	DD	10/12/23 16:40	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X340191	DD	10/06/23 14:18	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X341137	HJL	10/16/23 15:29	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X340269	DD	10/06/23 14:58	
SM 2310 B	**Acidity to pH 8.3**	-83.9	mg/L as CaCO3	10.0			X340279	MWD	10/09/23 10:08	
SM 2320 B	**Total Alkalinity**	80.1	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:08	
SM 2320 B	**Bicarbonate**	80.1	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:08	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:08	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:08	
SM 2540 C	**Total Diss. Solids**	178	mg/L	10			X340178	TJL	10/09/23 14:35	R2B
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X340179	TJL	10/09/23 16:30	
SM 4500 H B	**pH @20.2°C**	7.6	pH Units				X340215	MWD	10/05/23 12:08	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Client Sample ID: **CRMW-5B**
SVL Sample ID: **X3J0097-02 (Ground Water)**

Sampled: 03-Oct-23 10:47
Received: 04-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	9.75	mg/L	0.20	0.02		X340170	RS	10/04/23 17:08	
EPA 300.0	**Fluoride**	2.69	mg/L	0.100	0.017		X340170	RS	10/04/23 17:08	
EPA 300.0	**Nitrate as N**	0.103	mg/L	0.050	0.013		X340170	RS	10/04/23 17:08	
EPA 300.0	**Nitrate+Nitrite as N**	0.103	mg/L	0.100	0.044		X340170	RS	10/04/23 17:08	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X340170	RS	10/04/23 17:08	
EPA 300.0	**Sulfate as SO4**	33.4	mg/L	0.30	0.18		X340170	RS	10/04/23 17:08	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 2.66 meq/L Anion Sum: 2.72 meq/L C/A Balance: -1.13 % Calculated TDS: 147 TDS/cTDS: 1.21

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kathryn Salter
Project Manager

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Client Sample ID: **CRMW-5C**
SVL Sample ID: **X3J0097-03 (Ground Water)**

Sampled: 03-Oct-23 10:02
Received: 04-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	22.7	mg/L	0.100	0.069		X340277	JRR	10/10/23 13:56	
EPA 200.7	**Magnesium**	4.17	mg/L	0.500	0.090		X340277	JRR	10/10/23 13:56	
EPA 200.7	**Potassium**	2.63	mg/L	0.50	0.18		X340277	JRR	10/10/23 13:56	
SM 2340 B	**Hardness (as CaCO3)**	74.2	mg/L	2.31	0.543		N/A		10/10/23 13:56	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X340250	JRR	10/13/23 10:42	
EPA 200.7	**Barium**	0.0078	mg/L	0.0020	0.0019		X340250	JRR	10/13/23 10:42	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X340250	JRR	10/13/23 10:42	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X340250	JRR	10/13/23 10:42	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X340250	JRR	10/13/23 10:42	
EPA 200.7	**Calcium**	22.9	mg/L	0.100	0.069		X340250	JRR	10/13/23 10:42	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X340250	JRR	10/13/23 10:42	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X340250	JRR	10/13/23 10:42	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X340250	JRR	10/13/23 10:42	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X340250	JRR	10/13/23 10:42	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X340250	JRR	10/13/23 10:42	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X340250	JRR	10/13/23 10:42	
EPA 200.7	**Magnesium**	4.25	mg/L	0.500	0.090		X340250	JRR	10/13/23 10:42	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X340250	JRR	10/13/23 10:42	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X340250	JRR	10/13/23 10:42	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X340250	JRR	10/13/23 10:42	
EPA 200.7	**Potassium**	2.69	mg/L	0.50	0.18		X340250	JRR	10/13/23 10:42	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X340250	JRR	10/13/23 12:52	
EPA 200.7	**Sodium**	8.16	mg/L	0.50	0.12		X340250	JRR	10/13/23 10:42	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X340250	JRR	10/13/23 10:42	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X340250	JRR	10/13/23 10:42	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X340135	SMU	10/12/23 12:52	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X340135	SMU	10/12/23 12:52	
EPA 200.8	**Selenium**	0.00110	mg/L	0.00100	0.00024		X340135	SMU	10/12/23 12:52	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X340135	SMU	10/12/23 12:52	
EPA 200.8	**Uranium**	0.000359	mg/L	0.000100	0.000052		X340135	SMU	10/12/23 12:52	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341001	NMS	10/09/23 13:05	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X341176	DD	10/12/23 16:42	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X340191	DD	10/06/23 14:20	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X341137	HJL	10/16/23 15:31	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X340269	DD	10/06/23 15:00	
SM 2310 B	**Acidity to pH 8.3**	-42.4	mg/L as CaCO3	10.0			X340279	MWD	10/09/23 10:08	
SM 2320 B	**Total Alkalinity**	42.6	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:13	
SM 2320 B	**Bicarbonate**	42.6	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:13	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:13	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:13	
SM 2540 C	**Total Diss. Solids**	105	mg/L	10			X340178	TJL	10/09/23 14:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X340179	TJL	10/09/23 16:30	
SM 4500 H B	**pH @20.5°C**	6.8	pH Units				X340215	MWD	10/05/23 12:13	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Client Sample ID: **CRMW-5C**
SVL Sample ID: **X3J0097-03 (Ground Water)**

Sampled: 03-Oct-23 10:02
Received: 04-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	10.1	mg/L	0.20	0.02		X340170	RS	10/04/23 17:42	
EPA 300.0	**Fluoride**	2.73	mg/L	0.100	0.017		X340170	RS	10/04/23 17:42	
EPA 300.0	**Nitrate as N**	0.097	mg/L	0.050	0.013		X340170	RS	10/04/23 17:42	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X340170	RS	10/04/23 17:42	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X340170	RS	10/04/23 17:42	
EPA 300.0	**Sulfate as SO4**	33.4	mg/L	0.30	0.18		X340170	RS	10/04/23 17:42	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 1.91 meq/L Anion Sum: 1.98 meq/L C/A Balance: -1.73 % Calculated TDS: 110 TDS/cTDS: 0.96

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kathryn Salter
Project Manager

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Client Sample ID: **CRMW-5D**
SVL Sample ID: **X3J0097-05 (Ground Water)**

Sampled: 03-Oct-23 09:15
Received: 04-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	21.2	mg/L	0.100	0.069		X340277	JRR	10/10/23 14:10	
EPA 200.7	**Magnesium**	4.00	mg/L	0.500	0.090		X340277	JRR	10/10/23 14:10	
EPA 200.7	**Potassium**	2.90	mg/L	0.50	0.18		X340277	JRR	10/10/23 14:10	
SM 2340 B	**Hardness (as CaCO3)**	70.5	mg/L	2.31	0.543		N/A		10/10/23 14:10	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X340250	JRR	10/13/23 10:56	
EPA 200.7	**Barium**	0.0694	mg/L	0.0020	0.0019		X340250	JRR	10/13/23 10:56	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X340250	JRR	10/13/23 10:56	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X340250	JRR	10/13/23 10:56	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X340250	JRR	10/13/23 10:56	
EPA 200.7	**Calcium**	21.5	mg/L	0.100	0.069		X340250	JRR	10/13/23 10:56	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X340250	JRR	10/13/23 10:56	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X340250	JRR	10/13/23 10:56	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X340250	JRR	10/13/23 10:56	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X340250	JRR	10/13/23 10:56	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X340250	JRR	10/13/23 10:56	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X340250	JRR	10/13/23 10:56	
EPA 200.7	**Magnesium**	4.11	mg/L	0.500	0.090		X340250	JRR	10/13/23 10:56	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X340250	JRR	10/13/23 10:56	
EPA 200.7	**Molybdenum**	0.0128	mg/L	0.0080	0.0034		X340250	JRR	10/13/23 10:56	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X340250	JRR	10/13/23 10:56	
EPA 200.7	**Potassium**	3.07	mg/L	0.50	0.18		X340250	JRR	10/13/23 10:56	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X340250	JRR	10/13/23 12:59	
EPA 200.7	**Sodium**	7.79	mg/L	0.50	0.12		X340250	JRR	10/13/23 10:56	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X340250	JRR	10/13/23 10:56	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X340250	JRR	10/13/23 10:56	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X340135	SMU	10/12/23 12:58	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X340135	SMU	10/12/23 12:58	
EPA 200.8	**Selenium**	0.00127	mg/L	0.00100	0.00024		X340135	SMU	10/12/23 12:58	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X340135	SMU	10/12/23 12:58	
EPA 200.8	**Uranium**	0.000119	mg/L	0.000100	0.000052		X340135	SMU	10/12/23 12:58	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341001	NMS	10/09/23 13:16	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X341176	DD	10/12/23 16:46	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X340191	DD	10/06/23 14:25	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X341137	HJL	10/16/23 15:45	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X340269	DD	10/09/23 09:52	
SM 2310 B	**Acidity to pH 8.3**	-32.0	mg/L as CaCO3	10.0			X340279	MWD	10/09/23 10:08	
SM 2320 B	**Total Alkalinity**	34.4	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:33	
SM 2320 B	**Bicarbonate**	34.4	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:33	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:33	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:33	
SM 2540 C	**Total Diss. Solids**	105	mg/L	10			X340178	TJL	10/09/23 14:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X340179	TJL	10/09/23 16:30	
SM 4500 H B	**pH @21.5°C**	6.6	pH Units				X340215	MWD	10/05/23 12:33	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Client Sample ID: **CRMW-5D**
SVL Sample ID: **X3J0097-05 (Ground Water)**

Sampled: 03-Oct-23 09:15
Received: 04-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	12.8	mg/L	2.00	0.22	10	X340170	RS	10/06/23 04:28	D2
EPA 300.0	**Fluoride**	2.78	mg/L	0.100	0.017		X340170	RS	10/04/23 18:16	
EPA 300.0	**Nitrate as N**	0.074	mg/L	0.050	0.013		X340170	RS	10/04/23 18:16	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X340170	RS	10/04/23 18:16	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X340170	RS	10/04/23 18:16	
EPA 300.0	**Sulfate as SO4**	31.6	mg/L	0.30	0.18		X340170	RS	10/04/23 18:16	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 1.81 meq/L Anion Sum: 1.86 meq/L C/A Balance: -1.14 % Calculated TDS: 104 TDS/cTDS: 1.01

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kathryn Salter
Project Manager

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Victor, CO 80860

Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Client Sample ID: **SGMW-6B**
SVL Sample ID: **X3J0097-06 (Ground Water)**

Sampled: 03-Oct-23 11:57
Received: 04-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	473	mg/L	1.00	0.690	10	X340277	JRR	10/10/23 14:49	D2
EPA 200.7	**Magnesium**	109	mg/L	0.500	0.090		X340277	JRR	10/10/23 14:14	
EPA 200.7	**Potassium**	9.70	mg/L	0.50	0.18		X340277	JRR	10/10/23 14:14	
SM 2340 B	**Hardness (as CaCO3)**	1600	mg/L	4.56	2.09		N/A		10/10/23 14:14	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	7.59	mg/L	0.080	0.054		X340250	JRR	10/13/23 10:59	
EPA 200.7	**Barium**	0.0084	mg/L	0.0020	0.0019		X340250	JRR	10/13/23 10:59	
EPA 200.7	**Beryllium**	0.0865	mg/L	0.00200	0.00080		X340250	JRR	10/13/23 10:59	
EPA 200.7	**Boron**	0.0864	mg/L	0.0400	0.0078		X340250	JRR	10/13/23 10:59	
EPA 200.7	**Cadmium**	0.0104	mg/L	0.0020	0.0016		X340250	JRR	10/13/23 10:59	
EPA 200.7	**Calcium**	460	mg/L	0.100	0.069		X340250	JRR	10/13/23 10:59	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X340250	JRR	10/13/23 10:59	
EPA 200.7	**Cobalt**	0.0345	mg/L	0.0060	0.0046		X340250	JRR	10/13/23 10:59	
EPA 200.7	**Copper**	0.0425	mg/L	0.0100	0.0027		X340250	JRR	10/13/23 10:59	
EPA 200.7	**Iron**	2.19	mg/L	0.100	0.056		X340250	JRR	10/13/23 10:59	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X340250	JRR	10/13/23 10:59	
EPA 200.7	**Lithium**	0.104	mg/L	0.040	0.025		X340250	JRR	10/13/23 10:59	
EPA 200.7	**Magnesium**	103	mg/L	0.500	0.090		X340250	JRR	10/13/23 10:59	
EPA 200.7	**Manganese**	12.7	mg/L	0.0080	0.0034		X340250	JRR	10/13/23 10:59	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X340250	JRR	10/13/23 10:59	
EPA 200.7	**Nickel**	0.175	mg/L	0.0100	0.0048		X340250	JRR	10/13/23 10:59	
EPA 200.7	**Potassium**	9.00	mg/L	0.50	0.18		X340250	JRR	10/13/23 10:59	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X340250	JRR	10/13/23 13:11	
EPA 200.7	**Sodium**	75.4	mg/L	0.50	0.12		X340250	JRR	10/13/23 10:59	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X340250	JRR	10/13/23 10:59	
EPA 200.7	**Zinc**	1.84	mg/L	0.0100	0.0054		X340250	JRR	10/13/23 10:59	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X340135	SMU	10/12/23 13:00	
EPA 200.8	**Arsenic**	0.00110	mg/L	0.00100	0.00021		X340135	SMU	10/12/23 13:00	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X340135	SMU	10/12/23 13:00	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X340135	SMU	10/12/23 13:00	
EPA 200.8	**Uranium**	0.0501	mg/L	0.000100	0.000052		X340135	SMU	10/12/23 13:00	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341001	NMS	10/09/23 13:18	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X341176	DD	10/12/23 16:48	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X340191	DD	10/06/23 14:28	
EPA 350.1	**Ammonia as N**	0.075	mg/L	0.030	0.013		X341137	HJL	10/16/23 15:47	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X340269	DD	10/09/23 09:54	
SM 2310 B	**Acidity to pH 8.3**	-21.6	mg/L as CaCO3	10.0			X340279	MWD	10/09/23 10:08	
SM 2320 B	**Total Alkalinity**	25.4	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:38	
SM 2320 B	**Bicarbonate**	25.4	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:38	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:38	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:38	
SM 2540 C	**Total Diss. Solids**	2440	mg/L	40			X340178	TJL	10/09/23 14:35	D2
SM 2540 D	**Total Susp. Solids**	34.0	mg/L	5.0			X340179	TJL	10/09/23 16:30	
SM 4500 H B	**pH @21.6°C**	5.6	pH Units				X340215	MWD	10/05/23 12:38	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Client Sample ID: **SGMW-6B**
SVL Sample ID: **X3J0097-06 (Ground Water)**

Sampled: 03-Oct-23 11:57
Received: 04-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	144	mg/L	10.0	1.10	50	X340170	RS	10/04/23 19:25	D2
EPA 300.0	**Fluoride**	11.1	mg/L	5.00	0.850	50	X340170	RS	10/04/23 19:25	D2
EPA 300.0	**Nitrate as N**	1.35	mg/L	0.050	0.013		X340170	RS	10/04/23 19:08	
EPA 300.0	**Nitrate+Nitrite as N**	1.35	mg/L	0.100	0.044		X340170	RS	10/04/23 19:08	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X340170	RS	10/04/23 19:08	
EPA 300.0	**Sulfate as SO4**	1640	mg/L	15.0	9.00	50	X340170	RS	10/04/23 19:25	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 36.4 meq/L Anion Sum: 39.4 meq/L C/A Balance: -3.95 % Calculated TDS: 2474 TDS/cTDS: 0.99

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kathryn Salter
Project Manager

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Victor, CO 80860

Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X340211	05-Oct-23	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X340277	10-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X340277	10-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X340277	10-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X340277	10-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X340277	10-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X340277	10-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X340277	10-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X340277	10-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X340277	10-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X340277	10-Oct-23	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X340277	10-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X340277	10-Oct-23	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X340277	10-Oct-23	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X340277	10-Oct-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X341018	13-Oct-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X341018	13-Oct-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X341018	13-Oct-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X341018	13-Oct-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X341018	13-Oct-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X341018	13-Oct-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X341018	13-Oct-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X340250	13-Oct-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X340250	13-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X340250	13-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X340250	13-Oct-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X340250	13-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X340250	13-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X340250	13-Oct-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X340250	13-Oct-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X340250	13-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X340250	13-Oct-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X340250	13-Oct-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X340250	13-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X340250	13-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X340250	13-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X340250	13-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X340250	13-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X340250	13-Oct-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X340250	13-Oct-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X340250	13-Oct-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X340250	13-Oct-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X340250	13-Oct-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X340135	12-Oct-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X340135	12-Oct-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X340135	12-Oct-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X340135	12-Oct-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X340135	12-Oct-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X340135	12-Oct-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X340135	12-Oct-23	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X340135	12-Oct-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X340135	12-Oct-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X340135	12-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X341001	09-Oct-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X341176	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X340191	06-Oct-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X341137	16-Oct-23	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X340180	12-Oct-23	
Hach 8167	Total Chlorine	mg/L	<0.020		0.020	X340171	04-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X340269	06-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X340279	09-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X340215	05-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X340215	05-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X340215	05-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X340215	05-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X340178	09-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X340179	09-Oct-23	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X341056	10-Oct-23	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X340229	05-Oct-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X340170	04-Oct-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X340170	04-Oct-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X340170	04-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X340170	04-Oct-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X340170	04-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X340170	04-Oct-23	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 245.1	Mercury	mg/L	0.00192	0.00200	96.1	85 - 115	X340211	05-Oct-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	1.04	1.00	104	85 - 115	X340277	10-Oct-23	
EPA 200.7	Beryllium	mg/L	1.03	1.00	103	85 - 115	X340277	10-Oct-23	
EPA 200.7	Boron	mg/L	0.964	1.00	96.4	85 - 115	X340277	10-Oct-23	
EPA 200.7	Calcium	mg/L	20.2	20.0	101	85 - 115	X340277	10-Oct-23	
EPA 200.7	Chromium	mg/L	1.05	1.00	105	85 - 115	X340277	10-Oct-23	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X340277	10-Oct-23	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X340277	10-Oct-23	
EPA 200.7	Manganese	mg/L	1.04	1.00	104	85 - 115	X340277	10-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.984	1.00	98.4	85 - 115	X340277	10-Oct-23	
EPA 200.7	Nickel	mg/L	0.986	1.00	98.6	85 - 115	X340277	10-Oct-23	
EPA 200.7	Phosphorus	mg/L	1.01	1.00	101	85 - 115	X340277	10-Oct-23	
EPA 200.7	Potassium	mg/L	20.8	20.0	104	85 - 115	X340277	10-Oct-23	
EPA 200.7	Sodium	mg/L	19.4	19.0	102	85 - 115	X340277	10-Oct-23	
EPA 200.7	Zinc	mg/L	0.996	1.00	99.6	85 - 115	X340277	10-Oct-23	
EPA 200.8	Antimony	mg/L	0.0247	0.0250	98.9	85 - 115	X341018	13-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0248	0.0250	99.0	85 - 115	X341018	13-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0243	0.0250	97.3	85 - 115	X341018	13-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)									
EPA 200.8	Chromium	mg/L	0.0260	0.0250	104	85 - 115	X341018	13-Oct-23	
EPA 200.8	Copper	mg/L	0.0259	0.0250	104	85 - 115	X341018	13-Oct-23	
EPA 200.8	Lead	mg/L	0.0239	0.0250	95.7	85 - 115	X341018	13-Oct-23	
EPA 200.8	Selenium	mg/L	0.0215	0.0250	85.9	85 - 115	X341018	13-Oct-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.987	1.00	98.7	85 - 115	X340250	13-Oct-23	
EPA 200.7	Barium	mg/L	1.00	1.00	100	85 - 115	X340250	13-Oct-23	
EPA 200.7	Beryllium	mg/L	0.940	1.00	94.0	85 - 115	X340250	13-Oct-23	
EPA 200.7	Boron	mg/L	0.914	1.00	91.4	85 - 115	X340250	13-Oct-23	
EPA 200.7	Cadmium	mg/L	0.943	1.00	94.3	85 - 115	X340250	13-Oct-23	
EPA 200.7	Calcium	mg/L	18.9	20.0	94.5	85 - 115	X340250	13-Oct-23	
EPA 200.7	Chromium	mg/L	0.942	1.00	94.2	85 - 115	X340250	13-Oct-23	
EPA 200.7	Cobalt	mg/L	0.937	1.00	93.7	85 - 115	X340250	13-Oct-23	
EPA 200.7	Copper	mg/L	0.926	1.00	92.6	85 - 115	X340250	13-Oct-23	
EPA 200.7	Iron	mg/L	9.33	10.0	93.3	85 - 115	X340250	13-Oct-23	
EPA 200.7	Lead	mg/L	0.930	1.00	93.0	85 - 115	X340250	13-Oct-23	
EPA 200.7	Lithium	mg/L	0.940	1.00	94.0	85 - 115	X340250	13-Oct-23	
EPA 200.7	Magnesium	mg/L	18.7	20.0	93.7	85 - 115	X340250	13-Oct-23	
EPA 200.7	Manganese	mg/L	0.957	1.00	95.7	85 - 115	X340250	13-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.923	1.00	92.3	85 - 115	X340250	13-Oct-23	
EPA 200.7	Nickel	mg/L	0.930	1.00	93.0	85 - 115	X340250	13-Oct-23	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.6	85 - 115	X340250	13-Oct-23	
EPA 200.7	Silver	mg/L	0.0497	0.0500	99.4	85 - 115	X340250	13-Oct-23	
EPA 200.7	Sodium	mg/L	17.9	19.0	94.3	85 - 115	X340250	13-Oct-23	
EPA 200.7	Vanadium	mg/L	0.942	1.00	94.2	85 - 115	X340250	13-Oct-23	
EPA 200.7	Zinc	mg/L	0.939	1.00	93.9	85 - 115	X340250	13-Oct-23	
EPA 200.8	Antimony	mg/L	0.0277	0.0250	111	85 - 115	X340135	12-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0283	0.0250	113	85 - 115	X340135	12-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0283	0.0250	113	85 - 115	X340135	12-Oct-23	
EPA 200.8	Chromium	mg/L	0.0275	0.0250	110	85 - 115	X340135	12-Oct-23	
EPA 200.8	Copper	mg/L	0.0276	0.0250	111	85 - 115	X340135	12-Oct-23	
EPA 200.8	Lead	mg/L	0.0256	0.0250	102	85 - 115	X340135	12-Oct-23	
EPA 200.8	Selenium	mg/L	0.0269	0.0250	108	85 - 115	X340135	13-Oct-23	
EPA 200.8	Silver	mg/L	0.0273	0.0250	109	85 - 115	X340135	12-Oct-23	
EPA 200.8	Thallium	mg/L	0.0261	0.0250	104	85 - 115	X340135	12-Oct-23	
EPA 200.8	Uranium	mg/L	0.0270	0.0250	108	85 - 115	X340135	12-Oct-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00209	0.00200	104	85 - 115	X341001	09-Oct-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.100	98.0	90 - 110	X341176	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.100	104	90 - 110	X340191	06-Oct-23	
EPA 350.1	Ammonia as N	mg/L	0.973	1.00	97.3	90 - 110	X341137	16-Oct-23	
EPA 351.2	TKN	mg/L	7.75	8.00	96.9	90 - 110	X340180	12-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X340269	06-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1390	1390	100	95.4 - 104	X340279	09-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.3	9.93	104	96.4 - 105	X340215	05-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X340215	05-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X340179	09-Oct-23	
SM 4500 S D	Sulfide	mg/L	0.538	0.500	108	85 - 115	X341056	10-Oct-23	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0914	0.100	91.4	80 - 120	X340229	05-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.8	90 - 110	X340170	04-Oct-23	
EPA 300.0	Fluoride	mg/L	2.00	2.00	100	90 - 110	X340170	04-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	100	90 - 110	X340170	04-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X340170	04-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X340170	04-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X340170	04-Oct-23	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
Hach 8167	Total Chlorine	mg/L	0.0200	0.0200	0.0	20	X340171 - X3J0097-01	04-Oct-23	H5
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X340279 - X3I0475-01	09-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	79.8	80.1	0.4	20	X340215 - X3J0097-02	05-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	79.8	80.1	0.4	20	X340215 - X3J0097-02	05-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X340215 - X3J0097-02	05-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X340215 - X3J0097-02	05-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	141	178	23.2	10	X340178 - X3J0097-02	09-Oct-23	R2B
SM 2540 C	Total Diss. Solids	mg/L	389	398	2.3	10	X340178 - X3J0106-01	09-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X340179 - X3J0106-01	09-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X340179 - X3J0097-02	09-Oct-23	
SM 4500 H B	pH @19.6°C	pH Units	7.5	7.6	1.3	20	X340215 - X3J0097-02	05-Oct-23	
SM 4500-O-G	Dissolved Oxygen	mg/L	1.1	1.2	8.7	20	X340206 - X3J0073-01	04-Oct-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00225	<0.000093	0.00200	112	70 - 130	X340211 - X3J0069-01	05-Oct-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	0.889	0.0287	1.00	86.0	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Beryllium	mg/L	0.984	<0.00200	1.00	98.4	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Boron	mg/L	0.954	0.0607	1.00	89.3	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Calcium	mg/L	576	554	20.0	110	70 - 130	X340277 - X3J0087-02	10-Oct-23	D2
EPA 200.7	Chromium	mg/L	0.982	<0.0060	1.00	98.2	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Iron	mg/L	9.59	<0.100	10.0	95.9	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Magnesium	mg/L	802	742	20.0	0.30R>S	70 - 130	X340277 - X3J0087-02	10-Oct-23	D2,M4
EPA 200.7	Manganese	mg/L	5.70	4.76	1.00	93.2	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.991	<0.0080	1.00	98.6	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Nickel	mg/L	1.28	0.364	1.00	91.3	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Phosphorus	mg/L	1.13	<0.050	1.00	113	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Potassium	mg/L	37.4	15.4	20.0	110	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Sodium	mg/L	57.1	36.7	19.0	108	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Zinc	mg/L	1.46	0.535	1.00	92.6	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.8	Antimony	mg/L	0.0255	<0.00100	0.0250	98.2	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Antimony	mg/L	0.0242	<0.00100	0.0250	96.9	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0245	<0.00100	0.0250	98.2	70 - 130	X341018 - X3J0061-01	13-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.8	Arsenic	mg/L	0.0244	<0.00100	0.0250	95.8	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0238	<0.000100	0.0250	95.1	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0230	<0.000100	0.0250	92.1	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Chromium	mg/L	0.0257	0.00121	0.0250	97.9	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Chromium	mg/L	0.0239	<0.00100	0.0250	93.2	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Copper	mg/L	0.0256	<0.00040	0.0250	101	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Copper	mg/L	0.0251	0.00091	0.0250	96.9	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Lead	mg/L	0.0239	<0.00020	0.0250	95.6	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Lead	mg/L	0.0227	<0.00020	0.0250	90.9	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Selenium	mg/L	0.0233	<0.00100	0.0250	89.3	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Selenium	mg/L	0.0220	<0.00100	0.0250	86.1	70 - 130	X341018 - X3J0142-04	13-Oct-23	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.06	<0.080	1.00	106	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Aluminum	mg/L	1.03	<0.080	1.00	103	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Barium	mg/L	1.07	0.0247	1.00	105	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Barium	mg/L	1.11	0.0587	1.00	105	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Beryllium	mg/L	0.987	<0.00200	1.00	98.7	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Beryllium	mg/L	0.993	<0.00200	1.00	99.3	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Boron	mg/L	0.965	<0.0400	1.00	96.5	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Boron	mg/L	0.965	<0.0400	1.00	96.5	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Cadmium	mg/L	0.981	<0.0020	1.00	98.1	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Cadmium	mg/L	0.968	0.0049	1.00	96.3	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Calcium	mg/L	33.4	13.6	20.0	98.9	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Calcium	mg/L	43.1	23.5	20.0	97.9	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Chromium	mg/L	0.982	<0.0060	1.00	98.2	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Cobalt	mg/L	0.982	<0.0060	1.00	98.2	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Cobalt	mg/L	0.952	<0.0060	1.00	95.2	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Copper	mg/L	0.968	<0.0100	1.00	96.8	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Copper	mg/L	0.991	<0.0100	1.00	99.1	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Iron	mg/L	9.95	<0.100	10.0	98.8	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Iron	mg/L	9.88	<0.100	10.0	97.9	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Lead	mg/L	0.968	<0.0075	1.00	96.8	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Lead	mg/L	0.959	<0.0075	1.00	95.9	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Lithium	mg/L	0.994	<0.040	1.00	99.4	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Lithium	mg/L	0.993	<0.040	1.00	99.3	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Magnesium	mg/L	22.3	2.73	20.0	98.0	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Magnesium	mg/L	26.7	7.21	20.0	97.5	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Manganese	mg/L	1.01	<0.0080	1.00	101	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Manganese	mg/L	1.14	0.119	1.00	102	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.971	<0.0080	1.00	97.1	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.950	<0.0080	1.00	95.0	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Nickel	mg/L	0.971	<0.0100	1.00	97.1	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Nickel	mg/L	0.950	<0.0100	1.00	95.0	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Potassium	mg/L	21.6	1.49	20.0	101	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Potassium	mg/L	21.6	1.38	20.0	101	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Silver	mg/L	0.0511	<0.0050	0.0500	102	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Silver	mg/L	0.0508	<0.0050	0.0500	102	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Sodium	mg/L	25.3	6.67	19.0	98.2	70 - 130	X340250 - X3J0097-01	13-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Sodium	mg/L	27.9	9.00	19.0	99.5	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Vanadium	mg/L	0.983	<0.0050	1.00	98.3	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Zinc	mg/L	0.979	<0.0100	1.00	97.9	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Zinc	mg/L	1.79	0.870	1.00	92.4	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.8	Antimony	mg/L	0.0266	<0.00100	0.0250	106	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Antimony	mg/L	0.0258	<0.00100	0.0250	103	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0273	<0.00100	0.0250	108	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0286	<0.00100	0.0250	113	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0258	<0.000100	0.0250	103	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0252	<0.000100	0.0250	101	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Chromium	mg/L	0.0255	<0.00100	0.0250	102	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Chromium	mg/L	0.0266	<0.00100	0.0250	105	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Copper	mg/L	0.0265	0.00099	0.0250	102	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Copper	mg/L	0.0306	0.00731	0.0250	93.2	70 - 130	X340135 - X3J0106-01	13-Oct-23	
EPA 200.8	Lead	mg/L	0.0239	<0.00020	0.0250	95.4	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Lead	mg/L	0.0236	<0.00020	0.0250	94.3	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Selenium	mg/L	0.0290	<0.00100	0.0250	116	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Selenium	mg/L	0.0318	0.00181	0.0250	120	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Silver	mg/L	0.0244	<0.00008	0.0250	97.6	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Silver	mg/L	0.0236	<0.00008	0.0250	94.3	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Thallium	mg/L	0.0246	<0.000200	0.0250	98.4	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Thallium	mg/L	0.0231	<0.000200	0.0250	92.5	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Uranium	mg/L	0.0257	<0.000100	0.0250	102	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Uranium	mg/L	0.0279	0.00119	0.0250	107	70 - 130	X340135 - X3J0106-01	12-Oct-23	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	107	70 - 130	X341001 - X3J0088-01	09-Oct-23	
EPA 245.1	Mercury	mg/L	0.00215	<0.000200	0.00200	107	70 - 130	X341001 - X3J0135-01	09-Oct-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0790	<0.0050	0.100	79.0	79 - 121	X341176 - X3J0097-01	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.0935	<0.0050	0.100	93.5	90 - 110	X340191 - X3I0449-01	06-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.0957	<0.0050	0.100	95.7	90 - 110	X340191 - X3I0449-02	06-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X341137 - X3J0081-01	16-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.10	0.031	1.00	107	90 - 110	X341137 - X3J0081-03	17-Oct-23	
EPA 351.2	TKN	mg/L	17.4	11.7	8.00	71.3	90 - 110	X340180 - X3I0543-01	12-Oct-23	M2
EPA 351.2	TKN	mg/L	22.3	15.3	8.00	87.2	90 - 110	X340180 - X3I0543-02	12-Oct-23	D2,M2
OIA 1677	Cyanide (WAD)	mg/L	0.100	<0.0050	0.100	100	82 - 118	X340269 - X3I0449-01	06-Oct-23	
SM 4500 S D	Sulfide	mg/L	3.28	2.28	0.200	0.30R>S	75 - 125	X341056 - X3J0187-03	10-Oct-23	D2,M4
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0230	<0.0050	0.0222	103	75 - 125	X340229 - X3I0449-03	05-Oct-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.40	0.47	3.00	97.7	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Chloride	mg/L	16.3	13.0	3.00	109	90 - 110	X340170 - X3J0096-01	06-Oct-23	D2
EPA 300.0	Fluoride	mg/L	2.16	0.173	2.00	99.6	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Fluoride	mg/L	2.12	0.145	2.00	98.9	90 - 110	X340170 - X3J0096-01	04-Oct-23	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	99.7	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.02	<0.050	2.00	99.6	90 - 110	X340170 - X3J0096-01	04-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.02	<0.100	4.00	101	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.99	<0.100	4.00	99.8	90 - 110	X340170 - X3J0096-01	04-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	102	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Nitrite as N	mg/L	1.97	<0.050	2.00	98.6	90 - 110	X340170 - X3J0096-01	04-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	20.2	10.5	10.0	97.7	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	14.5	4.28	10.0	102	90 - 110	X340170 - X3J0096-01	04-Oct-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00215	0.00225	0.00200	4.6	20	107	X340211 - X3J0069-01	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.04	0.889	1.00	16.2	20	102	X340277 - X3J0087-02	
EPA 200.7	Beryllium	mg/L	0.974	0.984	1.00	1.1	20	97.4	X340277 - X3J0087-02	
EPA 200.7	Boron	mg/L	0.944	0.954	1.00	1.0	20	88.3	X340277 - X3J0087-02	
EPA 200.7	Calcium	mg/L	578	576	20.0	0.3	20	118	X340277 - X3J0087-02	D2
EPA 200.7	Chromium	mg/L	0.986	0.982	1.00	0.4	20	98.6	X340277 - X3J0087-02	
EPA 200.7	Iron	mg/L	9.50	9.59	10.0	1.0	20	95.0	X340277 - X3J0087-02	
EPA 200.7	Magnesium	mg/L	804	802	20.0	0.3	20	0.30R>S	X340277 - X3J0087-02	D2,M4
EPA 200.7	Manganese	mg/L	5.70	5.70	1.00	0.0	20	93.1	X340277 - X3J0087-02	
EPA 200.7	Molybdenum	mg/L	0.978	0.991	1.00	1.3	20	97.3	X340277 - X3J0087-02	
EPA 200.7	Nickel	mg/L	1.27	1.28	1.00	0.2	20	91.1	X340277 - X3J0087-02	
EPA 200.7	Phosphorus	mg/L	1.11	1.13	1.00	1.8	20	111	X340277 - X3J0087-02	
EPA 200.7	Potassium	mg/L	37.4	37.4	20.0	0.0	20	110	X340277 - X3J0087-02	
EPA 200.7	Sodium	mg/L	56.7	57.1	19.0	0.8	20	105	X340277 - X3J0087-02	
EPA 200.7	Zinc	mg/L	1.46	1.46	1.00	0.4	20	92.0	X340277 - X3J0087-02	
EPA 200.8	Antimony	mg/L	0.0255	0.0255	0.0250	0.2	20	97.9	X341018 - X3J0061-01	
EPA 200.8	Arsenic	mg/L	0.0247	0.0245	0.0250	0.7	20	98.9	X341018 - X3J0061-01	
EPA 200.8	Cadmium	mg/L	0.0239	0.0238	0.0250	0.6	20	95.6	X341018 - X3J0061-01	
EPA 200.8	Chromium	mg/L	0.0263	0.0257	0.0250	2.6	20	101	X341018 - X3J0061-01	
EPA 200.8	Copper	mg/L	0.0252	0.0256	0.0250	1.5	20	99.3	X341018 - X3J0061-01	
EPA 200.8	Lead	mg/L	0.0238	0.0239	0.0250	0.4	20	95.2	X341018 - X3J0061-01	
EPA 200.8	Selenium	mg/L	0.0218	0.0233	0.0250	6.6	20	83.3	X341018 - X3J0061-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.07	1.06	1.00	0.6	20	107	X340250 - X3J0097-01	
EPA 200.7	Barium	mg/L	1.07	1.07	1.00	0.0	20	105	X340250 - X3J0097-01	
EPA 200.7	Beryllium	mg/L	0.988	0.987	1.00	0.2	20	98.8	X340250 - X3J0097-01	
EPA 200.7	Boron	mg/L	0.962	0.965	1.00	0.3	20	96.2	X340250 - X3J0097-01	
EPA 200.7	Cadmium	mg/L	0.975	0.981	1.00	0.7	20	97.5	X340250 - X3J0097-01	
EPA 200.7	Calcium	mg/L	33.3	33.4	20.0	0.3	20	98.5	X340250 - X3J0097-01	
EPA 200.7	Chromium	mg/L	0.999	0.982	1.00	1.7	20	99.9	X340250 - X3J0097-01	
EPA 200.7	Cobalt	mg/L	0.968	0.982	1.00	1.5	20	96.8	X340250 - X3J0097-01	
EPA 200.7	Copper	mg/L	0.979	0.968	1.00	1.2	20	97.9	X340250 - X3J0097-01	
EPA 200.7	Iron	mg/L	9.86	9.95	10.0	0.9	20	97.9	X340250 - X3J0097-01	
EPA 200.7	Lead	mg/L	0.965	0.968	1.00	0.4	20	96.5	X340250 - X3J0097-01	
EPA 200.7	Lithium	mg/L	1.00	0.994	1.00	0.7	20	100	X340250 - X3J0097-01	
EPA 200.7	Magnesium	mg/L	22.3	22.3	20.0	0.2	20	97.8	X340250 - X3J0097-01	
EPA 200.7	Manganese	mg/L	1.02	1.01	1.00	0.4	20	101	X340250 - X3J0097-01	
EPA 200.7	Molybdenum	mg/L	0.964	0.971	1.00	0.7	20	96.4	X340250 - X3J0097-01	
EPA 200.7	Nickel	mg/L	0.960	0.971	1.00	1.1	20	96.0	X340250 - X3J0097-01	
EPA 200.7	Potassium	mg/L	21.7	21.6	20.0	0.4	20	101	X340250 - X3J0097-01	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Silver	mg/L	0.0504	0.0511	0.0500	1.4	20	101	X340250 - X3J0097-01	
EPA 200.7	Sodium	mg/L	25.5	25.3	19.0	0.5	20	98.9	X340250 - X3J0097-01	
EPA 200.7	Vanadium	mg/L	0.992	0.983	1.00	0.9	20	99.2	X340250 - X3J0097-01	
EPA 200.7	Zinc	mg/L	0.972	0.979	1.00	0.7	20	97.2	X340250 - X3J0097-01	
EPA 200.8	Antimony	mg/L	0.0255	0.0266	0.0250	4.3	20	102	X340135 - X3J0097-01	
EPA 200.8	Arsenic	mg/L	0.0264	0.0273	0.0250	3.4	20	104	X340135 - X3J0097-01	
EPA 200.8	Cadmium	mg/L	0.0254	0.0258	0.0250	1.6	20	101	X340135 - X3J0097-01	
EPA 200.8	Chromium	mg/L	0.0250	0.0255	0.0250	2.1	20	99.9	X340135 - X3J0097-01	
EPA 200.8	Copper	mg/L	0.0258	0.0265	0.0250	2.7	20	99.3	X340135 - X3J0097-01	
EPA 200.8	Lead	mg/L	0.0237	0.0239	0.0250	0.8	20	94.6	X340135 - X3J0097-01	
EPA 200.8	Selenium	mg/L	0.0277	0.0290	0.0250	4.3	20	111	X340135 - X3J0097-01	
EPA 200.8	Silver	mg/L	0.0238	0.0244	0.0250	2.3	20	95.4	X340135 - X3J0097-01	
EPA 200.8	Thallium	mg/L	0.0245	0.0246	0.0250	0.5	20	97.9	X340135 - X3J0097-01	
EPA 200.8	Uranium	mg/L	0.0259	0.0257	0.0250	0.6	20	103	X340135 - X3J0097-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00223	0.00214	0.00200	3.7	20	111	X341001 - X3J0088-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0800	0.0790	0.100	1.3	11	80.0	X341176 - X3J0097-01	
EPA 335.4	Cyanide (total)	mg/L	0.0947	0.0935	0.100	1.3	20	94.7	X340191 - X3I0449-01	
EPA 350.1	Ammonia as N	mg/L	1.04	1.02	1.00	2.2	20	104	X341137 - X3J0081-01	
EPA 351.2	TKN	mg/L	17.7	17.4	8.00	1.7	20	75.0	X340180 - X3I0543-01	M2
OIA 1677	Cyanide (WAD)	mg/L	0.100	0.100	0.100	0.0	11	100	X340269 - X3I0449-01	
SM 4500 S D	Sulfide	mg/L	3.38	3.28	0.200	2.9	20	0.30R>S	X341056 - X3J0187-03	D2,M4
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0216	0.0230	0.0222	6.2	20	97.2	X340229 - X3I0449-03	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.46	3.40	3.00	1.5	20	99.4	X340170 - X3J0095-01	
EPA 300.0	Fluoride	mg/L	2.19	2.16	2.00	1.3	20	101	X340170 - X3J0095-01	
EPA 300.0	Nitrate as N	mg/L	2.02	1.99	2.00	1.5	20	101	X340170 - X3J0095-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	4.02	4.00	1.4	20	102	X340170 - X3J0095-01	
EPA 300.0	Nitrite as N	mg/L	2.06	2.03	2.00	1.2	20	103	X340170 - X3J0095-01	
EPA 300.0	Sulfate as SO4	mg/L	20.4	20.2	10.0	0.7	20	99.2	X340170 - X3J0095-01	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
J	The reported value is less than the Reporting Limit (MRL, CRDL) but greater than or equal to the MDL. Results closer to the MDL have increased relative uncertainty.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
U	Less than MDL.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3J0239**
Reported: 25-Oct-23 15:49

Client Sample ID: **GVMW-8B**
SVL Sample ID: **X3J0239-01 (Ground Water)**

Sampled: 11-Oct-23 09:49
Received: 12-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	44.6	mg/L	0.100	0.069		X342086	JRR	10/18/23 10:40	
EPA 200.7	**Magnesium**	6.93	mg/L	0.500	0.090		X342086	JRR	10/18/23 10:40	
EPA 200.7	**Potassium**	1.24	mg/L	0.50	0.18		X342086	JRR	10/18/23 10:40	
SM 2340 B	**Hardness (as CaCO3)**	140	mg/L	2.31	0.543		N/A		10/18/23 10:40	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X342208	JRR	10/25/23 13:04	
EPA 200.7	**Barium**	0.0055	mg/L	0.0020	0.0019		X342208	JRR	10/25/23 13:04	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X342208	JRR	10/25/23 13:04	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X342208	JRR	10/25/23 13:04	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X342208	JRR	10/25/23 13:04	
EPA 200.7	**Calcium**	43.6	mg/L	0.100	0.069		X342208	JRR	10/25/23 13:04	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X342208	JRR	10/25/23 13:04	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X342208	JRR	10/25/23 13:04	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X342208	JRR	10/25/23 13:04	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X342208	JRR	10/25/23 13:04	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X342208	JRR	10/25/23 13:04	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X342208	JRR	10/25/23 13:52	
EPA 200.7	**Magnesium**	7.06	mg/L	0.500	0.090		X342208	JRR	10/25/23 13:04	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X342208	JRR	10/25/23 13:04	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342208	JRR	10/25/23 13:04	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X342208	JRR	10/25/23 13:04	
EPA 200.7	**Potassium**	1.27	mg/L	0.50	0.18		X342208	JRR	10/25/23 13:04	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X342208	JRR	10/25/23 13:04	
EPA 200.7	**Sodium**	24.3	mg/L	0.50	0.12		X342208	JRR	10/25/23 13:04	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X342208	JRR	10/25/23 13:04	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X342208	JRR	10/25/23 13:04	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X341240	SMU	10/23/23 19:26	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X341240	SMU	10/23/23 19:26	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X341240	SMU	10/23/23 19:26	M1
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X341240	SMU	10/23/23 19:26	
EPA 200.8	**Uranium**	0.00277	mg/L	0.000100	0.000052		X341240	SMU	10/23/23 19:26	M1
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341221	MAC	10/16/23 12:27	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X342148	DD	10/18/23 17:09	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342082	DD	10/17/23 19:45	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342123	JRR	10/19/23 17:31	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X342247	DD	10/23/23 14:42	
SM 2310 B	**Acidity to pH 8.3**	-32.0	mg/L as CaCO3	10.0			X343035	MWD	10/23/23 14:10	
SM 2320 B	**Total Alkalinity**	39.4	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 15:53	
SM 2320 B	**Bicarbonate**	39.4	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 15:53	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 15:53	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 15:53	
SM 2540 C	**Total Diss. Solids**	255	mg/L	10			X342033	TJL	10/17/23 15:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X342035	TJL	10/17/23 14:30	
SM 4500 H B	**pH @21.3°C**	6.8	pH Units				X342134	MWD	10/18/23 15:53	H5

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Work Order: **X3J0239**
Reported: 25-Oct-23 15:49

Client Sample ID: **GVMW-8B**
SVL Sample ID: **X3J0239-01 (Ground Water)**

Sampled: 11-Oct-23 09:49
Received: 12-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	43.9	mg/L	2.00	0.22	10	X341171	KAG	10/12/23 14:51	D2
EPA 300.0	**Fluoride**	2.14	mg/L	0.100	0.017		X341171	KAG	10/12/23 14:34	
EPA 300.0	**Nitrate as N**	2.11	mg/L	0.050	0.013		X341171	RS	10/12/23 14:34	
EPA 300.0	**Nitrate+Nitrite as N**	2.11	mg/L	0.100	0.044		X341171	RS	10/12/23 14:34	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X341171	RS	10/12/23 14:34	
EPA 300.0	**Sulfate as SO4**	87.3	mg/L	3.00	1.80	10	X341171	KAG	10/12/23 14:51	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 3.85 meq/L Anion Sum: 4.11 meq/L C/A Balance: -3.25 % Calculated TDS: 243 TDS/cTDS: 1.05

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Post Office Box 191
Victor, CO 80860

Work Order: **X3J0239**
Reported: 25-Oct-23 15:49

Client Sample ID: **GVMW-8A**
SVL Sample ID: **X3J0239-02 (Ground Water)**

Sampled: 11-Oct-23 10:30
Received: 12-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	49.7	mg/L	0.100	0.069		X342086	JRR	10/18/23 10:51	
EPA 200.7	**Magnesium**	6.58	mg/L	0.500	0.090		X342086	JRR	10/18/23 10:51	
EPA 200.7	**Potassium**	0.66	mg/L	0.50	0.18		X342086	JRR	10/18/23 10:51	
SM 2340 B	**Hardness (as CaCO3)**	151	mg/L	2.31	0.543		N/A		10/25/23 13:08	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X342208	JRR	10/25/23 13:08	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X342208	JRR	10/25/23 13:08	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X342208	JRR	10/25/23 13:08	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X342208	JRR	10/25/23 13:08	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X342208	JRR	10/25/23 13:08	
EPA 200.7	**Calcium**	49.5	mg/L	0.100	0.069		X342208	JRR	10/25/23 13:08	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X342208	JRR	10/25/23 13:08	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X342208	JRR	10/25/23 13:08	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X342208	JRR	10/25/23 13:08	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X342208	JRR	10/25/23 13:08	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X342208	JRR	10/25/23 13:08	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X342208	JRR	10/25/23 13:56	
EPA 200.7	**Magnesium**	6.30	mg/L	0.500	0.090		X342208	JRR	10/25/23 13:08	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X342208	JRR	10/25/23 13:08	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342208	JRR	10/25/23 13:08	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X342208	JRR	10/25/23 13:08	
EPA 200.7	**Potassium**	0.76	mg/L	0.50	0.18		X342208	JRR	10/25/23 13:08	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X342208	JRR	10/25/23 13:08	
EPA 200.7	**Sodium**	23.8	mg/L	0.50	0.12		X342208	JRR	10/25/23 13:08	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X342208	JRR	10/25/23 13:08	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X342208	JRR	10/25/23 13:08	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X341240	SMU	10/23/23 19:51	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X341240	SMU	10/23/23 19:51	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X341240	SMU	10/23/23 19:51	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X341240	SMU	10/23/23 19:51	
EPA 200.8	**Uranium**	0.00490	mg/L	0.000100	0.000052		X341240	SMU	10/23/23 19:51	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341221	MAC	10/16/23 12:29	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X342148	DD	10/18/23 17:11	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342082	DD	10/17/23 19:47	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342123	JRR	10/19/23 17:34	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X342247	DD	10/23/23 14:43	
SM 2310 B	**Acidity to pH 8.3**	-42.4	mg/L as CaCO3	10.0			X343035	MWD	10/23/23 14:10	
SM 2320 B	**Total Alkalinity**	48.1	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 15:58	
SM 2320 B	**Bicarbonate**	48.1	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 15:58	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 15:58	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 15:58	
SM 2540 C	**Total Diss. Solids**	276	mg/L	10			X342033	TJL	10/17/23 15:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X342035	TJL	10/17/23 14:30	
SM 4500 H B	**pH @21.2°C**	7.0	pH Units				X342134	MWD	10/18/23 15:58	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3J0239**
Reported: 25-Oct-23 15:49

Client Sample ID: **GVMW-8A**
SVL Sample ID: **X3J0239-02 (Ground Water)**

Sampled: 11-Oct-23 10:30
Received: 12-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	71.1	mg/L	2.00	0.22	10	X341171	KAG	10/12/23 15:26	D2
EPA 300.0	**Fluoride**	1.81	mg/L	0.100	0.017		X341171	KAG	10/12/23 15:09	
EPA 300.0	**Nitrate as N**	1.09	mg/L	0.050	0.013		X341171	RS	10/12/23 15:09	
EPA 300.0	**Nitrate+Nitrite as N**	1.09	mg/L	0.100	0.044		X341171	RS	10/12/23 15:09	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X341171	RS	10/12/23 15:09	
EPA 300.0	**Sulfate as SO4**	55.4	mg/L	3.00	1.80	10	X341171	KAG	10/12/23 15:26	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 4.05 meq/L Anion Sum: 4.29 meq/L C/A Balance: -2.87 % Calculated TDS: 243 TDS/cTDS: 1.14

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Victor, CO 80860

Work Order: **X3J0239**
Reported: 25-Oct-23 15:49

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X3J0239-03 (Ground Water)**

Sampled: 11-Oct-23 11:55
Received: 12-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	34.4	mg/L	0.100	0.069		X342086	JRR	10/18/23 10:55	
EPA 200.7	**Magnesium**	9.52	mg/L	0.500	0.090		X342086	JRR	10/18/23 10:55	
EPA 200.7	**Potassium**	1.43	mg/L	0.50	0.18		X342086	JRR	10/18/23 10:55	
SM 2340 B	**Hardness (as CaCO3)**	125	mg/L	2.31	0.543		N/A		10/25/23 13:11	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X342208	JRR	10/25/23 13:11	
EPA 200.7	**Barium**	0.0489	mg/L	0.0020	0.0019		X342208	JRR	10/25/23 13:11	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X342208	JRR	10/25/23 13:11	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X342208	JRR	10/25/23 13:11	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X342208	JRR	10/25/23 13:11	
EPA 200.7	**Calcium**	33.5	mg/L	0.100	0.069		X342208	JRR	10/25/23 13:11	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X342208	JRR	10/25/23 13:11	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X342208	JRR	10/25/23 13:11	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X342208	JRR	10/25/23 13:11	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X342208	JRR	10/25/23 13:11	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X342208	JRR	10/25/23 13:11	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X342208	JRR	10/25/23 13:59	
EPA 200.7	**Magnesium**	9.33	mg/L	0.500	0.090		X342208	JRR	10/25/23 13:11	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X342208	JRR	10/25/23 13:11	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342208	JRR	10/25/23 13:11	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X342208	JRR	10/25/23 13:11	
EPA 200.7	**Potassium**	1.54	mg/L	0.50	0.18		X342208	JRR	10/25/23 13:11	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X342208	JRR	10/25/23 13:11	
EPA 200.7	**Sodium**	20.4	mg/L	0.50	0.12		X342208	JRR	10/25/23 13:11	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X342208	JRR	10/25/23 13:11	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X342208	JRR	10/25/23 13:11	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X341240	SMU	10/23/23 19:53	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X341240	SMU	10/23/23 19:53	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X341240	SMU	10/23/23 19:53	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X341240	SMU	10/23/23 19:53	
EPA 200.8	**Uranium**	0.000936	mg/L	0.000100	0.000052		X341240	SMU	10/23/23 19:53	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341221	MAC	10/16/23 12:31	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X342148	DD	10/18/23 17:13	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342082	DD	10/17/23 20:02	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342123	JRR	10/19/23 17:37	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X342247	DD	10/23/23 14:49	
SM 2310 B	**Acidity to pH 8.3**	-73.5	mg/L as CaCO3	10.0			X343035	MWD	10/23/23 14:10	
SM 2320 B	**Total Alkalinity**	74.8	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 16:04	
SM 2320 B	**Bicarbonate**	74.8	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 16:04	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 16:04	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 16:04	
SM 2540 C	**Total Diss. Solids**	226	mg/L	10			X342033	TJL	10/17/23 15:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X342035	TJL	10/17/23 14:30	
SM 4500 H B	**pH @21.2°C**	7.0	pH Units				X342134	MWD	10/18/23 16:04	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3J0239**
Reported: 25-Oct-23 15:49

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X3J0239-03 (Ground Water)**

Sampled: 11-Oct-23 11:55
Received: 12-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	9.81	mg/L	0.20	0.02		X341171	KAG	10/12/23 15:43	
EPA 300.0	**Fluoride**	0.367	mg/L	0.100	0.017		X341171	KAG	10/12/23 15:43	
EPA 300.0	**Nitrate as N**	0.565	mg/L	0.050	0.013		X341171	RS	10/12/23 15:43	
EPA 300.0	**Nitrate+Nitrite as N**	0.565	mg/L	0.100	0.044		X341171	RS	10/12/23 15:43	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X341171	RS	10/12/23 15:43	
EPA 300.0	**Sulfate as SO4**	83.8	mg/L	3.00	1.80	10	X341171	KAG	10/12/23 16:00	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 3.38 meq/L Anion Sum: 3.58 meq/L C/A Balance: -2.86 % Calculated TDS: 207 TDS/cTDS: 1.09

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3J0239**
Reported: 25-Oct-23 15:49

Client Sample ID: **GVMW-22A**
SVL Sample ID: **X3J0239-04 (Ground Water)**

Sampled: 11-Oct-23 13:00
Received: 12-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	29.0	mg/L	0.100	0.069		X342086	JRR	10/18/23 10:58	
EPA 200.7	**Magnesium**	11.7	mg/L	0.500	0.090		X342086	JRR	10/18/23 10:58	
EPA 200.7	**Potassium**	1.05	mg/L	0.50	0.18		X342086	JRR	10/18/23 10:58	
SM 2340 B	**Hardness (as CaCO3)**	124	mg/L	2.31	0.543		N/A		10/18/23 10:58	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X342208	JRR	10/25/23 13:15	
EPA 200.7	**Barium**	0.108	mg/L	0.0020	0.0019		X342208	JRR	10/25/23 13:15	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X342208	JRR	10/25/23 13:15	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X342208	JRR	10/25/23 13:15	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X342208	JRR	10/25/23 13:15	
EPA 200.7	**Calcium**	30.3	mg/L	0.100	0.069		X342208	JRR	10/25/23 13:15	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X342208	JRR	10/25/23 13:15	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X342208	JRR	10/25/23 13:15	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X342208	JRR	10/25/23 13:15	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X342208	JRR	10/25/23 13:15	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X342208	JRR	10/25/23 13:15	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X342208	JRR	10/25/23 14:03	
EPA 200.7	**Magnesium**	12.4	mg/L	0.500	0.090		X342208	JRR	10/25/23 13:15	
EPA 200.7	**Manganese**	0.0667	mg/L	0.0080	0.0034		X342208	JRR	10/25/23 13:15	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342208	JRR	10/25/23 13:15	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X342208	JRR	10/25/23 13:15	
EPA 200.7	**Potassium**	1.22	mg/L	0.50	0.18		X342208	JRR	10/25/23 13:15	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X342208	JRR	10/25/23 13:15	
EPA 200.7	**Sodium**	36.4	mg/L	0.50	0.12		X342208	JRR	10/25/23 13:15	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X342208	JRR	10/25/23 13:15	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X342208	JRR	10/25/23 13:15	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X341240	SMU	10/23/23 19:56	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X341240	SMU	10/23/23 19:56	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X341240	SMU	10/23/23 19:56	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X341240	SMU	10/23/23 19:56	
EPA 200.8	**Uranium**	0.00384	mg/L	0.000100	0.000052		X341240	SMU	10/23/23 19:56	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341221	MAC	10/16/23 12:33	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X342148	DD	10/18/23 17:15	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342082	DD	10/17/23 20:04	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342123	JRR	10/19/23 17:39	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X342247	DD	10/23/23 14:51	
SM 2310 B	**Acidity to pH 8.3**	-167	mg/L as CaCO3	10.0			X343035	MWD	10/23/23 14:10	
SM 2320 B	**Total Alkalinity**	164	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 16:09	
SM 2320 B	**Bicarbonate**	164	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 16:09	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 16:09	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X342134	MWD	10/18/23 16:09	
SM 2540 C	**Total Diss. Solids**	221	mg/L	10			X342033	TJL	10/17/23 15:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X342035	TJL	10/17/23 14:30	
SM 4500 H B	**pH @21.2°C**	7.9	pH Units				X342134	MWD	10/18/23 16:09	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Work Order: **X3J0239**
Reported: 25-Oct-23 15:49

Client Sample ID: **GVMW-22A**
SVL Sample ID: **X3J0239-04 (Ground Water)**

Sampled: 11-Oct-23 13:00
Received: 12-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	4.03	mg/L	0.20	0.02		X341171	KAG	10/12/23 16:59	
EPA 300.0	**Fluoride**	2.09	mg/L	0.100	0.017		X341171	KAG	10/12/23 16:59	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X341171	RS	10/12/23 16:59	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X341171	RS	10/12/23 16:59	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X341171	RS	10/12/23 16:59	
EPA 300.0	**Sulfate as SO4**	37.4	mg/L	0.30	0.18		X341171	KAG	10/12/23 16:59	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.04 meq/L Anion Sum: 4.28 meq/L C/A Balance: -2.95 % Calculated TDS: 221 TDS/cTDS: 1.00

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3J0239**
Reported: 25-Oct-23 15:49

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X342086	18-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X342086	18-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X342086	18-Oct-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X342208	25-Oct-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X342208	25-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X342208	25-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X342208	25-Oct-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X342208	25-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X342208	25-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X342208	25-Oct-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X342208	25-Oct-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X342208	25-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X342208	25-Oct-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X342208	25-Oct-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X342208	25-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X342208	25-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X342208	25-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X342208	25-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X342208	25-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X342208	25-Oct-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X342208	25-Oct-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X342208	25-Oct-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X342208	25-Oct-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X342208	25-Oct-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X341240	23-Oct-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X341240	23-Oct-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X341240	23-Oct-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X341240	23-Oct-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X341240	23-Oct-23	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X341221	16-Oct-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X342148	18-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X342082	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X342123	19-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X342247	23-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X343035	23-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X342134	18-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X342134	18-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X342134	18-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X342134	18-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X342033	17-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X342035	17-Oct-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X341171	12-Oct-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X341171	12-Oct-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X341171	12-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X341171	12-Oct-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X341171	12-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X341171	12-Oct-23	

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Work Order: **X3J0239**
Reported: 25-Oct-23 15:49

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	20.1	20.0	100	85 - 115	X342086	18-Oct-23	
EPA 200.7	Magnesium	mg/L	19.6	20.0	98.2	85 - 115	X342086	18-Oct-23	
EPA 200.7	Potassium	mg/L	20.4	20.0	102	85 - 115	X342086	18-Oct-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.966	1.00	96.6	85 - 115	X342208	25-Oct-23	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X342208	25-Oct-23	
EPA 200.7	Beryllium	mg/L	0.945	1.00	94.5	85 - 115	X342208	25-Oct-23	
EPA 200.7	Boron	mg/L	0.978	1.00	97.8	85 - 115	X342208	25-Oct-23	
EPA 200.7	Cadmium	mg/L	0.990	1.00	99.0	85 - 115	X342208	25-Oct-23	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.5	85 - 115	X342208	25-Oct-23	
EPA 200.7	Chromium	mg/L	0.997	1.00	99.7	85 - 115	X342208	25-Oct-23	
EPA 200.7	Cobalt	mg/L	0.980	1.00	98.0	85 - 115	X342208	25-Oct-23	
EPA 200.7	Copper	mg/L	0.983	1.00	98.3	85 - 115	X342208	25-Oct-23	
EPA 200.7	Iron	mg/L	9.79	10.0	97.9	85 - 115	X342208	25-Oct-23	
EPA 200.7	Lead	mg/L	0.984	1.00	98.4	85 - 115	X342208	25-Oct-23	
EPA 200.7	Lithium	mg/L	0.896	1.00	89.6	85 - 115	X342208	25-Oct-23	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.4	85 - 115	X342208	25-Oct-23	
EPA 200.7	Manganese	mg/L	0.950	1.00	95.0	85 - 115	X342208	25-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.975	1.00	97.5	85 - 115	X342208	25-Oct-23	
EPA 200.7	Nickel	mg/L	0.986	1.00	98.6	85 - 115	X342208	25-Oct-23	
EPA 200.7	Potassium	mg/L	19.0	20.0	94.9	85 - 115	X342208	25-Oct-23	
EPA 200.7	Silver	mg/L	0.0572	0.0500	114	85 - 115	X342208	25-Oct-23	
EPA 200.7	Sodium	mg/L	18.2	19.0	95.6	85 - 115	X342208	25-Oct-23	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X342208	25-Oct-23	
EPA 200.7	Zinc	mg/L	0.983	1.00	98.3	85 - 115	X342208	25-Oct-23	
EPA 200.8	Antimony	mg/L	0.0214	0.0250	85.5	85 - 115	X341240	23-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0235	0.0250	94.2	85 - 115	X341240	23-Oct-23	
EPA 200.8	Selenium	mg/L	0.0224	0.0250	89.6	85 - 115	X341240	23-Oct-23	
EPA 200.8	Thallium	mg/L	0.0231	0.0250	92.4	85 - 115	X341240	23-Oct-23	
EPA 200.8	Uranium	mg/L	0.0236	0.0250	94.3	85 - 115	X341240	23-Oct-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00202	0.00200	101	85 - 115	X341221	16-Oct-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.100	97.0	90 - 110	X342148	18-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X342082	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X342123	19-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X342247	23-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	98.6	95.4 - 104	X343035	23-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X342134	18-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	401	397	101	96.4 - 105	X342134	18-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X342035	17-Oct-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.97	3.00	99.1	90 - 110	X341171	12-Oct-23	
EPA 300.0	Fluoride	mg/L	1.98	2.00	99.2	90 - 110	X341171	12-Oct-23	
EPA 300.0	Nitrate as N	mg/L	1.99	2.00	99.7	90 - 110	X341171	12-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X341171	12-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X341171	12-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X341171	12-Oct-23	

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Work Order: **X3J0239**
Reported: 25-Oct-23 15:49

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X343035 - X3J0239-01	23-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	74.3	74.8	0.7	20	X342134 - X3J0239-03	18-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	74.3	74.8	0.7	20	X342134 - X3J0239-03	18-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X342134 - X3J0239-03	18-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X342134 - X3J0239-03	18-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	276	276	0.0	10	X342033 - X3J0239-02	17-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	309	322	4.1	10	X342033 - X3J0256-02	17-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X342035 - X3J0256-02	17-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X342035 - X3J0239-02	17-Oct-23	
SM 4500 H B	pH @21.3°C	pH Units	6.9	7.0	1.5	20	X342134 - X3J0239-03	18-Oct-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	65.2	44.6	20.0	103	70 - 130	X342086 - X3J0239-01	18-Oct-23	
EPA 200.7	Calcium	mg/L	125	107	20.0	89.3	70 - 130	X342086 - X3J0268-01	18-Oct-23	
EPA 200.7	Magnesium	mg/L	26.8	6.93	20.0	99.4	70 - 130	X342086 - X3J0239-01	18-Oct-23	
EPA 200.7	Magnesium	mg/L	30.2	10.4	20.0	98.7	70 - 130	X342086 - X3J0268-01	18-Oct-23	
EPA 200.7	Potassium	mg/L	21.8	1.24	20.0	103	70 - 130	X342086 - X3J0239-01	18-Oct-23	
EPA 200.7	Potassium	mg/L	27.0	6.16	20.0	104	70 - 130	X342086 - X3J0268-01	18-Oct-23	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.994	<0.080	1.00	99.4	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Aluminum	mg/L	0.860	<0.080	1.00	86.0	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Barium	mg/L	1.12	0.108	1.00	102	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Barium	mg/L	0.909	0.0281	1.00	88.1	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Beryllium	mg/L	0.940	<0.00200	1.00	94.0	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Beryllium	mg/L	0.822	<0.00200	1.00	82.2	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	99.5	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Boron	mg/L	0.937	<0.0400	1.00	90.6	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Cadmium	mg/L	0.983	<0.0020	1.00	98.3	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Cadmium	mg/L	0.913	<0.0020	1.00	91.3	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Calcium	mg/L	49.5	30.3	20.0	95.7	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Calcium	mg/L	148	141	20.0	0.30R>S	70 - 130	X342208 - X3J0290-03	25-Oct-23	M3
EPA 200.7	Chromium	mg/L	0.944	<0.0060	1.00	94.4	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Chromium	mg/L	0.894	<0.0060	1.00	89.4	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Cobalt	mg/L	0.963	<0.0060	1.00	96.3	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Cobalt	mg/L	0.877	<0.0060	1.00	87.7	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Copper	mg/L	0.928	<0.0100	1.00	92.8	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Copper	mg/L	0.868	<0.0100	1.00	86.8	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Iron	mg/L	9.79	<0.100	10.0	97.9	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Iron	mg/L	8.59	<0.100	10.0	85.9	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Lead	mg/L	0.970	<0.0075	1.00	97.0	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Lead	mg/L	0.886	<0.0075	1.00	88.6	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Lithium	mg/L	0.911	<0.040	1.00	91.1	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Lithium	mg/L	0.778	<0.040	1.00	77.8	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Magnesium	mg/L	31.4	12.4	20.0	94.7	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Magnesium	mg/L	32.2	16.4	20.0	78.7	70 - 130	X342208 - X3J0290-03	25-Oct-23	

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Work Order: **X3J0239**
Reported: 25-Oct-23 15:49

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	1.02	0.0667	1.00	94.8	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Manganese	mg/L	0.833	<0.0080	1.00	82.8	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.977	<0.0080	1.00	97.1	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.895	<0.0080	1.00	89.0	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Nickel	mg/L	0.960	<0.0100	1.00	96.0	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Nickel	mg/L	0.880	<0.0100	1.00	88.0	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Potassium	mg/L	20.4	1.22	20.0	96.0	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Potassium	mg/L	19.5	2.48	20.0	85.3	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Silver	mg/L	0.0531	<0.0050	0.0500	106	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Silver	mg/L	0.0483	<0.0050	0.0500	96.7	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Sodium	mg/L	54.4	36.4	19.0	94.6	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Sodium	mg/L	41.9	27.5	19.0	76.1	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Vanadium	mg/L	0.965	<0.0050	1.00	96.5	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Vanadium	mg/L	0.915	<0.0050	1.00	91.1	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.7	Zinc	mg/L	0.982	<0.0100	1.00	98.2	70 - 130	X342208 - X3J0239-04	25-Oct-23	
EPA 200.7	Zinc	mg/L	0.907	<0.0100	1.00	90.7	70 - 130	X342208 - X3J0290-03	25-Oct-23	
EPA 200.8	Antimony	mg/L	0.0298	<0.00100	0.0250	119	70 - 130	X341240 - X3J0239-01	23-Oct-23	
EPA 200.8	Antimony	mg/L	0.0280	<0.00100	0.0250	112	70 - 130	X341240 - X3J0257-04	23-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0300	<0.00100	0.0250	119	70 - 130	X341240 - X3J0239-01	23-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0286	<0.00100	0.0250	115	70 - 130	X341240 - X3J0257-04	23-Oct-23	
EPA 200.8	Selenium	mg/L	0.0337	<0.00100	0.0250	133	70 - 130	X341240 - X3J0239-01	23-Oct-23	M1
EPA 200.8	Selenium	mg/L	0.0323	<0.00100	0.0250	129	70 - 130	X341240 - X3J0257-04	23-Oct-23	
EPA 200.8	Thallium	mg/L	0.0286	<0.000200	0.0250	115	70 - 130	X341240 - X3J0239-01	23-Oct-23	
EPA 200.8	Thallium	mg/L	0.0275	<0.000200	0.0250	110	70 - 130	X341240 - X3J0257-04	23-Oct-23	
EPA 200.8	Uranium	mg/L	0.0352	0.00277	0.0250	130	70 - 130	X341240 - X3J0239-01	23-Oct-23	
EPA 200.8	Uranium	mg/L	0.0298	<0.000100	0.0250	119	70 - 130	X341240 - X3J0257-04	23-Oct-23	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00259	<0.000200	0.00200	130	70 - 130	X341221 - X3J0242-02	16-Oct-23	
EPA 245.1	Mercury	mg/L	0.00209	<0.000200	0.00200	105	70 - 130	X341221 - X3J0242-13	16-Oct-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	<0.0050	0.100	97.0	79 - 121	X342148 - X3J0198-01	18-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X342082 - X3J0118-01	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.08	<0.030	1.00	108	90 - 110	X342123 - X3J0239-01	19-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	107	90 - 110	X342123 - X3J0239-02	19-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	0.114	<0.0050	0.100	113	82 - 118	X342247 - X3J0184-01	23-Oct-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.20	0.23	3.00	98.9	90 - 110	X341171 - X3J0242-02	12-Oct-23	
EPA 300.0	Chloride	mg/L	3.40	0.39	3.00	100	90 - 110	X341171 - X3J0242-13	13-Oct-23	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	99.9	90 - 110	X341171 - X3J0242-02	12-Oct-23	
EPA 300.0	Fluoride	mg/L	2.07	<0.100	2.00	100	90 - 110	X341171 - X3J0242-13	13-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X341171 - X3J0242-02	12-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.00	<0.050	2.00	99.9	90 - 110	X341171 - X3J0242-13	13-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.06	<0.100	4.00	101	90 - 110	X341171 - X3J0242-02	12-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	<0.100	4.00	101	90 - 110	X341171 - X3J0242-13	13-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	102	90 - 110	X341171 - X3J0242-02	12-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	102	90 - 110	X341171 - X3J0242-13	13-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	11.1	0.71	10.0	104	90 - 110	X341171 - X3J0242-02	12-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	22.5	12.1	10.0	104	90 - 110	X341171 - X3J0242-13	13-Oct-23	

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Work Order: **X3J0239**
Reported: 25-Oct-23 15:49

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	65.1	65.2	20.0	0.2	20	102	X342086 - X3J0239-01	
EPA 200.7	Magnesium	mg/L	26.7	26.8	20.0	0.2	20	99.1	X342086 - X3J0239-01	
EPA 200.7	Potassium	mg/L	21.7	21.8	20.0	0.8	20	102	X342086 - X3J0239-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.981	0.994	1.00	1.3	20	98.1	X342208 - X3J0239-04	
EPA 200.7	Barium	mg/L	1.10	1.12	1.00	2.3	20	99.0	X342208 - X3J0239-04	
EPA 200.7	Beryllium	mg/L	0.940	0.940	1.00	0.0	20	94.0	X342208 - X3J0239-04	
EPA 200.7	Boron	mg/L	1.00	1.02	1.00	2.1	20	97.4	X342208 - X3J0239-04	
EPA 200.7	Cadmium	mg/L	0.984	0.983	1.00	0.1	20	98.4	X342208 - X3J0239-04	
EPA 200.7	Calcium	mg/L	48.9	49.5	20.0	1.2	20	92.9	X342208 - X3J0239-04	
EPA 200.7	Chromium	mg/L	0.968	0.944	1.00	2.6	20	96.8	X342208 - X3J0239-04	
EPA 200.7	Cobalt	mg/L	0.965	0.963	1.00	0.2	20	96.5	X342208 - X3J0239-04	
EPA 200.7	Copper	mg/L	0.953	0.928	1.00	2.7	20	95.3	X342208 - X3J0239-04	
EPA 200.7	Iron	mg/L	9.71	9.79	10.0	0.9	20	97.1	X342208 - X3J0239-04	
EPA 200.7	Lead	mg/L	0.970	0.970	1.00	0.0	20	97.0	X342208 - X3J0239-04	
EPA 200.7	Lithium	mg/L	0.905	0.911	1.00	0.6	20	90.5	X342208 - X3J0239-04	
EPA 200.7	Magnesium	mg/L	30.7	31.4	20.0	2.1	20	91.4	X342208 - X3J0239-04	
EPA 200.7	Manganese	mg/L	1.01	1.02	1.00	0.8	20	94.1	X342208 - X3J0239-04	
EPA 200.7	Molybdenum	mg/L	0.981	0.977	1.00	0.4	20	97.4	X342208 - X3J0239-04	
EPA 200.7	Nickel	mg/L	0.961	0.960	1.00	0.1	20	96.1	X342208 - X3J0239-04	
EPA 200.7	Potassium	mg/L	20.2	20.4	20.0	1.0	20	94.9	X342208 - X3J0239-04	
EPA 200.7	Silver	mg/L	0.0521	0.0531	0.0500	1.9	20	104	X342208 - X3J0239-04	
EPA 200.7	Sodium	mg/L	53.3	54.4	19.0	2.0	20	88.9	X342208 - X3J0239-04	
EPA 200.7	Vanadium	mg/L	0.978	0.965	1.00	1.4	20	97.8	X342208 - X3J0239-04	
EPA 200.7	Zinc	mg/L	0.984	0.982	1.00	0.1	20	98.4	X342208 - X3J0239-04	
EPA 200.8	Antimony	mg/L	0.0292	0.0298	0.0250	2.1	20	117	X341240 - X3J0239-01	
EPA 200.8	Arsenic	mg/L	0.0304	0.0300	0.0250	1.2	20	121	X341240 - X3J0239-01	
EPA 200.8	Selenium	mg/L	0.0333	0.0337	0.0250	1.2	20	131	X341240 - X3J0239-01	M1
EPA 200.8	Thallium	mg/L	0.0291	0.0286	0.0250	1.7	20	117	X341240 - X3J0239-01	
EPA 200.8	Uranium	mg/L	0.0358	0.0352	0.0250	1.6	20	132	X341240 - X3J0239-01	M1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00209	0.00259	0.00200	21.4	20	104	X341221 - X3J0242-02	R4
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0930	0.0970	0.100	4.2	11	93.0	X342148 - X3J0198-01	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.102	0.100	1.0	20	103	X342082 - X3J0118-01	
EPA 350.1	Ammonia as N	mg/L	1.06	1.08	1.00	2.2	20	106	X342123 - X3J0239-01	
OIA 1677	Cyanide (WAD)	mg/L	0.115	0.114	0.100	0.9	11	114	X342247 - X3J0184-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.22	3.20	3.00	0.7	20	99.7	X341171 - X3J0242-02	
EPA 300.0	Fluoride	mg/L	2.02	2.02	2.00	0.4	20	100	X341171 - X3J0242-02	
EPA 300.0	Nitrate as N	mg/L	2.04	2.03	2.00	0.6	20	102	X341171 - X3J0242-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.10	4.06	4.00	1.0	20	102	X341171 - X3J0242-02	
EPA 300.0	Nitrite as N	mg/L	2.06	2.03	2.00	1.4	20	103	X341171 - X3J0242-02	
EPA 300.0	Sulfate as SO4	mg/L	11.2	11.1	10.0	0.7	20	105	X341171 - X3J0242-02	

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Work Order: **X3J0239**
Reported: 25-Oct-23 15:49

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3J0478**
Reported: 17-Nov-23 08:15

Client Sample ID: **ESPMW-1**
SVL Sample ID: **X3J0478-02 (Ground Water)**

Sampled: 26-Oct-23 12:52
Received: 27-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Classical Chemistry Parameters										
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X344039	DD	11/15/23 14:07	H1

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3J0478**
Reported: 17-Nov-23 08:15

Client Sample ID: **CRMW-3A**
SVL Sample ID: **X3J0478-03 (Ground Water)**

Sampled: 26-Oct-23 10:47
Received: 27-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	330	mg/L	0.100	0.069		X344207	JRR	11/10/23 06:18	
EPA 200.7	**Magnesium**	96.2	mg/L	0.500	0.090		X344207	JRR	11/10/23 06:18	
EPA 200.7	**Potassium**	10.8	mg/L	0.50	0.18		X344207	JRR	11/10/23 06:18	
SM 2340 B	**Hardness (as CaCO3)**	1220	mg/L	2.31	0.543		N/A		11/14/23 10:13	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X345294	JRR	11/14/23 10:13	
EPA 200.7	**Barium**	0.0369	mg/L	0.0020	0.0019		X345294	JRR	11/14/23 10:13	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X345294	JRR	11/14/23 10:13	
EPA 200.7	**Boron**	0.0989	mg/L	0.0400	0.0078		X345294	JRR	11/14/23 10:13	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X345294	JRR	11/14/23 10:13	
EPA 200.7	**Calcium**	308	mg/L	0.100	0.069		X345294	JRR	11/14/23 10:13	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X345294	JRR	11/14/23 10:13	
EPA 200.7	**Cobalt**	0.0257	mg/L	0.0060	0.0046		X345294	JRR	11/14/23 10:13	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X345294	JRR	11/14/23 10:13	
EPA 200.7	**Iron**	1.28	mg/L	0.100	0.056		X345294	JRR	11/14/23 10:13	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X345294	JRR	11/14/23 10:13	
EPA 200.7	**Lithium**	0.143	mg/L	0.040	0.025		X345294	JRR	11/14/23 16:02	
EPA 200.7	**Magnesium**	90.3	mg/L	0.500	0.090		X345294	JRR	11/14/23 10:13	
EPA 200.7	**Manganese**	0.131	mg/L	0.0080	0.0034		X345294	JRR	11/14/23 10:13	
EPA 200.7	**Molybdenum**	0.0510	mg/L	0.0080	0.0034		X345294	JRR	11/14/23 10:13	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X345294	JRR	11/14/23 10:13	
EPA 200.7	**Potassium**	9.24	mg/L	0.50	0.18		X345294	JRR	11/14/23 10:13	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X345294	JRR	11/14/23 10:13	
EPA 200.7	**Sodium**	98.0	mg/L	0.50	0.12		X345294	JRR	11/14/23 10:13	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X345294	JRR	11/14/23 10:13	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X345294	JRR	11/14/23 10:13	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X343279	SMU	11/09/23 19:22	
EPA 200.8	**Arsenic**	0.00159	mg/L	0.00100	0.00021		X343279	SMU	11/09/23 19:22	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X343279	SMU	11/09/23 19:22	
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X343279	SMU	11/09/23 20:01	D1
EPA 200.8	**Uranium**	0.00892	mg/L	0.00100	0.000520	10	X343279	SMU	11/09/23 20:01	D1
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X343249	MAC	10/30/23 12:08	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X344040	DD	10/31/23 08:23	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X344067	DD	11/01/23 13:43	
EPA 350.1	**Ammonia as N**	0.338	mg/L	0.030	0.013		X344146	HJL	11/02/23 16:56	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X344039	DD	11/15/23 14:08	H1
SM 2310 B	**Acidity to pH 8.3**	-123	mg/L as CaCO3	10.0			X345006	MWD	11/06/23 11:12	
SM 2320 B	**Total Alkalinity**	123	mg/L as CaCO3	1.0			X344062	MWD	10/31/23 17:57	
SM 2320 B	**Bicarbonate**	123	mg/L as CaCO3	1.0			X344062	MWD	10/31/23 17:57	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X344062	MWD	10/31/23 17:57	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X344062	MWD	10/31/23 17:57	
SM 2540 C	**Total Diss. Solids**	1600	mg/L	40			X344053	TJL	11/01/23 14:55	D2
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X344055	TJL	11/02/23 16:25	
SM 4500 H B	**pH @20.3°C**	7.0	pH Units				X344062	MWD	10/31/23 17:57	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3J0478**
Reported: 17-Nov-23 08:15

Client Sample ID: **CRMW-3A**
SVL Sample ID: **X3J0478-03 (Ground Water)**

Sampled: 26-Oct-23 10:47
Received: 27-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	241	mg/L	10.0	1.10	50	X343267	RS	10/27/23 17:07	D2
EPA 300.0	**Fluoride**	3.04	mg/L	0.100	0.017		X343267	RS	10/27/23 16:50	
EPA 300.0	**Nitrate as N**	3.33	mg/L	0.050	0.013		X343267	RS	10/27/23 16:50	
EPA 300.0	**Nitrate+Nitrite as N**	3.33	mg/L	0.100	0.044		X343267	RS	10/27/23 16:50	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X343267	RS	10/27/23 16:50	
EPA 300.0	**Sulfate as SO4**	831	mg/L	15.0	9.00	50	X343267	RS	10/27/23 17:07	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 27.4 meq/L Anion Sum: 27.0 meq/L C/A Balance: 0.82 % Calculated TDS: 1684 TDS/cTDS: 0.95

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3J0478**
Reported: 17-Nov-23 08:15

Client Sample ID: **WCMW-3**
SVL Sample ID: **X3J0478-04 (Ground Water)**

Sampled: 26-Oct-23 08:44
Received: 27-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	66.9	mg/L	0.100	0.069		X344207	JRR	11/10/23 06:22	
EPA 200.7	**Magnesium**	17.3	mg/L	0.500	0.090		X344207	JRR	11/10/23 06:22	
EPA 200.7	**Potassium**	1.68	mg/L	0.50	0.18		X344207	JRR	11/10/23 06:22	
SM 2340 B	**Hardness (as CaCO3)**	238	mg/L	2.31	0.543		N/A		11/14/23 10:17	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X345294	JRR	11/14/23 10:17	
EPA 200.7	**Barium**	0.0653	mg/L	0.0020	0.0019		X345294	JRR	11/14/23 10:17	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X345294	JRR	11/14/23 10:17	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X345294	JRR	11/14/23 10:17	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X345294	JRR	11/14/23 10:17	
EPA 200.7	**Calcium**	61.9	mg/L	0.100	0.069		X345294	JRR	11/14/23 10:17	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X345294	JRR	11/14/23 10:17	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X345294	JRR	11/14/23 10:17	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X345294	JRR	11/14/23 10:17	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X345294	JRR	11/14/23 10:17	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X345294	JRR	11/14/23 10:17	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X345294	JRR	11/14/23 16:05	
EPA 200.7	**Magnesium**	15.6	mg/L	0.500	0.090		X345294	JRR	11/14/23 10:17	
EPA 200.7	**Manganese**	0.0335	mg/L	0.0080	0.0034		X345294	JRR	11/14/23 10:17	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X345294	JRR	11/14/23 10:17	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X345294	JRR	11/14/23 10:17	
EPA 200.7	**Potassium**	1.56	mg/L	0.50	0.18		X345294	JRR	11/14/23 10:17	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X345294	JRR	11/14/23 10:17	
EPA 200.7	**Sodium**	10.0	mg/L	0.50	0.12		X345294	JRR	11/14/23 10:17	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X345294	JRR	11/14/23 10:17	
EPA 200.7	**Zinc**	0.0242	mg/L	0.0100	0.0054		X345294	JRR	11/14/23 10:17	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X343279	SMU	11/09/23 19:25	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X343279	SMU	11/09/23 19:25	
EPA 200.8	**Selenium**	0.00487	mg/L	0.00100	0.00024		X343279	SMU	11/09/23 19:25	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X343279	SMU	11/09/23 19:25	
EPA 200.8	**Uranium**	0.00628	mg/L	0.000100	0.000052		X343279	SMU	11/09/23 19:25	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X343249	MAC	10/30/23 12:10	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X344040	DD	10/31/23 08:25	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X344067	DD	11/01/23 13:46	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X344146	HJL	11/02/23 17:07	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X344039	DD	11/15/23 14:10	H1
SM 2310 B	**Acidity to pH 8.3**	-217	mg/L as CaCO3	10.0			X345006	MWD	11/06/23 11:12	
SM 2320 B	**Total Alkalinity**	216	mg/L as CaCO3	1.0			X344062	MWD	10/31/23 18:03	
SM 2320 B	**Bicarbonate**	216	mg/L as CaCO3	1.0			X344062	MWD	10/31/23 18:03	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X344062	MWD	10/31/23 18:03	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X344062	MWD	10/31/23 18:03	
SM 2540 C	**Total Diss. Solids**	305	mg/L	10			X344053	TJL	11/01/23 14:55	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X344055	TJL	11/02/23 16:25	
SM 4500 H B	**pH @20.6°C**	7.9	pH Units				X344062	MWD	10/31/23 18:03	H5

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Work Order: **X3J0478**
Reported: 17-Nov-23 08:15

Client Sample ID: **WCMW-3**
SVL Sample ID: **X3J0478-04 (Ground Water)**

Sampled: 26-Oct-23 08:44
Received: 27-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.10	mg/L	0.20	0.02		X343267	RS	10/27/23 17:24	
EPA 300.0	**Fluoride**	0.750	mg/L	0.100	0.017		X343267	RS	10/27/23 17:24	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X343267	RS	10/27/23 17:24	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X343267	RS	10/27/23 17:24	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X343267	RS	10/27/23 17:24	
EPA 300.0	**Sulfate as SO4**	25.8	mg/L	0.30	0.18		X343267	RS	10/27/23 17:24	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.86 meq/L Anion Sum: 4.93 meq/L C/A Balance: -0.65 % Calculated TDS: 250 TDS/cTDS: 1.22

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3J0478**
Reported: 17-Nov-23 08:15

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X344207	10-Nov-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X344207	10-Nov-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X344207	10-Nov-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X345294	14-Nov-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X345294	14-Nov-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X345294	14-Nov-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X345294	14-Nov-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X345294	14-Nov-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X345294	14-Nov-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X345294	14-Nov-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X345294	14-Nov-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X345294	14-Nov-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X345294	14-Nov-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X345294	14-Nov-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X345294	14-Nov-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X345294	14-Nov-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X345294	14-Nov-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X345294	14-Nov-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X345294	14-Nov-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X345294	14-Nov-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X345294	14-Nov-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X345294	14-Nov-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X345294	14-Nov-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X345294	14-Nov-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X343279	09-Nov-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X343279	09-Nov-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X343279	09-Nov-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X343279	09-Nov-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X343279	09-Nov-23	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X343249	30-Oct-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X344040	31-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X344067	01-Nov-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X344146	02-Nov-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X344039	15-Nov-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X345006	06-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X344062	31-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X344062	31-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X344062	31-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X344062	31-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X344053	01-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X344055	02-Nov-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X343267	27-Oct-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X343267	27-Oct-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X343267	27-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X343267	27-Oct-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X343267	27-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X343267	27-Oct-23	

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Work Order: **X3J0478**
Reported: 17-Nov-23 08:15

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	21.5	20.0	108	85 - 115	X344207	10-Nov-23	
EPA 200.7	Magnesium	mg/L	21.6	20.0	108	85 - 115	X344207	10-Nov-23	
EPA 200.7	Potassium	mg/L	21.6	20.0	108	85 - 115	X344207	10-Nov-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.08	1.00	108	85 - 115	X345294	14-Nov-23	
EPA 200.7	Barium	mg/L	1.07	1.00	107	85 - 115	X345294	14-Nov-23	
EPA 200.7	Beryllium	mg/L	0.951	1.00	95.1	85 - 115	X345294	14-Nov-23	
EPA 200.7	Boron	mg/L	1.03	1.00	103	85 - 115	X345294	14-Nov-23	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X345294	14-Nov-23	
EPA 200.7	Calcium	mg/L	20.3	20.0	101	85 - 115	X345294	14-Nov-23	
EPA 200.7	Chromium	mg/L	1.02	1.00	102	85 - 115	X345294	14-Nov-23	
EPA 200.7	Cobalt	mg/L	0.996	1.00	99.6	85 - 115	X345294	14-Nov-23	
EPA 200.7	Copper	mg/L	1.01	1.00	101	85 - 115	X345294	14-Nov-23	
EPA 200.7	Iron	mg/L	9.94	10.0	99.4	85 - 115	X345294	14-Nov-23	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X345294	14-Nov-23	
EPA 200.7	Lithium	mg/L	1.07	1.00	107	85 - 115	X345294	14-Nov-23	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X345294	14-Nov-23	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X345294	14-Nov-23	
EPA 200.7	Molybdenum	mg/L	1.01	1.00	101	85 - 115	X345294	14-Nov-23	
EPA 200.7	Nickel	mg/L	1.00	1.00	100	85 - 115	X345294	14-Nov-23	
EPA 200.7	Potassium	mg/L	19.5	20.0	97.6	85 - 115	X345294	14-Nov-23	
EPA 200.7	Silver	mg/L	0.0427	0.0500	85.3	85 - 115	X345294	14-Nov-23	
EPA 200.7	Sodium	mg/L	18.6	19.0	98.0	85 - 115	X345294	14-Nov-23	
EPA 200.7	Vanadium	mg/L	0.997	1.00	99.7	85 - 115	X345294	14-Nov-23	
EPA 200.7	Zinc	mg/L	0.962	1.00	96.2	85 - 115	X345294	14-Nov-23	
EPA 200.8	Antimony	mg/L	0.0240	0.0250	96.1	85 - 115	X343279	09-Nov-23	
EPA 200.8	Arsenic	mg/L	0.0243	0.0250	97.4	85 - 115	X343279	09-Nov-23	
EPA 200.8	Selenium	mg/L	0.0254	0.0250	102	85 - 115	X343279	09-Nov-23	
EPA 200.8	Thallium	mg/L	0.0240	0.0250	95.8	85 - 115	X343279	09-Nov-23	
EPA 200.8	Uranium	mg/L	0.0220	0.0250	87.8	85 - 115	X343279	09-Nov-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00197	0.00200	98.5	85 - 115	X343249	30-Oct-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.100	98.0	90 - 110	X344040	31-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.0958	0.100	95.8	90 - 110	X344067	01-Nov-23	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X344146	02-Nov-23	
OIA 1677	Cyanide (WAD)	mg/L	0.109	0.100	109	90 - 110	X344039	15-Nov-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	98.6	95.4 - 104	X345006	06-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.4	9.93	105	96.4 - 105	X344062	31-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	103	96.4 - 105	X344062	31-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	404	397	102	96.4 - 105	X344062	31-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X344055	02-Nov-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.8	90 - 110	X343267	27-Oct-23	
EPA 300.0	Fluoride	mg/L	2.00	2.00	99.8	90 - 110	X343267	27-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X343267	27-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.59	4.50	102	90 - 110	X343267	27-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X343267	27-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X343267	27-Oct-23	

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Work Order: **X3J0478**
Reported: 17-Nov-23 08:15

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X345006 - X3J0436-01	06-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	332	332	0.0	20	X344062 - X3J0438-01	31-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	332	332	0.0	20	X344062 - X3J0438-01	31-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X344062 - X3J0438-01	31-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X344062 - X3J0438-01	31-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	307	285	7.4	10	X344053 - X3J0502-03	01-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	342	341	0.3	10	X344053 - X3J0499-01	01-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X344055 - X3J0502-03	02-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X344055 - X3J0499-01	02-Nov-23	
SM 4500 H B	pH @20.3°C	pH Units	7.8	7.9	0.6	20	X344062 - X3J0438-01	31-Oct-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	520	508	20.0	0.30R>S	70 - 130	X344207 - X3J0438-03	10-Nov-23	D2,M4
EPA 200.7	Magnesium	mg/L	75.4	50.6	20.0	124	70 - 130	X344207 - X3J0438-03	10-Nov-23	
EPA 200.7	Potassium	mg/L	29.8	6.65	20.0	116	70 - 130	X344207 - X3J0438-03	10-Nov-23	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.09	<0.080	1.00	109	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Aluminum	mg/L	1.08	<0.080	1.00	108	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Barium	mg/L	1.08	0.0115	1.00	107	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Barium	mg/L	1.14	0.0565	1.00	108	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Beryllium	mg/L	0.910	<0.00200	1.00	91.0	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Beryllium	mg/L	0.916	<0.00200	1.00	91.6	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Boron	mg/L	1.10	0.0580	1.00	105	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	106	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Cadmium	mg/L	0.970	<0.0020	1.00	97.0	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Cadmium	mg/L	1.00	<0.0020	1.00	100	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Calcium	mg/L	341	318	20.0	115	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Calcium	mg/L	93.4	77.2	20.0	81.3	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Chromium	mg/L	1.02	<0.0060	1.00	102	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Cobalt	mg/L	0.958	<0.0060	1.00	95.8	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Cobalt	mg/L	0.971	<0.0060	1.00	97.1	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Copper	mg/L	0.990	<0.0100	1.00	99.0	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Copper	mg/L	1.02	<0.0100	1.00	102	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Iron	mg/L	10.1	0.117	10.0	99.9	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Iron	mg/L	9.96	<0.100	10.0	99.6	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Lead	mg/L	0.970	<0.0075	1.00	97.0	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Lithium	mg/L	1.18	<0.040	1.00	118	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Lithium	mg/L	1.10	<0.040	1.00	110	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Magnesium	mg/L	144	120	20.0	122	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Magnesium	mg/L	68.7	49.4	20.0	96.4	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Manganese	mg/L	1.03	0.0240	1.00	101	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Manganese	mg/L	1.02	<0.0080	1.00	102	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	101	70 - 130	X345294 - X3J0479-05	14-Nov-23	

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Work Order: **X3J0478**
Reported: 17-Nov-23 08:15

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Molybdenum	mg/L	1.03	<0.0080	1.00	103	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Nickel	mg/L	0.960	<0.0100	1.00	96.0	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Nickel	mg/L	0.975	<0.0100	1.00	97.5	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Potassium	mg/L	23.7	2.77	20.0	104	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Potassium	mg/L	20.8	1.07	20.0	98.4	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Silver	mg/L	0.0427	<0.0050	0.0500	85.4	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Silver	mg/L	0.0467	<0.0050	0.0500	93.5	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Sodium	mg/L	74.4	54.8	19.0	103	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Sodium	mg/L	22.0	3.37	19.0	98.1	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X345294 - X3J0479-05	14-Nov-23	
EPA 200.7	Zinc	mg/L	1.25	0.240	1.00	101	70 - 130	X345294 - X3J0551-04	14-Nov-23	
EPA 200.8	Antimony	mg/L	0.0287	<0.00100	0.0250	115	70 - 130	X343279 - X3J0436-01	09-Nov-23	
EPA 200.8	Antimony	mg/L	0.0304	<0.00100	0.0250	122	70 - 130	X343279 - X3J0478-04	09-Nov-23	
EPA 200.8	Arsenic	mg/L	0.0332	0.00153	0.0250	127	70 - 130	X343279 - X3J0436-01	09-Nov-23	
EPA 200.8	Arsenic	mg/L	0.0321	<0.00100	0.0250	127	70 - 130	X343279 - X3J0478-04	09-Nov-23	
EPA 200.8	Selenium	mg/L	0.0379	0.00453	0.0250	133	70 - 130	X343279 - X3J0436-01	09-Nov-23	M1
EPA 200.8	Selenium	mg/L	0.0357	0.00487	0.0250	123	70 - 130	X343279 - X3J0478-04	09-Nov-23	
EPA 200.8	Thallium	mg/L	0.0267	<0.000200	0.0250	107	70 - 130	X343279 - X3J0436-01	09-Nov-23	
EPA 200.8	Thallium	mg/L	0.0277	<0.000200	0.0250	111	70 - 130	X343279 - X3J0478-04	09-Nov-23	
EPA 200.8	Uranium	mg/L	0.0320	0.00188	0.0250	121	70 - 130	X343279 - X3J0436-01	09-Nov-23	
EPA 200.8	Uranium	mg/L	0.0363	0.00628	0.0250	120	70 - 130	X343279 - X3J0478-04	09-Nov-23	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	109	70 - 130	X343249 - X3J0413-01	30-Oct-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.104	<0.0050	0.100	104	79 - 121	X344040 - X3J0361-01	31-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X344067 - X3J0426-01	01-Nov-23	
EPA 350.1	Ammonia as N	mg/L	0.979	<0.030	1.00	96.3	90 - 110	X344146 - X3J0436-01	02-Nov-23	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X344146 - X3J0438-06	02-Nov-23	
OIA 1677	Cyanide (WAD)	mg/L	0.117	<0.0050	0.100	116	82 - 118	X344039 - X3J0438-01	15-Nov-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.13	1.10	3.00	101	90 - 110	X343267 - X3J0478-04	27-Oct-23	
EPA 300.0	Fluoride	mg/L	2.71	0.750	2.00	98.1	90 - 110	X343267 - X3J0478-04	27-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X343267 - X3J0478-04	27-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.11	<0.100	4.00	103	90 - 110	X343267 - X3J0478-04	27-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	104	90 - 110	X343267 - X3J0478-04	27-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	36.0	25.8	10.0	102	90 - 110	X343267 - X3J0478-04	27-Oct-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	523	520	20.0	0.7	20	75.9	X344207 - X3J0438-03	D2
EPA 200.7	Magnesium	mg/L	70.4	75.4	20.0	6.8	20	99.3	X344207 - X3J0438-03	
EPA 200.7	Potassium	mg/L	28.5	29.8	20.0	4.4	20	109	X344207 - X3J0438-03	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.10	1.09	1.00	0.6	20	110	X345294 - X3J0479-05	

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3J0478**
Reported: 17-Nov-23 08:15

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Barium	mg/L	1.10	1.08	1.00	1.8	20	109	X345294 - X3J0479-05	
EPA 200.7	Beryllium	mg/L	0.913	0.910	1.00	0.4	20	91.3	X345294 - X3J0479-05	
EPA 200.7	Boron	mg/L	1.11	1.10	1.00	0.5	20	105	X345294 - X3J0479-05	
EPA 200.7	Cadmium	mg/L	0.971	0.970	1.00	0.0	20	97.1	X345294 - X3J0479-05	
EPA 200.7	Calcium	mg/L	343	341	20.0	0.4	20	122	X345294 - X3J0479-05	
EPA 200.7	Chromium	mg/L	1.00	1.00	1.00	0.1	20	100	X345294 - X3J0479-05	
EPA 200.7	Cobalt	mg/L	0.955	0.958	1.00	0.4	20	95.5	X345294 - X3J0479-05	
EPA 200.7	Copper	mg/L	0.993	0.990	1.00	0.3	20	99.3	X345294 - X3J0479-05	
EPA 200.7	Iron	mg/L	10.2	10.1	10.0	1.0	20	101	X345294 - X3J0479-05	
EPA 200.7	Lead	mg/L	0.970	0.970	1.00	0.0	20	97.0	X345294 - X3J0479-05	
EPA 200.7	Lithium	mg/L	1.20	1.18	1.00	2.0	20	120	X345294 - X3J0479-05	
EPA 200.7	Magnesium	mg/L	146	144	20.0	1.0	20	129	X345294 - X3J0479-05	
EPA 200.7	Manganese	mg/L	1.03	1.03	1.00	0.2	20	101	X345294 - X3J0479-05	
EPA 200.7	Molybdenum	mg/L	1.00	1.01	1.00	0.5	20	100	X345294 - X3J0479-05	
EPA 200.7	Nickel	mg/L	0.959	0.960	1.00	0.0	20	95.9	X345294 - X3J0479-05	
EPA 200.7	Potassium	mg/L	23.9	23.7	20.0	0.8	20	105	X345294 - X3J0479-05	
EPA 200.7	Silver	mg/L	0.0438	0.0427	0.0500	2.5	20	87.5	X345294 - X3J0479-05	
EPA 200.7	Sodium	mg/L	74.9	74.4	19.0	0.6	20	105	X345294 - X3J0479-05	
EPA 200.7	Vanadium	mg/L	1.02	1.04	1.00	1.4	20	102	X345294 - X3J0479-05	
EPA 200.7	Zinc	mg/L	0.998	1.03	1.00	2.7	20	99.8	X345294 - X3J0479-05	
EPA 200.8	Antimony	mg/L	0.0290	0.0287	0.0250	0.9	20	116	X343279 - X3J0436-01	
EPA 200.8	Arsenic	mg/L	0.0331	0.0332	0.0250	0.3	20	126	X343279 - X3J0436-01	
EPA 200.8	Selenium	mg/L	0.0378	0.0379	0.0250	0.2	20	133	X343279 - X3J0436-01	M1
EPA 200.8	Thallium	mg/L	0.0270	0.0267	0.0250	0.9	20	108	X343279 - X3J0436-01	
EPA 200.8	Uranium	mg/L	0.0327	0.0320	0.0250	2.0	20	123	X343279 - X3J0436-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00202	0.00217	0.00200	7.3	20	101	X343249 - X3J0413-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	0.104	0.100	1.0	11	105	X344040 - X3J0361-01	
EPA 335.4	Cyanide (total)	mg/L	0.0964	0.102	0.100	5.9	20	96.4	X344067 - X3J0426-01	
EPA 350.1	Ammonia as N	mg/L	1.01	0.979	1.00	2.8	20	99.1	X344146 - X3J0436-01	
OIA 1677	Cyanide (WAD)	mg/L	0.116	0.117	0.100	0.9	11	115	X344039 - X3J0438-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.10	4.13	3.00	0.9	20	99.8	X343267 - X3J0478-04	
EPA 300.0	Fluoride	mg/L	2.68	2.71	2.00	1.1	20	96.7	X343267 - X3J0478-04	
EPA 300.0	Nitrate as N	mg/L	1.99	2.02	2.00	1.4	20	99.7	X343267 - X3J0478-04	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.05	4.11	4.00	1.6	20	101	X343267 - X3J0478-04	
EPA 300.0	Nitrite as N	mg/L	2.05	2.09	2.00	1.7	20	103	X343267 - X3J0478-04	
EPA 300.0	Sulfate as SO4	mg/L	35.9	36.0	10.0	0.2	20	101	X343267 - X3J0478-04	

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Work Order: **X3J0478**
Reported: 17-Nov-23 08:15

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Work Order: **X3K0058**
Reported: 20-Nov-23 09:33

Client Sample ID: **VIN-2A**
SVL Sample ID: **X3K0058-01 (Ground Water)**

Sampled: 02-Nov-23 11:39
Received: 03-Nov-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	204	mg/L	0.100	0.069		X346091	NMS	11/16/23 15:41	
EPA 200.7	**Magnesium**	52.5	mg/L	0.500	0.090		X346091	NMS	11/16/23 15:41	
EPA 200.7	**Potassium**	1.79	mg/L	0.50	0.18		X346091	NMS	11/16/23 15:41	
SM 2340 B	**Hardness (as CaCO3)**	724	mg/L	2.31	0.543		N/A		11/17/23 12:22	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X346007	SMU	11/17/23 12:22	
EPA 200.7	**Barium**	0.0074	mg/L	0.0020	0.0019		X346007	SMU	11/17/23 12:22	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X346007	SMU	11/17/23 12:22	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X346007	SMU	11/17/23 12:22	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X346007	SMU	11/17/23 12:22	
EPA 200.7	**Calcium**	196	mg/L	0.100	0.069		X346007	SMU	11/17/23 12:22	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X346007	SMU	11/17/23 12:22	
EPA 200.7	**Cobalt**	0.0098	mg/L	0.0060	0.0046		X346007	SMU	11/17/23 12:22	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X346007	SMU	11/17/23 12:22	
EPA 200.7	**Iron**	0.103	mg/L	0.100	0.056		X346007	SMU	11/17/23 12:22	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X346007	SMU	11/17/23 12:22	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X346007	SMU	11/17/23 12:22	
EPA 200.7	**Magnesium**	48.6	mg/L	0.500	0.090		X346007	SMU	11/17/23 12:22	
EPA 200.7	**Manganese**	0.261	mg/L	0.0080	0.0034		X346007	SMU	11/17/23 12:22	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X346007	SMU	11/17/23 12:22	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X346007	SMU	11/17/23 12:22	
EPA 200.7	**Potassium**	1.47	mg/L	0.50	0.18		X346007	SMU	11/17/23 12:22	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X346007	SMU	11/17/23 12:22	
EPA 200.7	**Sodium**	21.4	mg/L	0.50	0.12		X346007	SMU	11/17/23 12:22	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X346007	SMU	11/17/23 12:22	
EPA 200.7	**Zinc**	1.02	mg/L	0.0100	0.0054		X346007	SMU	11/17/23 12:22	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X345039	SMU	11/13/23 19:41	
EPA 200.8	**Arsenic**	0.00112	mg/L	0.00100	0.00021		X345039	SMU	11/13/23 19:41	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X345039	SMU	11/13/23 19:41	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X345039	SMU	11/13/23 19:41	
EPA 200.8	**Uranium**	0.00313	mg/L	0.000100	0.000052		X345039	SMU	11/13/23 19:41	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X344235	MAC	11/06/23 12:53	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X345130	DD	11/09/23 13:57	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X345048	DD	11/08/23 12:48	
EPA 350.1	**Ammonia as N**	0.109	mg/L	0.030	0.013		X345124	JRR	11/09/23 14:26	B1
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X346036	DD	11/15/23 14:34	
SM 2310 B	**Acidity to pH 8.3**	-94.5	mg/L as CaCO3	10.0			X345262	MWD	11/13/23 10:16	
SM 2320 B	**Total Alkalinity**	101	mg/L as CaCO3	1.0			X345101	MWD	11/07/23 17:55	
SM 2320 B	**Bicarbonate**	101	mg/L as CaCO3	1.0			X345101	MWD	11/07/23 17:55	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X345101	MWD	11/07/23 17:55	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X345101	MWD	11/07/23 17:55	
SM 2540 C	**Total Diss. Solids**	1020	mg/L	10			X344247	TJL	11/07/23 14:30	R2B
SM 2540 D	**Total Susp. Solids**	13.0	mg/L	5.0			X344248	TJL	11/07/23 16:00	R2B
SM 4500 H B	**pH @19.7°C**	7.7	pH Units				X345101	MWD	11/07/23 17:55	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3K0058**
Reported: 20-Nov-23 09:33

Client Sample ID: **VIN-2A**
SVL Sample ID: **X3K0058-01 (Ground Water)**

Sampled: 02-Nov-23 11:39
Received: 03-Nov-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	7.13	mg/L	0.20	0.02		X344239	RS	11/03/23 13:17	
EPA 300.0	**Fluoride**	0.201	mg/L	0.100	0.017		X344239	RS	11/03/23 13:17	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X344239	RS	11/03/23 13:17	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X344239	RS	11/03/23 13:17	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X344239	RS	11/03/23 13:17	
EPA 300.0	**Sulfate as SO4**	676	mg/L	15.0	9.00	50	X344239	RS	11/03/23 13:34	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 14.8 meq/L Anion Sum: 16.3 meq/L C/A Balance: -4.81 % Calculated TDS: 1018 TDS/cTDS: 1.00

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3K0058**
Reported: 20-Nov-23 09:33

Client Sample ID: **VIN-2B**
SVL Sample ID: **X3K0058-02 (Ground Water)**

Sampled: 02-Nov-23 12:17
Received: 03-Nov-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	209	mg/L	0.100	0.069		X346091	NMS	11/16/23 15:45	
EPA 200.7	**Magnesium**	51.1	mg/L	0.500	0.090		X346091	NMS	11/16/23 15:45	
EPA 200.7	**Potassium**	2.31	mg/L	0.50	0.18		X346091	NMS	11/16/23 15:45	
SM 2340 B	**Hardness (as CaCO3)**	733	mg/L	2.31	0.543		N/A		11/17/23 12:26	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X346007	SMU	11/17/23 12:26	
EPA 200.7	**Barium**	0.0061	mg/L	0.0020	0.0019		X346007	SMU	11/17/23 12:26	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X346007	SMU	11/17/23 12:26	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X346007	SMU	11/17/23 12:26	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X346007	SMU	11/17/23 12:26	
EPA 200.7	**Calcium**	187	mg/L	0.100	0.069		X346007	SMU	11/17/23 12:26	M3
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X346007	SMU	11/17/23 12:26	
EPA 200.7	**Cobalt**	0.0089	mg/L	0.0060	0.0046		X346007	SMU	11/17/23 12:26	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X346007	SMU	11/17/23 12:26	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X346007	SMU	11/17/23 12:26	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X346007	SMU	11/17/23 12:26	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X346007	SMU	11/17/23 12:26	
EPA 200.7	**Magnesium**	51.7	mg/L	0.500	0.090		X346007	SMU	11/17/23 12:26	
EPA 200.7	**Manganese**	2.02	mg/L	0.0080	0.0034		X346007	SMU	11/17/23 12:26	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X346007	SMU	11/17/23 12:26	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X346007	SMU	11/17/23 12:26	
EPA 200.7	**Potassium**	1.98	mg/L	0.50	0.18		X346007	SMU	11/17/23 12:26	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X346007	SMU	11/17/23 12:26	
EPA 200.7	**Sodium**	31.2	mg/L	0.50	0.12		X346007	SMU	11/17/23 12:26	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X346007	SMU	11/17/23 12:26	
EPA 200.7	**Zinc**	0.0179	mg/L	0.0100	0.0054		X346007	SMU	11/17/23 12:26	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X345039	SMU	11/13/23 19:43	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X345039	SMU	11/13/23 19:43	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X345039	SMU	11/13/23 19:43	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X345039	SMU	11/13/23 19:43	
EPA 200.8	**Uranium**	0.000245	mg/L	0.000100	0.000052		X345039	SMU	11/13/23 19:43	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X344235	MAC	11/06/23 12:55	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X345130	DD	11/09/23 13:59	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X345048	DD	11/08/23 12:51	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X345124	JRR	11/09/23 14:40	B1
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X346036	DD	11/15/23 14:35	
SM 2310 B	**Acidity to pH 8.3**	-66.4	mg/L as CaCO3	10.0			X345262	MWD	11/13/23 10:16	
SM 2320 B	**Total Alkalinity**	68.2	mg/L as CaCO3	1.0			X345101	MWD	11/07/23 18:01	
SM 2320 B	**Bicarbonate**	68.2	mg/L as CaCO3	1.0			X345101	MWD	11/07/23 18:01	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X345101	MWD	11/07/23 18:01	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X345101	MWD	11/07/23 18:01	
SM 2540 C	**Total Diss. Solids**	1100	mg/L	10			X344247	TJL	11/07/23 14:30	
SM 2540 D	**Total Susp. Solids**	11.0	mg/L	5.0			X344248	TJL	11/07/23 16:00	
SM 4500 H B	**pH @19.6°C**	7.4	pH Units				X345101	MWD	11/07/23 18:01	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3K0058**
Reported: 20-Nov-23 09:33

Client Sample ID: **VIN-2B**
SVL Sample ID: **X3K0058-02 (Ground Water)**

Sampled: 02-Nov-23 12:17
Received: 03-Nov-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	10.8	mg/L	0.20	0.02		X344239	RS	11/03/23 13:50	
EPA 300.0	**Fluoride**	0.141	mg/L	0.100	0.017		X344239	RS	11/03/23 13:50	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X344239	RS	11/03/23 13:50	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X344239	RS	11/03/23 13:50	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X344239	RS	11/03/23 13:50	
EPA 300.0	**Sulfate as SO4**	725	mg/L	15.0	9.00	50	X344239	RS	11/03/23 14:07	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 15.0 meq/L Anion Sum: 16.8 meq/L C/A Balance: -5.47 % Calculated TDS: 1060 TDS/cTDS: 1.04

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Victor, CO 80860

Work Order: **X3K0058**
Reported: 20-Nov-23 09:33

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X346091	16-Nov-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X346091	16-Nov-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X346091	16-Nov-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X346007	17-Nov-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X346007	17-Nov-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X346007	17-Nov-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X346007	17-Nov-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X346007	17-Nov-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X346007	17-Nov-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X346007	17-Nov-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X346007	17-Nov-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X346007	17-Nov-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X346007	17-Nov-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X346007	17-Nov-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X346007	17-Nov-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X346007	17-Nov-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X346007	17-Nov-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X346007	17-Nov-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X346007	17-Nov-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X346007	17-Nov-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X346007	17-Nov-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X346007	17-Nov-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X346007	17-Nov-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X346007	17-Nov-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X345039	13-Nov-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X345039	13-Nov-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X345039	13-Nov-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X345039	13-Nov-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X345039	13-Nov-23	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X344235	06-Nov-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X345130	09-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X345048	08-Nov-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X345124	10-Nov-23	B1
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X346036	15-Nov-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X345262	13-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X345101	07-Nov-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X345101	07-Nov-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X345101	07-Nov-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X345101	07-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X344247	07-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X344248	07-Nov-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X344239	03-Nov-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X344239	03-Nov-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X344239	03-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X344239	03-Nov-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X344239	03-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X344239	03-Nov-23	

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Work Order: **X3K0058**
Reported: 20-Nov-23 09:33

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.5	20.0	97.4	85 - 115	X346091	16-Nov-23	
EPA 200.7	Magnesium	mg/L	18.7	20.0	93.7	85 - 115	X346091	16-Nov-23	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.5	85 - 115	X346091	16-Nov-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.956	1.00	95.6	85 - 115	X346007	17-Nov-23	
EPA 200.7	Barium	mg/L	0.973	1.00	97.3	85 - 115	X346007	17-Nov-23	
EPA 200.7	Beryllium	mg/L	0.913	1.00	91.3	85 - 115	X346007	17-Nov-23	
EPA 200.7	Boron	mg/L	0.948	1.00	94.8	85 - 115	X346007	17-Nov-23	
EPA 200.7	Cadmium	mg/L	0.949	1.00	94.9	85 - 115	X346007	17-Nov-23	
EPA 200.7	Calcium	mg/L	19.1	20.0	95.6	85 - 115	X346007	17-Nov-23	
EPA 200.7	Chromium	mg/L	0.964	1.00	96.4	85 - 115	X346007	17-Nov-23	
EPA 200.7	Cobalt	mg/L	0.924	1.00	92.4	85 - 115	X346007	17-Nov-23	
EPA 200.7	Copper	mg/L	0.920	1.00	92.0	85 - 115	X346007	17-Nov-23	
EPA 200.7	Iron	mg/L	10.3	10.0	103	85 - 115	X346007	17-Nov-23	
EPA 200.7	Lead	mg/L	0.934	1.00	93.4	85 - 115	X346007	17-Nov-23	
EPA 200.7	Lithium	mg/L	0.940	1.00	94.0	85 - 115	X346007	17-Nov-23	
EPA 200.7	Magnesium	mg/L	19.8	20.0	98.8	85 - 115	X346007	17-Nov-23	
EPA 200.7	Manganese	mg/L	0.954	1.00	95.4	85 - 115	X346007	17-Nov-23	
EPA 200.7	Molybdenum	mg/L	0.929	1.00	92.9	85 - 115	X346007	17-Nov-23	
EPA 200.7	Nickel	mg/L	0.919	1.00	91.9	85 - 115	X346007	17-Nov-23	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.4	85 - 115	X346007	17-Nov-23	
EPA 200.7	Silver	mg/L	0.0480	0.0500	96.0	85 - 115	X346007	17-Nov-23	
EPA 200.7	Sodium	mg/L	18.0	19.0	94.5	85 - 115	X346007	17-Nov-23	
EPA 200.7	Vanadium	mg/L	0.961	1.00	96.1	85 - 115	X346007	17-Nov-23	
EPA 200.7	Zinc	mg/L	0.962	1.00	96.2	85 - 115	X346007	17-Nov-23	
EPA 200.8	Antimony	mg/L	0.0254	0.0250	101	85 - 115	X345039	13-Nov-23	
EPA 200.8	Arsenic	mg/L	0.0245	0.0250	97.9	85 - 115	X345039	13-Nov-23	
EPA 200.8	Selenium	mg/L	0.0240	0.0250	96.1	85 - 115	X345039	13-Nov-23	
EPA 200.8	Thallium	mg/L	0.0264	0.0250	105	85 - 115	X345039	13-Nov-23	
EPA 200.8	Uranium	mg/L	0.0285	0.0250	114	85 - 115	X345039	13-Nov-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00190	0.00200	95.0	85 - 115	X344235	06-Nov-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0940	0.100	94.0	90 - 110	X345130	09-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	0.995	1.00	99.5	90 - 110	X345048	08-Nov-23	
EPA 350.1	Ammonia as N	mg/L	0.958	1.00	95.8	90 - 110	X345124	09-Nov-23	B1
OIA 1677	Cyanide (WAD)	mg/L	0.108	0.100	108	90 - 110	X346036	15-Nov-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	98.6	95.4 - 104	X345262	13-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	102	96.4 - 105	X345101	07-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	399	397	101	96.4 - 105	X345101	07-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X344248	07-Nov-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.00	3.00	99.9	90 - 110	X344239	03-Nov-23	
EPA 300.0	Fluoride	mg/L	2.01	2.00	101	90 - 110	X344239	03-Nov-23	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	101	90 - 110	X344239	03-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.57	4.50	102	90 - 110	X344239	03-Nov-23	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X344239	03-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X344239	03-Nov-23	

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Work Order: **X3K0058**
Reported: 20-Nov-23 09:33

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X345262 - X3K0045-02	13-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	67.9	68.2	0.4	20	X345101 - X3K0058-02	07-Nov-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	67.9	68.2	0.4	20	X345101 - X3K0058-02	07-Nov-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X345101 - X3K0058-02	07-Nov-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X345101 - X3K0058-02	07-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	176	170	3.5	10	X344247 - X3K0063-01	07-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	424	1020	82.7	10	X344247 - X3K0058-01	07-Nov-23	R2B
SM 2540 D	Total Susp. Solids	mg/L	10.0	13.0	26.1	10	X344248 - X3K0058-01	07-Nov-23	R2B
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X344248 - X3K0063-01	07-Nov-23	
SM 4500 H B	pH @19.6°C	pH Units	7.3	7.4	1.1	20	X345101 - X3K0058-02	07-Nov-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	116	93.7	20.0	110	70 - 130	X346091 - X3K0057-01	16-Nov-23	
EPA 200.7	Calcium	mg/L	60.3	39.0	20.0	106	70 - 130	X346091 - X3K0099-01	16-Nov-23	
EPA 200.7	Magnesium	mg/L	42.3	22.0	20.0	101	70 - 130	X346091 - X3K0057-01	16-Nov-23	
EPA 200.7	Magnesium	mg/L	39.5	18.1	20.0	107	70 - 130	X346091 - X3K0099-01	16-Nov-23	
EPA 200.7	Potassium	mg/L	26.5	5.96	20.0	103	70 - 130	X346091 - X3K0057-01	16-Nov-23	
EPA 200.7	Potassium	mg/L	22.2	2.09	20.0	101	70 - 130	X346091 - X3K0099-01	16-Nov-23	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.844	<0.080	1.00	84.4	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Barium	mg/L	1.08	0.0061	1.00	108	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Beryllium	mg/L	0.972	<0.00200	1.00	97.2	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Boron	mg/L	1.06	<0.0400	1.00	105	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Cadmium	mg/L	1.01	<0.0020	1.00	101	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Calcium	mg/L	216	187	20.0	0.30R>S	70 - 130	X346007 - X3K0058-02	17-Nov-23	M3
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Cobalt	mg/L	0.994	0.0089	1.00	98.5	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Copper	mg/L	1.04	<0.0100	1.00	104	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Iron	mg/L	11.2	<0.100	10.0	111	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Lead	mg/L	0.996	<0.0075	1.00	99.6	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Lithium	mg/L	1.06	<0.040	1.00	106	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Magnesium	mg/L	77.0	51.7	20.0	127	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Manganese	mg/L	3.06	2.02	1.00	104	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Nickel	mg/L	0.988	<0.0100	1.00	98.8	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Potassium	mg/L	23.2	1.98	20.0	106	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Silver	mg/L	0.0521	<0.0050	0.0500	104	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Sodium	mg/L	52.3	31.2	19.0	111	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.7	Zinc	mg/L	1.06	0.0179	1.00	104	70 - 130	X346007 - X3K0058-02	17-Nov-23	
EPA 200.8	Antimony	mg/L	0.0293	<0.00100	0.0250	117	70 - 130	X345039 - X3K0075-01	13-Nov-23	
EPA 200.8	Arsenic	mg/L	0.0341	0.00106	0.0250	132	70 - 130	X345039 - X3K0075-01	13-Nov-23	M1
EPA 200.8	Selenium	mg/L	0.0344	0.00100	0.0250	134	70 - 130	X345039 - X3K0075-01	13-Nov-23	M1
EPA 200.8	Thallium	mg/L	0.0282	<0.000200	0.0250	113	70 - 130	X345039 - X3K0075-01	13-Nov-23	
EPA 200.8	Uranium	mg/L	0.0458	0.0127	0.0250	132	70 - 130	X345039 - X3K0075-01	13-Nov-23	M1

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3K0058**
Reported: 20-Nov-23 09:33

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00203	<0.000200	0.00200	101	70 - 130	X344235 - X3K0007-01	06-Nov-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0810	<0.0050	0.100	81.0	79 - 121	X345130 - X3K0102-01	09-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	1.01	<0.0050	1.00	101	90 - 110	X345048 - X3K0058-01	08-Nov-23	
EPA 350.1	Ammonia as N	mg/L	0.967	<0.030	1.00	96.7	90 - 110	X345124 - X3J0521-01	09-Nov-23	B1
EPA 350.1	Ammonia as N	mg/L	0.938	<0.030	1.00	93.8	90 - 110	X345124 - X3J0521-02	09-Nov-23	B1
OIA 1677	Cyanide (WAD)	mg/L	0.109	<0.0050	0.100	108	82 - 118	X346036 - X3K0003-01	15-Nov-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	11.9	8.78	3.00	105	90 - 110	X344239 - X3K0063-02	03-Nov-23	
EPA 300.0	Chloride	mg/L	4.16	1.19	3.00	99.2	90 - 110	X344239 - X3K0063-04	03-Nov-23	
EPA 300.0	Fluoride	mg/L	2.00	<0.100	2.00	97.6	90 - 110	X344239 - X3K0063-02	03-Nov-23	
EPA 300.0	Fluoride	mg/L	2.00	<0.100	2.00	99.8	90 - 110	X344239 - X3K0063-04	03-Nov-23	
EPA 300.0	Nitrate as N	mg/L	4.61	2.58	2.00	101	90 - 110	X344239 - X3K0063-02	03-Nov-23	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	97.9	90 - 110	X344239 - X3K0063-04	03-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	6.61	2.58	4.00	101	90 - 110	X344239 - X3K0063-02	03-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	<0.100	4.00	101	90 - 110	X344239 - X3K0063-04	03-Nov-23	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X344239 - X3K0063-02	03-Nov-23	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X344239 - X3K0063-04	03-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	38.9	29.2	10.0	97.3	90 - 110	X344239 - X3K0063-02	03-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	12.0	1.71	10.0	103	90 - 110	X344239 - X3K0063-04	03-Nov-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	114	116	20.0	1.9	20	99.2	X346091 - X3K0057-01	
EPA 200.7	Magnesium	mg/L	42.5	42.3	20.0	0.5	20	103	X346091 - X3K0057-01	
EPA 200.7	Potassium	mg/L	26.3	26.5	20.0	1.0	20	102	X346091 - X3K0057-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.793	0.844	1.00	6.2	20	79.3	X346007 - X3K0058-02	
EPA 200.7	Barium	mg/L	0.965	1.08	1.00	11.5	20	95.9	X346007 - X3K0058-02	
EPA 200.7	Beryllium	mg/L	0.953	0.972	1.00	2.0	20	95.3	X346007 - X3K0058-02	
EPA 200.7	Boron	mg/L	0.997	1.06	1.00	6.5	20	98.8	X346007 - X3K0058-02	
EPA 200.7	Cadmium	mg/L	0.937	1.01	1.00	7.4	20	93.7	X346007 - X3K0058-02	
EPA 200.7	Calcium	mg/L	214	216	20.0	1.2	20	0.30R>S	X346007 - X3K0058-02	M3
EPA 200.7	Chromium	mg/L	0.962	1.04	1.00	7.4	20	96.2	X346007 - X3K0058-02	
EPA 200.7	Cobalt	mg/L	0.926	0.994	1.00	7.2	20	91.7	X346007 - X3K0058-02	
EPA 200.7	Copper	mg/L	0.965	1.04	1.00	7.4	20	96.5	X346007 - X3K0058-02	
EPA 200.7	Iron	mg/L	10.5	11.2	10.0	7.0	20	104	X346007 - X3K0058-02	
EPA 200.7	Lead	mg/L	0.925	0.996	1.00	7.4	20	92.5	X346007 - X3K0058-02	
EPA 200.7	Lithium	mg/L	0.994	1.06	1.00	6.2	20	99.4	X346007 - X3K0058-02	
EPA 200.7	Magnesium	mg/L	72.2	77.0	20.0	6.4	20	103	X346007 - X3K0058-02	
EPA 200.7	Manganese	mg/L	3.00	3.06	1.00	2.1	20	97.5	X346007 - X3K0058-02	
EPA 200.7	Molybdenum	mg/L	0.931	1.00	1.00	7.4	20	93.1	X346007 - X3K0058-02	
EPA 200.7	Nickel	mg/L	0.918	0.988	1.00	7.3	20	91.8	X346007 - X3K0058-02	
EPA 200.7	Potassium	mg/L	21.6	23.2	20.0	7.0	20	98.3	X346007 - X3K0058-02	
EPA 200.7	Silver	mg/L	0.0488	0.0521	0.0500	6.6	20	97.6	X346007 - X3K0058-02	
EPA 200.7	Sodium	mg/L	50.8	52.3	19.0	2.9	20	103	X346007 - X3K0058-02	
EPA 200.7	Vanadium	mg/L	0.985	1.06	1.00	7.1	20	98.2	X346007 - X3K0058-02	

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Work Order: **X3K0058**
Reported: 20-Nov-23 09:33

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Zinc	mg/L	0.989	1.06	1.00	7.1	20	97.1	X346007 - X3K0058-02	
EPA 200.8	Antimony	mg/L	0.0302	0.0293	0.0250	3.0	20	121	X345039 - X3K0075-01	
EPA 200.8	Arsenic	mg/L	0.0348	0.0341	0.0250	2.0	20	135	X345039 - X3K0075-01	M1
EPA 200.8	Selenium	mg/L	0.0342	0.0344	0.0250	0.8	20	133	X345039 - X3K0075-01	M1
EPA 200.8	Thallium	mg/L	0.0298	0.0282	0.0250	5.3	20	119	X345039 - X3K0075-01	
EPA 200.8	Uranium	mg/L	0.0485	0.0458	0.0250	5.7	20	143	X345039 - X3K0075-01	M1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00203	0.00203	0.00200	0.2	20	101	X344235 - X3K0007-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0900	0.0810	0.100	10.5	11	90.0	X345130 - X3K0102-01	
EPA 335.4	Cyanide (total)	mg/L	0.975	1.01	1.00	3.3	20	97.5	X345048 - X3K0058-01	
EPA 350.1	Ammonia as N	mg/L	0.978	0.967	1.00	1.2	20	97.8	X345124 - X3J0521-01	B1
OIA 1677	Cyanide (WAD)	mg/L	0.119	0.109	0.100	8.8	11	118	X346036 - X3K0003-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.23	4.16	3.00	1.7	20	102	X344239 - X3K0063-04	
EPA 300.0	Fluoride	mg/L	2.04	2.00	2.00	2.1	20	102	X344239 - X3K0063-04	
EPA 300.0	Nitrate as N	mg/L	2.04	1.99	2.00	2.1	20	100	X344239 - X3K0063-04	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.10	4.04	4.00	1.6	20	103	X344239 - X3K0063-04	
EPA 300.0	Nitrite as N	mg/L	2.07	2.04	2.00	1.0	20	103	X344239 - X3K0063-04	
EPA 300.0	Sulfate as SO4	mg/L	12.3	12.0	10.0	2.5	20	106	X344239 - X3K0063-04	

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Work Order: **X3K0058**
Reported: 20-Nov-23 09:33

Notes and Definitions

B1	Target analyte detected in method blank at or above the method reporting limit.
D2	Sample required dilution due to high concentration of target analyte.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Work Order: **X3K0428**
Reported: 27-Dec-23 14:37

Client Sample ID: **CRMW-3B**
SVL Sample ID: **X3K0428-01 (Ground Water)**

Sampled: 28-Nov-23 10:00
Received: 29-Nov-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	340	mg/L	0.100	0.069		X349166	NMS	12/08/23 13:15	
EPA 200.7	**Magnesium**	77.2	mg/L	0.500	0.090		X349166	NMS	12/08/23 13:15	
EPA 200.7	**Potassium**	11.2	mg/L	0.50	0.18		X349166	NMS	12/08/23 13:15	
SM 2340 B	**Hardness (as CaCO3)**	1170	mg/L	2.31	0.543		N/A		12/08/23 09:41	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X349007	NMS	12/08/23 09:41	
EPA 200.7	**Barium**	0.0145	mg/L	0.0020	0.0019		X349007	NMS	12/08/23 09:41	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X349007	NMS	12/08/23 09:41	
EPA 200.7	**Boron**	0.0834	mg/L	0.0400	0.0078		X349007	NMS	12/08/23 09:41	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X349007	NMS	12/08/23 09:41	
EPA 200.7	**Calcium**	336	mg/L	0.100	0.069		X349007	NMS	12/08/23 09:41	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X349007	NMS	12/08/23 09:41	
EPA 200.7	**Cobalt**	0.0263	mg/L	0.0060	0.0046		X349007	NMS	12/08/23 09:41	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X349007	NMS	12/08/23 09:41	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X349007	NMS	12/08/23 09:41	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X349007	NMS	12/08/23 09:41	
EPA 200.7	**Lithium**	0.112	mg/L	0.040	0.025		X349007	NMS	12/08/23 09:41	
EPA 200.7	**Magnesium**	78.6	mg/L	0.500	0.090		X349007	NMS	12/08/23 09:41	
EPA 200.7	**Manganese**	2.95	mg/L	0.0080	0.0034		X349007	NMS	12/08/23 09:41	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X349007	NMS	12/08/23 09:41	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X349007	NMS	12/08/23 09:41	
EPA 200.7	**Potassium**	10.9	mg/L	0.50	0.18		X349007	NMS	12/08/23 09:41	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X349007	NMS	12/08/23 09:41	
EPA 200.7	**Sodium**	100	mg/L	0.50	0.12		X349007	NMS	12/08/23 09:41	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X349007	NMS	12/08/23 09:41	
EPA 200.7	**Zinc**	0.0763	mg/L	0.0100	0.0054		X349007	NMS	12/08/23 09:41	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X349239	SMU	12/19/23 18:52	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X349239	SMU	12/19/23 18:52	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X349239	SMU	12/19/23 18:52	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X349239	SMU	12/19/23 18:52	
EPA 200.8	**Uranium**	0.0274	mg/L	0.000100	0.000052		X349239	SMU	12/19/23 18:52	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X348136	MAC	11/30/23 14:27	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X348195	DD	12/01/23 14:12	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X349127	DD	12/06/23 11:48	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X349016	DD	12/05/23 11:21	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X350055	DD	12/13/23 14:17	H1,M2,R2B
SM 2310 B	**Acidity to pH 8.3**	-152	mg/L as CaCO3	10.0			X348132	MWD	11/30/23 12:37	
SM 2320 B	**Total Alkalinity**	157	mg/L as CaCO3	1.0			X348113	MWD	11/29/23 19:21	
SM 2320 B	**Bicarbonate**	157	mg/L as CaCO3	1.0			X348113	MWD	11/29/23 19:21	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X348113	MWD	11/29/23 19:21	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X348113	MWD	11/29/23 19:21	
SM 2540 C	**Total Diss. Solids**	1740	mg/L	40			X348155	TJL	12/01/23 14:40	D2
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X348156	TJL	12/01/23 13:50	
SM 4500 H B	**pH @20.3°C**	6.9	pH Units				X348113	MWD	11/29/23 19:21	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3K0428**
Reported: 27-Dec-23 14:37

Client Sample ID: **CRMW-3B**
SVL Sample ID: **X3K0428-01 (Ground Water)**

Sampled: 28-Nov-23 10:00
Received: 29-Nov-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	281	mg/L	10.0	1.10	50	X348128	RS	11/29/23 13:29	D2
EPA 300.0	**Fluoride**	3.05	mg/L	0.100	0.017		X348128	RS	11/29/23 13:12	
EPA 300.0	**Nitrate as N**	0.079	mg/L	0.050	0.013		X348128	RS	11/29/23 13:12	
EPA 300.0	**Nitrate+Nitrite as N**	0.230	mg/L	0.100	0.044		X348128	RS	11/29/23 13:12	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X348128	RS	11/29/23 13:12	
EPA 300.0	**Sulfate as SO4**	852	mg/L	15.0	9.00	50	X348128	RS	11/29/23 13:29	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 27.9 meq/L Anion Sum: 29.0 meq/L C/A Balance: -1.93 % Calculated TDS: 1758 TDS/cTDS: 0.99

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3K0428**
Reported: 27-Dec-23 14:37

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X349166	08-Dec-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X349166	08-Dec-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X349166	08-Dec-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X349007	08-Dec-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X349007	08-Dec-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X349007	08-Dec-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X349007	08-Dec-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X349007	08-Dec-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X349007	08-Dec-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X349007	08-Dec-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X349007	08-Dec-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X349007	08-Dec-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X349007	08-Dec-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X349007	08-Dec-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X349007	08-Dec-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X349007	08-Dec-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X349007	08-Dec-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X349007	08-Dec-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X349007	08-Dec-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X349007	08-Dec-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X349007	08-Dec-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X349007	08-Dec-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X349007	08-Dec-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X349007	08-Dec-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X349239	19-Dec-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X349239	19-Dec-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X349239	19-Dec-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X349239	19-Dec-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X349239	19-Dec-23	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X348136	30-Nov-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X348195	01-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X349127	06-Dec-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X349016	05-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X350055	13-Dec-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X348132	30-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X348113	29-Nov-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X348113	29-Nov-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X348113	29-Nov-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X348113	29-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X348155	01-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X348156	01-Dec-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X348128	29-Nov-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X348128	29-Nov-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X348128	29-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X348128	29-Nov-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X348128	29-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X348128	29-Nov-23	

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Work Order: **X3K0428**
Reported: 27-Dec-23 14:37

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	21.5	20.0	108	85 - 115	X349166	08-Dec-23	
EPA 200.7	Magnesium	mg/L	21.9	20.0	110	85 - 115	X349166	08-Dec-23	
EPA 200.7	Potassium	mg/L	21.4	20.0	107	85 - 115	X349166	08-Dec-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.01	1.00	101	85 - 115	X349007	08-Dec-23	
EPA 200.7	Barium	mg/L	0.997	1.00	99.7	85 - 115	X349007	08-Dec-23	
EPA 200.7	Beryllium	mg/L	0.999	1.00	99.9	85 - 115	X349007	08-Dec-23	
EPA 200.7	Boron	mg/L	0.990	1.00	99.0	85 - 115	X349007	08-Dec-23	
EPA 200.7	Cadmium	mg/L	0.992	1.00	99.2	85 - 115	X349007	08-Dec-23	
EPA 200.7	Calcium	mg/L	20.0	20.0	99.9	85 - 115	X349007	08-Dec-23	
EPA 200.7	Chromium	mg/L	0.994	1.00	99.4	85 - 115	X349007	08-Dec-23	
EPA 200.7	Cobalt	mg/L	0.971	1.00	97.1	85 - 115	X349007	08-Dec-23	
EPA 200.7	Copper	mg/L	0.983	1.00	98.3	85 - 115	X349007	08-Dec-23	
EPA 200.7	Iron	mg/L	10.3	10.0	103	85 - 115	X349007	08-Dec-23	
EPA 200.7	Lead	mg/L	0.983	1.00	98.3	85 - 115	X349007	08-Dec-23	
EPA 200.7	Lithium	mg/L	0.971	1.00	97.1	85 - 115	X349007	08-Dec-23	
EPA 200.7	Magnesium	mg/L	19.8	20.0	99.0	85 - 115	X349007	08-Dec-23	
EPA 200.7	Manganese	mg/L	0.989	1.00	98.9	85 - 115	X349007	08-Dec-23	
EPA 200.7	Molybdenum	mg/L	0.978	1.00	97.8	85 - 115	X349007	08-Dec-23	
EPA 200.7	Nickel	mg/L	0.972	1.00	97.2	85 - 115	X349007	08-Dec-23	
EPA 200.7	Potassium	mg/L	19.9	20.0	99.7	85 - 115	X349007	08-Dec-23	
EPA 200.7	Silver	mg/L	0.0505	0.0500	101	85 - 115	X349007	08-Dec-23	
EPA 200.7	Sodium	mg/L	19.3	19.0	102	85 - 115	X349007	08-Dec-23	
EPA 200.7	Vanadium	mg/L	0.997	1.00	99.7	85 - 115	X349007	08-Dec-23	
EPA 200.7	Zinc	mg/L	1.00	1.00	100	85 - 115	X349007	08-Dec-23	
EPA 200.8	Antimony	mg/L	0.0252	0.0250	101	85 - 115	X349239	19-Dec-23	
EPA 200.8	Arsenic	mg/L	0.0251	0.0250	100	85 - 115	X349239	19-Dec-23	
EPA 200.8	Selenium	mg/L	0.0247	0.0250	98.9	85 - 115	X349239	19-Dec-23	
EPA 200.8	Thallium	mg/L	0.0249	0.0250	99.7	85 - 115	X349239	19-Dec-23	
EPA 200.8	Uranium	mg/L	0.0248	0.0250	99.3	85 - 115	X349239	19-Dec-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00183	0.00200	91.4	85 - 115	X348136	30-Nov-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0900	0.100	90.0	90 - 110	X348195	01-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	0.199	0.200	99.7	90 - 110	X349127	06-Dec-23	
EPA 350.1	Ammonia as N	mg/L	0.991	1.00	99.1	90 - 110	X349016	05-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X350055	14-Dec-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	98.5	95.4 - 104	X348132	30-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.9	99.3	99.6	96.4 - 105	X348113	29-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	398	397	100	96.4 - 105	X348113	29-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	11.0	10.0	110	85 - 115	X348156	01-Dec-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.05	3.00	102	90 - 110	X348128	29-Nov-23	
EPA 300.0	Fluoride	mg/L	2.02	2.00	101	90 - 110	X348128	29-Nov-23	
EPA 300.0	Nitrate as N	mg/L	2.05	2.00	103	90 - 110	X348128	29-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.62	4.50	103	90 - 110	X348128	29-Nov-23	
EPA 300.0	Nitrite as N	mg/L	2.57	2.50	103	90 - 110	X348128	29-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	10.7	10.0	107	90 - 110	X348128	29-Nov-23	

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Work Order: **X3K0428**
Reported: 27-Dec-23 14:37

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X348132 - X3K0345-01	30-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	500	501	0.3	20	X348113 - X3K0410-03	29-Nov-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	500	501	0.3	20	X348113 - X3K0410-03	29-Nov-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X348113 - X3K0410-03	29-Nov-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X348113 - X3K0410-03	29-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	263	254	3.5	10	X348155 - X3K0446-02	01-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X348156 - X3K0441-01	01-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	58.0	56.0	3.5	10	X348156 - X3K0446-02	01-Dec-23	
SM 4500 H B	pH @19.7°C	pH Units	7.0	7.2	2.4	20	X348113 - X3K0410-03	29-Nov-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	67.7	43.6	20.0	120	70 - 130	X349166 - X3K0419-01	08-Dec-23	
EPA 200.7	Calcium	mg/L	65.3	45.9	20.0	97	70 - 130	X349166 - X3K0447-02	08-Dec-23	
EPA 200.7	Magnesium	mg/L	28.1	6.02	20.0	110	70 - 130	X349166 - X3K0419-01	08-Dec-23	
EPA 200.7	Magnesium	mg/L	25.6	4.35	20.0	106	70 - 130	X349166 - X3K0447-02	08-Dec-23	
EPA 200.7	Potassium	mg/L	41.0	18.7	20.0	112	70 - 130	X349166 - X3K0419-01	08-Dec-23	
EPA 200.7	Potassium	mg/L	21.0	<0.50	20.0	105	70 - 130	X349166 - X3K0447-02	08-Dec-23	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.14	0.145	1.00	99.7	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Barium	mg/L	1.00	0.0193	1.00	98.4	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Beryllium	mg/L	0.972	<0.00200	1.00	97.2	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Boron	mg/L	1.42	0.436	1.00	98.1	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Cadmium	mg/L	0.978	<0.0020	1.00	97.8	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Calcium	mg/L	32.6	12.5	20.0	101	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Chromium	mg/L	0.987	<0.0060	1.00	98.7	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Cobalt	mg/L	0.955	<0.0060	1.00	95.5	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Copper	mg/L	0.972	<0.0100	1.00	97.2	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Iron	mg/L	10.5	0.139	10.0	103	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Lead	mg/L	0.961	<0.0075	1.00	96.1	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Lithium	mg/L	0.942	<0.040	1.00	94.2	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Magnesium	mg/L	25.7	5.33	20.0	102	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Manganese	mg/L	0.984	<0.0080	1.00	97.9	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Molybdenum	mg/L	0.944	<0.0080	1.00	94.4	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Nickel	mg/L	0.954	<0.0100	1.00	95.4	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Potassium	mg/L	23.4	3.45	20.0	99.9	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Silver	mg/L	0.0504	<0.0050	0.0500	101	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Sodium	mg/L	60.9	42.4	19.0	97.4	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Vanadium	mg/L	1.00	0.0118	1.00	98.8	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.7	Zinc	mg/L	1.00	<0.0100	1.00	100	70 - 130	X349007 - X3K0456-01	08-Dec-23	
EPA 200.8	Antimony	mg/L	0.0246	<0.00100	0.0250	98.5	70 - 130	X349239 - X3K0447-01	19-Dec-23	
EPA 200.8	Antimony	mg/L	0.0255	<0.00100	0.0250	102	70 - 130	X349239 - X3K0447-04	19-Dec-23	
EPA 200.8	Arsenic	mg/L	0.0262	0.00182	0.0250	97.5	70 - 130	X349239 - X3K0447-01	19-Dec-23	
EPA 200.8	Arsenic	mg/L	0.0249	0.00182	0.0250	92.2	70 - 130	X349239 - X3K0447-04	19-Dec-23	
EPA 200.8	Selenium	mg/L	0.0251	<0.00100	0.0250	100	70 - 130	X349239 - X3K0447-01	19-Dec-23	
EPA 200.8	Selenium	mg/L	0.0414	0.0190	0.0250	89.6	70 - 130	X349239 - X3K0447-04	19-Dec-23	

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Work Order: **X3K0428**
Reported: 27-Dec-23 14:37

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Thallium	mg/L	0.0250	<0.000200	0.0250	99.8	70 - 130	X349239 - X3K0447-01	19-Dec-23	
EPA 200.8	Thallium	mg/L	0.0250	0.000357	0.0250	98.6	70 - 130	X349239 - X3K0447-04	19-Dec-23	
EPA 200.8	Uranium	mg/L	0.0246	<0.000100	0.0250	98.3	70 - 130	X349239 - X3K0447-01	19-Dec-23	
EPA 200.8	Uranium	mg/L	0.0313	0.00668	0.0250	98.6	70 - 130	X349239 - X3K0447-04	19-Dec-23	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.114	0.122	0.00200	0.30R>S	70 - 130	X348136 - X3K0378-01	30-Nov-23	D2,M4
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0950	<0.0050	0.100	95.0	79 - 121	X348195 - X3K0345-01	01-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X349127 - X3K0428-01	06-Dec-23	
EPA 350.1	Ammonia as N	mg/L	7.22	6.01	1.00	0.30R>S	90 - 110	X349016 - X3K0431-02	05-Dec-23	D2,M4
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	101	90 - 110	X349016 - X3K0428-01	05-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0570	<0.0050	0.100	56.0	82 - 118	X350055 - X3K0428-01	13-Dec-23	M2,R2B
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.33	1.20	3.00	104	90 - 110	X348128 - X3K0438-01	29-Nov-23	
EPA 300.0	Fluoride	mg/L	2.11	<0.100	2.00	101	90 - 110	X348128 - X3K0438-01	29-Nov-23	
EPA 300.0	Nitrate as N	mg/L	2.05	<0.050	2.00	102	90 - 110	X348128 - X3K0438-01	29-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.17	<0.100	4.00	104	90 - 110	X348128 - X3K0438-01	29-Nov-23	
EPA 300.0	Nitrite as N	mg/L	2.12	<0.050	2.00	106	90 - 110	X348128 - X3K0438-01	29-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	16.4	5.88	10.0	106	90 - 110	X348128 - X3K0438-01	29-Nov-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	65.1	67.7	20.0	4.0	20	108	X349166 - X3K0419-01	
EPA 200.7	Magnesium	mg/L	27.7	28.1	20.0	1.6	20	108	X349166 - X3K0419-01	
EPA 200.7	Potassium	mg/L	40.1	41.0	20.0	2.4	20	107	X349166 - X3K0419-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.16	1.14	1.00	1.8	20	102	X349007 - X3K0456-01	
EPA 200.7	Barium	mg/L	1.01	1.00	1.00	0.9	20	99.3	X349007 - X3K0456-01	
EPA 200.7	Beryllium	mg/L	1.01	0.972	1.00	3.9	20	101	X349007 - X3K0456-01	
EPA 200.7	Boron	mg/L	1.44	1.42	1.00	1.3	20	100	X349007 - X3K0456-01	
EPA 200.7	Cadmium	mg/L	1.00	0.978	1.00	2.5	20	100	X349007 - X3K0456-01	
EPA 200.7	Calcium	mg/L	33.1	32.6	20.0	1.4	20	103	X349007 - X3K0456-01	
EPA 200.7	Chromium	mg/L	1.01	0.987	1.00	2.7	20	101	X349007 - X3K0456-01	
EPA 200.7	Cobalt	mg/L	0.984	0.955	1.00	3.0	20	98.4	X349007 - X3K0456-01	
EPA 200.7	Copper	mg/L	0.998	0.972	1.00	2.6	20	99.8	X349007 - X3K0456-01	
EPA 200.7	Iron	mg/L	10.7	10.5	10.0	2.5	20	106	X349007 - X3K0456-01	
EPA 200.7	Lead	mg/L	0.991	0.961	1.00	3.1	20	99.1	X349007 - X3K0456-01	
EPA 200.7	Lithium	mg/L	0.971	0.942	1.00	3.0	20	97.1	X349007 - X3K0456-01	
EPA 200.7	Magnesium	mg/L	26.1	25.7	20.0	1.5	20	104	X349007 - X3K0456-01	
EPA 200.7	Manganese	mg/L	1.01	0.984	1.00	2.6	20	100	X349007 - X3K0456-01	
EPA 200.7	Molybdenum	mg/L	0.978	0.944	1.00	3.5	20	97.8	X349007 - X3K0456-01	
EPA 200.7	Nickel	mg/L	0.982	0.954	1.00	2.9	20	98.2	X349007 - X3K0456-01	
EPA 200.7	Potassium	mg/L	24.0	23.4	20.0	2.4	20	103	X349007 - X3K0456-01	
EPA 200.7	Silver	mg/L	0.0525	0.0504	0.0500	4.1	20	105	X349007 - X3K0456-01	
EPA 200.7	Sodium	mg/L	61.2	60.9	19.0	0.4	20	98.7	X349007 - X3K0456-01	
EPA 200.7	Vanadium	mg/L	1.03	1.00	1.00	2.7	20	102	X349007 - X3K0456-01	

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Work Order: **X3K0428**
Reported: 27-Dec-23 14:37

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Zinc	mg/L	1.03	1.00	1.00	2.4	20	103	X349007 - X3K0456-01	
EPA 200.8	Antimony	mg/L	0.0253	0.0246	0.0250	2.7	20	101	X349239 - X3K0447-01	
EPA 200.8	Arsenic	mg/L	0.0278	0.0262	0.0250	6.0	20	104	X349239 - X3K0447-01	
EPA 200.8	Selenium	mg/L	0.0266	0.0251	0.0250	5.8	20	106	X349239 - X3K0447-01	
EPA 200.8	Thallium	mg/L	0.0253	0.0250	0.0250	1.3	20	101	X349239 - X3K0447-01	
EPA 200.8	Uranium	mg/L	0.0254	0.0246	0.0250	3.1	20	101	X349239 - X3K0447-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.118	0.114	0.00200	3.3	20	0.30R>S	X348136 - X3K0378-01	D2,M4
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0930	0.0950	0.100	2.1	11	93.0	X348195 - X3K0345-01	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.103	0.100	1.1	20	104	X349127 - X3K0428-01	
EPA 350.1	Ammonia as N	mg/L	7.12	7.22	1.00	1.3	20	0.30R>S	X349016 - X3K0431-02	D2,M4
OIA 1677	Cyanide (WAD)	mg/L	0.0710	0.0570	0.100	21.9	11	70.0	X350055 - X3K0428-01	M2,R2B
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.28	4.33	3.00	1.2	20	102	X348128 - X3K0438-01	
EPA 300.0	Fluoride	mg/L	2.08	2.11	2.00	1.0	20	100	X348128 - X3K0438-01	
EPA 300.0	Nitrate as N	mg/L	2.04	2.05	2.00	0.6	20	102	X348128 - X3K0438-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.15	4.17	4.00	0.4	20	104	X348128 - X3K0438-01	
EPA 300.0	Nitrite as N	mg/L	2.12	2.12	2.00	0.1	20	106	X348128 - X3K0438-01	
EPA 300.0	Sulfate as SO4	mg/L	16.4	16.4	10.0	0.0	20	106	X348128 - X3K0438-01	

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Work Order: **X3K0428**
Reported: 27-Dec-23 14:37

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Client Sample ID: **CRMW-3C**
SVL Sample ID: **X3L0139-01 (Ground Water)**

Sampled: 07-Dec-23 14:05
Received: 08-Dec-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	338	mg/L	0.100	0.069		X350051	JRR	12/13/23 09:55	
EPA 200.7	**Magnesium**	65.4	mg/L	0.500	0.090		X350051	JRR	12/13/23 09:55	
EPA 200.7	**Potassium**	7.60	mg/L	0.50	0.18		X350051	JRR	12/13/23 09:55	
SM 2340 B	**Hardness (as CaCO3)**	1110	mg/L	2.31	0.543		N/A		12/15/23 09:11	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X350003	JRR	12/15/23 09:11	
EPA 200.7	**Barium**	0.0122	mg/L	0.0020	0.0019		X350003	JRR	12/15/23 09:11	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X350003	JRR	12/15/23 09:11	
EPA 200.7	**Boron**	0.0695	mg/L	0.0400	0.0078		X350003	JRR	12/15/23 09:11	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X350003	JRR	12/15/23 09:11	
EPA 200.7	**Calcium**	347	mg/L	0.100	0.069		X350003	JRR	12/15/23 09:11	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X350003	JRR	12/15/23 09:11	
EPA 200.7	**Cobalt**	0.0300	mg/L	0.0060	0.0046		X350003	JRR	12/15/23 09:11	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X350003	JRR	12/15/23 09:11	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X350003	JRR	12/15/23 09:11	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X350003	JRR	12/15/23 09:11	
EPA 200.7	**Lithium**	0.185	mg/L	0.040	0.025		X350003	JRR	12/15/23 09:11	
EPA 200.7	**Magnesium**	66.2	mg/L	0.500	0.090		X350003	JRR	12/15/23 09:11	
EPA 200.7	**Manganese**	7.65	mg/L	0.0080	0.0034		X350003	JRR	12/15/23 09:11	
EPA 200.7	**Molybdenum**	0.0187	mg/L	0.0080	0.0034		X350003	JRR	12/15/23 09:11	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X350003	JRR	12/15/23 09:11	
EPA 200.7	**Potassium**	7.64	mg/L	0.50	0.18		X350003	JRR	12/15/23 09:11	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X350003	JRR	12/15/23 09:11	
EPA 200.7	**Sodium**	85.8	mg/L	0.50	0.12		X350003	JRR	12/15/23 09:11	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X350003	JRR	12/15/23 09:11	
EPA 200.7	**Zinc**	0.0196	mg/L	0.0100	0.0054		X350003	JRR	12/15/23 09:11	
EPA 200.8	**Antimony**	0.00101	mg/L	0.00100	0.00072		X350189	SMU	01/04/24 10:42	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X350189	SMU	01/04/24 10:42	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X350189	SMU	01/04/24 14:47	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X350189	SMU	01/04/24 10:42	
EPA 200.8	**Uranium**	0.0274	mg/L	0.000100	0.000052		X350189	SMU	01/04/24 10:42	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X350014	MAC	12/14/23 12:56	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X351195	DD	12/22/23 12:32	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X350032	DD	12/12/23 14:46	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X350169	DD	12/21/23 13:07	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X350217	DD	12/21/23 18:38	
SM 2310 B	**Acidity to pH 8.3**	-166	mg/L as CaCO3	10.0			X350024	MWD	12/11/23 10:59	
SM 2320 B	**Total Alkalinity**	171	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:19	
SM 2320 B	**Bicarbonate**	171	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:19	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:19	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:19	
SM 2540 C	**Total Diss. Solids**	1680	mg/L	40			X349301	TJL	12/12/23 13:55	D2
SM 2540 D	**Total Susp. Solids**	8.0	mg/L	5.0			X349302	TJL	12/12/23 14:30	
SM 4500 H B	**pH @18.9°C**	7.5	pH Units				X349290	MWD	12/08/23 18:19	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Client Sample ID: **CRMW-3C**
SVL Sample ID: **X3L0139-01 (Ground Water)**

Sampled: 07-Dec-23 14:05
Received: 08-Dec-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	270	mg/L	10.0	1.10	50	X349277	RS	12/08/23 11:00	D2
EPA 300.0	**Fluoride**	2.62	mg/L	0.100	0.017		X349277	RS	12/08/23 10:43	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X349277	RS	12/08/23 10:43	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X349277	RS	12/08/23 10:43	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X349277	RS	12/08/23 10:43	
EPA 300.0	**Sulfate as SO4**	811	mg/L	15.0	9.00	50	X349277	RS	12/08/23 11:00	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 26.5 meq/L Anion Sum: 28.1 meq/L C/A Balance: -2.88 % Calculated TDS: 1688 TDS/cTDS: 1.00

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X350051	13-Dec-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X350051	13-Dec-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X350051	13-Dec-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X350003	15-Dec-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X350003	15-Dec-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X350003	15-Dec-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X350003	15-Dec-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X350003	15-Dec-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X350003	15-Dec-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X350003	15-Dec-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X350003	15-Dec-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X350003	15-Dec-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X350003	15-Dec-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X350003	15-Dec-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X350003	15-Dec-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X350003	15-Dec-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X350003	15-Dec-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X350003	15-Dec-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X350003	15-Dec-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X350003	15-Dec-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X350003	15-Dec-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X350003	15-Dec-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X350003	15-Dec-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X350003	15-Dec-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X350189	04-Jan-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X350189	04-Jan-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X350189	04-Jan-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X350189	04-Jan-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X350189	04-Jan-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X350014	14-Dec-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X351195	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X350032	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X350169	21-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X350055	13-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X350217	21-Dec-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X350024	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X349301	12-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X349302	12-Dec-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X349277	08-Dec-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X349277	08-Dec-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X349277	08-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X349277	08-Dec-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X349277	08-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X349277	08-Dec-23	

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X350051	13-Dec-23	
EPA 200.7	Magnesium	mg/L	20.3	20.0	101	85 - 115	X350051	13-Dec-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.9	85 - 115	X350051	13-Dec-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.953	1.00	95.3	85 - 115	X350003	15-Dec-23	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X350003	15-Dec-23	
EPA 200.7	Beryllium	mg/L	0.983	1.00	98.3	85 - 115	X350003	15-Dec-23	
EPA 200.7	Boron	mg/L	0.969	1.00	96.9	85 - 115	X350003	15-Dec-23	
EPA 200.7	Cadmium	mg/L	0.962	1.00	96.2	85 - 115	X350003	15-Dec-23	
EPA 200.7	Calcium	mg/L	19.7	20.0	98.5	85 - 115	X350003	15-Dec-23	
EPA 200.7	Chromium	mg/L	0.981	1.00	98.1	85 - 115	X350003	15-Dec-23	
EPA 200.7	Cobalt	mg/L	0.950	1.00	95.0	85 - 115	X350003	15-Dec-23	
EPA 200.7	Copper	mg/L	0.960	1.00	96.0	85 - 115	X350003	15-Dec-23	
EPA 200.7	Iron	mg/L	10.0	10.0	100	85 - 115	X350003	15-Dec-23	
EPA 200.7	Lead	mg/L	0.958	1.00	95.8	85 - 115	X350003	15-Dec-23	
EPA 200.7	Lithium	mg/L	0.914	1.00	91.4	85 - 115	X350003	15-Dec-23	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.5	85 - 115	X350003	15-Dec-23	
EPA 200.7	Manganese	mg/L	0.980	1.00	98.0	85 - 115	X350003	15-Dec-23	
EPA 200.7	Molybdenum	mg/L	0.979	1.00	97.9	85 - 115	X350003	15-Dec-23	
EPA 200.7	Nickel	mg/L	0.950	1.00	95.0	85 - 115	X350003	15-Dec-23	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.6	85 - 115	X350003	15-Dec-23	
EPA 200.7	Silver	mg/L	0.0428	0.0500	85.7	85 - 115	X350003	15-Dec-23	
EPA 200.7	Sodium	mg/L	18.8	19.0	98.9	85 - 115	X350003	15-Dec-23	
EPA 200.7	Vanadium	mg/L	0.983	1.00	98.3	85 - 115	X350003	15-Dec-23	
EPA 200.7	Zinc	mg/L	0.997	1.00	99.7	85 - 115	X350003	15-Dec-23	
EPA 200.8	Antimony	mg/L	0.0248	0.0250	99.2	85 - 115	X350189	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0257	0.0250	103	85 - 115	X350189	04-Jan-24	
EPA 200.8	Selenium	mg/L	0.0237	0.0250	94.7	85 - 115	X350189	04-Jan-24	
EPA 200.8	Thallium	mg/L	0.0249	0.0250	99.5	85 - 115	X350189	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0245	0.0250	97.9	85 - 115	X350189	04-Jan-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00186	0.00200	93.0	85 - 115	X350014	14-Dec-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X351195	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X350032	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	1.03	1.00	103	90 - 110	X350169	21-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X350055	14-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X350217	21-Dec-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1610	1640	98.2	95.4 - 104	X350024	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	96.4 - 105	X349290	08-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.9	99.3	101	96.4 - 105	X349290	08-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X349302	12-Dec-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.92	3.00	97.4	90 - 110	X349277	08-Dec-23	
EPA 300.0	Fluoride	mg/L	1.97	2.00	98.4	90 - 110	X349277	08-Dec-23	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	98.2	90 - 110	X349277	08-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.45	4.50	98.9	90 - 110	X349277	08-Dec-23	
EPA 300.0	Nitrite as N	mg/L	2.48	2.50	99.4	90 - 110	X349277	08-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X349277	08-Dec-23	

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X350024 - X3L0133-02	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	153	153	0.2	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	153	153	0.2	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X349290 - X3L0112-02	08-Dec-23	
SM 2540 C	Total Diss. Solids	mg/L	188	199	5.7	10	X349301 - X3L0139-02	12-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	22.0	20.0	9.5	10	X349302 - X3L0139-02	12-Dec-23	
SM 4500 H B	pH @19.1°C	pH Units	7.6	7.6	0.1	20	X349290 - X3L0112-02	08-Dec-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	20.1	0.116	20.0	100	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Calcium	mg/L	526	522	20.0	0.30R>S	70 - 130	X350051 - X3L0112-05	13-Dec-23	D2,M4
EPA 200.7	Magnesium	mg/L	20.5	<0.500	20.0	103	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Magnesium	mg/L	418	443	20.0	0.30R>S	70 - 130	X350051 - X3L0112-05	13-Dec-23	D1,M4
EPA 200.7	Potassium	mg/L	19.6	<0.50	20.0	98.1	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Potassium	mg/L	26.2	7.44	20.0	93.7	70 - 130	X350051 - X3L0112-05	13-Dec-23	D1
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.912	<0.080	1.00	91.2	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Barium	mg/L	1.02	0.0122	1.00	101	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Beryllium	mg/L	0.920	<0.00200	1.00	92.0	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Boron	mg/L	1.03	0.0695	1.00	96.4	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Cadmium	mg/L	0.904	<0.0020	1.00	90.4	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Calcium	mg/L	366	347	20.0	91.9	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Chromium	mg/L	0.938	<0.0060	1.00	93.8	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Cobalt	mg/L	0.917	0.0300	1.00	88.7	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Copper	mg/L	0.954	<0.0100	1.00	95.4	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Iron	mg/L	9.95	<0.100	10.0	99.5	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Lead	mg/L	0.903	<0.0075	1.00	90.3	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Lithium	mg/L	1.09	0.185	1.00	90.5	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Magnesium	mg/L	87.9	66.2	20.0	108	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Manganese	mg/L	8.66	7.65	1.00	101	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Molybdenum	mg/L	0.963	0.0187	1.00	94.4	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Nickel	mg/L	0.883	<0.0100	1.00	88.3	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Potassium	mg/L	28.3	7.64	20.0	103	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Silver	mg/L	0.0366	<0.0050	0.0500	73.3	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Sodium	mg/L	104	85.8	19.0	95.7	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Vanadium	mg/L	0.962	<0.0050	1.00	96.2	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Zinc	mg/L	0.997	0.0196	1.00	97.8	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.8	Antimony	mg/L	0.0262	<0.00100	0.0250	105	70 - 130	X350189 - X3L0142-01	04-Jan-24	
EPA 200.8	Antimony	mg/L	0.0249	<0.00100	0.0250	99.6	70 - 130	X350189 - X3L0164-02	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0611	0.0365	0.0250	98.5	70 - 130	X350189 - X3L0142-01	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X350189 - X3L0164-02	04-Jan-24	
EPA 200.8	Selenium	mg/L	0.0301	<0.00100	0.0250	121	70 - 130	X350189 - X3L0142-01	04-Jan-24	
EPA 200.8	Selenium	mg/L	0.0256	<0.00100	0.0250	103	70 - 130	X350189 - X3L0164-02	04-Jan-24	
EPA 200.8	Thallium	mg/L	0.0239	<0.000200	0.0250	95.5	70 - 130	X350189 - X3L0142-01	04-Jan-24	

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Thallium	mg/L	0.0253	<0.000200	0.0250	101	70 - 130	X350189 - X3L0164-02	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0267	0.00296	0.0250	94.9	70 - 130	X350189 - X3L0142-01	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0247	<0.000100	0.0250	99.0	70 - 130	X350189 - X3L0164-02	04-Jan-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00186	<0.000200	0.00200	93.1	70 - 130	X350014 - X3L0112-01	14-Dec-23	
EPA 245.1	Mercury	mg/L	0.00181	<0.000200	0.00200	90.5	70 - 130	X350014 - X3L0146-01	14-Dec-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	<0.0050	0.100	105	79 - 121	X351195 - X3L0112-05	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	0.107	<0.0050	0.100	107	90 - 110	X350032 - X3L0112-01	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	98.9	90 - 110	X350169 - X3L0139-02	21-Dec-23	
EPA 350.1	Ammonia as N	mg/L	0.995	<0.030	1.00	97.3	90 - 110	X350169 - X3L0139-03	21-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0570	<0.0050	0.100	56.0	82 - 118	X350055 - X3K0428-01	13-Dec-23	M2,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.118	<0.0050	0.100	118	82 - 118	X350217 - X3L0078-06	21-Dec-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.74	1.72	3.00	101	90 - 110	X349277 - X3L0139-03	08-Dec-23	
EPA 300.0	Fluoride	mg/L	2.18	0.218	2.00	98.2	90 - 110	X349277 - X3L0139-03	08-Dec-23	
EPA 300.0	Nitrate as N	mg/L	2.60	0.634	2.00	98.5	90 - 110	X349277 - X3L0139-03	08-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.62	0.634	4.00	99.6	90 - 110	X349277 - X3L0139-03	08-Dec-23	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	101	90 - 110	X349277 - X3L0139-03	08-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	31.7	21.8	10.0	98.8	90 - 110	X349277 - X3L0139-03	08-Dec-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	20.2	20.1	20.0	0.2	20	100	X350051 - X3L0112-01	
EPA 200.7	Magnesium	mg/L	20.7	20.5	20.0	0.8	20	103	X350051 - X3L0112-01	
EPA 200.7	Potassium	mg/L	19.6	19.6	20.0	0.0	20	98.2	X350051 - X3L0112-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.934	0.912	1.00	2.4	20	93.4	X350003 - X3L0139-01	
EPA 200.7	Barium	mg/L	1.00	1.02	1.00	2.3	20	98.8	X350003 - X3L0139-01	
EPA 200.7	Beryllium	mg/L	0.938	0.920	1.00	1.9	20	93.8	X350003 - X3L0139-01	
EPA 200.7	Boron	mg/L	1.05	1.03	1.00	2.0	20	98.5	X350003 - X3L0139-01	
EPA 200.7	Cadmium	mg/L	0.917	0.904	1.00	1.4	20	91.7	X350003 - X3L0139-01	
EPA 200.7	Calcium	mg/L	362	366	20.0	1.2	20	70.5	X350003 - X3L0139-01	
EPA 200.7	Chromium	mg/L	0.953	0.938	1.00	1.6	20	95.3	X350003 - X3L0139-01	
EPA 200.7	Cobalt	mg/L	0.933	0.917	1.00	1.7	20	90.3	X350003 - X3L0139-01	
EPA 200.7	Copper	mg/L	0.969	0.954	1.00	1.6	20	96.9	X350003 - X3L0139-01	
EPA 200.7	Iron	mg/L	9.70	9.95	10.0	2.6	20	97.0	X350003 - X3L0139-01	
EPA 200.7	Lead	mg/L	0.914	0.903	1.00	1.2	20	91.4	X350003 - X3L0139-01	
EPA 200.7	Lithium	mg/L	1.07	1.09	1.00	2.2	20	88.2	X350003 - X3L0139-01	
EPA 200.7	Magnesium	mg/L	86.2	87.9	20.0	1.9	20	100	X350003 - X3L0139-01	
EPA 200.7	Manganese	mg/L	8.89	8.66	1.00	2.6	20	123	X350003 - X3L0139-01	
EPA 200.7	Molybdenum	mg/L	0.979	0.963	1.00	1.7	20	96.1	X350003 - X3L0139-01	
EPA 200.7	Nickel	mg/L	0.896	0.883	1.00	1.4	20	89.6	X350003 - X3L0139-01	
EPA 200.7	Potassium	mg/L	27.8	28.3	20.0	2.0	20	101	X350003 - X3L0139-01	
EPA 200.7	Silver	mg/L	0.0370	0.0366	0.0500	1.0	20	74.0	X350003 - X3L0139-01	
EPA 200.7	Sodium	mg/L	103	104	19.0	1.3	20	88.7	X350003 - X3L0139-01	

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Vanadium	mg/L	0.977	0.962	1.00	1.6	20	97.7	X350003 - X3L0139-01	
EPA 200.7	Zinc	mg/L	1.01	0.997	1.00	1.5	20	99.2	X350003 - X3L0139-01	
EPA 200.8	Antimony	mg/L	0.0276	0.0262	0.0250	5.2	20	110	X350189 - X3L0142-01	
EPA 200.8	Arsenic	mg/L	0.0637	0.0611	0.0250	4.1	20	109	X350189 - X3L0142-01	
EPA 200.8	Selenium	mg/L	0.0313	0.0301	0.0250	3.7	20	125	X350189 - X3L0142-01	
EPA 200.8	Thallium	mg/L	0.0247	0.0239	0.0250	3.5	20	98.9	X350189 - X3L0142-01	
EPA 200.8	Uranium	mg/L	0.0275	0.0267	0.0250	3.1	20	98.2	X350189 - X3L0142-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00188	0.00186	0.00200	0.8	20	93.8	X350014 - X3L0112-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.105	0.100	5.9	11	99.0	X351195 - X3L0112-05	
EPA 335.4	Cyanide (total)	mg/L	0.0989	0.107	0.100	7.9	20	98.9	X350032 - X3L0112-01	
EPA 350.1	Ammonia as N	mg/L	0.995	1.01	1.00	1.9	20	97.0	X350169 - X3L0139-02	
OIA 1677	Cyanide (WAD)	mg/L	0.0710	0.0570	0.100	21.9	11	70.0	X350055 - X3K0428-01	M2,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.120	0.118	0.100	1.7	11	120	X350217 - X3L0078-06	M1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.77	4.74	3.00	0.7	20	102	X349277 - X3L0139-03	
EPA 300.0	Fluoride	mg/L	2.20	2.18	2.00	0.6	20	98.9	X349277 - X3L0139-03	
EPA 300.0	Nitrate as N	mg/L	2.62	2.60	2.00	0.7	20	99.4	X349277 - X3L0139-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.65	4.62	4.00	0.7	20	100	X349277 - X3L0139-03	
EPA 300.0	Nitrite as N	mg/L	2.03	2.01	2.00	0.7	20	101	X349277 - X3L0139-03	
EPA 300.0	Sulfate as SO4	mg/L	31.8	31.7	10.0	0.3	20	99.6	X349277 - X3L0139-03	

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X350051	13-Dec-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X350051	13-Dec-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X350051	13-Dec-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X349219	12-Dec-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X349219	12-Dec-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X349219	12-Dec-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X349219	12-Dec-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X349219	12-Dec-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X349219	12-Dec-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X349219	12-Dec-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X349219	12-Dec-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X349219	12-Dec-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X349219	12-Dec-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X349219	12-Dec-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X349219	12-Dec-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X349219	12-Dec-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X349219	12-Dec-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X349219	12-Dec-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X349219	12-Dec-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X349219	12-Dec-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X349219	12-Dec-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X349219	12-Dec-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X349219	12-Dec-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X349219	12-Dec-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X349242	04-Jan-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X349242	04-Jan-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X349242	04-Jan-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X349242	04-Jan-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X349242	04-Jan-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X350014	14-Dec-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X349202	07-Dec-23	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X351195	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X350032	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X350167	15-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X350055	13-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X350217	21-Dec-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X350025	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X349222	09-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X349223	11-Dec-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X349187	07-Dec-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X349187	07-Dec-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X349187	07-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X349187	07-Dec-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X349187	07-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X349187	07-Dec-23	

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X350051	13-Dec-23	
EPA 200.7	Magnesium	mg/L	20.3	20.0	101	85 - 115	X350051	13-Dec-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.9	85 - 115	X350051	13-Dec-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.942	1.00	94.2	85 - 115	X349219	12-Dec-23	
EPA 200.7	Barium	mg/L	0.991	1.00	99.1	85 - 115	X349219	12-Dec-23	
EPA 200.7	Beryllium	mg/L	0.917	1.00	91.7	85 - 115	X349219	12-Dec-23	
EPA 200.7	Boron	mg/L	0.950	1.00	95.0	85 - 115	X349219	12-Dec-23	
EPA 200.7	Cadmium	mg/L	0.948	1.00	94.8	85 - 115	X349219	12-Dec-23	
EPA 200.7	Calcium	mg/L	19.1	20.0	95.4	85 - 115	X349219	12-Dec-23	
EPA 200.7	Chromium	mg/L	0.955	1.00	95.5	85 - 115	X349219	12-Dec-23	
EPA 200.7	Cobalt	mg/L	0.929	1.00	92.9	85 - 115	X349219	12-Dec-23	
EPA 200.7	Copper	mg/L	0.934	1.00	93.4	85 - 115	X349219	12-Dec-23	
EPA 200.7	Iron	mg/L	9.76	10.0	97.6	85 - 115	X349219	12-Dec-23	
EPA 200.7	Lead	mg/L	0.936	1.00	93.6	85 - 115	X349219	12-Dec-23	
EPA 200.7	Lithium	mg/L	0.948	1.00	94.8	85 - 115	X349219	12-Dec-23	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.5	85 - 115	X349219	12-Dec-23	
EPA 200.7	Manganese	mg/L	0.953	1.00	95.3	85 - 115	X349219	12-Dec-23	
EPA 200.7	Molybdenum	mg/L	0.939	1.00	93.9	85 - 115	X349219	12-Dec-23	
EPA 200.7	Nickel	mg/L	0.928	1.00	92.8	85 - 115	X349219	12-Dec-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.0	85 - 115	X349219	12-Dec-23	
EPA 200.7	Silver	mg/L	0.0492	0.0500	98.5	85 - 115	X349219	12-Dec-23	
EPA 200.7	Sodium	mg/L	18.4	19.0	97.0	85 - 115	X349219	12-Dec-23	
EPA 200.7	Vanadium	mg/L	0.963	1.00	96.3	85 - 115	X349219	12-Dec-23	
EPA 200.7	Zinc	mg/L	0.967	1.00	96.7	85 - 115	X349219	12-Dec-23	
EPA 200.8	Antimony	mg/L	0.0240	0.0250	95.9	85 - 115	X349242	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.2	85 - 115	X349242	04-Jan-24	
EPA 200.8	Selenium	mg/L	0.0213	0.0250	85.3	85 - 115	X349242	04-Jan-24	
EPA 200.8	Thallium	mg/L	0.0261	0.0250	105	85 - 115	X349242	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0267	0.0250	107	85 - 115	X349242	04-Jan-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00186	0.00200	93.0	85 - 115	X350014	14-Dec-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0900	0.100	90.0	90 - 110	X349202	07-Dec-23	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X351195	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X350032	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	0.911	1.00	91.1	90 - 110	X350167	15-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X350055	14-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X350217	21-Dec-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1610	1640	98.2	95.4 - 104	X350025	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	96.4 - 105	X349290	08-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.9	99.3	101	96.4 - 105	X349290	08-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X349223	11-Dec-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.07	3.00	102	90 - 110	X349187	07-Dec-23	
EPA 300.0	Fluoride	mg/L	2.04	2.00	102	90 - 110	X349187	07-Dec-23	
EPA 300.0	Nitrate as N	mg/L	2.02	2.00	101	90 - 110	X349187	07-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.61	4.50	102	90 - 110	X349187	07-Dec-23	
EPA 300.0	Nitrite as N	mg/L	2.59	2.50	104	90 - 110	X349187	07-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X349187	07-Dec-23	

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X350025 - X3L0053-01	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	153	153	0.2	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	153	153	0.2	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X349290 - X3L0112-02	08-Dec-23	
SM 2540 C	Total Diss. Solids	mg/L	156	166	6.2	10	X349222 - X3L0113-02	09-Dec-23	
SM 2540 C	Total Diss. Solids	mg/L	265	239	10.3	10	X349222 - X3L0112-03	09-Dec-23	R2B
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X349223 - X3L0136-01	11-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	6.0	<5.0	<RL	10	X349223 - X3L0112-03	11-Dec-23	R2B
SM 4500 H B	pH @19.1°C	pH Units	7.6	7.6	0.1	20	X349290 - X3L0112-02	08-Dec-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	20.1	0.116	20.0	100	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Calcium	mg/L	526	522	20.0	0.30R>S	70 - 130	X350051 - X3L0112-05	13-Dec-23	D2,M4
EPA 200.7	Magnesium	mg/L	20.5	<0.500	20.0	103	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Magnesium	mg/L	418	443	20.0	0.30R>S	70 - 130	X350051 - X3L0112-05	13-Dec-23	D1,M4
EPA 200.7	Potassium	mg/L	19.6	<0.50	20.0	98.1	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Potassium	mg/L	26.2	7.44	20.0	93.7	70 - 130	X350051 - X3L0112-05	13-Dec-23	D1
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.784	<0.080	1.00	78.4	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Barium	mg/L	1.02	0.0303	1.00	99.3	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Beryllium	mg/L	0.892	<0.00200	1.00	89.2	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Boron	mg/L	1.03	0.0591	1.00	97.1	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Cadmium	mg/L	0.939	<0.0020	1.00	93.9	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Calcium	mg/L	208	188	20.0	99.7	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Chromium	mg/L	0.952	<0.0060	1.00	95.2	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Cobalt	mg/L	0.920	<0.0060	1.00	92.0	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Copper	mg/L	0.952	<0.0100	1.00	94.9	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Iron	mg/L	9.72	<0.100	10.0	97.2	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Lead	mg/L	0.927	<0.0075	1.00	92.7	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Lithium	mg/L	1.04	0.057	1.00	98.1	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Magnesium	mg/L	39.8	19.7	20.0	101	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Manganese	mg/L	1.20	0.250	1.00	94.9	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Molybdenum	mg/L	0.918	<0.0080	1.00	91.8	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Nickel	mg/L	0.913	<0.0100	1.00	91.3	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Potassium	mg/L	23.3	3.48	20.0	99.2	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Silver	mg/L	0.0507	<0.0050	0.0500	101	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Sodium	mg/L	71.2	52.7	19.0	97.4	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Vanadium	mg/L	0.978	<0.0050	1.00	97.5	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Zinc	mg/L	0.997	0.0124	1.00	98.5	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.8	Antimony	mg/L	0.0267	<0.00100	0.0250	107	70 - 130	X349242 - X3L0087-01	04-Jan-24	
EPA 200.8	Antimony	mg/L	0.0285	<0.00100	0.0250	114	70 - 130	X349242 - X3L0089-02	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0284	<0.00100	0.0250	114	70 - 130	X349242 - X3L0087-01	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0311	<0.00100	0.0250	123	70 - 130	X349242 - X3L0089-02	04-Jan-24	
EPA 200.8	Selenium	mg/L	0.0294	<0.00100	0.0250	118	70 - 130	X349242 - X3L0087-01	04-Jan-24	

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Selenium	mg/L	0.0316	<0.00100	0.0250	126	70 - 130	X349242 - X3L0089-02	04-Jan-24	
EPA 200.8	Thallium	mg/L	0.0262	<0.000200	0.0250	105	70 - 130	X349242 - X3L0087-01	04-Jan-24	
EPA 200.8	Thallium	mg/L	0.0278	<0.000200	0.0250	111	70 - 130	X349242 - X3L0089-02	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0243	<0.000100	0.0250	97.0	70 - 130	X349242 - X3L0087-01	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0263	<0.000100	0.0250	105	70 - 130	X349242 - X3L0089-02	04-Jan-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00186	<0.000200	0.00200	93.1	70 - 130	X350014 - X3L0112-01	14-Dec-23	
EPA 245.1	Mercury	mg/L	0.00181	<0.000200	0.00200	90.5	70 - 130	X350014 - X3L0146-01	14-Dec-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0830	<0.0050	0.100	83.0	79 - 121	X349202 - X3L0078-01	07-Dec-23	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	<0.0050	0.100	105	79 - 121	X351195 - X3L0112-05	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	0.107	<0.0050	0.100	107	90 - 110	X350032 - X3L0112-01	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	1.15	0.287	1.00	86.2	90 - 110	X350167 - X3L0113-01	15-Dec-23	M2
EPA 350.1	Ammonia as N	mg/L	0.902	<0.030	1.00	90.2	90 - 110	X350167 - X3L0113-02	15-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0570	<0.0050	0.100	56.0	82 - 118	X350055 - X3K0428-01	13-Dec-23	M2,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.118	<0.0050	0.100	118	82 - 118	X350217 - X3L0078-06	21-Dec-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	23.7	21.4	3.00	0.30R>S	90 - 110	X349187 - X3L0071-03	07-Dec-23	D2,M4
EPA 300.0	Chloride	mg/L	3.03	<0.20	3.00	97.9	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Fluoride	mg/L	2.05	<0.100	2.00	101	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	99.4	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Nitrate as N	mg/L	2.21	0.205	2.00	100	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Nitrate as N	mg/L	1.96	<0.050	2.00	96.1	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.33	0.212	4.00	103	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.02	<0.100	4.00	99.3	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Nitrite as N	mg/L	2.13	<0.050	2.00	106	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	36.4	25.7	10.0	107	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	11.5	1.25	10.0	103	90 - 110	X349187 - X3L0112-01	08-Dec-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	20.2	20.1	20.0	0.2	20	100	X350051 - X3L0112-01	
EPA 200.7	Magnesium	mg/L	20.7	20.5	20.0	0.8	20	103	X350051 - X3L0112-01	
EPA 200.7	Potassium	mg/L	19.6	19.6	20.0	0.0	20	98.2	X350051 - X3L0112-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.803	0.784	1.00	2.3	20	80.3	X349219 - X3L0078-02	
EPA 200.7	Barium	mg/L	1.05	1.02	1.00	2.9	20	102	X349219 - X3L0078-02	
EPA 200.7	Beryllium	mg/L	0.910	0.892	1.00	2.1	20	91.0	X349219 - X3L0078-02	
EPA 200.7	Boron	mg/L	1.05	1.03	1.00	2.2	20	99.4	X349219 - X3L0078-02	
EPA 200.7	Cadmium	mg/L	0.964	0.939	1.00	2.7	20	96.4	X349219 - X3L0078-02	
EPA 200.7	Calcium	mg/L	209	208	20.0	0.5	20	105	X349219 - X3L0078-02	
EPA 200.7	Chromium	mg/L	0.976	0.952	1.00	2.4	20	97.6	X349219 - X3L0078-02	
EPA 200.7	Cobalt	mg/L	0.946	0.920	1.00	2.7	20	94.6	X349219 - X3L0078-02	

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Copper	mg/L	0.971	0.952	1.00	2.0	20	96.8	X349219 - X3L0078-02	
EPA 200.7	Iron	mg/L	10.0	9.72	10.0	2.9	20	100	X349219 - X3L0078-02	
EPA 200.7	Lead	mg/L	0.959	0.927	1.00	3.4	20	95.9	X349219 - X3L0078-02	
EPA 200.7	Lithium	mg/L	1.06	1.04	1.00	2.5	20	101	X349219 - X3L0078-02	
EPA 200.7	Magnesium	mg/L	40.7	39.8	20.0	2.3	20	105	X349219 - X3L0078-02	
EPA 200.7	Manganese	mg/L	1.22	1.20	1.00	2.1	20	97.4	X349219 - X3L0078-02	
EPA 200.7	Molybdenum	mg/L	0.943	0.918	1.00	2.7	20	94.3	X349219 - X3L0078-02	
EPA 200.7	Nickel	mg/L	0.940	0.913	1.00	3.0	20	94.0	X349219 - X3L0078-02	
EPA 200.7	Potassium	mg/L	24.0	23.3	20.0	2.7	20	102	X349219 - X3L0078-02	
EPA 200.7	Silver	mg/L	0.0518	0.0507	0.0500	2.2	20	104	X349219 - X3L0078-02	
EPA 200.7	Sodium	mg/L	71.9	71.2	19.0	1.0	20	101	X349219 - X3L0078-02	
EPA 200.7	Vanadium	mg/L	1.00	0.978	1.00	2.3	20	99.8	X349219 - X3L0078-02	
EPA 200.7	Zinc	mg/L	1.02	0.997	1.00	2.5	20	101	X349219 - X3L0078-02	
EPA 200.8	Antimony	mg/L	0.0273	0.0267	0.0250	2.2	20	109	X349242 - X3L0087-01	
EPA 200.8	Arsenic	mg/L	0.0295	0.0284	0.0250	3.7	20	118	X349242 - X3L0087-01	
EPA 200.8	Selenium	mg/L	0.0296	0.0294	0.0250	0.7	20	118	X349242 - X3L0087-01	
EPA 200.8	Thallium	mg/L	0.0266	0.0262	0.0250	1.6	20	106	X349242 - X3L0087-01	
EPA 200.8	Uranium	mg/L	0.0249	0.0243	0.0250	2.6	20	99.5	X349242 - X3L0087-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00188	0.00186	0.00200	0.8	20	93.8	X350014 - X3L0112-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0820	0.0830	0.100	1.2	11	82.0	X349202 - X3L0078-01	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.105	0.100	5.9	11	99.0	X351195 - X3L0112-05	
EPA 335.4	Cyanide (total)	mg/L	0.0989	0.107	0.100	7.9	20	98.9	X350032 - X3L0112-01	
EPA 350.1	Ammonia as N	mg/L	1.15	1.15	1.00	0.5	20	86.7	X350167 - X3L0113-01	M2
OIA 1677	Cyanide (WAD)	mg/L	0.0710	0.0570	0.100	21.9	11	70.0	X350055 - X3K0428-01	M2,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.120	0.118	0.100	1.7	11	120	X350217 - X3L0078-06	M1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	24.1	23.7	3.00	1.5	20	90.1	X349187 - X3L0071-03	D2
EPA 300.0	Fluoride	mg/L	1.99	2.05	2.00	2.8	20	98.1	X349187 - X3L0071-03	
EPA 300.0	Nitrate as N	mg/L	2.15	2.21	2.00	2.3	20	97.5	X349187 - X3L0071-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.19	4.33	4.00	3.2	20	99.6	X349187 - X3L0071-03	
EPA 300.0	Nitrite as N	mg/L	2.04	2.13	2.00	4.1	20	102	X349187 - X3L0071-03	
EPA 300.0	Sulfate as SO4	mg/L	36.0	36.4	10.0	1.2	20	102	X349187 - X3L0071-03	

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
E12	The reported value is estimated due to the presence of interferents.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Client Sample ID: **GVMW-25**
SVL Sample ID: **X3L0112-05 (Ground Water)**

Sampled: 06-Dec-23 13:13
Received: 07-Dec-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	522	mg/L	1.00	0.690	10	X350051	JRR	12/13/23 09:47	D2,M4
EPA 200.7	**Magnesium**	443	mg/L	5.00	0.900	10	X350051	JRR	12/13/23 09:47	D1,M4
EPA 200.7	**Potassium**	7.44	mg/L	5.00	1.80	10	X350051	JRR	12/13/23 09:47	D1
SM 2340 B	**Hardness (as CaCO3)**	3130	mg/L	23.1	5.43		N/A		12/12/23 15:35	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	820	mg/L	0.080	0.054		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Barium**	0.0186	mg/L	0.0020	0.0019		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Beryllium**	0.492	mg/L	0.00200	0.00080		X349219	JRR	12/12/23 15:35	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Cadmium**	1.56	mg/L	0.0020	0.0016		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Calcium**	509	mg/L	0.100	0.069		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Chromium**	0.0884	mg/L	0.0060	0.0020		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Cobalt**	2.04	mg/L	0.0060	0.0046		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Copper**	3.20	mg/L	0.0100	0.0027		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Iron**	1.37	mg/L	0.100	0.056		X349219	JRR	12/12/23 15:35	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Lithium**	0.280	mg/L	0.040	0.025		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Magnesium**	437	mg/L	0.500	0.090		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Manganese**	230	mg/L	0.0840	0.0357	10.5	X349219	JRR	12/12/23 15:43	D2
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Nickel**	2.52	mg/L	0.0100	0.0048		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Potassium**	7.66	mg/L	0.50	0.18		X349219	JRR	12/12/23 15:35	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Sodium**	44.9	mg/L	0.50	0.12		X349219	JRR	12/12/23 15:35	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X349219	JRR	12/12/23 15:35	
EPA 200.7	**Zinc**	71.8	mg/L	0.105	0.0567	10.5	X349219	JRR	12/12/23 15:43	D2
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X349242	SMU	01/04/24 13:33	D1
EPA 200.8	**Arsenic**	0.318	mg/L	0.0100	0.00210	10	X349242	SMU	01/04/24 13:33	D1
EPA 200.8	**Selenium**	0.0202	mg/L	0.0100	0.00240	10	X349242	SMU	01/04/24 13:33	D1
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X349242	SMU	01/04/24 13:33	D1
EPA 200.8	**Uranium**	2.82	mg/L	0.00100	0.000520	10	X349242	SMU	01/04/24 13:33	D2
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X350014	MAC	12/14/23 12:52	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0500	mg/L	0.0500	0.0480	10	X351195	DD	12/22/23 12:28	D1,E12,H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X350032	DD	12/12/23 14:41	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X350167	DD	12/15/23 13:07	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X350217	DD	12/21/23 18:59	D1,E12,H1,Q12
SM 2310 B	**Acidity to pH 8.3**	6130	mg/L as CaCO3	10.0			X350025	MWD	12/11/23 11:03	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:08	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:08	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:08	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:08	
SM 2540 C	**Total Diss. Solids**	11900	mg/L	100			X349222	TJL	12/09/23 11:30	D2
SM 2540 D	**Total Susp. Solids**	71.0	mg/L	5.0			X349223	TJL	12/11/23 15:25	
SM 4500 H B	**pH @18.9°C**	3.6	pH Units				X349290	MWD	12/08/23 18:08	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Client Sample ID: **GVMW-25**
SVL Sample ID: **X3L0112-05 (Ground Water)**

Sampled: 06-Dec-23 13:13
Received: 07-Dec-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	22.7	mg/L	2.00	0.22	10	X349187	RS	12/08/23 02:49	D2
EPA 300.0	**Fluoride**	70.0	mg/L	25.0	4.25	250	X349187	RS	12/08/23 13:38	D2
EPA 300.0	**Nitrate as N**	3.55	mg/L	0.500	0.130	10	X349187	RS	12/08/23 02:49	D1,E12
EPA 300.0	**Nitrate+Nitrite as N**	3.55	mg/L	1.00	0.440	10	X349187	RS	12/08/23 02:49	D1
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X349187	RS	12/08/23 02:49	D1
EPA 300.0	**Sulfate as SO4**	8850	mg/L	75.0	45.0	250	X349187	RS	12/08/23 03:05	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 186 meq/L Anion Sum: 189 meq/L C/A Balance: -0.73 % Calculated TDS: 9966 TDS/cTDS: 1.19

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Client Sample ID: **GVMW-26A**
SVL Sample ID: **X3L0139-02 (Ground Water)**

Sampled: 07-Dec-23 12:17
Received: 08-Dec-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	30.0	mg/L	0.100	0.069		X350051	JRR	12/13/23 09:59	
EPA 200.7	**Magnesium**	7.40	mg/L	0.500	0.090		X350051	JRR	12/13/23 09:59	
EPA 200.7	**Potassium**	0.93	mg/L	0.50	0.18		X350051	JRR	12/13/23 09:59	
SM 2340 B	**Hardness (as CaCO3)**	103	mg/L	2.31	0.543		N/A		12/15/23 09:22	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X350003	JRR	12/15/23 09:22	
EPA 200.7	**Barium**	0.198	mg/L	0.0020	0.0019		X350003	JRR	12/15/23 09:22	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X350003	JRR	12/15/23 09:22	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X350003	JRR	12/15/23 09:22	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X350003	JRR	12/15/23 09:22	
EPA 200.7	**Calcium**	28.9	mg/L	0.100	0.069		X350003	JRR	12/15/23 09:22	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X350003	JRR	12/15/23 09:22	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X350003	JRR	12/15/23 09:22	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X350003	JRR	12/15/23 09:22	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X350003	JRR	12/15/23 09:22	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X350003	JRR	12/15/23 09:22	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X350003	JRR	12/15/23 09:22	
EPA 200.7	**Magnesium**	6.77	mg/L	0.500	0.090		X350003	JRR	12/15/23 09:22	
EPA 200.7	**Manganese**	0.0086	mg/L	0.0080	0.0034		X350003	JRR	12/15/23 09:22	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X350003	JRR	12/15/23 09:22	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X350003	JRR	12/15/23 09:22	
EPA 200.7	**Potassium**	0.96	mg/L	0.50	0.18		X350003	JRR	12/15/23 09:22	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X350003	JRR	12/15/23 09:22	
EPA 200.7	**Sodium**	31.2	mg/L	0.50	0.12		X350003	JRR	12/15/23 09:22	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X350003	JRR	12/15/23 09:22	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X350003	JRR	12/15/23 09:22	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X350189	SMU	01/04/24 10:44	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X350189	SMU	01/04/24 10:44	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X350189	SMU	01/04/24 14:49	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X350189	SMU	01/04/24 10:44	
EPA 200.8	**Uranium**	0.00318	mg/L	0.000100	0.000052		X350189	SMU	01/04/24 10:44	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X350014	MAC	12/14/23 13:02	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X351195	DD	12/22/23 12:34	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X350032	DD	12/12/23 14:49	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X350169	DD	12/21/23 13:08	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X350055	DD	12/14/23 11:41	
SM 2310 B	**Acidity to pH 8.3**	-152	mg/L as CaCO3	10.0			X350024	MWD	12/11/23 10:59	
SM 2320 B	**Total Alkalinity**	158	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:25	
SM 2320 B	**Bicarbonate**	158	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:25	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:25	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:25	
SM 2540 C	**Total Diss. Solids**	199	mg/L	10			X349301	TJL	12/12/23 13:55	
SM 2540 D	**Total Susp. Solids**	20.0	mg/L	5.0			X349302	TJL	12/12/23 14:30	
SM 4500 H B	**pH @18.7°C**	8.0	pH Units				X349290	MWD	12/08/23 18:25	H5

SVL holds the following certifications:
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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Client Sample ID: **GVMW-26A**
SVL Sample ID: **X3L0139-02 (Ground Water)**

Sampled: 07-Dec-23 12:17
Received: 08-Dec-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.26	mg/L	0.20	0.02		X349277	RS	12/08/23 11:17	
EPA 300.0	**Fluoride**	1.91	mg/L	0.100	0.017		X349277	RS	12/08/23 11:17	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X349277	RS	12/08/23 11:17	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X349277	RS	12/08/23 11:17	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X349277	RS	12/08/23 11:17	
EPA 300.0	**Sulfate as SO4**	12.4	mg/L	0.30	0.18		X349277	RS	12/08/23 11:17	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.40 meq/L Anion Sum: 3.55 meq/L C/A Balance: -2.27 % Calculated TDS: 179 TDS/cTDS: 1.11

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X3L0139-03 (Ground Water)**

Sampled: 07-Dec-23 12:55
Received: 08-Dec-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	11.3	mg/L	0.100	0.069		X350051	JRR	12/13/23 10:12	
EPA 200.7	**Magnesium**	2.47	mg/L	0.500	0.090		X350051	JRR	12/13/23 10:12	
EPA 200.7	**Potassium**	0.77	mg/L	0.50	0.18		X350051	JRR	12/13/23 10:12	
SM 2340 B	**Hardness (as CaCO3)**	38.3	mg/L	2.31	0.543		N/A		12/15/23 09:25	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X350003	JRR	12/15/23 09:25	
EPA 200.7	**Barium**	0.117	mg/L	0.0020	0.0019		X350003	JRR	12/15/23 09:25	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X350003	JRR	12/15/23 09:25	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X350003	JRR	12/15/23 09:25	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X350003	JRR	12/15/23 09:25	
EPA 200.7	**Calcium**	11.1	mg/L	0.100	0.069		X350003	JRR	12/15/23 09:25	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X350003	JRR	12/15/23 09:25	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X350003	JRR	12/15/23 09:25	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X350003	JRR	12/15/23 09:25	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X350003	JRR	12/15/23 09:25	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X350003	JRR	12/15/23 09:25	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X350003	JRR	12/15/23 09:25	
EPA 200.7	**Magnesium**	2.31	mg/L	0.500	0.090		X350003	JRR	12/15/23 09:25	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X350003	JRR	12/15/23 09:25	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X350003	JRR	12/15/23 09:25	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X350003	JRR	12/15/23 09:25	
EPA 200.7	**Potassium**	0.76	mg/L	0.50	0.18		X350003	JRR	12/15/23 09:25	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X350003	JRR	12/15/23 09:25	
EPA 200.7	**Sodium**	10.0	mg/L	0.50	0.12		X350003	JRR	12/15/23 09:25	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X350003	JRR	12/15/23 09:25	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X350003	JRR	12/15/23 09:25	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X350189	SMU	01/04/24 10:47	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X350189	SMU	01/04/24 10:47	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X350189	SMU	01/04/24 14:50	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X350189	SMU	01/04/24 10:47	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X350189	SMU	01/04/24 10:47	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X350014	MAC	12/14/23 13:05	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X351195	DD	12/22/23 12:36	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X350032	DD	12/12/23 14:51	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X350169	DD	12/21/23 13:11	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X350055	DD	12/14/23 11:43	
SM 2310 B	**Acidity to pH 8.3**	-40.3	mg/L as CaCO3	10.0			X350024	MWD	12/11/23 10:59	
SM 2320 B	**Total Alkalinity**	37.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:30	
SM 2320 B	**Bicarbonate**	37.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:30	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:30	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:30	
SM 2540 C	**Total Diss. Solids**	137	mg/L	10			X349301	TJL	12/12/23 13:55	
SM 2540 D	**Total Susp. Solids**	13.0	mg/L	5.0			X349302	TJL	12/12/23 14:30	
SM 4500 H B	**pH @18.9°C**	6.7	pH Units				X349290	MWD	12/08/23 18:30	H5

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X3L0139-03 (Ground Water)**

Sampled: 07-Dec-23 12:55
Received: 08-Dec-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.72	mg/L	0.20	0.02		X349277	RS	12/08/23 11:51	
EPA 300.0	**Fluoride**	0.218	mg/L	0.100	0.017		X349277	RS	12/08/23 11:51	
EPA 300.0	**Nitrate as N**	0.634	mg/L	0.050	0.013		X349277	RS	12/08/23 11:51	
EPA 300.0	**Nitrate+Nitrite as N**	0.634	mg/L	0.100	0.044		X349277	RS	12/08/23 11:51	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X349277	RS	12/08/23 11:51	
EPA 300.0	**Sulfate as SO4**	21.8	mg/L	0.30	0.18		X349277	RS	12/08/23 11:51	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 1.21 meq/L Anion Sum: 1.30 meq/L C/A Balance: -3.40 % Calculated TDS: 73 TDS/cTDS: 1.87

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

SVL holds the following certifications:
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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X350051	13-Dec-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X350051	13-Dec-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X350051	13-Dec-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X350003	15-Dec-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X350003	15-Dec-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X350003	15-Dec-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X350003	15-Dec-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X350003	15-Dec-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X350003	15-Dec-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X350003	15-Dec-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X350003	15-Dec-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X350003	15-Dec-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X350003	15-Dec-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X350003	15-Dec-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X350003	15-Dec-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X350003	15-Dec-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X350003	15-Dec-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X350003	15-Dec-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X350003	15-Dec-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X350003	15-Dec-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X350003	15-Dec-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X350003	15-Dec-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X350003	15-Dec-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X350003	15-Dec-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X350189	04-Jan-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X350189	04-Jan-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X350189	04-Jan-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X350189	04-Jan-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X350189	04-Jan-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X350014	14-Dec-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X351195	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X350032	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X350169	21-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X350055	13-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X350217	21-Dec-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X350024	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X349301	12-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X349302	12-Dec-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X349277	08-Dec-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X349277	08-Dec-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X349277	08-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X349277	08-Dec-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X349277	08-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X349277	08-Dec-23	

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X350051	13-Dec-23	
EPA 200.7	Magnesium	mg/L	20.3	20.0	101	85 - 115	X350051	13-Dec-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.9	85 - 115	X350051	13-Dec-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.953	1.00	95.3	85 - 115	X350003	15-Dec-23	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X350003	15-Dec-23	
EPA 200.7	Beryllium	mg/L	0.983	1.00	98.3	85 - 115	X350003	15-Dec-23	
EPA 200.7	Boron	mg/L	0.969	1.00	96.9	85 - 115	X350003	15-Dec-23	
EPA 200.7	Cadmium	mg/L	0.962	1.00	96.2	85 - 115	X350003	15-Dec-23	
EPA 200.7	Calcium	mg/L	19.7	20.0	98.5	85 - 115	X350003	15-Dec-23	
EPA 200.7	Chromium	mg/L	0.981	1.00	98.1	85 - 115	X350003	15-Dec-23	
EPA 200.7	Cobalt	mg/L	0.950	1.00	95.0	85 - 115	X350003	15-Dec-23	
EPA 200.7	Copper	mg/L	0.960	1.00	96.0	85 - 115	X350003	15-Dec-23	
EPA 200.7	Iron	mg/L	10.0	10.0	100	85 - 115	X350003	15-Dec-23	
EPA 200.7	Lead	mg/L	0.958	1.00	95.8	85 - 115	X350003	15-Dec-23	
EPA 200.7	Lithium	mg/L	0.914	1.00	91.4	85 - 115	X350003	15-Dec-23	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.5	85 - 115	X350003	15-Dec-23	
EPA 200.7	Manganese	mg/L	0.980	1.00	98.0	85 - 115	X350003	15-Dec-23	
EPA 200.7	Molybdenum	mg/L	0.979	1.00	97.9	85 - 115	X350003	15-Dec-23	
EPA 200.7	Nickel	mg/L	0.950	1.00	95.0	85 - 115	X350003	15-Dec-23	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.6	85 - 115	X350003	15-Dec-23	
EPA 200.7	Silver	mg/L	0.0428	0.0500	85.7	85 - 115	X350003	15-Dec-23	
EPA 200.7	Sodium	mg/L	18.8	19.0	98.9	85 - 115	X350003	15-Dec-23	
EPA 200.7	Vanadium	mg/L	0.983	1.00	98.3	85 - 115	X350003	15-Dec-23	
EPA 200.7	Zinc	mg/L	0.997	1.00	99.7	85 - 115	X350003	15-Dec-23	
EPA 200.8	Antimony	mg/L	0.0248	0.0250	99.2	85 - 115	X350189	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0257	0.0250	103	85 - 115	X350189	04-Jan-24	
EPA 200.8	Selenium	mg/L	0.0237	0.0250	94.7	85 - 115	X350189	04-Jan-24	
EPA 200.8	Thallium	mg/L	0.0249	0.0250	99.5	85 - 115	X350189	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0245	0.0250	97.9	85 - 115	X350189	04-Jan-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00186	0.00200	93.0	85 - 115	X350014	14-Dec-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X351195	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X350032	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	1.03	1.00	103	90 - 110	X350169	21-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X350055	14-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X350217	21-Dec-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1610	1640	98.2	95.4 - 104	X350024	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	96.4 - 105	X349290	08-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.9	99.3	101	96.4 - 105	X349290	08-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X349302	12-Dec-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.92	3.00	97.4	90 - 110	X349277	08-Dec-23	
EPA 300.0	Fluoride	mg/L	1.97	2.00	98.4	90 - 110	X349277	08-Dec-23	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	98.2	90 - 110	X349277	08-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.45	4.50	98.9	90 - 110	X349277	08-Dec-23	
EPA 300.0	Nitrite as N	mg/L	2.48	2.50	99.4	90 - 110	X349277	08-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X349277	08-Dec-23	

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X350024 - X3L0133-02	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	153	153	0.2	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	153	153	0.2	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X349290 - X3L0112-02	08-Dec-23	
SM 2540 C	Total Diss. Solids	mg/L	188	199	5.7	10	X349301 - X3L0139-02	12-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	22.0	20.0	9.5	10	X349302 - X3L0139-02	12-Dec-23	
SM 4500 H B	pH @19.1°C	pH Units	7.6	7.6	0.1	20	X349290 - X3L0112-02	08-Dec-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	20.1	0.116	20.0	100	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Calcium	mg/L	526	522	20.0	0.30R>S	70 - 130	X350051 - X3L0112-05	13-Dec-23	D2,M4
EPA 200.7	Magnesium	mg/L	20.5	<0.500	20.0	103	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Magnesium	mg/L	418	443	20.0	0.30R>S	70 - 130	X350051 - X3L0112-05	13-Dec-23	D1,M4
EPA 200.7	Potassium	mg/L	19.6	<0.50	20.0	98.1	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Potassium	mg/L	26.2	7.44	20.0	93.7	70 - 130	X350051 - X3L0112-05	13-Dec-23	D1
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.912	<0.080	1.00	91.2	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Barium	mg/L	1.02	0.0122	1.00	101	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Beryllium	mg/L	0.920	<0.00200	1.00	92.0	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Boron	mg/L	1.03	0.0695	1.00	96.4	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Cadmium	mg/L	0.904	<0.0020	1.00	90.4	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Calcium	mg/L	366	347	20.0	91.9	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Chromium	mg/L	0.938	<0.0060	1.00	93.8	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Cobalt	mg/L	0.917	0.0300	1.00	88.7	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Copper	mg/L	0.954	<0.0100	1.00	95.4	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Iron	mg/L	9.95	<0.100	10.0	99.5	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Lead	mg/L	0.903	<0.0075	1.00	90.3	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Lithium	mg/L	1.09	0.185	1.00	90.5	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Magnesium	mg/L	87.9	66.2	20.0	108	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Manganese	mg/L	8.66	7.65	1.00	101	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Molybdenum	mg/L	0.963	0.0187	1.00	94.4	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Nickel	mg/L	0.883	<0.0100	1.00	88.3	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Potassium	mg/L	28.3	7.64	20.0	103	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Silver	mg/L	0.0366	<0.0050	0.0500	73.3	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Sodium	mg/L	104	85.8	19.0	95.7	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Vanadium	mg/L	0.962	<0.0050	1.00	96.2	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.7	Zinc	mg/L	0.997	0.0196	1.00	97.8	70 - 130	X350003 - X3L0139-01	15-Dec-23	
EPA 200.8	Antimony	mg/L	0.0262	<0.00100	0.0250	105	70 - 130	X350189 - X3L0142-01	04-Jan-24	
EPA 200.8	Antimony	mg/L	0.0249	<0.00100	0.0250	99.6	70 - 130	X350189 - X3L0164-02	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0611	0.0365	0.0250	98.5	70 - 130	X350189 - X3L0142-01	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X350189 - X3L0164-02	04-Jan-24	
EPA 200.8	Selenium	mg/L	0.0301	<0.00100	0.0250	121	70 - 130	X350189 - X3L0142-01	04-Jan-24	
EPA 200.8	Selenium	mg/L	0.0256	<0.00100	0.0250	103	70 - 130	X350189 - X3L0164-02	04-Jan-24	
EPA 200.8	Thallium	mg/L	0.0239	<0.000200	0.0250	95.5	70 - 130	X350189 - X3L0142-01	04-Jan-24	

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Thallium	mg/L	0.0253	<0.000200	0.0250	101	70 - 130	X350189 - X3L0164-02	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0267	0.00296	0.0250	94.9	70 - 130	X350189 - X3L0142-01	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0247	<0.000100	0.0250	99.0	70 - 130	X350189 - X3L0164-02	04-Jan-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00186	<0.000200	0.00200	93.1	70 - 130	X350014 - X3L0112-01	14-Dec-23	
EPA 245.1	Mercury	mg/L	0.00181	<0.000200	0.00200	90.5	70 - 130	X350014 - X3L0146-01	14-Dec-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	<0.0050	0.100	105	79 - 121	X351195 - X3L0112-05	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	0.107	<0.0050	0.100	107	90 - 110	X350032 - X3L0112-01	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	98.9	90 - 110	X350169 - X3L0139-02	21-Dec-23	
EPA 350.1	Ammonia as N	mg/L	0.995	<0.030	1.00	97.3	90 - 110	X350169 - X3L0139-03	21-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0570	<0.0050	0.100	56.0	82 - 118	X350055 - X3K0428-01	13-Dec-23	M2,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.118	<0.0050	0.100	118	82 - 118	X350217 - X3L0078-06	21-Dec-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.74	1.72	3.00	101	90 - 110	X349277 - X3L0139-03	08-Dec-23	
EPA 300.0	Fluoride	mg/L	2.18	0.218	2.00	98.2	90 - 110	X349277 - X3L0139-03	08-Dec-23	
EPA 300.0	Nitrate as N	mg/L	2.60	0.634	2.00	98.5	90 - 110	X349277 - X3L0139-03	08-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.62	0.634	4.00	99.6	90 - 110	X349277 - X3L0139-03	08-Dec-23	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	101	90 - 110	X349277 - X3L0139-03	08-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	31.7	21.8	10.0	98.8	90 - 110	X349277 - X3L0139-03	08-Dec-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	20.2	20.1	20.0	0.2	20	100	X350051 - X3L0112-01	
EPA 200.7	Magnesium	mg/L	20.7	20.5	20.0	0.8	20	103	X350051 - X3L0112-01	
EPA 200.7	Potassium	mg/L	19.6	19.6	20.0	0.0	20	98.2	X350051 - X3L0112-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.934	0.912	1.00	2.4	20	93.4	X350003 - X3L0139-01	
EPA 200.7	Barium	mg/L	1.00	1.02	1.00	2.3	20	98.8	X350003 - X3L0139-01	
EPA 200.7	Beryllium	mg/L	0.938	0.920	1.00	1.9	20	93.8	X350003 - X3L0139-01	
EPA 200.7	Boron	mg/L	1.05	1.03	1.00	2.0	20	98.5	X350003 - X3L0139-01	
EPA 200.7	Cadmium	mg/L	0.917	0.904	1.00	1.4	20	91.7	X350003 - X3L0139-01	
EPA 200.7	Calcium	mg/L	362	366	20.0	1.2	20	70.5	X350003 - X3L0139-01	
EPA 200.7	Chromium	mg/L	0.953	0.938	1.00	1.6	20	95.3	X350003 - X3L0139-01	
EPA 200.7	Cobalt	mg/L	0.933	0.917	1.00	1.7	20	90.3	X350003 - X3L0139-01	
EPA 200.7	Copper	mg/L	0.969	0.954	1.00	1.6	20	96.9	X350003 - X3L0139-01	
EPA 200.7	Iron	mg/L	9.70	9.95	10.0	2.6	20	97.0	X350003 - X3L0139-01	
EPA 200.7	Lead	mg/L	0.914	0.903	1.00	1.2	20	91.4	X350003 - X3L0139-01	
EPA 200.7	Lithium	mg/L	1.07	1.09	1.00	2.2	20	88.2	X350003 - X3L0139-01	
EPA 200.7	Magnesium	mg/L	86.2	87.9	20.0	1.9	20	100	X350003 - X3L0139-01	
EPA 200.7	Manganese	mg/L	8.89	8.66	1.00	2.6	20	123	X350003 - X3L0139-01	
EPA 200.7	Molybdenum	mg/L	0.979	0.963	1.00	1.7	20	96.1	X350003 - X3L0139-01	
EPA 200.7	Nickel	mg/L	0.896	0.883	1.00	1.4	20	89.6	X350003 - X3L0139-01	
EPA 200.7	Potassium	mg/L	27.8	28.3	20.0	2.0	20	101	X350003 - X3L0139-01	
EPA 200.7	Silver	mg/L	0.0370	0.0366	0.0500	1.0	20	74.0	X350003 - X3L0139-01	
EPA 200.7	Sodium	mg/L	103	104	19.0	1.3	20	88.7	X350003 - X3L0139-01	

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Vanadium	mg/L	0.977	0.962	1.00	1.6	20	97.7	X350003 - X3L0139-01	
EPA 200.7	Zinc	mg/L	1.01	0.997	1.00	1.5	20	99.2	X350003 - X3L0139-01	
EPA 200.8	Antimony	mg/L	0.0276	0.0262	0.0250	5.2	20	110	X350189 - X3L0142-01	
EPA 200.8	Arsenic	mg/L	0.0637	0.0611	0.0250	4.1	20	109	X350189 - X3L0142-01	
EPA 200.8	Selenium	mg/L	0.0313	0.0301	0.0250	3.7	20	125	X350189 - X3L0142-01	
EPA 200.8	Thallium	mg/L	0.0247	0.0239	0.0250	3.5	20	98.9	X350189 - X3L0142-01	
EPA 200.8	Uranium	mg/L	0.0275	0.0267	0.0250	3.1	20	98.2	X350189 - X3L0142-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00188	0.00186	0.00200	0.8	20	93.8	X350014 - X3L0112-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.105	0.100	5.9	11	99.0	X351195 - X3L0112-05	
EPA 335.4	Cyanide (total)	mg/L	0.0989	0.107	0.100	7.9	20	98.9	X350032 - X3L0112-01	
EPA 350.1	Ammonia as N	mg/L	0.995	1.01	1.00	1.9	20	97.0	X350169 - X3L0139-02	
OIA 1677	Cyanide (WAD)	mg/L	0.0710	0.0570	0.100	21.9	11	70.0	X350055 - X3K0428-01	M2,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.120	0.118	0.100	1.7	11	120	X350217 - X3L0078-06	M1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.77	4.74	3.00	0.7	20	102	X349277 - X3L0139-03	
EPA 300.0	Fluoride	mg/L	2.20	2.18	2.00	0.6	20	98.9	X349277 - X3L0139-03	
EPA 300.0	Nitrate as N	mg/L	2.62	2.60	2.00	0.7	20	99.4	X349277 - X3L0139-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.65	4.62	4.00	0.7	20	100	X349277 - X3L0139-03	
EPA 300.0	Nitrite as N	mg/L	2.03	2.01	2.00	0.7	20	101	X349277 - X3L0139-03	
EPA 300.0	Sulfate as SO4	mg/L	31.8	31.7	10.0	0.3	20	99.6	X349277 - X3L0139-03	

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Work Order: **X3L0139**
Reported: 05-Jan-24 12:56

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Surface Water

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Client Sample ID: **AG-2.0**
SVL Sample ID: **X3J0097-01 (Surface Water)**

Sampled: 03-Oct-23 08:20
Received: 04-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 245.1	**Mercury**	0.000108	mg/L	0.000200	0.000093		X340211	NMS	10/05/23 12:04	J
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.0345	mg/L	0.0020	0.0019		X340277	JRR	10/10/23 13:49	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X340277	JRR	10/10/23 13:49	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X340277	JRR	10/10/23 13:49	
EPA 200.7	**Calcium**	14.2	mg/L	0.100	0.069		X340277	JRR	10/10/23 13:49	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X340277	JRR	10/10/23 13:49	
EPA 200.7	**Iron**	0.631	mg/L	0.100	0.056		X340277	JRR	10/10/23 13:49	
EPA 200.7	**Magnesium**	3.10	mg/L	0.500	0.090		X340277	JRR	10/10/23 13:49	
EPA 200.7	**Manganese**	0.0490	mg/L	0.0080	0.0034		X340277	JRR	10/10/23 13:49	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X340277	JRR	10/10/23 13:49	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X340277	JRR	10/10/23 13:49	
EPA 200.7	Phosphorus	< 0.050	mg/L	0.050	0.013		X340277	JRR	10/10/23 13:49	
EPA 200.7	**Potassium**	1.64	mg/L	0.50	0.18		X340277	JRR	10/10/23 13:49	
EPA 200.7	**Sodium**	6.91	mg/L	0.50	0.12		X340277	JRR	10/10/23 13:49	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X340277	JRR	10/10/23 13:49	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X341018	SMU	10/13/23 18:18	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X341018	SMU	10/13/23 18:18	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X341018	SMU	10/13/23 18:18	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X341018	SMU	10/13/23 18:18	
EPA 200.8	**Copper**	0.00085	mg/L	0.00040	0.00036		X341018	SMU	10/13/23 18:18	
EPA 200.8	**Lead**	0.00064	mg/L	0.00020	0.00014		X341018	SMU	10/13/23 18:18	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X341018	SMU	10/13/23 18:54	
SM 2340 B	**Hardness (as CaC03)**	45.2	mg/L	2.31	0.543		N/A		10/10/23 13:49	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X340250	JRR	10/13/23 10:28	
EPA 200.7	**Barium**	0.0247	mg/L	0.0020	0.0019		X340250	JRR	10/13/23 10:28	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X340250	JRR	10/13/23 10:28	
EPA 200.7	**Calcium**	13.6	mg/L	0.100	0.069		X340250	JRR	10/13/23 10:28	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X340250	JRR	10/13/23 10:28	
EPA 200.7	**Magnesium**	2.73	mg/L	0.500	0.090		X340250	JRR	10/13/23 10:28	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X340250	JRR	10/13/23 10:28	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X340250	JRR	10/13/23 10:28	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X340250	JRR	10/13/23 10:28	
EPA 200.7	**Potassium**	1.49	mg/L	0.50	0.18		X340250	JRR	10/13/23 10:28	
EPA 200.7	**Sodium**	6.67	mg/L	0.50	0.12		X340250	JRR	10/13/23 10:28	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X340250	JRR	10/13/23 10:28	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X340135	SMU	10/12/23 12:32	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X340135	SMU	10/12/23 12:32	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X340135	SMU	10/12/23 12:32	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X340135	SMU	10/12/23 12:32	
EPA 200.8	**Copper**	0.00099	mg/L	0.00040	0.00036		X340135	SMU	10/12/23 12:32	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X340135	SMU	10/12/23 12:32	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X340135	SMU	10/12/23 12:32	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X340135	SMU	10/12/23 12:32	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X340135	SMU	10/12/23 12:32	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X340135	SMU	10/12/23 12:32	

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Client Sample ID: **AG-2.0**
SVL Sample ID: **X3J0097-01 (Surface Water)**

Sampled: 03-Oct-23 08:20
Received: 04-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341001	NMS	10/09/23 13:01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X341176	DD	10/12/23 16:38	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		10/10/23 13:49	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X340191	DD	10/06/23 14:04	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X341137	HJL	10/16/23 15:27	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X340180	HJL	10/12/23 08:42	
Hach 8167	**Total Chlorine**	0.020	mg/L	0.020			X340171	NMS	10/04/23 13:16	H5
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X340269	DD	10/06/23 14:57	
SM 2310 B	**Acidity to pH 8.3**	-21.6	mg/L as CaCO3	10.0			X340279	MWD	10/09/23 10:08	
SM 2320 B	**Total Alkalinity**	18.8	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:02	
SM 2320 B	**Bicarbonate**	18.8	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:02	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:02	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:02	
SM 2540 C	**Total Diss. Solids**	87	mg/L	10			X340178	TJL	10/09/23 14:35	
SM 2540 D	**Total Susp. Solids**	12.0	mg/L	5.0			X340179	TJL	10/09/23 16:30	
SM 4500 H B	**pH @19.7°C**	7.3	pH Units				X340215	MWD	10/05/23 12:02	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X341056	NMS	10/10/23 17:39	
SM 4500-O-G	**Dissolved Oxygen**	4.4	mg/L	0.1			X340206	TJL	10/04/23 15:30	H3,H5
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X340229	NMS	10/05/23 14:16	
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		10/12/23 12:32	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	11.2	mg/L	0.20	0.02		X340170	RS	10/04/23 16:51	
EPA 300.0	**Fluoride**	2.37	mg/L	0.100	0.017		X340170	RS	10/04/23 16:51	
EPA 300.0	**Nitrate as N**	0.070	mg/L	0.050	0.013		X340170	RS	10/04/23 16:51	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X340170	RS	10/04/23 16:51	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X340170	RS	10/04/23 16:51	
EPA 300.0	**Sulfate as SO4**	20.9	mg/L	0.30	0.18		X340170	RS	10/04/23 16:51	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.24 meq/L Anion Sum: 1.25 meq/L C/A Balance: -0.55 % Calculated TDS: 71 TDS/cTDS: 1.23

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kathryn Salter
Project Manager

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X340211	05-Oct-23	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X340277	10-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X340277	10-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X340277	10-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X340277	10-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X340277	10-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X340277	10-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X340277	10-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X340277	10-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X340277	10-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X340277	10-Oct-23	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X340277	10-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X340277	10-Oct-23	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X340277	10-Oct-23	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X340277	10-Oct-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X341018	13-Oct-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X341018	13-Oct-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X341018	13-Oct-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X341018	13-Oct-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X341018	13-Oct-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X341018	13-Oct-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X341018	13-Oct-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X340250	13-Oct-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X340250	13-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X340250	13-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X340250	13-Oct-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X340250	13-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X340250	13-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X340250	13-Oct-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X340250	13-Oct-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X340250	13-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X340250	13-Oct-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X340250	13-Oct-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X340250	13-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X340250	13-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X340250	13-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X340250	13-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X340250	13-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X340250	13-Oct-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X340250	13-Oct-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X340250	13-Oct-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X340250	13-Oct-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X340250	13-Oct-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X340135	12-Oct-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X340135	12-Oct-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X340135	12-Oct-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X340135	12-Oct-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X340135	12-Oct-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X340135	12-Oct-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X340135	12-Oct-23	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X340135	12-Oct-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X340135	12-Oct-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X340135	12-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X341001	09-Oct-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X341176	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X340191	06-Oct-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X341137	16-Oct-23	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X340180	12-Oct-23	
Hach 8167	Total Chlorine	mg/L	<0.020		0.020	X340171	04-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X340269	06-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X340279	09-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X340215	05-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X340215	05-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X340215	05-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X340215	05-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X340178	09-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X340179	09-Oct-23	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X341056	10-Oct-23	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X340229	05-Oct-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X340170	04-Oct-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X340170	04-Oct-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X340170	04-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X340170	04-Oct-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X340170	04-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X340170	04-Oct-23	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 245.1	Mercury	mg/L	0.00192	0.00200	96.1	85 - 115	X340211	05-Oct-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	1.04	1.00	104	85 - 115	X340277	10-Oct-23	
EPA 200.7	Beryllium	mg/L	1.03	1.00	103	85 - 115	X340277	10-Oct-23	
EPA 200.7	Boron	mg/L	0.964	1.00	96.4	85 - 115	X340277	10-Oct-23	
EPA 200.7	Calcium	mg/L	20.2	20.0	101	85 - 115	X340277	10-Oct-23	
EPA 200.7	Chromium	mg/L	1.05	1.00	105	85 - 115	X340277	10-Oct-23	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X340277	10-Oct-23	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X340277	10-Oct-23	
EPA 200.7	Manganese	mg/L	1.04	1.00	104	85 - 115	X340277	10-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.984	1.00	98.4	85 - 115	X340277	10-Oct-23	
EPA 200.7	Nickel	mg/L	0.986	1.00	98.6	85 - 115	X340277	10-Oct-23	
EPA 200.7	Phosphorus	mg/L	1.01	1.00	101	85 - 115	X340277	10-Oct-23	
EPA 200.7	Potassium	mg/L	20.8	20.0	104	85 - 115	X340277	10-Oct-23	
EPA 200.7	Sodium	mg/L	19.4	19.0	102	85 - 115	X340277	10-Oct-23	
EPA 200.7	Zinc	mg/L	0.996	1.00	99.6	85 - 115	X340277	10-Oct-23	
EPA 200.8	Antimony	mg/L	0.0247	0.0250	98.9	85 - 115	X341018	13-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0248	0.0250	99.0	85 - 115	X341018	13-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0243	0.0250	97.3	85 - 115	X341018	13-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)									
EPA 200.8	Chromium	mg/L	0.0260	0.0250	104	85 - 115	X341018	13-Oct-23	
EPA 200.8	Copper	mg/L	0.0259	0.0250	104	85 - 115	X341018	13-Oct-23	
EPA 200.8	Lead	mg/L	0.0239	0.0250	95.7	85 - 115	X341018	13-Oct-23	
EPA 200.8	Selenium	mg/L	0.0215	0.0250	85.9	85 - 115	X341018	13-Oct-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.987	1.00	98.7	85 - 115	X340250	13-Oct-23	
EPA 200.7	Barium	mg/L	1.00	1.00	100	85 - 115	X340250	13-Oct-23	
EPA 200.7	Beryllium	mg/L	0.940	1.00	94.0	85 - 115	X340250	13-Oct-23	
EPA 200.7	Boron	mg/L	0.914	1.00	91.4	85 - 115	X340250	13-Oct-23	
EPA 200.7	Cadmium	mg/L	0.943	1.00	94.3	85 - 115	X340250	13-Oct-23	
EPA 200.7	Calcium	mg/L	18.9	20.0	94.5	85 - 115	X340250	13-Oct-23	
EPA 200.7	Chromium	mg/L	0.942	1.00	94.2	85 - 115	X340250	13-Oct-23	
EPA 200.7	Cobalt	mg/L	0.937	1.00	93.7	85 - 115	X340250	13-Oct-23	
EPA 200.7	Copper	mg/L	0.926	1.00	92.6	85 - 115	X340250	13-Oct-23	
EPA 200.7	Iron	mg/L	9.33	10.0	93.3	85 - 115	X340250	13-Oct-23	
EPA 200.7	Lead	mg/L	0.930	1.00	93.0	85 - 115	X340250	13-Oct-23	
EPA 200.7	Lithium	mg/L	0.940	1.00	94.0	85 - 115	X340250	13-Oct-23	
EPA 200.7	Magnesium	mg/L	18.7	20.0	93.7	85 - 115	X340250	13-Oct-23	
EPA 200.7	Manganese	mg/L	0.957	1.00	95.7	85 - 115	X340250	13-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.923	1.00	92.3	85 - 115	X340250	13-Oct-23	
EPA 200.7	Nickel	mg/L	0.930	1.00	93.0	85 - 115	X340250	13-Oct-23	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.6	85 - 115	X340250	13-Oct-23	
EPA 200.7	Silver	mg/L	0.0497	0.0500	99.4	85 - 115	X340250	13-Oct-23	
EPA 200.7	Sodium	mg/L	17.9	19.0	94.3	85 - 115	X340250	13-Oct-23	
EPA 200.7	Vanadium	mg/L	0.942	1.00	94.2	85 - 115	X340250	13-Oct-23	
EPA 200.7	Zinc	mg/L	0.939	1.00	93.9	85 - 115	X340250	13-Oct-23	
EPA 200.8	Antimony	mg/L	0.0277	0.0250	111	85 - 115	X340135	12-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0283	0.0250	113	85 - 115	X340135	12-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0283	0.0250	113	85 - 115	X340135	12-Oct-23	
EPA 200.8	Chromium	mg/L	0.0275	0.0250	110	85 - 115	X340135	12-Oct-23	
EPA 200.8	Copper	mg/L	0.0276	0.0250	111	85 - 115	X340135	12-Oct-23	
EPA 200.8	Lead	mg/L	0.0256	0.0250	102	85 - 115	X340135	12-Oct-23	
EPA 200.8	Selenium	mg/L	0.0269	0.0250	108	85 - 115	X340135	13-Oct-23	
EPA 200.8	Silver	mg/L	0.0273	0.0250	109	85 - 115	X340135	12-Oct-23	
EPA 200.8	Thallium	mg/L	0.0261	0.0250	104	85 - 115	X340135	12-Oct-23	
EPA 200.8	Uranium	mg/L	0.0270	0.0250	108	85 - 115	X340135	12-Oct-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00209	0.00200	104	85 - 115	X341001	09-Oct-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.100	98.0	90 - 110	X341176	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.100	104	90 - 110	X340191	06-Oct-23	
EPA 350.1	Ammonia as N	mg/L	0.973	1.00	97.3	90 - 110	X341137	16-Oct-23	
EPA 351.2	TKN	mg/L	7.75	8.00	96.9	90 - 110	X340180	12-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X340269	06-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1390	1390	100	95.4 - 104	X340279	09-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.3	9.93	104	96.4 - 105	X340215	05-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X340215	05-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X340179	09-Oct-23	
SM 4500 S D	Sulfide	mg/L	0.538	0.500	108	85 - 115	X341056	10-Oct-23	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0914	0.100	91.4	80 - 120	X340229	05-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.8	90 - 110	X340170	04-Oct-23	
EPA 300.0	Fluoride	mg/L	2.00	2.00	100	90 - 110	X340170	04-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	100	90 - 110	X340170	04-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X340170	04-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X340170	04-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X340170	04-Oct-23	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
Hach 8167	Total Chlorine	mg/L	0.0200	0.0200	0.0	20	X340171 - X3J0097-01	04-Oct-23	H5
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X340279 - X3I0475-01	09-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	79.8	80.1	0.4	20	X340215 - X3J0097-02	05-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	79.8	80.1	0.4	20	X340215 - X3J0097-02	05-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X340215 - X3J0097-02	05-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X340215 - X3J0097-02	05-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	141	178	23.2	10	X340178 - X3J0097-02	09-Oct-23	R2B
SM 2540 C	Total Diss. Solids	mg/L	389	398	2.3	10	X340178 - X3J0106-01	09-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X340179 - X3J0106-01	09-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X340179 - X3J0097-02	09-Oct-23	
SM 4500 H B	pH @19.6°C	pH Units	7.5	7.6	1.3	20	X340215 - X3J0097-02	05-Oct-23	
SM 4500-O-G	Dissolved Oxygen	mg/L	1.1	1.2	8.7	20	X340206 - X3J0073-01	04-Oct-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00225	<0.000093	0.00200	112	70 - 130	X340211 - X3J0069-01	05-Oct-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	0.889	0.0287	1.00	86.0	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Beryllium	mg/L	0.984	<0.00200	1.00	98.4	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Boron	mg/L	0.954	0.0607	1.00	89.3	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Calcium	mg/L	576	554	20.0	110	70 - 130	X340277 - X3J0087-02	10-Oct-23	D2
EPA 200.7	Chromium	mg/L	0.982	<0.0060	1.00	98.2	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Iron	mg/L	9.59	<0.100	10.0	95.9	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Magnesium	mg/L	802	742	20.0	0.30R>S	70 - 130	X340277 - X3J0087-02	10-Oct-23	D2,M4
EPA 200.7	Manganese	mg/L	5.70	4.76	1.00	93.2	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.991	<0.0080	1.00	98.6	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Nickel	mg/L	1.28	0.364	1.00	91.3	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Phosphorus	mg/L	1.13	<0.050	1.00	113	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Potassium	mg/L	37.4	15.4	20.0	110	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Sodium	mg/L	57.1	36.7	19.0	108	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Zinc	mg/L	1.46	0.535	1.00	92.6	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.8	Antimony	mg/L	0.0255	<0.00100	0.0250	98.2	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Antimony	mg/L	0.0242	<0.00100	0.0250	96.9	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0245	<0.00100	0.0250	98.2	70 - 130	X341018 - X3J0061-01	13-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.8	Arsenic	mg/L	0.0244	<0.00100	0.0250	95.8	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0238	<0.000100	0.0250	95.1	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0230	<0.000100	0.0250	92.1	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Chromium	mg/L	0.0257	0.00121	0.0250	97.9	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Chromium	mg/L	0.0239	<0.00100	0.0250	93.2	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Copper	mg/L	0.0256	<0.00040	0.0250	101	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Copper	mg/L	0.0251	0.00091	0.0250	96.9	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Lead	mg/L	0.0239	<0.00020	0.0250	95.6	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Lead	mg/L	0.0227	<0.00020	0.0250	90.9	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Selenium	mg/L	0.0233	<0.00100	0.0250	89.3	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Selenium	mg/L	0.0220	<0.00100	0.0250	86.1	70 - 130	X341018 - X3J0142-04	13-Oct-23	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.06	<0.080	1.00	106	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Aluminum	mg/L	1.03	<0.080	1.00	103	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Barium	mg/L	1.07	0.0247	1.00	105	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Barium	mg/L	1.11	0.0587	1.00	105	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Beryllium	mg/L	0.987	<0.00200	1.00	98.7	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Beryllium	mg/L	0.993	<0.00200	1.00	99.3	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Boron	mg/L	0.965	<0.0400	1.00	96.5	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Boron	mg/L	0.965	<0.0400	1.00	96.5	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Cadmium	mg/L	0.981	<0.0020	1.00	98.1	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Cadmium	mg/L	0.968	0.0049	1.00	96.3	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Calcium	mg/L	33.4	13.6	20.0	98.9	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Calcium	mg/L	43.1	23.5	20.0	97.9	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Chromium	mg/L	0.982	<0.0060	1.00	98.2	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Cobalt	mg/L	0.982	<0.0060	1.00	98.2	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Cobalt	mg/L	0.952	<0.0060	1.00	95.2	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Copper	mg/L	0.968	<0.0100	1.00	96.8	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Copper	mg/L	0.991	<0.0100	1.00	99.1	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Iron	mg/L	9.95	<0.100	10.0	98.8	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Iron	mg/L	9.88	<0.100	10.0	97.9	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Lead	mg/L	0.968	<0.0075	1.00	96.8	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Lead	mg/L	0.959	<0.0075	1.00	95.9	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Lithium	mg/L	0.994	<0.040	1.00	99.4	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Lithium	mg/L	0.993	<0.040	1.00	99.3	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Magnesium	mg/L	22.3	2.73	20.0	98.0	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Magnesium	mg/L	26.7	7.21	20.0	97.5	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Manganese	mg/L	1.01	<0.0080	1.00	101	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Manganese	mg/L	1.14	0.119	1.00	102	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.971	<0.0080	1.00	97.1	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.950	<0.0080	1.00	95.0	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Nickel	mg/L	0.971	<0.0100	1.00	97.1	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Nickel	mg/L	0.950	<0.0100	1.00	95.0	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Potassium	mg/L	21.6	1.49	20.0	101	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Potassium	mg/L	21.6	1.38	20.0	101	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Silver	mg/L	0.0511	<0.0050	0.0500	102	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Silver	mg/L	0.0508	<0.0050	0.0500	102	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Sodium	mg/L	25.3	6.67	19.0	98.2	70 - 130	X340250 - X3J0097-01	13-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Sodium	mg/L	27.9	9.00	19.0	99.5	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Vanadium	mg/L	0.983	<0.0050	1.00	98.3	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Zinc	mg/L	0.979	<0.0100	1.00	97.9	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Zinc	mg/L	1.79	0.870	1.00	92.4	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.8	Antimony	mg/L	0.0266	<0.00100	0.0250	106	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Antimony	mg/L	0.0258	<0.00100	0.0250	103	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0273	<0.00100	0.0250	108	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0286	<0.00100	0.0250	113	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0258	<0.000100	0.0250	103	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0252	<0.000100	0.0250	101	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Chromium	mg/L	0.0255	<0.00100	0.0250	102	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Chromium	mg/L	0.0266	<0.00100	0.0250	105	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Copper	mg/L	0.0265	0.00099	0.0250	102	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Copper	mg/L	0.0306	0.00731	0.0250	93.2	70 - 130	X340135 - X3J0106-01	13-Oct-23	
EPA 200.8	Lead	mg/L	0.0239	<0.00020	0.0250	95.4	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Lead	mg/L	0.0236	<0.00020	0.0250	94.3	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Selenium	mg/L	0.0290	<0.00100	0.0250	116	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Selenium	mg/L	0.0318	0.00181	0.0250	120	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Silver	mg/L	0.0244	<0.00008	0.0250	97.6	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Silver	mg/L	0.0236	<0.00008	0.0250	94.3	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Thallium	mg/L	0.0246	<0.000200	0.0250	98.4	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Thallium	mg/L	0.0231	<0.000200	0.0250	92.5	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Uranium	mg/L	0.0257	<0.000100	0.0250	102	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Uranium	mg/L	0.0279	0.00119	0.0250	107	70 - 130	X340135 - X3J0106-01	12-Oct-23	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	107	70 - 130	X341001 - X3J0088-01	09-Oct-23	
EPA 245.1	Mercury	mg/L	0.00215	<0.000200	0.00200	107	70 - 130	X341001 - X3J0135-01	09-Oct-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0790	<0.0050	0.100	79.0	79 - 121	X341176 - X3J0097-01	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.0935	<0.0050	0.100	93.5	90 - 110	X340191 - X3I0449-01	06-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.0957	<0.0050	0.100	95.7	90 - 110	X340191 - X3I0449-02	06-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X341137 - X3J0081-01	16-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.10	0.031	1.00	107	90 - 110	X341137 - X3J0081-03	17-Oct-23	
EPA 351.2	TKN	mg/L	17.4	11.7	8.00	71.3	90 - 110	X340180 - X3I0543-01	12-Oct-23	M2
EPA 351.2	TKN	mg/L	22.3	15.3	8.00	87.2	90 - 110	X340180 - X3I0543-02	12-Oct-23	D2,M2
OIA 1677	Cyanide (WAD)	mg/L	0.100	<0.0050	0.100	100	82 - 118	X340269 - X3I0449-01	06-Oct-23	
SM 4500 S D	Sulfide	mg/L	3.28	2.28	0.200	0.30R>S	75 - 125	X341056 - X3J0187-03	10-Oct-23	D2,M4
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0230	<0.0050	0.0222	103	75 - 125	X340229 - X3I0449-03	05-Oct-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.40	0.47	3.00	97.7	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Chloride	mg/L	16.3	13.0	3.00	109	90 - 110	X340170 - X3J0096-01	06-Oct-23	D2
EPA 300.0	Fluoride	mg/L	2.16	0.173	2.00	99.6	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Fluoride	mg/L	2.12	0.145	2.00	98.9	90 - 110	X340170 - X3J0096-01	04-Oct-23	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	99.7	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.02	<0.050	2.00	99.6	90 - 110	X340170 - X3J0096-01	04-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.02	<0.100	4.00	101	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.99	<0.100	4.00	99.8	90 - 110	X340170 - X3J0096-01	04-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	102	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Nitrite as N	mg/L	1.97	<0.050	2.00	98.6	90 - 110	X340170 - X3J0096-01	04-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	20.2	10.5	10.0	97.7	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	14.5	4.28	10.0	102	90 - 110	X340170 - X3J0096-01	04-Oct-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00215	0.00225	0.00200	4.6	20	107	X340211 - X3J0069-01	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.04	0.889	1.00	16.2	20	102	X340277 - X3J0087-02	
EPA 200.7	Beryllium	mg/L	0.974	0.984	1.00	1.1	20	97.4	X340277 - X3J0087-02	
EPA 200.7	Boron	mg/L	0.944	0.954	1.00	1.0	20	88.3	X340277 - X3J0087-02	
EPA 200.7	Calcium	mg/L	578	576	20.0	0.3	20	118	X340277 - X3J0087-02	D2
EPA 200.7	Chromium	mg/L	0.986	0.982	1.00	0.4	20	98.6	X340277 - X3J0087-02	
EPA 200.7	Iron	mg/L	9.50	9.59	10.0	1.0	20	95.0	X340277 - X3J0087-02	
EPA 200.7	Magnesium	mg/L	804	802	20.0	0.3	20	0.30R>S	X340277 - X3J0087-02	D2,M4
EPA 200.7	Manganese	mg/L	5.70	5.70	1.00	0.0	20	93.1	X340277 - X3J0087-02	
EPA 200.7	Molybdenum	mg/L	0.978	0.991	1.00	1.3	20	97.3	X340277 - X3J0087-02	
EPA 200.7	Nickel	mg/L	1.27	1.28	1.00	0.2	20	91.1	X340277 - X3J0087-02	
EPA 200.7	Phosphorus	mg/L	1.11	1.13	1.00	1.8	20	111	X340277 - X3J0087-02	
EPA 200.7	Potassium	mg/L	37.4	37.4	20.0	0.0	20	110	X340277 - X3J0087-02	
EPA 200.7	Sodium	mg/L	56.7	57.1	19.0	0.8	20	105	X340277 - X3J0087-02	
EPA 200.7	Zinc	mg/L	1.46	1.46	1.00	0.4	20	92.0	X340277 - X3J0087-02	
EPA 200.8	Antimony	mg/L	0.0255	0.0255	0.0250	0.2	20	97.9	X341018 - X3J0061-01	
EPA 200.8	Arsenic	mg/L	0.0247	0.0245	0.0250	0.7	20	98.9	X341018 - X3J0061-01	
EPA 200.8	Cadmium	mg/L	0.0239	0.0238	0.0250	0.6	20	95.6	X341018 - X3J0061-01	
EPA 200.8	Chromium	mg/L	0.0263	0.0257	0.0250	2.6	20	101	X341018 - X3J0061-01	
EPA 200.8	Copper	mg/L	0.0252	0.0256	0.0250	1.5	20	99.3	X341018 - X3J0061-01	
EPA 200.8	Lead	mg/L	0.0238	0.0239	0.0250	0.4	20	95.2	X341018 - X3J0061-01	
EPA 200.8	Selenium	mg/L	0.0218	0.0233	0.0250	6.6	20	83.3	X341018 - X3J0061-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.07	1.06	1.00	0.6	20	107	X340250 - X3J0097-01	
EPA 200.7	Barium	mg/L	1.07	1.07	1.00	0.0	20	105	X340250 - X3J0097-01	
EPA 200.7	Beryllium	mg/L	0.988	0.987	1.00	0.2	20	98.8	X340250 - X3J0097-01	
EPA 200.7	Boron	mg/L	0.962	0.965	1.00	0.3	20	96.2	X340250 - X3J0097-01	
EPA 200.7	Cadmium	mg/L	0.975	0.981	1.00	0.7	20	97.5	X340250 - X3J0097-01	
EPA 200.7	Calcium	mg/L	33.3	33.4	20.0	0.3	20	98.5	X340250 - X3J0097-01	
EPA 200.7	Chromium	mg/L	0.999	0.982	1.00	1.7	20	99.9	X340250 - X3J0097-01	
EPA 200.7	Cobalt	mg/L	0.968	0.982	1.00	1.5	20	96.8	X340250 - X3J0097-01	
EPA 200.7	Copper	mg/L	0.979	0.968	1.00	1.2	20	97.9	X340250 - X3J0097-01	
EPA 200.7	Iron	mg/L	9.86	9.95	10.0	0.9	20	97.9	X340250 - X3J0097-01	
EPA 200.7	Lead	mg/L	0.965	0.968	1.00	0.4	20	96.5	X340250 - X3J0097-01	
EPA 200.7	Lithium	mg/L	1.00	0.994	1.00	0.7	20	100	X340250 - X3J0097-01	
EPA 200.7	Magnesium	mg/L	22.3	22.3	20.0	0.2	20	97.8	X340250 - X3J0097-01	
EPA 200.7	Manganese	mg/L	1.02	1.01	1.00	0.4	20	101	X340250 - X3J0097-01	
EPA 200.7	Molybdenum	mg/L	0.964	0.971	1.00	0.7	20	96.4	X340250 - X3J0097-01	
EPA 200.7	Nickel	mg/L	0.960	0.971	1.00	1.1	20	96.0	X340250 - X3J0097-01	
EPA 200.7	Potassium	mg/L	21.7	21.6	20.0	0.4	20	101	X340250 - X3J0097-01	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Silver	mg/L	0.0504	0.0511	0.0500	1.4	20	101	X340250 - X3J0097-01	
EPA 200.7	Sodium	mg/L	25.5	25.3	19.0	0.5	20	98.9	X340250 - X3J0097-01	
EPA 200.7	Vanadium	mg/L	0.992	0.983	1.00	0.9	20	99.2	X340250 - X3J0097-01	
EPA 200.7	Zinc	mg/L	0.972	0.979	1.00	0.7	20	97.2	X340250 - X3J0097-01	
EPA 200.8	Antimony	mg/L	0.0255	0.0266	0.0250	4.3	20	102	X340135 - X3J0097-01	
EPA 200.8	Arsenic	mg/L	0.0264	0.0273	0.0250	3.4	20	104	X340135 - X3J0097-01	
EPA 200.8	Cadmium	mg/L	0.0254	0.0258	0.0250	1.6	20	101	X340135 - X3J0097-01	
EPA 200.8	Chromium	mg/L	0.0250	0.0255	0.0250	2.1	20	99.9	X340135 - X3J0097-01	
EPA 200.8	Copper	mg/L	0.0258	0.0265	0.0250	2.7	20	99.3	X340135 - X3J0097-01	
EPA 200.8	Lead	mg/L	0.0237	0.0239	0.0250	0.8	20	94.6	X340135 - X3J0097-01	
EPA 200.8	Selenium	mg/L	0.0277	0.0290	0.0250	4.3	20	111	X340135 - X3J0097-01	
EPA 200.8	Silver	mg/L	0.0238	0.0244	0.0250	2.3	20	95.4	X340135 - X3J0097-01	
EPA 200.8	Thallium	mg/L	0.0245	0.0246	0.0250	0.5	20	97.9	X340135 - X3J0097-01	
EPA 200.8	Uranium	mg/L	0.0259	0.0257	0.0250	0.6	20	103	X340135 - X3J0097-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00223	0.00214	0.00200	3.7	20	111	X341001 - X3J0088-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0800	0.0790	0.100	1.3	11	80.0	X341176 - X3J0097-01	
EPA 335.4	Cyanide (total)	mg/L	0.0947	0.0935	0.100	1.3	20	94.7	X340191 - X3I0449-01	
EPA 350.1	Ammonia as N	mg/L	1.04	1.02	1.00	2.2	20	104	X341137 - X3J0081-01	
EPA 351.2	TKN	mg/L	17.7	17.4	8.00	1.7	20	75.0	X340180 - X3I0543-01	M2
OIA 1677	Cyanide (WAD)	mg/L	0.100	0.100	0.100	0.0	11	100	X340269 - X3I0449-01	
SM 4500 S D	Sulfide	mg/L	3.38	3.28	0.200	2.9	20	0.30R>S	X341056 - X3J0187-03	D2,M4
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0216	0.0230	0.0222	6.2	20	97.2	X340229 - X3I0449-03	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.46	3.40	3.00	1.5	20	99.4	X340170 - X3J0095-01	
EPA 300.0	Fluoride	mg/L	2.19	2.16	2.00	1.3	20	101	X340170 - X3J0095-01	
EPA 300.0	Nitrate as N	mg/L	2.02	1.99	2.00	1.5	20	101	X340170 - X3J0095-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	4.02	4.00	1.4	20	102	X340170 - X3J0095-01	
EPA 300.0	Nitrite as N	mg/L	2.06	2.03	2.00	1.2	20	103	X340170 - X3J0095-01	
EPA 300.0	Sulfate as SO4	mg/L	20.4	20.2	10.0	0.7	20	99.2	X340170 - X3J0095-01	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
J	The reported value is less than the Reporting Limit (MRL, CRDL) but greater than or equal to the MDL. Results closer to the MDL have increased relative uncertainty.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
U	Less than MDL.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Client Sample ID: **GV-06**
SVL Sample ID: **X3K0279-01 (Surface Water)**

Sampled: 15-Nov-23 09:50
Received: 16-Nov-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X347139	MAC	11/28/23 16:01	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.191	mg/L	0.0020	0.0019		X348073	JRR	11/30/23 11:54	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X348073	JRR	11/30/23 11:54	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X348073	JRR	11/30/23 11:54	
EPA 200.7	**Calcium**	49.2	mg/L	0.100	0.069		X348073	JRR	11/30/23 11:54	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X348073	JRR	11/30/23 11:54	
EPA 200.7	**Iron**	4.81	mg/L	0.100	0.056		X348073	JRR	11/30/23 11:54	
EPA 200.7	**Magnesium**	12.3	mg/L	0.500	0.090		X348073	JRR	11/30/23 11:54	
EPA 200.7	**Manganese**	2.24	mg/L	0.0080	0.0034		X348073	JRR	11/30/23 11:54	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X348073	JRR	11/30/23 11:54	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X348073	JRR	11/30/23 11:54	
EPA 200.7	**Phosphorus**	0.144	mg/L	0.050	0.013		X348073	JRR	11/30/23 11:54	
EPA 200.7	**Potassium**	2.18	mg/L	0.50	0.18		X348073	JRR	11/30/23 11:54	
EPA 200.7	**Sodium**	15.6	mg/L	0.50	0.12		X348073	JRR	11/30/23 11:54	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X348073	JRR	11/30/23 11:54	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X348040	DWJ	12/04/23 10:58	
EPA 200.8	**Arsenic**	0.00113	mg/L	0.00100	0.00021		X348040	DWJ	12/04/23 10:58	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X348040	DWJ	12/04/23 10:58	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X348040	DWJ	12/04/23 10:58	
EPA 200.8	**Copper**	0.00076	mg/L	0.00040	0.00036		X348040	DWJ	12/04/23 10:58	
EPA 200.8	**Lead**	0.00159	mg/L	0.00020	0.00014		X348040	DWJ	12/04/23 10:58	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X348040	DWJ	12/04/23 10:58	
SM 2340 B	**Hardness (as CaC03)**	176	mg/L	2.31	0.543		N/A		11/30/23 11:54	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X348005	JRR	11/30/23 09:02	
EPA 200.7	**Barium**	0.142	mg/L	0.0020	0.0019		X348005	JRR	11/30/23 09:02	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X348005	JRR	11/30/23 09:02	
EPA 200.7	**Calcium**	51.3	mg/L	0.100	0.069		X348005	JRR	11/30/23 09:02	
EPA 200.7	**Iron**	0.867	mg/L	0.100	0.056		X348005	JRR	11/30/23 09:02	
EPA 200.7	**Magnesium**	12.8	mg/L	0.500	0.090		X348005	JRR	11/30/23 09:02	
EPA 200.7	**Manganese**	1.59	mg/L	0.0080	0.0034		X348005	JRR	11/30/23 09:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X348005	JRR	11/30/23 09:02	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X348005	JRR	11/30/23 09:02	
EPA 200.7	**Potassium**	2.06	mg/L	0.50	0.18		X348005	JRR	11/30/23 09:02	
EPA 200.7	**Sodium**	16.5	mg/L	0.50	0.12		X348005	JRR	11/30/23 09:02	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X348005	JRR	11/30/23 09:02	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X346268	DWJ	12/12/23 11:08	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X346268	DWJ	12/12/23 11:08	
EPA 200.8	**Uranium**	0.00132	mg/L	0.000100	0.000052		X346268	DWJ	12/12/23 11:08	

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Client Sample ID: **GV-06**
SVL Sample ID: **X3K0279-01 (Surface Water)**

Sampled: 15-Nov-23 09:50
Received: 16-Nov-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X347144	MAC	11/30/23 13:14	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X347063	DD	11/21/23 15:39	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		11/30/23 11:54	
EPA 335.4	**Cyanide (total)**	0.0056	mg/L	0.0050	0.0038		X346261	DD	11/22/23 15:16	
EPA 350.1	**Ammonia as N**	0.055	mg/L	0.030	0.013		X347101	JRR	11/22/23 11:00	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X348010	HJL	11/28/23 13:25	
Hach 8167	**Total Chlorine**	0.53	mg/L	0.020			X348215	MCM	12/01/23 12:10	H5
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X347065	DD	11/29/23 12:20	
SM 2310 B	**Acidity to pH 8.3**	-124	mg/L as CaCO3	10.0			X348017	MWD	11/27/23 11:16	
SM 2320 B	**Total Alkalinity**	116	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:28	
SM 2320 B	**Bicarbonate**	116	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:28	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:28	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:28	
SM 2540 C	**Total Diss. Solids**	277	mg/L	10			X347012	TJL	11/21/23 14:30	
SM 2540 D	**Total Susp. Solids**	34.0	mg/L	5.0			X347013	TJL	11/28/23 10:45	
SM 4500 H B	**pH @19.2°C**	7.6	pH Units				X347089	MWD	11/22/23 13:28	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X346088	NMS	11/17/23 11:05	
SM 4500-O-G	**Dissolved Oxygen**	3.4	mg/L	0.1			X347106	TJL	11/21/23 16:05	H3,H5
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X348019	DD	11/28/23 19:00	
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		12/12/23 11:08	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	9.29	mg/L	0.20	0.02		X346200	KAG	11/16/23 14:36	
EPA 300.0	**Fluoride**	0.548	mg/L	0.100	0.017		X346200	KAG	11/16/23 14:36	
EPA 300.0	**Nitrate as N**	0.317	mg/L	0.050	0.013		X346200	KAG	11/16/23 14:36	
EPA 300.0	**Nitrate+Nitrite as N**	0.331	mg/L	0.100	0.044		X346200	KAG	11/16/23 14:36	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X346200	KAG	11/16/23 14:36	
EPA 300.0	**Sulfate as SO4**	88.8	mg/L	3.00	1.80	10	X346200	KAG	11/16/23 14:53	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.30 meq/L Anion Sum: 4.48 meq/L C/A Balance: -2.07 % Calculated TDS: 251 TDS/cTDS: 1.11

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X347139	28-Nov-23	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X348073	30-Nov-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X348073	30-Nov-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X348073	30-Nov-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X348073	30-Nov-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X348073	30-Nov-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X348073	30-Nov-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X348073	30-Nov-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X348073	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X348073	30-Nov-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X348073	30-Nov-23	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X348073	30-Nov-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X348073	30-Nov-23	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X348073	30-Nov-23	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X348073	30-Nov-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X348040	04-Dec-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X348040	04-Dec-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X348040	04-Dec-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X348040	04-Dec-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X348040	04-Dec-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X348040	04-Dec-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X348040	04-Dec-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X348005	30-Nov-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X348005	30-Nov-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X348005	30-Nov-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X348005	30-Nov-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X348005	30-Nov-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X348005	30-Nov-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X348005	30-Nov-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X348005	30-Nov-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X348005	30-Nov-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X348005	30-Nov-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X348005	30-Nov-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X348005	30-Nov-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X348005	30-Nov-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X348005	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X348005	30-Nov-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X348005	30-Nov-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X348005	30-Nov-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X348005	30-Nov-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X348005	30-Nov-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X348005	30-Nov-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X348005	30-Nov-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X346268	12-Dec-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X346268	12-Dec-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X346268	12-Dec-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X346268	12-Dec-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X346268	12-Dec-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X346268	12-Dec-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X346268	12-Dec-23	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X346268	12-Dec-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X346268	12-Dec-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X346268	12-Dec-23	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X347142	28-Nov-23	
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X347144	30-Nov-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X347063	21-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X346261	22-Nov-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X347101	22-Nov-23	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X348010	28-Nov-23	
Hach 8167	Total Chlorine	mg/L	<0.020		0.020	X348215	01-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X347065	29-Nov-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X348017	27-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X347089	22-Nov-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X347089	22-Nov-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X347089	22-Nov-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X347089	22-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X347012	21-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X347013	28-Nov-23	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X346088	17-Nov-23	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X348019	28-Nov-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X346200	16-Nov-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X346200	16-Nov-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X346200	16-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X346200	16-Nov-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X346200	16-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X346200	16-Nov-23	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 245.1	Mercury	mg/L	0.00196	0.00200	98.0	85 - 115	X347139	28-Nov-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	0.939	1.00	93.9	85 - 115	X348073	30-Nov-23	
EPA 200.7	Beryllium	mg/L	0.932	1.00	93.2	85 - 115	X348073	30-Nov-23	
EPA 200.7	Boron	mg/L	0.925	1.00	92.5	85 - 115	X348073	30-Nov-23	
EPA 200.7	Calcium	mg/L	18.5	20.0	92.7	85 - 115	X348073	30-Nov-23	
EPA 200.7	Chromium	mg/L	0.914	1.00	91.4	85 - 115	X348073	30-Nov-23	
EPA 200.7	Iron	mg/L	9.46	10.0	94.6	85 - 115	X348073	30-Nov-23	
EPA 200.7	Magnesium	mg/L	18.9	20.0	94.5	85 - 115	X348073	30-Nov-23	
EPA 200.7	Manganese	mg/L	0.923	1.00	92.3	85 - 115	X348073	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	0.915	1.00	91.5	85 - 115	X348073	30-Nov-23	
EPA 200.7	Nickel	mg/L	0.893	1.00	89.3	85 - 115	X348073	30-Nov-23	
EPA 200.7	Phosphorus	mg/L	0.945	1.00	94.5	85 - 115	X348073	30-Nov-23	
EPA 200.7	Potassium	mg/L	18.7	20.0	93.3	85 - 115	X348073	30-Nov-23	
EPA 200.7	Sodium	mg/L	17.8	19.0	93.9	85 - 115	X348073	30-Nov-23	
EPA 200.7	Zinc	mg/L	0.903	1.00	90.3	85 - 115	X348073	30-Nov-23	
EPA 200.8	Antimony	mg/L	0.0215	0.0250	85.8	85 - 115	X348040	04-Dec-23	
EPA 200.8	Arsenic	mg/L	0.0246	0.0250	98.3	85 - 115	X348040	04-Dec-23	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)									
EPA 200.8	Cadmium	mg/L	0.0253	0.0250	101	85 - 115	X348040	04-Dec-23	
EPA 200.8	Chromium	mg/L	0.0256	0.0250	102	85 - 115	X348040	04-Dec-23	
EPA 200.8	Copper	mg/L	0.0213	0.0250	85.1	85 - 115	X348040	04-Dec-23	
EPA 200.8	Lead	mg/L	0.0256	0.0250	102	85 - 115	X348040	04-Dec-23	
EPA 200.8	Selenium	mg/L	0.0224	0.0250	89.8	85 - 115	X348040	04-Dec-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.975	1.00	97.5	85 - 115	X348005	30-Nov-23	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X348005	30-Nov-23	
EPA 200.7	Beryllium	mg/L	0.980	1.00	98.0	85 - 115	X348005	30-Nov-23	
EPA 200.7	Boron	mg/L	0.988	1.00	98.8	85 - 115	X348005	30-Nov-23	
EPA 200.7	Cadmium	mg/L	0.983	1.00	98.3	85 - 115	X348005	30-Nov-23	
EPA 200.7	Calcium	mg/L	20.0	20.0	100	85 - 115	X348005	30-Nov-23	
EPA 200.7	Chromium	mg/L	0.986	1.00	98.6	85 - 115	X348005	30-Nov-23	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X348005	30-Nov-23	
EPA 200.7	Copper	mg/L	0.967	1.00	96.7	85 - 115	X348005	30-Nov-23	
EPA 200.7	Iron	mg/L	10.0	10.0	100	85 - 115	X348005	30-Nov-23	
EPA 200.7	Lead	mg/L	0.969	1.00	96.9	85 - 115	X348005	30-Nov-23	
EPA 200.7	Lithium	mg/L	0.966	1.00	96.6	85 - 115	X348005	30-Nov-23	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.7	85 - 115	X348005	30-Nov-23	
EPA 200.7	Manganese	mg/L	0.983	1.00	98.3	85 - 115	X348005	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	0.968	1.00	96.8	85 - 115	X348005	30-Nov-23	
EPA 200.7	Nickel	mg/L	0.959	1.00	95.9	85 - 115	X348005	30-Nov-23	
EPA 200.7	Potassium	mg/L	20.1	20.0	101	85 - 115	X348005	30-Nov-23	
EPA 200.7	Silver	mg/L	0.0506	0.0500	101	85 - 115	X348005	30-Nov-23	
EPA 200.7	Sodium	mg/L	19.0	19.0	100	85 - 115	X348005	30-Nov-23	
EPA 200.7	Vanadium	mg/L	0.999	1.00	99.9	85 - 115	X348005	30-Nov-23	
EPA 200.7	Zinc	mg/L	0.997	1.00	99.7	85 - 115	X348005	30-Nov-23	
EPA 200.8	Antimony	mg/L	0.0246	0.0250	98.4	85 - 115	X346268	12-Dec-23	
EPA 200.8	Arsenic	mg/L	0.0234	0.0250	93.5	85 - 115	X346268	12-Dec-23	
EPA 200.8	Cadmium	mg/L	0.0243	0.0250	97.3	85 - 115	X346268	12-Dec-23	
EPA 200.8	Chromium	mg/L	0.0244	0.0250	97.5	85 - 115	X346268	12-Dec-23	
EPA 200.8	Copper	mg/L	0.0246	0.0250	98.3	85 - 115	X346268	12-Dec-23	
EPA 200.8	Lead	mg/L	0.0238	0.0250	95.1	85 - 115	X346268	12-Dec-23	
EPA 200.8	Selenium	mg/L	0.0224	0.0250	89.8	85 - 115	X346268	12-Dec-23	
EPA 200.8	Silver	mg/L	0.0243	0.0250	97.2	85 - 115	X346268	12-Dec-23	
EPA 200.8	Thallium	mg/L	0.0237	0.0250	94.8	85 - 115	X346268	12-Dec-23	
EPA 200.8	Uranium	mg/L	0.0239	0.0250	95.5	85 - 115	X346268	12-Dec-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00200	0.00200	100	85 - 115	X347142	28-Nov-23	
EPA 245.1	Mercury	mg/L	0.00215	0.00200	107	85 - 115	X347144	30-Nov-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.100	99.0	90 - 110	X347063	21-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	0.0990	0.100	99.0	90 - 110	X346261	22-Nov-23	
EPA 350.1	Ammonia as N	mg/L	0.984	1.00	98.4	90 - 110	X347101	22-Nov-23	
EPA 351.2	TKN	mg/L	7.73	8.00	96.6	90 - 110	X348010	28-Nov-23	
OIA 1677	Cyanide (WAD)	mg/L	0.110	0.100	110	90 - 110	X347065	29-Nov-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	98.5	95.4 - 104	X348017	27-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	96.4 - 105	X347089	22-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.3	99.3	100	96.4 - 105	X347089	22-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	397	397	99.9	96.4 - 105	X347089	22-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X347013	28-Nov-23	
SM 4500 S D	Sulfide	mg/L	0.534	0.500	107	85 - 115	X346088	17-Nov-23	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0974	0.100	97.4	80 - 120	X348019	28-Nov-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.92	3.00	97.4	90 - 110	X346200	16-Nov-23	
EPA 300.0	Fluoride	mg/L	1.94	2.00	96.9	90 - 110	X346200	16-Nov-23	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	100	90 - 110	X346200	16-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.58	4.50	102	90 - 110	X346200	16-Nov-23	
EPA 300.0	Nitrite as N	mg/L	2.57	2.50	103	90 - 110	X346200	16-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X346200	16-Nov-23	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
Hach 8167	Total Chlorine	mg/L	0.590	0.530	10.7	20	X348215 - X3K0279-01	01-Dec-23	H5
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X348017 - X3K0213-01	27-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X347089 - X3K0279-02	22-Nov-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X347089 - X3K0279-02	22-Nov-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X347089 - X3K0279-02	22-Nov-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X347089 - X3K0279-02	22-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	274	277	1.1	10	X347012 - X3K0279-01	21-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	572	566	1.1	10	X347012 - X3K0310-01	21-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X347013 - X3K0310-01	28-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	33.0	34.0	3.0	10	X347013 - X3K0279-01	28-Nov-23	
SM 4500 H B	pH @19.0°C	pH Units	3.4	3.5	2.9	20	X347089 - X3K0279-02	22-Nov-23	
SM 4500-O-G	Dissolved Oxygen	mg/L	3.3	3.4	3.0	20	X347106 - X3K0279-01	21-Nov-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00204	<0.000093	0.00200	102	70 - 130	X347139 - X3K0285-01	28-Nov-23	
EPA 245.1	Mercury	mg/L	0.00195	<0.000093	0.00200	97.3	70 - 130	X347139 - X3K0312-02	28-Nov-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	0.940	<0.0200	1.00	94.0	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Beryllium	mg/L	1.46	0.472	1.00	98.4	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Boron	mg/L	0.961	<0.400	1.00	96.1	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Calcium	mg/L	499	479	20.0	103	70 - 130	X348073 - X3K0279-03	30-Nov-23	D2
EPA 200.7	Chromium	mg/L	1.07	0.114	1.00	95.2	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Iron	mg/L	14.5	4.44	10.0	101	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Magnesium	mg/L	351	329	20.0	110	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Manganese	mg/L	181	179	1.00	0.30R>S	70 - 130	X348073 - X3K0279-03	30-Nov-23	D2,M4
EPA 200.7	Molybdenum	mg/L	0.904	<0.0800	1.00	90.4	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Nickel	mg/L	3.02	2.09	1.00	93.0	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Phosphorus	mg/L	1.03	<0.500	1.00	103	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Potassium	mg/L	27.8	7.63	20.0	101	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Sodium	mg/L	62.6	43.0	19.0	103	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Zinc	mg/L	55.3	54.9	1.00	0.30R>S	70 - 130	X348073 - X3K0279-03	30-Nov-23	D2,M4
EPA 200.8	Antimony	mg/L	0.0249	<0.00100	0.0250	99.5	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Antimony	mg/L	0.0254	<0.00100	0.0250	102	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Arsenic	mg/L	0.111	0.0763	0.0250	140	70 - 130	X348040 - X3K0300-01	04-Dec-23	M1
EPA 200.8	Arsenic	mg/L	0.115	0.0863	0.0250	115	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Cadmium	mg/L	0.0224	<0.000100	0.0250	89.7	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Cadmium	mg/L	0.0230	<0.000100	0.0250	92.0	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Chromium	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Chromium	mg/L	0.0261	<0.00100	0.0250	105	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Copper	mg/L	0.0236	<0.00040	0.0250	94.2	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Copper	mg/L	0.0237	<0.00040	0.0250	94.8	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Lead	mg/L	0.0242	<0.00020	0.0250	96.8	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Lead	mg/L	0.0244	<0.00020	0.0250	97.7	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Selenium	mg/L	0.0167	<0.00500	0.0250	66.9	70 - 130	X348040 - X3K0300-01	04-Dec-23	D1,M4
EPA 200.8	Selenium	mg/L	0.0186	<0.0100	0.0250	74.4	70 - 130	X348040 - X3K0300-04	04-Dec-23	D1
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.927	<0.080	1.00	92.7	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Barium	mg/L	1.18	0.142	1.00	104	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Beryllium	mg/L	0.950	<0.00200	1.00	95.0	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	99.7	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Cadmium	mg/L	0.977	<0.0020	1.00	97.7	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Calcium	mg/L	72.1	51.3	20.0	104	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Chromium	mg/L	0.986	<0.0060	1.00	98.6	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Cobalt	mg/L	0.947	<0.0060	1.00	94.7	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Copper	mg/L	0.961	<0.0100	1.00	96.1	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Iron	mg/L	11.1	0.867	10.0	102	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Lead	mg/L	0.970	<0.0075	1.00	97.0	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Lithium	mg/L	0.961	<0.040	1.00	96.1	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Magnesium	mg/L	33.4	12.8	20.0	103	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Manganese	mg/L	2.56	1.59	1.00	97.2	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	0.955	<0.0080	1.00	95.5	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Nickel	mg/L	0.942	<0.0100	1.00	94.2	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Potassium	mg/L	22.7	2.06	20.0	103	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Silver	mg/L	0.0508	<0.0050	0.0500	102	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Sodium	mg/L	35.9	16.5	19.0	102	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Zinc	mg/L	1.01	<0.0100	1.00	101	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.8	Antimony	mg/L	0.0337	0.00819	0.0250	102	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Antimony	mg/L	<0.0500	<0.0500	0.0250	N/A	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Arsenic	mg/L	0.0290	0.00440	0.0250	98.6	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Arsenic	mg/L	<0.0500	<0.0500	0.0250	67.4	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Cadmium	mg/L	0.0249	<0.000100	0.0250	99.2	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Cadmium	mg/L	0.0231	<0.00500	0.0250	92.6	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
EPA 200.8	Chromium	mg/L	0.0245	<0.00100	0.0250	97.8	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Chromium	mg/L	<0.0500	<0.0500	0.0250	34.5	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Copper	mg/L	0.0249	0.00053	0.0250	97.6	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Copper	mg/L	<0.0200	<0.0200	0.0250	N/A	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Lead	mg/L	0.0231	<0.00020	0.0250	92.3	70 - 130	X346268 - X3K0212-01	12-Dec-23	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Lead	mg/L	0.0243	<0.0100	0.0250	97.3	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
EPA 200.8	Selenium	mg/L	0.0241	<0.00100	0.0250	96.4	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Selenium	mg/L	<0.0500	<0.0500	0.0250	N/A	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Silver	mg/L	0.0245	<0.00008	0.0250	97.8	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Silver	mg/L	0.0217	<0.00400	0.0250	86.9	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
EPA 200.8	Thallium	mg/L	0.0231	<0.000200	0.0250	92.5	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Thallium	mg/L	0.0233	<0.0100	0.0250	93.2	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
EPA 200.8	Uranium	mg/L	0.0239	0.000246	0.0250	94.5	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Uranium	mg/L	0.0258	0.00510	0.0250	83.0	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	100	70 - 130	X347142 - X3K0281-01	28-Nov-23	
EPA 245.1	Mercury	mg/L	0.0116	0.00989	0.00200	86.9	70 - 130	X347142 - X3K0292-01	28-Nov-23	D2,M4
EPA 245.1	Mercury	mg/L	0.00205	<0.000200	0.00200	102	70 - 130	X347144 - X3K0279-01	30-Nov-23	
EPA 245.1	Mercury	mg/L	0.00213	<0.000200	0.00200	101	70 - 130	X347144 - X3K0371-01	30-Nov-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0950	<0.0050	0.100	95.0	79 - 121	X347063 - X3K0213-01	21-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	0.105	0.0056	0.100	99.5	90 - 110	X346261 - X3K0279-01	22-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	0.105	<0.0050	0.100	105	90 - 110	X346261 - X3K0279-02	22-Nov-23	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X347101 - X3K0279-03	22-Nov-23	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	105	90 - 110	X347101 - X3K0281-03	22-Nov-23	
EPA 351.2	TKN	mg/L	7.75	<0.50	8.00	96.9	90 - 110	X348010 - X3K0285-01	28-Nov-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0950	<0.0050	0.100	92.0	82 - 118	X347065 - X3K0213-01	29-Nov-23	H1,R2B
SM 4500 S D	Sulfide	mg/L	1.94	1.68	0.200	0.30R>S	75 - 125	X346088 - X3K0217-07	17-Nov-23	D2,M4
SM 4500 S D	Sulfide	mg/L	0.232	<0.050	0.200	116	75 - 125	X346088 - X3K0183-13	17-Nov-23	H1
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0185	<0.0050	0.0222	83.1	75 - 125	X348019 - X3K0099-03	28-Nov-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.99	<0.20	3.00	97.2	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Chloride	mg/L	18.3	15.6	3.00	0.30R>S	90 - 110	X346200 - X3K0300-02	16-Nov-23	D2,M4
EPA 300.0	Fluoride	mg/L	1.95	<0.100	2.00	97.6	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Fluoride	mg/L	5.03	3.19	2.00	91.6	90 - 110	X346200 - X3K0300-02	16-Nov-23	
EPA 300.0	Nitrate as N	mg/L	1.98	<0.050	2.00	99.0	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Nitrate as N	mg/L	1.94	<0.050	2.00	97.0	90 - 110	X346200 - X3K0300-02	16-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	<0.100	4.00	102	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	<0.100	4.00	99.2	90 - 110	X346200 - X3K0300-02	16-Nov-23	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	105	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X346200 - X3K0300-02	16-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	10.6	<0.30	10.0	103	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	740	733	10.0	0.30R>S	90 - 110	X346200 - X3K0300-02	16-Nov-23	D2,M4

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00211	0.00204	0.00200	3.2	20	105	X347139 - X3K0285-01	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	0.941	0.940	1.00	0.0	20	94.1	X348073 - X3K0279-03	D1
EPA 200.7	Beryllium	mg/L	1.47	1.46	1.00	0.8	20	99.6	X348073 - X3K0279-03	D1
EPA 200.7	Boron	mg/L	0.978	0.961	1.00	1.8	20	97.8	X348073 - X3K0279-03	D1
EPA 200.7	Calcium	mg/L	512	499	20.0	2.5	20	0.30R>S	X348073 - X3K0279-03	D2,M4
EPA 200.7	Chromium	mg/L	1.09	1.07	1.00	2.7	20	98.1	X348073 - X3K0279-03	D1
EPA 200.7	Iron	mg/L	14.5	14.5	10.0	0.1	20	101	X348073 - X3K0279-03	D1
EPA 200.7	Magnesium	mg/L	352	351	20.0	0.4	20	117	X348073 - X3K0279-03	D1
EPA 200.7	Manganese	mg/L	181	181	1.00	0.3	20	0.30R>S	X348073 - X3K0279-03	D2,M4
EPA 200.7	Molybdenum	mg/L	0.916	0.904	1.00	1.3	20	91.6	X348073 - X3K0279-03	D1
EPA 200.7	Nickel	mg/L	3.05	3.02	1.00	1.2	20	96.6	X348073 - X3K0279-03	D1
EPA 200.7	Phosphorus	mg/L	1.08	1.03	1.00	4.4	20	108	X348073 - X3K0279-03	D1
EPA 200.7	Potassium	mg/L	27.7	27.8	20.0	0.5	20	100	X348073 - X3K0279-03	D1
EPA 200.7	Sodium	mg/L	62.9	62.6	19.0	0.5	20	105	X348073 - X3K0279-03	D1
EPA 200.7	Zinc	mg/L	55.8	55.3	1.00	0.8	20	91.0	X348073 - X3K0279-03	D2
EPA 200.8	Antimony	mg/L	0.0244	0.0249	0.0250	1.8	20	97.7	X348040 - X3K0300-01	
EPA 200.8	Arsenic	mg/L	0.106	0.111	0.0250	4.5	20	120	X348040 - X3K0300-01	
EPA 200.8	Cadmium	mg/L	0.0218	0.0224	0.0250	3.1	20	87.0	X348040 - X3K0300-01	
EPA 200.8	Chromium	mg/L	0.0249	0.0257	0.0250	3.3	20	99.5	X348040 - X3K0300-01	
EPA 200.8	Copper	mg/L	0.0227	0.0236	0.0250	3.8	20	90.8	X348040 - X3K0300-01	
EPA 200.8	Lead	mg/L	0.0231	0.0242	0.0250	4.8	20	92.3	X348040 - X3K0300-01	
EPA 200.8	Selenium	mg/L	0.0177	0.0167	0.0250	5.8	20	70.9	X348040 - X3K0300-01	D1
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.913	0.927	1.00	1.5	20	91.3	X348005 - X3K0279-01	
EPA 200.7	Barium	mg/L	1.17	1.18	1.00	1.5	20	102	X348005 - X3K0279-01	
EPA 200.7	Beryllium	mg/L	0.942	0.950	1.00	0.8	20	94.2	X348005 - X3K0279-01	
EPA 200.7	Boron	mg/L	0.998	1.01	1.00	0.9	20	98.7	X348005 - X3K0279-01	
EPA 200.7	Cadmium	mg/L	0.972	0.977	1.00	0.6	20	97.2	X348005 - X3K0279-01	
EPA 200.7	Calcium	mg/L	71.7	72.1	20.0	0.5	20	102	X348005 - X3K0279-01	
EPA 200.7	Chromium	mg/L	0.983	0.986	1.00	0.3	20	98.3	X348005 - X3K0279-01	
EPA 200.7	Cobalt	mg/L	0.943	0.947	1.00	0.5	20	94.3	X348005 - X3K0279-01	
EPA 200.7	Copper	mg/L	0.960	0.961	1.00	0.1	20	96.0	X348005 - X3K0279-01	
EPA 200.7	Iron	mg/L	10.9	11.1	10.0	1.5	20	100	X348005 - X3K0279-01	
EPA 200.7	Lead	mg/L	0.968	0.970	1.00	0.2	20	96.8	X348005 - X3K0279-01	
EPA 200.7	Lithium	mg/L	0.946	0.961	1.00	1.5	20	94.6	X348005 - X3K0279-01	
EPA 200.7	Magnesium	mg/L	33.0	33.4	20.0	1.1	20	101	X348005 - X3K0279-01	
EPA 200.7	Manganese	mg/L	2.55	2.56	1.00	0.3	20	96.4	X348005 - X3K0279-01	
EPA 200.7	Molybdenum	mg/L	0.956	0.955	1.00	0.1	20	95.6	X348005 - X3K0279-01	
EPA 200.7	Nickel	mg/L	0.943	0.942	1.00	0.0	20	94.3	X348005 - X3K0279-01	
EPA 200.7	Potassium	mg/L	22.5	22.7	20.0	0.9	20	102	X348005 - X3K0279-01	
EPA 200.7	Silver	mg/L	0.0502	0.0508	0.0500	1.4	20	100	X348005 - X3K0279-01	
EPA 200.7	Sodium	mg/L	35.7	35.9	19.0	0.6	20	101	X348005 - X3K0279-01	
EPA 200.7	Vanadium	mg/L	0.998	1.01	1.00	0.9	20	99.8	X348005 - X3K0279-01	
EPA 200.7	Zinc	mg/L	0.995	1.01	1.00	1.0	20	99.5	X348005 - X3K0279-01	
EPA 200.8	Antimony	mg/L	0.0346	0.0337	0.0250	2.8	20	106	X346268 - X3K0212-01	
EPA 200.8	Arsenic	mg/L	0.0297	0.0290	0.0250	2.4	20	101	X346268 - X3K0212-01	
EPA 200.8	Cadmium	mg/L	0.0255	0.0249	0.0250	2.4	20	102	X346268 - X3K0212-01	
EPA 200.8	Chromium	mg/L	0.0247	0.0245	0.0250	1.1	20	98.9	X346268 - X3K0212-01	
EPA 200.8	Copper	mg/L	0.0257	0.0249	0.0250	3.1	20	101	X346268 - X3K0212-01	
EPA 200.8	Lead	mg/L	0.0245	0.0231	0.0250	6.1	20	98.1	X346268 - X3K0212-01	
EPA 200.8	Selenium	mg/L	0.0250	0.0241	0.0250	3.8	20	100	X346268 - X3K0212-01	
EPA 200.8	Silver	mg/L	0.0246	0.0245	0.0250	0.7	20	98.5	X346268 - X3K0212-01	
EPA 200.8	Thallium	mg/L	0.0248	0.0231	0.0250	6.8	20	99.1	X346268 - X3K0212-01	
EPA 200.8	Uranium	mg/L	0.0252	0.0239	0.0250	5.2	20	99.6	X346268 - X3K0212-01	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00193	0.00200	0.00200	3.4	20	96.7	X347142 - X3K0281-01	
EPA 245.1	Mercury	mg/L	0.00202	0.00205	0.00200	1.3	20	101	X347144 - X3K0279-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.0950	0.100	4.1	11	99.0	X347063 - X3K0213-01	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.105	0.100	0.8	20	98.7	X346261 - X3K0279-01	
EPA 350.1	Ammonia as N	mg/L	1.04	1.02	1.00	1.9	20	104	X347101 - X3K0279-03	
EPA 351.2	TKN	mg/L	7.99	7.75	8.00	3.0	20	99.9	X348010 - X3K0285-01	
OIA 1677	Cyanide (WAD)	mg/L	0.126	0.0950	0.100	28.1	11	123	X347065 - X3K0213-01	H1,M1,R2B
SM 4500 S D	Sulfide	mg/L	0.228	0.232	0.200	1.7	20	114	X346088 - X3K0183-13	H1
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0187	0.0185	0.0222	1.5	20	84.4	X348019 - X3K0099-03	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.00	2.99	3.00	0.3	20	97.5	X346200 - X3K0279-04	
EPA 300.0	Fluoride	mg/L	1.96	1.95	2.00	0.5	20	98.1	X346200 - X3K0279-04	
EPA 300.0	Nitrate as N	mg/L	1.99	1.98	2.00	0.4	20	99.3	X346200 - X3K0279-04	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.09	4.07	4.00	0.5	20	102	X346200 - X3K0279-04	
EPA 300.0	Nitrite as N	mg/L	2.11	2.09	2.00	0.6	20	105	X346200 - X3K0279-04	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.6	10.0	0.3	20	103	X346200 - X3K0279-04	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H1	Sample analysis performed past holding time.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
R2B	RPD exceeded the laboratory acceptance limit.
U	Less than MDL.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Client Sample ID: **GV-06**
SVL Sample ID: **X3J0198-01 (Surface Water)**

Sampled: 10-Oct-23 08:55
Received: 11-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X342009	MAC	10/17/23 10:51	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.130	mg/L	0.0020	0.0019		X342014	JRR	10/17/23 11:29	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X342014	JRR	10/17/23 11:29	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X342014	JRR	10/17/23 11:29	
EPA 200.7	**Calcium**	41.6	mg/L	0.100	0.069		X342014	JRR	10/17/23 11:29	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X342014	JRR	10/17/23 11:29	
EPA 200.7	**Iron**	1.85	mg/L	0.100	0.056		X342014	JRR	10/17/23 11:29	
EPA 200.7	**Magnesium**	11.0	mg/L	0.500	0.090		X342014	JRR	10/17/23 11:29	
EPA 200.7	**Manganese**	1.20	mg/L	0.0080	0.0034		X342014	JRR	10/17/23 11:29	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342014	JRR	10/17/23 11:29	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X342014	JRR	10/17/23 11:29	
EPA 200.7	**Phosphorus**	0.055	mg/L	0.050	0.013		X342014	JRR	10/17/23 11:29	
EPA 200.7	**Potassium**	1.13	mg/L	0.50	0.18		X342014	JRR	10/17/23 11:29	
EPA 200.7	**Sodium**	12.5	mg/L	0.50	0.12		X342014	JRR	10/17/23 11:29	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X342014	JRR	10/17/23 11:29	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X342015	SMU	10/20/23 12:45	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X342015	SMU	10/20/23 12:45	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X342015	SMU	10/20/23 12:45	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X342015	SMU	10/20/23 12:45	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X342015	SMU	10/20/23 12:45	
EPA 200.8	**Lead**	0.00047	mg/L	0.00020	0.00014		X342015	SMU	10/20/23 12:45	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X342015	SMU	10/20/23 12:45	
SM 2340 B	**Hardness (as CaC03)**	151	mg/L	2.31	0.543		N/A		10/17/23 11:29	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X342205	JRR	10/23/23 13:51	
EPA 200.7	**Barium**	0.107	mg/L	0.0020	0.0019		X342205	JRR	10/23/23 13:51	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X342205	JRR	10/23/23 13:51	
EPA 200.7	**Calcium**	42.3	mg/L	0.100	0.069		X342205	JRR	10/23/23 13:51	
EPA 200.7	**Iron**	0.425	mg/L	0.100	0.056		X342205	JRR	10/23/23 13:51	
EPA 200.7	**Magnesium**	11.0	mg/L	0.500	0.090		X342205	JRR	10/23/23 13:51	
EPA 200.7	**Manganese**	0.853	mg/L	0.0080	0.0034		X342205	JRR	10/23/23 13:51	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342205	JRR	10/23/23 13:51	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X342205	JRR	10/23/23 13:51	
EPA 200.7	**Potassium**	1.13	mg/L	0.50	0.18		X342205	JRR	10/23/23 13:51	
EPA 200.7	**Sodium**	12.7	mg/L	0.50	0.12		X342205	JRR	10/23/23 13:51	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X342205	JRR	10/23/23 13:51	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X341238	SMU	10/23/23 15:13	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X341238	SMU	10/23/23 15:13	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X341238	SMU	10/23/23 15:13	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X341238	SMU	10/23/23 15:13	
EPA 200.8	**Copper**	0.00119	mg/L	0.00040	0.00036		X341238	SMU	10/23/23 15:13	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X341238	SMU	10/23/23 15:13	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X341238	SMU	10/23/23 15:13	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X341238	SMU	10/23/23 15:13	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X341238	SMU	10/23/23 15:13	
EPA 200.8	**Uranium**	0.00145	mg/L	0.000100	0.000052		X341238	SMU	10/23/23 15:13	

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Client Sample ID: **GV-06**
SVL Sample ID: **X3J0198-01 (Surface Water)**

Sampled: 10-Oct-23 08:55
Received: 11-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341051	MAC	10/16/23 14:14	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X342148	DD	10/18/23 16:51	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		10/19/23 19:45	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342016	DD	10/17/23 10:57	
EPA 350.1	**Ammonia as N**	0.037	mg/L	0.030	0.013		X342117	JRR	10/20/23 13:01	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X341130	HJL	10/12/23 12:26	
Hach 8167	**Total Chlorine**	0.030	mg/L	0.020			X341119	NMS	10/11/23 11:40	H5,R2B
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X342247	DD	10/23/23 14:30	
SM 2310 B	**Acidity to pH 8.3**	-63.1	mg/L as CaCO3	10.0			X343033	MWD	10/23/23 14:07	
SM 2320 B	**Total Alkalinity**	99.8	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:11	
SM 2320 B	**Bicarbonate**	99.8	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:11	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:11	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:11	
SM 2540 C	**Total Diss. Solids**	223	mg/L	10			X341161	TJL	10/13/23 14:30	
SM 2540 D	**Total Susp. Solids**	11.0	mg/L	5.0			X341162	TJL	10/16/23 17:00	
SM 4500 H B	**pH @17.0°C**	7.7	pH Units				X342068	MWD	10/18/23 11:11	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X342064	NMS	10/17/23 15:01	
SM 4500-O-G	**Dissolved Oxygen**	5.9	mg/L	0.1			X342103	TJL	10/19/23 15:20	H3,H5
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X342226	NMS	10/19/23 19:45	
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		10/23/23 15:13	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.20	mg/L	0.20	0.02		X341112	RS	10/11/23 11:53	
EPA 300.0	**Fluoride**	0.463	mg/L	0.100	0.017		X341112	RS	10/11/23 11:53	
EPA 300.0	**Nitrate as N**	0.203	mg/L	0.050	0.013		X341112	RS	10/11/23 11:53	
EPA 300.0	**Nitrate+Nitrite as N**	0.207	mg/L	0.100	0.044		X341112	RS	10/11/23 11:53	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X341112	RS	10/11/23 11:53	
EPA 300.0	**Sulfate as SO4**	69.3	mg/L	3.00	1.80	10	X341112	RS	10/11/23 12:10	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.61 meq/L Anion Sum: 3.71 meq/L C/A Balance: -1.33 % Calculated TDS: 205 TDS/cTDS: 1.09

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X342009	17-Oct-23	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X342014	17-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X342014	17-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X342014	17-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X342014	17-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X342014	17-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X342014	17-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X342014	17-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X342014	17-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X342014	17-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X342014	17-Oct-23	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X342014	17-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X342014	17-Oct-23	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X342014	17-Oct-23	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X342014	17-Oct-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X342015	20-Oct-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X342015	20-Oct-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X342015	20-Oct-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X342015	20-Oct-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X342015	20-Oct-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X342015	20-Oct-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X342015	20-Oct-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X342205	23-Oct-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X342205	23-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X342205	23-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X342205	23-Oct-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X342205	23-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X342205	23-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X342205	23-Oct-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X342205	23-Oct-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X342205	23-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X342205	23-Oct-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X342205	23-Oct-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X342205	23-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X342205	23-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X342205	23-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X342205	23-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X342205	23-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X342205	23-Oct-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X342205	23-Oct-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X342205	23-Oct-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X342205	23-Oct-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X342205	23-Oct-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X341238	23-Oct-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X341238	23-Oct-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X341238	23-Oct-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X341238	23-Oct-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X341238	23-Oct-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X341238	23-Oct-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X341238	23-Oct-23	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X341238	23-Oct-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X341238	23-Oct-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X341238	23-Oct-23	

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X341051	16-Oct-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X342148	18-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X342016	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X342117	20-Oct-23	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X341130	12-Oct-23	
Hach 8167	Total Chlorine	mg/L	<0.020		0.020	X341119	11-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X342247	23-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X343033	23-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X342068	18-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X342068	18-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X342068	18-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X342068	18-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X341161	13-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X341162	16-Oct-23	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X342064	17-Oct-23	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X342226	19-Oct-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X341112	11-Oct-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X341112	11-Oct-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X341112	11-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X341112	11-Oct-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X341112	11-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X341112	11-Oct-23	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 245.1	Mercury	mg/L	0.00211	0.00200	106	85 - 115	X342009	17-Oct-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	0.962	1.00	96.2	85 - 115	X342014	17-Oct-23	
EPA 200.7	Beryllium	mg/L	0.964	1.00	96.4	85 - 115	X342014	17-Oct-23	
EPA 200.7	Boron	mg/L	0.955	1.00	95.5	85 - 115	X342014	17-Oct-23	
EPA 200.7	Calcium	mg/L	19.4	20.0	97.2	85 - 115	X342014	17-Oct-23	
EPA 200.7	Chromium	mg/L	0.988	1.00	98.8	85 - 115	X342014	17-Oct-23	
EPA 200.7	Iron	mg/L	9.55	10.0	95.5	85 - 115	X342014	17-Oct-23	
EPA 200.7	Magnesium	mg/L	19.0	20.0	94.9	85 - 115	X342014	17-Oct-23	
EPA 200.7	Manganese	mg/L	0.966	1.00	96.6	85 - 115	X342014	17-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.977	1.00	97.7	85 - 115	X342014	17-Oct-23	
EPA 200.7	Nickel	mg/L	0.957	1.00	95.7	85 - 115	X342014	17-Oct-23	
EPA 200.7	Phosphorus	mg/L	0.994	1.00	99.4	85 - 115	X342014	17-Oct-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.1	85 - 115	X342014	17-Oct-23	
EPA 200.7	Sodium	mg/L	18.4	19.0	96.7	85 - 115	X342014	17-Oct-23	
EPA 200.7	Zinc	mg/L	0.958	1.00	95.8	85 - 115	X342014	17-Oct-23	
EPA 200.8	Antimony	mg/L	0.0240	0.0250	95.8	85 - 115	X342015	20-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0234	0.0250	93.8	85 - 115	X342015	20-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0231	0.0250	92.4	85 - 115	X342015	20-Oct-23	

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)									
EPA 200.8	Chromium	mg/L	0.0236	0.0250	94.5	85 - 115	X342015	20-Oct-23	
EPA 200.8	Copper	mg/L	0.0240	0.0250	95.8	85 - 115	X342015	20-Oct-23	
EPA 200.8	Lead	mg/L	0.0230	0.0250	91.9	85 - 115	X342015	20-Oct-23	
EPA 200.8	Selenium	mg/L	0.0215	0.0250	85.9	85 - 115	X342015	20-Oct-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.08	1.00	108	85 - 115	X342205	23-Oct-23	
EPA 200.7	Barium	mg/L	1.07	1.00	107	85 - 115	X342205	23-Oct-23	
EPA 200.7	Beryllium	mg/L	1.02	1.00	102	85 - 115	X342205	23-Oct-23	
EPA 200.7	Boron	mg/L	0.978	1.00	97.8	85 - 115	X342205	23-Oct-23	
EPA 200.7	Cadmium	mg/L	1.00	1.00	100	85 - 115	X342205	23-Oct-23	
EPA 200.7	Calcium	mg/L	20.3	20.0	102	85 - 115	X342205	23-Oct-23	
EPA 200.7	Chromium	mg/L	1.05	1.00	105	85 - 115	X342205	23-Oct-23	
EPA 200.7	Cobalt	mg/L	0.998	1.00	99.8	85 - 115	X342205	23-Oct-23	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X342205	23-Oct-23	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X342205	23-Oct-23	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X342205	23-Oct-23	
EPA 200.7	Lithium	mg/L	1.04	1.00	104	85 - 115	X342205	23-Oct-23	
EPA 200.7	Magnesium	mg/L	20.1	20.0	101	85 - 115	X342205	23-Oct-23	
EPA 200.7	Manganese	mg/L	1.04	1.00	104	85 - 115	X342205	23-Oct-23	
EPA 200.7	Molybdenum	mg/L	1.00	1.00	100	85 - 115	X342205	23-Oct-23	
EPA 200.7	Nickel	mg/L	0.998	1.00	99.8	85 - 115	X342205	23-Oct-23	
EPA 200.7	Potassium	mg/L	20.9	20.0	105	85 - 115	X342205	23-Oct-23	
EPA 200.7	Silver	mg/L	0.0521	0.0500	104	85 - 115	X342205	23-Oct-23	
EPA 200.7	Sodium	mg/L	19.3	19.0	101	85 - 115	X342205	23-Oct-23	
EPA 200.7	Vanadium	mg/L	1.04	1.00	104	85 - 115	X342205	23-Oct-23	
EPA 200.7	Zinc	mg/L	1.03	1.00	103	85 - 115	X342205	23-Oct-23	
EPA 200.8	Antimony	mg/L	0.0232	0.0250	92.9	85 - 115	X341238	23-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0241	0.0250	96.2	85 - 115	X341238	23-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0243	0.0250	97.2	85 - 115	X341238	23-Oct-23	
EPA 200.8	Chromium	mg/L	0.0222	0.0250	88.8	85 - 115	X341238	23-Oct-23	
EPA 200.8	Copper	mg/L	0.0230	0.0250	92.1	85 - 115	X341238	23-Oct-23	
EPA 200.8	Lead	mg/L	0.0237	0.0250	94.8	85 - 115	X341238	23-Oct-23	
EPA 200.8	Selenium	mg/L	0.0251	0.0250	100	85 - 115	X341238	23-Oct-23	
EPA 200.8	Silver	mg/L	0.0237	0.0250	94.8	85 - 115	X341238	23-Oct-23	
EPA 200.8	Thallium	mg/L	0.0230	0.0250	92.1	85 - 115	X341238	23-Oct-23	
EPA 200.8	Uranium	mg/L	0.0241	0.0250	96.2	85 - 115	X341238	23-Oct-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00206	0.00200	103	85 - 115	X341051	16-Oct-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.100	97.0	90 - 110	X342148	18-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.0969	0.100	96.9	90 - 110	X342016	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	0.975	1.00	97.5	90 - 110	X342117	20-Oct-23	
EPA 351.2	TKN	mg/L	7.34	8.00	91.7	90 - 110	X341130	12-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X342247	23-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	98.6	95.4 - 104	X343033	23-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X342068	18-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X342068	18-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X341162	16-Oct-23	
SM 4500 S D	Sulfide	mg/L	0.521	0.500	104	85 - 115	X342064	17-Oct-23	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.103	0.100	103	80 - 120	X342226	19-Oct-23	

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X341112	11-Oct-23	
EPA 300.0	Fluoride	mg/L	2.03	2.00	102	90 - 110	X341112	11-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	102	90 - 110	X341112	11-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.61	4.50	102	90 - 110	X341112	11-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X341112	11-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X341112	11-Oct-23	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
Hach 8167	Total Chlorine	mg/L	0.120	0.0300	120.0	20	X341119 - X3J0198-01	11-Oct-23	H5,R2B
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X343033 - X3J0234-11	23-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	159	158	0.1	20	X342068 - X3J0198-03	18-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	159	158	0.1	20	X342068 - X3J0198-03	18-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X342068 - X3J0198-03	18-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X342068 - X3J0198-03	18-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	217	223	2.7	10	X341161 - X3J0198-01	13-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	258	281	8.5	10	X341161 - X3J0207-02	13-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	11.0	11.0	0.0	10	X341162 - X3J0198-01	16-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X341162 - X3J0207-02	16-Oct-23	
SM 4500 H B	pH @16.9°C	pH Units	7.9	8.0	0.4	20	X342068 - X3J0198-03	18-Oct-23	
SM 4500-O-G	Dissolved Oxygen	mg/L	6.1	5.9	3.3	20	X342103 - X3J0198-01	19-Oct-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00432	<0.000093	0.00400	108	70 - 130	X342009 - X3J0242-02	17-Oct-23	
EPA 245.1	Mercury	mg/L	0.00452	<0.000093	0.00400	113	70 - 130	X342009 - X3J0242-13	17-Oct-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.00	0.0348	1.00	96.8	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Barium	mg/L	0.636	0.0197	1.00	61.6	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1,M4
EPA 200.7	Beryllium	mg/L	0.971	<0.00200	1.00	97.1	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Beryllium	mg/L	1.63	0.652	1.00	97.3	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Boron	mg/L	0.991	<0.0400	1.00	95.7	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Boron	mg/L	0.965	<0.200	1.00	96.5	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Calcium	mg/L	58.3	40.6	20.0	88.5	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Calcium	mg/L	618	619	20.0	0.30R>S	70 - 130	X342014 - X3J0204-01	17-Oct-23	D2,M4
EPA 200.7	Chromium	mg/L	0.968	<0.0060	1.00	96.8	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Chromium	mg/L	1.23	0.220	1.00	101	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Iron	mg/L	9.79	0.166	10.0	96.2	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Iron	mg/L	14.7	5.22	10.0	95.3	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Magnesium	mg/L	27.9	9.05	20.0	94.2	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Magnesium	mg/L	459	444	20.0	74.5	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Manganese	mg/L	0.978	0.0187	1.00	96.0	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Manganese	mg/L	250	254	1.00	0.30R>S	70 - 130	X342014 - X3J0204-01	17-Oct-23	D2,M4

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Molybdenum	mg/L	1.00	<0.0400	1.00	100	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Nickel	mg/L	0.951	<0.0100	1.00	95.1	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Nickel	mg/L	3.98	3.06	1.00	91.8	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Phosphorus	mg/L	1.06	0.055	1.00	101	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Phosphorus	mg/L	1.16	<0.250	1.00	105	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Potassium	mg/L	22.1	2.43	20.0	98.4	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Potassium	mg/L	29.7	9.20	20.0	103	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Sodium	mg/L	44.0	26.1	19.0	94.4	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Sodium	mg/L	67.5	48.0	19.0	102	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Zinc	mg/L	0.961	<0.0100	1.00	96.1	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Zinc	mg/L	82.9	84.7	1.00	0.30R>S	70 - 130	X342014 - X3J0204-01	17-Oct-23	D2,M4
EPA 200.8	Antimony	mg/L	0.0236	<0.00100	0.0250	94.2	70 - 130	X342015 - X3J0184-02	20-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0241	<0.00100	0.0250	93.5	70 - 130	X342015 - X3J0184-02	20-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0230	0.000105	0.0250	91.5	70 - 130	X342015 - X3J0184-02	20-Oct-23	
EPA 200.8	Chromium	mg/L	0.0230	<0.00100	0.0250	92.0	70 - 130	X342015 - X3J0184-02	20-Oct-23	
EPA 200.8	Copper	mg/L	0.0233	<0.00040	0.0250	93.1	70 - 130	X342015 - X3J0184-02	20-Oct-23	
EPA 200.8	Lead	mg/L	0.0226	0.00021	0.0250	89.5	70 - 130	X342015 - X3J0184-02	20-Oct-23	
EPA 200.8	Selenium	mg/L	0.0208	<0.00100	0.0250	83.3	70 - 130	X342015 - X3J0184-02	20-Oct-23	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.04	<0.080	1.00	104	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Barium	mg/L	1.17	0.107	1.00	106	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Boron	mg/L	0.984	<0.0400	1.00	98.4	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Cadmium	mg/L	0.991	<0.0020	1.00	99.1	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Calcium	mg/L	63.2	42.3	20.0	104	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Cobalt	mg/L	0.970	<0.0060	1.00	96.5	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Copper	mg/L	0.992	<0.0100	1.00	99.2	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Iron	mg/L	10.5	0.425	10.0	101	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Lead	mg/L	0.974	<0.0075	1.00	97.4	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Magnesium	mg/L	30.9	11.0	20.0	99.3	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Manganese	mg/L	1.88	0.853	1.00	102	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.970	<0.0080	1.00	97.0	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Nickel	mg/L	0.964	<0.0100	1.00	96.4	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Potassium	mg/L	22.3	1.13	20.0	106	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Silver	mg/L	0.0509	<0.0050	0.0500	102	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Sodium	mg/L	31.8	12.7	19.0	101	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Vanadium	mg/L	1.03	<0.0050	1.00	103	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Zinc	mg/L	0.986	<0.0100	1.00	98.6	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.8	Antimony	mg/L	0.0297	<0.00100	0.0250	119	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Antimony	mg/L	0.0268	<0.00100	0.0250	107	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0302	<0.00100	0.0250	118	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0336	0.00381	0.0250	119	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0291	<0.000100	0.0250	116	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0241	0.000651	0.0250	93.6	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Chromium	mg/L	0.0282	<0.00100	0.0250	113	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Chromium	mg/L	0.0309	<0.00100	0.0250	123	70 - 130	X341238 - X3J0207-01	23-Oct-23	

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Copper	mg/L	0.0280	0.00061	0.0250	110	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Copper	mg/L	0.0262	0.00239	0.0250	95.1	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Lead	mg/L	0.0304	<0.00020	0.0250	122	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Lead	mg/L	0.0269	<0.00020	0.0250	107	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Selenium	mg/L	0.0324	<0.00100	0.0250	129	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Selenium	mg/L	0.0290	<0.00100	0.0250	116	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Silver	mg/L	0.0271	<0.00008	0.0250	108	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Silver	mg/L	0.0224	<0.00008	0.0250	89.5	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Thallium	mg/L	0.0303	<0.000200	0.0250	121	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Thallium	mg/L	0.0281	0.000264	0.0250	111	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Uranium	mg/L	0.0356	0.00205	0.0250	134	70 - 130	X341238 - X3J0184-01	23-Oct-23	M1
EPA 200.8	Uranium	mg/L	0.0330	0.00240	0.0250	122	70 - 130	X341238 - X3J0207-01	23-Oct-23	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00219	<0.000200	0.00200	110	70 - 130	X341051 - X3J0168-01	16-Oct-23	
EPA 245.1	Mercury	mg/L	0.00219	<0.000200	0.00200	110	70 - 130	X341051 - X3J0204-01	16-Oct-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	<0.0050	0.100	97.0	79 - 121	X342148 - X3J0198-01	18-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X342016 - X3J0148-01	17-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X342016 - X3J0149-01	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.07	0.037	1.00	103	90 - 110	X342117 - X3J0198-01	20-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.05	<0.030	1.00	103	90 - 110	X342117 - X3J0198-02	20-Oct-23	
EPA 351.2	TKN	mg/L	9.02	1.47	8.00	94.3	90 - 110	X341130 - X3J0187-03	12-Oct-23	
EPA 351.2	TKN	mg/L	8.13	1.66	8.00	81.0	90 - 110	X341130 - X3J0187-04	12-Oct-23	M2
OIA 1677	Cyanide (WAD)	mg/L	0.114	<0.0050	0.100	113	82 - 118	X342247 - X3J0184-01	23-Oct-23	
SM 4500 S D	Sulfide	mg/L	0.259	<0.050	0.200	130	75 - 125	X342064 - X3J0288-06	17-Oct-23	M1
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0198	<0.0050	0.0222	89.4	75 - 125	X342226 - X3J0242-02	19-Oct-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.02	<0.20	3.00	99.8	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Chloride	mg/L	4.77	1.73	3.00	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Fluoride	mg/L	2.04	<0.100	2.00	102	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Fluoride	mg/L	2.26	0.228	2.00	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.67	0.628	2.00	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.11	<0.100	4.00	103	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.72	0.628	4.00	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.07	<0.050	2.00	103	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	103	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.9	0.46	10.0	104	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	32.2	22.0	10.0	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00441	0.00432	0.00400	2.0	20	110	X342009 - X3J0242-02	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.02	1.00	1.00	2.0	20	98.8	X342014 - X3J0184-01	
EPA 200.7	Beryllium	mg/L	0.991	0.971	1.00	2.1	20	99.1	X342014 - X3J0184-01	
EPA 200.7	Boron	mg/L	1.01	0.991	1.00	2.0	20	97.7	X342014 - X3J0184-01	
EPA 200.7	Calcium	mg/L	59.0	58.3	20.0	1.3	20	92.2	X342014 - X3J0184-01	
EPA 200.7	Chromium	mg/L	0.992	0.968	1.00	2.5	20	99.2	X342014 - X3J0184-01	
EPA 200.7	Iron	mg/L	9.95	9.79	10.0	1.7	20	97.9	X342014 - X3J0184-01	
EPA 200.7	Magnesium	mg/L	28.4	27.9	20.0	1.9	20	96.9	X342014 - X3J0184-01	
EPA 200.7	Manganese	mg/L	0.998	0.978	1.00	1.9	20	97.9	X342014 - X3J0184-01	
EPA 200.7	Molybdenum	mg/L	1.01	1.00	1.00	0.6	20	101	X342014 - X3J0184-01	
EPA 200.7	Nickel	mg/L	0.955	0.951	1.00	0.4	20	95.5	X342014 - X3J0184-01	
EPA 200.7	Phosphorus	mg/L	1.08	1.06	1.00	1.3	20	102	X342014 - X3J0184-01	
EPA 200.7	Potassium	mg/L	22.5	22.1	20.0	1.8	20	100	X342014 - X3J0184-01	
EPA 200.7	Sodium	mg/L	44.8	44.0	19.0	1.7	20	98.4	X342014 - X3J0184-01	
EPA 200.7	Zinc	mg/L	0.971	0.961	1.00	1.0	20	97.1	X342014 - X3J0184-01	
EPA 200.8	Antimony	mg/L	0.0248	0.0236	0.0250	5.2	20	99.2	X342015 - X3J0184-02	
EPA 200.8	Arsenic	mg/L	0.0249	0.0241	0.0250	3.3	20	96.7	X342015 - X3J0184-02	
EPA 200.8	Cadmium	mg/L	0.0236	0.0230	0.0250	2.8	20	94.1	X342015 - X3J0184-02	
EPA 200.8	Chromium	mg/L	0.0239	0.0230	0.0250	3.8	20	95.5	X342015 - X3J0184-02	
EPA 200.8	Copper	mg/L	0.0244	0.0233	0.0250	4.9	20	97.8	X342015 - X3J0184-02	
EPA 200.8	Lead	mg/L	0.0231	0.0226	0.0250	2.0	20	91.4	X342015 - X3J0184-02	
EPA 200.8	Selenium	mg/L	0.0231	0.0208	0.0250	10.3	20	92.4	X342015 - X3J0184-02	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.07	1.04	1.00	2.2	20	107	X342205 - X3J0198-01	
EPA 200.7	Barium	mg/L	1.17	1.17	1.00	0.1	20	106	X342205 - X3J0198-01	
EPA 200.7	Beryllium	mg/L	1.02	1.02	1.00	0.1	20	102	X342205 - X3J0198-01	
EPA 200.7	Boron	mg/L	0.977	0.984	1.00	0.7	20	97.7	X342205 - X3J0198-01	
EPA 200.7	Cadmium	mg/L	0.988	0.991	1.00	0.4	20	98.8	X342205 - X3J0198-01	
EPA 200.7	Calcium	mg/L	63.0	63.2	20.0	0.3	20	103	X342205 - X3J0198-01	
EPA 200.7	Chromium	mg/L	1.02	1.03	1.00	0.9	20	102	X342205 - X3J0198-01	
EPA 200.7	Cobalt	mg/L	0.971	0.970	1.00	0.1	20	96.6	X342205 - X3J0198-01	
EPA 200.7	Copper	mg/L	0.996	0.992	1.00	0.5	20	99.6	X342205 - X3J0198-01	
EPA 200.7	Iron	mg/L	10.5	10.5	10.0	0.3	20	101	X342205 - X3J0198-01	
EPA 200.7	Lead	mg/L	0.970	0.974	1.00	0.5	20	97.0	X342205 - X3J0198-01	
EPA 200.7	Lithium	mg/L	1.02	1.03	1.00	1.1	20	102	X342205 - X3J0198-01	
EPA 200.7	Magnesium	mg/L	30.5	30.9	20.0	1.1	20	97.5	X342205 - X3J0198-01	
EPA 200.7	Manganese	mg/L	1.86	1.88	1.00	0.8	20	101	X342205 - X3J0198-01	
EPA 200.7	Molybdenum	mg/L	0.975	0.970	1.00	0.4	20	97.5	X342205 - X3J0198-01	
EPA 200.7	Nickel	mg/L	0.961	0.964	1.00	0.4	20	96.1	X342205 - X3J0198-01	
EPA 200.7	Potassium	mg/L	22.3	22.3	20.0	0.2	20	106	X342205 - X3J0198-01	
EPA 200.7	Silver	mg/L	0.0517	0.0509	0.0500	1.6	20	103	X342205 - X3J0198-01	
EPA 200.7	Sodium	mg/L	31.6	31.8	19.0	0.6	20	99.7	X342205 - X3J0198-01	
EPA 200.7	Vanadium	mg/L	1.03	1.03	1.00	0.3	20	103	X342205 - X3J0198-01	
EPA 200.7	Zinc	mg/L	0.989	0.986	1.00	0.3	20	98.9	X342205 - X3J0198-01	
EPA 200.8	Antimony	mg/L	0.0307	0.0297	0.0250	3.3	20	123	X341238 - X3J0184-01	
EPA 200.8	Arsenic	mg/L	0.0317	0.0302	0.0250	4.9	20	124	X341238 - X3J0184-01	
EPA 200.8	Cadmium	mg/L	0.0304	0.0291	0.0250	4.1	20	121	X341238 - X3J0184-01	
EPA 200.8	Chromium	mg/L	0.0295	0.0282	0.0250	4.5	20	118	X341238 - X3J0184-01	
EPA 200.8	Copper	mg/L	0.0292	0.0280	0.0250	4.2	20	114	X341238 - X3J0184-01	
EPA 200.8	Lead	mg/L	0.0318	0.0304	0.0250	4.6	20	127	X341238 - X3J0184-01	
EPA 200.8	Selenium	mg/L	0.0336	0.0324	0.0250	3.7	20	134	X341238 - X3J0184-01	M1
EPA 200.8	Silver	mg/L	0.0284	0.0271	0.0250	4.8	20	114	X341238 - X3J0184-01	
EPA 200.8	Thallium	mg/L	0.0317	0.0303	0.0250	4.3	20	127	X341238 - X3J0184-01	
EPA 200.8	Uranium	mg/L	0.0372	0.0356	0.0250	4.5	20	141	X341238 - X3J0184-01	M1

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00219	0.00219	0.00200	0.0	20	110	X341051 - X3J0168-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0930	0.0970	0.100	4.2	11	93.0	X342148 - X3J0198-01	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.102	0.100	0.4	20	102	X342016 - X3J0148-01	
EPA 350.1	Ammonia as N	mg/L	0.989	1.07	1.00	8.0	20	95.2	X342117 - X3J0198-01	
EPA 351.2	TKN	mg/L	9.16	9.02	8.00	1.6	20	96.2	X341130 - X3J0187-03	
OIA 1677	Cyanide (WAD)	mg/L	0.115	0.114	0.100	0.9	11	114	X342247 - X3J0184-01	
SM 4500 S D	Sulfide	mg/L	0.247	0.259	0.200	4.7	20	124	X342064 - X3J0288-06	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0204	0.0198	0.0222	2.8	20	91.9	X342226 - X3J0242-02	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.96	3.02	3.00	1.9	20	97.9	X341112 - X3J0198-02	
EPA 300.0	Fluoride	mg/L	1.99	2.04	2.00	2.3	20	99.5	X341112 - X3J0198-02	
EPA 300.0	Nitrate as N	mg/L	1.99	2.04	2.00	2.3	20	99.7	X341112 - X3J0198-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.02	4.11	4.00	2.2	20	100	X341112 - X3J0198-02	
EPA 300.0	Nitrite as N	mg/L	2.02	2.07	2.00	2.1	20	101	X341112 - X3J0198-02	
EPA 300.0	Sulfate as SO4	mg/L	10.7	10.9	10.0	2.0	20	102	X341112 - X3J0198-02	

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
U	Less than MDL.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Client Sample ID: **CRMW-105C**
SVL Sample ID: **X3J0097-04 (Ground Water)**

Sampled: 03-Oct-23 10:02
Received: 04-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	23.8	mg/L	0.100	0.069		X340277	JRR	10/10/23 14:07	
EPA 200.7	**Magnesium**	4.23	mg/L	0.500	0.090		X340277	JRR	10/10/23 14:07	
EPA 200.7	**Potassium**	2.70	mg/L	0.50	0.18		X340277	JRR	10/10/23 14:07	
SM 2340 B	**Hardness (as CaCO3)**	74.6	mg/L	2.31	0.543		N/A		10/13/23 10:45	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X340250	JRR	10/13/23 10:45	
EPA 200.7	**Barium**	0.0072	mg/L	0.0020	0.0019		X340250	JRR	10/13/23 10:45	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X340250	JRR	10/13/23 10:45	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X340250	JRR	10/13/23 10:45	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X340250	JRR	10/13/23 10:45	
EPA 200.7	**Calcium**	22.9	mg/L	0.100	0.069		X340250	JRR	10/13/23 10:45	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X340250	JRR	10/13/23 10:45	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X340250	JRR	10/13/23 10:45	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X340250	JRR	10/13/23 10:45	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X340250	JRR	10/13/23 10:45	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X340250	JRR	10/13/23 10:45	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X340250	JRR	10/13/23 10:45	
EPA 200.7	**Magnesium**	4.11	mg/L	0.500	0.090		X340250	JRR	10/13/23 10:45	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X340250	JRR	10/13/23 10:45	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X340250	JRR	10/13/23 10:45	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X340250	JRR	10/13/23 10:45	
EPA 200.7	**Potassium**	2.67	mg/L	0.50	0.18		X340250	JRR	10/13/23 10:45	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X340250	JRR	10/13/23 12:55	
EPA 200.7	**Sodium**	8.10	mg/L	0.50	0.12		X340250	JRR	10/13/23 10:45	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X340250	JRR	10/13/23 10:45	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X340250	JRR	10/13/23 10:45	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X340135	SMU	10/12/23 12:55	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X340135	SMU	10/12/23 12:55	
EPA 200.8	**Selenium**	0.00116	mg/L	0.00100	0.00024		X340135	SMU	10/12/23 12:55	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X340135	SMU	10/12/23 12:55	
EPA 200.8	**Uranium**	0.000350	mg/L	0.000100	0.000052		X340135	SMU	10/12/23 12:55	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341001	NMS	10/09/23 13:56	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X341176	DD	10/12/23 16:44	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X340191	DD	10/06/23 14:23	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X341137	HJL	10/16/23 15:44	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X340269	DD	10/09/23 09:51	
SM 2310 B	**Acidity to pH 8.3**	-42.4	mg/L as CaCO3	10.0			X340279	MWD	10/09/23 10:08	
SM 2320 B	**Total Alkalinity**	42.7	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:18	
SM 2320 B	**Bicarbonate**	42.7	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:18	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:18	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:18	
SM 2540 C	**Total Diss. Solids**	82	mg/L	10			X340178	TJL	10/09/23 14:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X340179	TJL	10/09/23 16:30	
SM 4500 H B	**pH @20.7°C**	6.8	pH Units				X340215	MWD	10/05/23 12:18	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Client Sample ID: **CRMW-105C**
SVL Sample ID: **X3J0097-04 (Ground Water)**

Sampled: 03-Oct-23 10:02
Received: 04-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	10.1	mg/L	0.20	0.02		X340170	RS	10/04/23 17:59	
EPA 300.0	**Fluoride**	2.70	mg/L	0.100	0.017		X340170	RS	10/04/23 17:59	
EPA 300.0	**Nitrate as N**	0.103	mg/L	0.050	0.013		X340170	RS	10/04/23 17:59	
EPA 300.0	**Nitrate+Nitrite as N**	0.103	mg/L	0.100	0.044		X340170	RS	10/04/23 17:59	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X340170	RS	10/04/23 17:59	
EPA 300.0	**Sulfate as SO4**	33.4	mg/L	0.30	0.18		X340170	RS	10/04/23 17:59	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 1.91 meq/L Anion Sum: 1.98 meq/L C/A Balance: -1.75 % Calculated TDS: 111 TDS/cTDS: 0.74

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kathryn Salter
Project Manager

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Client Sample ID: **SGMW-106B**
SVL Sample ID: **X3J0097-07 (Ground Water)**

Sampled: 03-Oct-23 11:57
Received: 04-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	448	mg/L	1.00	0.690	10	X340277	JRR	10/10/23 14:52	D2
EPA 200.7	**Magnesium**	106	mg/L	0.500	0.090		X340277	JRR	10/10/23 14:17	
EPA 200.7	**Potassium**	9.35	mg/L	0.50	0.18		X340277	JRR	10/10/23 14:17	
SM 2340 B	**Hardness (as CaCO3)**	1550	mg/L	4.56	2.09		N/A		10/10/23 14:17	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	7.58	mg/L	0.080	0.054		X340250	JRR	10/13/23 11:03	
EPA 200.7	**Barium**	0.0083	mg/L	0.0020	0.0019		X340250	JRR	10/13/23 11:03	
EPA 200.7	**Beryllium**	0.0872	mg/L	0.00200	0.00080		X340250	JRR	10/13/23 11:03	
EPA 200.7	**Boron**	0.0860	mg/L	0.0400	0.0078		X340250	JRR	10/13/23 11:03	
EPA 200.7	**Cadmium**	0.0101	mg/L	0.0020	0.0016		X340250	JRR	10/13/23 11:03	
EPA 200.7	**Calcium**	462	mg/L	0.100	0.069		X340250	JRR	10/13/23 11:03	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X340250	JRR	10/13/23 11:03	
EPA 200.7	**Cobalt**	0.0338	mg/L	0.0060	0.0046		X340250	JRR	10/13/23 11:03	
EPA 200.7	**Copper**	0.0413	mg/L	0.0100	0.0027		X340250	JRR	10/13/23 11:03	
EPA 200.7	**Iron**	2.21	mg/L	0.100	0.056		X340250	JRR	10/13/23 11:03	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X340250	JRR	10/13/23 11:03	
EPA 200.7	**Lithium**	0.104	mg/L	0.040	0.025		X340250	JRR	10/13/23 11:03	
EPA 200.7	**Magnesium**	103	mg/L	0.500	0.090		X340250	JRR	10/13/23 11:03	
EPA 200.7	**Manganese**	12.8	mg/L	0.0080	0.0034		X340250	JRR	10/13/23 11:03	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X340250	JRR	10/13/23 11:03	
EPA 200.7	**Nickel**	0.174	mg/L	0.0100	0.0048		X340250	JRR	10/13/23 11:03	
EPA 200.7	**Potassium**	9.08	mg/L	0.50	0.18		X340250	JRR	10/13/23 11:03	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X340250	JRR	10/13/23 13:15	
EPA 200.7	**Sodium**	75.8	mg/L	0.50	0.12		X340250	JRR	10/13/23 11:03	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X340250	JRR	10/13/23 11:03	
EPA 200.7	**Zinc**	1.81	mg/L	0.0100	0.0054		X340250	JRR	10/13/23 11:03	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X340135	SMU	10/12/23 13:03	
EPA 200.8	**Arsenic**	0.00114	mg/L	0.00100	0.00021		X340135	SMU	10/12/23 13:03	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X340135	SMU	10/12/23 13:03	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X340135	SMU	10/12/23 13:03	
EPA 200.8	**Uranium**	0.0516	mg/L	0.000100	0.000052		X340135	SMU	10/12/23 13:03	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341001	NMS	10/09/23 13:20	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X341176	DD	10/12/23 16:56	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X340191	DD	10/06/23 14:31	
EPA 350.1	**Ammonia as N**	0.069	mg/L	0.030	0.013		X341137	HJL	10/16/23 15:49	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X340269	DD	10/09/23 09:55	
SM 2310 B	**Acidity to pH 8.3**	-21.6	mg/L as CaCO3	10.0			X340279	MWD	10/09/23 10:08	
SM 2320 B	**Total Alkalinity**	25.5	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:42	
SM 2320 B	**Bicarbonate**	25.5	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:42	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:42	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X340215	MWD	10/05/23 12:42	
SM 2540 C	**Total Diss. Solids**	2500	mg/L	40			X340178	TJL	10/09/23 14:35	D2
SM 2540 D	**Total Susp. Solids**	35.0	mg/L	5.0			X340179	TJL	10/09/23 16:30	
SM 4500 H B	**pH @21.3°C**	5.6	pH Units				X340215	MWD	10/05/23 12:42	H5

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Client Sample ID: **SGMW-106B**
SVL Sample ID: **X3J0097-07 (Ground Water)**

Sampled: 03-Oct-23 11:57
Received: 04-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	145	mg/L	10.0	1.10	50	X340170	RS	10/04/23 19:59	D2
EPA 300.0	**Fluoride**	11.0	mg/L	5.00	0.850	50	X340170	RS	10/04/23 19:59	D2
EPA 300.0	**Nitrate as N**	1.34	mg/L	0.050	0.013		X340170	RS	10/04/23 19:42	
EPA 300.0	**Nitrate+Nitrite as N**	1.34	mg/L	0.100	0.044		X340170	RS	10/04/23 19:42	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X340170	RS	10/04/23 19:42	
EPA 300.0	**Sulfate as SO4**	1650	mg/L	15.0	9.00	50	X340170	RS	10/04/23 19:59	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 35.8 meq/L Anion Sum: 39.6 meq/L C/A Balance: -5.04 % Calculated TDS: 2472 TDS/cTDS: 1.01

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kathryn Salter
Project Manager

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor
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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X340211	05-Oct-23	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X340277	10-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X340277	10-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X340277	10-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X340277	10-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X340277	10-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X340277	10-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X340277	10-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X340277	10-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X340277	10-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X340277	10-Oct-23	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X340277	10-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X340277	10-Oct-23	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X340277	10-Oct-23	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X340277	10-Oct-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X341018	13-Oct-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X341018	13-Oct-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X341018	13-Oct-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X341018	13-Oct-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X341018	13-Oct-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X341018	13-Oct-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X341018	13-Oct-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X340250	13-Oct-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X340250	13-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X340250	13-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X340250	13-Oct-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X340250	13-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X340250	13-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X340250	13-Oct-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X340250	13-Oct-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X340250	13-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X340250	13-Oct-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X340250	13-Oct-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X340250	13-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X340250	13-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X340250	13-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X340250	13-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X340250	13-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X340250	13-Oct-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X340250	13-Oct-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X340250	13-Oct-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X340250	13-Oct-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X340250	13-Oct-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X340135	12-Oct-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X340135	12-Oct-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X340135	12-Oct-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X340135	12-Oct-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X340135	12-Oct-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X340135	12-Oct-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X340135	12-Oct-23	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X340135	12-Oct-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X340135	12-Oct-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X340135	12-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X341001	09-Oct-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X341176	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X340191	06-Oct-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X341137	16-Oct-23	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X340180	12-Oct-23	
Hach 8167	Total Chlorine	mg/L	<0.020		0.020	X340171	04-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X340269	06-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X340279	09-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X340215	05-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X340215	05-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X340215	05-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X340215	05-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X340178	09-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X340179	09-Oct-23	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X341056	10-Oct-23	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X340229	05-Oct-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X340170	04-Oct-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X340170	04-Oct-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X340170	04-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X340170	04-Oct-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X340170	04-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X340170	04-Oct-23	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 245.1	Mercury	mg/L	0.00192	0.00200	96.1	85 - 115	X340211	05-Oct-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	1.04	1.00	104	85 - 115	X340277	10-Oct-23	
EPA 200.7	Beryllium	mg/L	1.03	1.00	103	85 - 115	X340277	10-Oct-23	
EPA 200.7	Boron	mg/L	0.964	1.00	96.4	85 - 115	X340277	10-Oct-23	
EPA 200.7	Calcium	mg/L	20.2	20.0	101	85 - 115	X340277	10-Oct-23	
EPA 200.7	Chromium	mg/L	1.05	1.00	105	85 - 115	X340277	10-Oct-23	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X340277	10-Oct-23	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X340277	10-Oct-23	
EPA 200.7	Manganese	mg/L	1.04	1.00	104	85 - 115	X340277	10-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.984	1.00	98.4	85 - 115	X340277	10-Oct-23	
EPA 200.7	Nickel	mg/L	0.986	1.00	98.6	85 - 115	X340277	10-Oct-23	
EPA 200.7	Phosphorus	mg/L	1.01	1.00	101	85 - 115	X340277	10-Oct-23	
EPA 200.7	Potassium	mg/L	20.8	20.0	104	85 - 115	X340277	10-Oct-23	
EPA 200.7	Sodium	mg/L	19.4	19.0	102	85 - 115	X340277	10-Oct-23	
EPA 200.7	Zinc	mg/L	0.996	1.00	99.6	85 - 115	X340277	10-Oct-23	
EPA 200.8	Antimony	mg/L	0.0247	0.0250	98.9	85 - 115	X341018	13-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0248	0.0250	99.0	85 - 115	X341018	13-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0243	0.0250	97.3	85 - 115	X341018	13-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)									
EPA 200.8	Chromium	mg/L	0.0260	0.0250	104	85 - 115	X341018	13-Oct-23	
EPA 200.8	Copper	mg/L	0.0259	0.0250	104	85 - 115	X341018	13-Oct-23	
EPA 200.8	Lead	mg/L	0.0239	0.0250	95.7	85 - 115	X341018	13-Oct-23	
EPA 200.8	Selenium	mg/L	0.0215	0.0250	85.9	85 - 115	X341018	13-Oct-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.987	1.00	98.7	85 - 115	X340250	13-Oct-23	
EPA 200.7	Barium	mg/L	1.00	1.00	100	85 - 115	X340250	13-Oct-23	
EPA 200.7	Beryllium	mg/L	0.940	1.00	94.0	85 - 115	X340250	13-Oct-23	
EPA 200.7	Boron	mg/L	0.914	1.00	91.4	85 - 115	X340250	13-Oct-23	
EPA 200.7	Cadmium	mg/L	0.943	1.00	94.3	85 - 115	X340250	13-Oct-23	
EPA 200.7	Calcium	mg/L	18.9	20.0	94.5	85 - 115	X340250	13-Oct-23	
EPA 200.7	Chromium	mg/L	0.942	1.00	94.2	85 - 115	X340250	13-Oct-23	
EPA 200.7	Cobalt	mg/L	0.937	1.00	93.7	85 - 115	X340250	13-Oct-23	
EPA 200.7	Copper	mg/L	0.926	1.00	92.6	85 - 115	X340250	13-Oct-23	
EPA 200.7	Iron	mg/L	9.33	10.0	93.3	85 - 115	X340250	13-Oct-23	
EPA 200.7	Lead	mg/L	0.930	1.00	93.0	85 - 115	X340250	13-Oct-23	
EPA 200.7	Lithium	mg/L	0.940	1.00	94.0	85 - 115	X340250	13-Oct-23	
EPA 200.7	Magnesium	mg/L	18.7	20.0	93.7	85 - 115	X340250	13-Oct-23	
EPA 200.7	Manganese	mg/L	0.957	1.00	95.7	85 - 115	X340250	13-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.923	1.00	92.3	85 - 115	X340250	13-Oct-23	
EPA 200.7	Nickel	mg/L	0.930	1.00	93.0	85 - 115	X340250	13-Oct-23	
EPA 200.7	Potassium	mg/L	19.1	20.0	95.6	85 - 115	X340250	13-Oct-23	
EPA 200.7	Silver	mg/L	0.0497	0.0500	99.4	85 - 115	X340250	13-Oct-23	
EPA 200.7	Sodium	mg/L	17.9	19.0	94.3	85 - 115	X340250	13-Oct-23	
EPA 200.7	Vanadium	mg/L	0.942	1.00	94.2	85 - 115	X340250	13-Oct-23	
EPA 200.7	Zinc	mg/L	0.939	1.00	93.9	85 - 115	X340250	13-Oct-23	
EPA 200.8	Antimony	mg/L	0.0277	0.0250	111	85 - 115	X340135	12-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0283	0.0250	113	85 - 115	X340135	12-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0283	0.0250	113	85 - 115	X340135	12-Oct-23	
EPA 200.8	Chromium	mg/L	0.0275	0.0250	110	85 - 115	X340135	12-Oct-23	
EPA 200.8	Copper	mg/L	0.0276	0.0250	111	85 - 115	X340135	12-Oct-23	
EPA 200.8	Lead	mg/L	0.0256	0.0250	102	85 - 115	X340135	12-Oct-23	
EPA 200.8	Selenium	mg/L	0.0269	0.0250	108	85 - 115	X340135	13-Oct-23	
EPA 200.8	Silver	mg/L	0.0273	0.0250	109	85 - 115	X340135	12-Oct-23	
EPA 200.8	Thallium	mg/L	0.0261	0.0250	104	85 - 115	X340135	12-Oct-23	
EPA 200.8	Uranium	mg/L	0.0270	0.0250	108	85 - 115	X340135	12-Oct-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00209	0.00200	104	85 - 115	X341001	09-Oct-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.100	98.0	90 - 110	X341176	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.100	104	90 - 110	X340191	06-Oct-23	
EPA 350.1	Ammonia as N	mg/L	0.973	1.00	97.3	90 - 110	X341137	16-Oct-23	
EPA 351.2	TKN	mg/L	7.75	8.00	96.9	90 - 110	X340180	12-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X340269	06-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1390	1390	100	95.4 - 104	X340279	09-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.3	9.93	104	96.4 - 105	X340215	05-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X340215	05-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X340179	09-Oct-23	
SM 4500 S D	Sulfide	mg/L	0.538	0.500	108	85 - 115	X341056	10-Oct-23	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0914	0.100	91.4	80 - 120	X340229	05-Oct-23	

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Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.8	90 - 110	X340170	04-Oct-23	
EPA 300.0	Fluoride	mg/L	2.00	2.00	100	90 - 110	X340170	04-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	100	90 - 110	X340170	04-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X340170	04-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X340170	04-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X340170	04-Oct-23	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
Hach 8167	Total Chlorine	mg/L	0.0200	0.0200	0.0	20	X340171 - X3J0097-01	04-Oct-23	H5
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X340279 - X3I0475-01	09-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	79.8	80.1	0.4	20	X340215 - X3J0097-02	05-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	79.8	80.1	0.4	20	X340215 - X3J0097-02	05-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X340215 - X3J0097-02	05-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X340215 - X3J0097-02	05-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	141	178	23.2	10	X340178 - X3J0097-02	09-Oct-23	R2B
SM 2540 C	Total Diss. Solids	mg/L	389	398	2.3	10	X340178 - X3J0106-01	09-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X340179 - X3J0106-01	09-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X340179 - X3J0097-02	09-Oct-23	
SM 4500 H B	pH @19.6°C	pH Units	7.5	7.6	1.3	20	X340215 - X3J0097-02	05-Oct-23	
SM 4500-O-G	Dissolved Oxygen	mg/L	1.1	1.2	8.7	20	X340206 - X3J0073-01	04-Oct-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00225	<0.000093	0.00200	112	70 - 130	X340211 - X3J0069-01	05-Oct-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	0.889	0.0287	1.00	86.0	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Beryllium	mg/L	0.984	<0.00200	1.00	98.4	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Boron	mg/L	0.954	0.0607	1.00	89.3	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Calcium	mg/L	576	554	20.0	110	70 - 130	X340277 - X3J0087-02	10-Oct-23	D2
EPA 200.7	Chromium	mg/L	0.982	<0.0060	1.00	98.2	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Iron	mg/L	9.59	<0.100	10.0	95.9	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Magnesium	mg/L	802	742	20.0	0.30R>S	70 - 130	X340277 - X3J0087-02	10-Oct-23	D2,M4
EPA 200.7	Manganese	mg/L	5.70	4.76	1.00	93.2	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.991	<0.0080	1.00	98.6	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Nickel	mg/L	1.28	0.364	1.00	91.3	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Phosphorus	mg/L	1.13	<0.050	1.00	113	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Potassium	mg/L	37.4	15.4	20.0	110	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Sodium	mg/L	57.1	36.7	19.0	108	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.7	Zinc	mg/L	1.46	0.535	1.00	92.6	70 - 130	X340277 - X3J0087-02	10-Oct-23	
EPA 200.8	Antimony	mg/L	0.0255	<0.00100	0.0250	98.2	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Antimony	mg/L	0.0242	<0.00100	0.0250	96.9	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0245	<0.00100	0.0250	98.2	70 - 130	X341018 - X3J0061-01	13-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.8	Arsenic	mg/L	0.0244	<0.00100	0.0250	95.8	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0238	<0.000100	0.0250	95.1	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0230	<0.000100	0.0250	92.1	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Chromium	mg/L	0.0257	0.00121	0.0250	97.9	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Chromium	mg/L	0.0239	<0.00100	0.0250	93.2	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Copper	mg/L	0.0256	<0.00040	0.0250	101	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Copper	mg/L	0.0251	0.00091	0.0250	96.9	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Lead	mg/L	0.0239	<0.00020	0.0250	95.6	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Lead	mg/L	0.0227	<0.00020	0.0250	90.9	70 - 130	X341018 - X3J0142-04	13-Oct-23	
EPA 200.8	Selenium	mg/L	0.0233	<0.00100	0.0250	89.3	70 - 130	X341018 - X3J0061-01	13-Oct-23	
EPA 200.8	Selenium	mg/L	0.0220	<0.00100	0.0250	86.1	70 - 130	X341018 - X3J0142-04	13-Oct-23	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.06	<0.080	1.00	106	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Aluminum	mg/L	1.03	<0.080	1.00	103	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Barium	mg/L	1.07	0.0247	1.00	105	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Barium	mg/L	1.11	0.0587	1.00	105	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Beryllium	mg/L	0.987	<0.00200	1.00	98.7	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Beryllium	mg/L	0.993	<0.00200	1.00	99.3	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Boron	mg/L	0.965	<0.0400	1.00	96.5	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Boron	mg/L	0.965	<0.0400	1.00	96.5	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Cadmium	mg/L	0.981	<0.0020	1.00	98.1	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Cadmium	mg/L	0.968	0.0049	1.00	96.3	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Calcium	mg/L	33.4	13.6	20.0	98.9	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Calcium	mg/L	43.1	23.5	20.0	97.9	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Chromium	mg/L	0.982	<0.0060	1.00	98.2	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Cobalt	mg/L	0.982	<0.0060	1.00	98.2	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Cobalt	mg/L	0.952	<0.0060	1.00	95.2	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Copper	mg/L	0.968	<0.0100	1.00	96.8	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Copper	mg/L	0.991	<0.0100	1.00	99.1	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Iron	mg/L	9.95	<0.100	10.0	98.8	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Iron	mg/L	9.88	<0.100	10.0	97.9	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Lead	mg/L	0.968	<0.0075	1.00	96.8	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Lead	mg/L	0.959	<0.0075	1.00	95.9	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Lithium	mg/L	0.994	<0.040	1.00	99.4	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Lithium	mg/L	0.993	<0.040	1.00	99.3	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Magnesium	mg/L	22.3	2.73	20.0	98.0	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Magnesium	mg/L	26.7	7.21	20.0	97.5	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Manganese	mg/L	1.01	<0.0080	1.00	101	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Manganese	mg/L	1.14	0.119	1.00	102	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.971	<0.0080	1.00	97.1	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.950	<0.0080	1.00	95.0	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Nickel	mg/L	0.971	<0.0100	1.00	97.1	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Nickel	mg/L	0.950	<0.0100	1.00	95.0	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Potassium	mg/L	21.6	1.49	20.0	101	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Potassium	mg/L	21.6	1.38	20.0	101	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Silver	mg/L	0.0511	<0.0050	0.0500	102	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Silver	mg/L	0.0508	<0.0050	0.0500	102	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Sodium	mg/L	25.3	6.67	19.0	98.2	70 - 130	X340250 - X3J0097-01	13-Oct-23	

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Work Order: **X3J0097**
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Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Sodium	mg/L	27.9	9.00	19.0	99.5	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Vanadium	mg/L	0.983	<0.0050	1.00	98.3	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.7	Zinc	mg/L	0.979	<0.0100	1.00	97.9	70 - 130	X340250 - X3J0097-01	13-Oct-23	
EPA 200.7	Zinc	mg/L	1.79	0.870	1.00	92.4	70 - 130	X340250 - X3J0104-02	13-Oct-23	
EPA 200.8	Antimony	mg/L	0.0266	<0.00100	0.0250	106	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Antimony	mg/L	0.0258	<0.00100	0.0250	103	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0273	<0.00100	0.0250	108	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0286	<0.00100	0.0250	113	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0258	<0.000100	0.0250	103	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0252	<0.000100	0.0250	101	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Chromium	mg/L	0.0255	<0.00100	0.0250	102	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Chromium	mg/L	0.0266	<0.00100	0.0250	105	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Copper	mg/L	0.0265	0.00099	0.0250	102	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Copper	mg/L	0.0306	0.00731	0.0250	93.2	70 - 130	X340135 - X3J0106-01	13-Oct-23	
EPA 200.8	Lead	mg/L	0.0239	<0.00020	0.0250	95.4	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Lead	mg/L	0.0236	<0.00020	0.0250	94.3	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Selenium	mg/L	0.0290	<0.00100	0.0250	116	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Selenium	mg/L	0.0318	0.00181	0.0250	120	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Silver	mg/L	0.0244	<0.00008	0.0250	97.6	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Silver	mg/L	0.0236	<0.00008	0.0250	94.3	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Thallium	mg/L	0.0246	<0.000200	0.0250	98.4	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Thallium	mg/L	0.0231	<0.000200	0.0250	92.5	70 - 130	X340135 - X3J0106-01	12-Oct-23	
EPA 200.8	Uranium	mg/L	0.0257	<0.000100	0.0250	102	70 - 130	X340135 - X3J0097-01	12-Oct-23	
EPA 200.8	Uranium	mg/L	0.0279	0.00119	0.0250	107	70 - 130	X340135 - X3J0106-01	12-Oct-23	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	107	70 - 130	X341001 - X3J0088-01	09-Oct-23	
EPA 245.1	Mercury	mg/L	0.00215	<0.000200	0.00200	107	70 - 130	X341001 - X3J0135-01	09-Oct-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0790	<0.0050	0.100	79.0	79 - 121	X341176 - X3J0097-01	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.0935	<0.0050	0.100	93.5	90 - 110	X340191 - X3I0449-01	06-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.0957	<0.0050	0.100	95.7	90 - 110	X340191 - X3I0449-02	06-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X341137 - X3J0081-01	16-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.10	0.031	1.00	107	90 - 110	X341137 - X3J0081-03	17-Oct-23	
EPA 351.2	TKN	mg/L	17.4	11.7	8.00	71.3	90 - 110	X340180 - X3I0543-01	12-Oct-23	M2
EPA 351.2	TKN	mg/L	22.3	15.3	8.00	87.2	90 - 110	X340180 - X3I0543-02	12-Oct-23	D2,M2
OIA 1677	Cyanide (WAD)	mg/L	0.100	<0.0050	0.100	100	82 - 118	X340269 - X3I0449-01	06-Oct-23	
SM 4500 S D	Sulfide	mg/L	3.28	2.28	0.200	0.30R>S	75 - 125	X341056 - X3J0187-03	10-Oct-23	D2,M4
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0230	<0.0050	0.0222	103	75 - 125	X340229 - X3I0449-03	05-Oct-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.40	0.47	3.00	97.7	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Chloride	mg/L	16.3	13.0	3.00	109	90 - 110	X340170 - X3J0096-01	06-Oct-23	D2
EPA 300.0	Fluoride	mg/L	2.16	0.173	2.00	99.6	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Fluoride	mg/L	2.12	0.145	2.00	98.9	90 - 110	X340170 - X3J0096-01	04-Oct-23	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	99.7	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.02	<0.050	2.00	99.6	90 - 110	X340170 - X3J0096-01	04-Oct-23	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.02	<0.100	4.00	101	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.99	<0.100	4.00	99.8	90 - 110	X340170 - X3J0096-01	04-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	102	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Nitrite as N	mg/L	1.97	<0.050	2.00	98.6	90 - 110	X340170 - X3J0096-01	04-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	20.2	10.5	10.0	97.7	90 - 110	X340170 - X3J0095-01	04-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	14.5	4.28	10.0	102	90 - 110	X340170 - X3J0096-01	04-Oct-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00215	0.00225	0.00200	4.6	20	107	X340211 - X3J0069-01	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.04	0.889	1.00	16.2	20	102	X340277 - X3J0087-02	
EPA 200.7	Beryllium	mg/L	0.974	0.984	1.00	1.1	20	97.4	X340277 - X3J0087-02	
EPA 200.7	Boron	mg/L	0.944	0.954	1.00	1.0	20	88.3	X340277 - X3J0087-02	
EPA 200.7	Calcium	mg/L	578	576	20.0	0.3	20	118	X340277 - X3J0087-02	D2
EPA 200.7	Chromium	mg/L	0.986	0.982	1.00	0.4	20	98.6	X340277 - X3J0087-02	
EPA 200.7	Iron	mg/L	9.50	9.59	10.0	1.0	20	95.0	X340277 - X3J0087-02	
EPA 200.7	Magnesium	mg/L	804	802	20.0	0.3	20	0.30R>S	X340277 - X3J0087-02	D2,M4
EPA 200.7	Manganese	mg/L	5.70	5.70	1.00	0.0	20	93.1	X340277 - X3J0087-02	
EPA 200.7	Molybdenum	mg/L	0.978	0.991	1.00	1.3	20	97.3	X340277 - X3J0087-02	
EPA 200.7	Nickel	mg/L	1.27	1.28	1.00	0.2	20	91.1	X340277 - X3J0087-02	
EPA 200.7	Phosphorus	mg/L	1.11	1.13	1.00	1.8	20	111	X340277 - X3J0087-02	
EPA 200.7	Potassium	mg/L	37.4	37.4	20.0	0.0	20	110	X340277 - X3J0087-02	
EPA 200.7	Sodium	mg/L	56.7	57.1	19.0	0.8	20	105	X340277 - X3J0087-02	
EPA 200.7	Zinc	mg/L	1.46	1.46	1.00	0.4	20	92.0	X340277 - X3J0087-02	
EPA 200.8	Antimony	mg/L	0.0255	0.0255	0.0250	0.2	20	97.9	X341018 - X3J0061-01	
EPA 200.8	Arsenic	mg/L	0.0247	0.0245	0.0250	0.7	20	98.9	X341018 - X3J0061-01	
EPA 200.8	Cadmium	mg/L	0.0239	0.0238	0.0250	0.6	20	95.6	X341018 - X3J0061-01	
EPA 200.8	Chromium	mg/L	0.0263	0.0257	0.0250	2.6	20	101	X341018 - X3J0061-01	
EPA 200.8	Copper	mg/L	0.0252	0.0256	0.0250	1.5	20	99.3	X341018 - X3J0061-01	
EPA 200.8	Lead	mg/L	0.0238	0.0239	0.0250	0.4	20	95.2	X341018 - X3J0061-01	
EPA 200.8	Selenium	mg/L	0.0218	0.0233	0.0250	6.6	20	83.3	X341018 - X3J0061-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.07	1.06	1.00	0.6	20	107	X340250 - X3J0097-01	
EPA 200.7	Barium	mg/L	1.07	1.07	1.00	0.0	20	105	X340250 - X3J0097-01	
EPA 200.7	Beryllium	mg/L	0.988	0.987	1.00	0.2	20	98.8	X340250 - X3J0097-01	
EPA 200.7	Boron	mg/L	0.962	0.965	1.00	0.3	20	96.2	X340250 - X3J0097-01	
EPA 200.7	Cadmium	mg/L	0.975	0.981	1.00	0.7	20	97.5	X340250 - X3J0097-01	
EPA 200.7	Calcium	mg/L	33.3	33.4	20.0	0.3	20	98.5	X340250 - X3J0097-01	
EPA 200.7	Chromium	mg/L	0.999	0.982	1.00	1.7	20	99.9	X340250 - X3J0097-01	
EPA 200.7	Cobalt	mg/L	0.968	0.982	1.00	1.5	20	96.8	X340250 - X3J0097-01	
EPA 200.7	Copper	mg/L	0.979	0.968	1.00	1.2	20	97.9	X340250 - X3J0097-01	
EPA 200.7	Iron	mg/L	9.86	9.95	10.0	0.9	20	97.9	X340250 - X3J0097-01	
EPA 200.7	Lead	mg/L	0.965	0.968	1.00	0.4	20	96.5	X340250 - X3J0097-01	
EPA 200.7	Lithium	mg/L	1.00	0.994	1.00	0.7	20	100	X340250 - X3J0097-01	
EPA 200.7	Magnesium	mg/L	22.3	22.3	20.0	0.2	20	97.8	X340250 - X3J0097-01	
EPA 200.7	Manganese	mg/L	1.02	1.01	1.00	0.4	20	101	X340250 - X3J0097-01	
EPA 200.7	Molybdenum	mg/L	0.964	0.971	1.00	0.7	20	96.4	X340250 - X3J0097-01	
EPA 200.7	Nickel	mg/L	0.960	0.971	1.00	1.1	20	96.0	X340250 - X3J0097-01	
EPA 200.7	Potassium	mg/L	21.7	21.6	20.0	0.4	20	101	X340250 - X3J0097-01	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Silver	mg/L	0.0504	0.0511	0.0500	1.4	20	101	X340250 - X3J0097-01	
EPA 200.7	Sodium	mg/L	25.5	25.3	19.0	0.5	20	98.9	X340250 - X3J0097-01	
EPA 200.7	Vanadium	mg/L	0.992	0.983	1.00	0.9	20	99.2	X340250 - X3J0097-01	
EPA 200.7	Zinc	mg/L	0.972	0.979	1.00	0.7	20	97.2	X340250 - X3J0097-01	
EPA 200.8	Antimony	mg/L	0.0255	0.0266	0.0250	4.3	20	102	X340135 - X3J0097-01	
EPA 200.8	Arsenic	mg/L	0.0264	0.0273	0.0250	3.4	20	104	X340135 - X3J0097-01	
EPA 200.8	Cadmium	mg/L	0.0254	0.0258	0.0250	1.6	20	101	X340135 - X3J0097-01	
EPA 200.8	Chromium	mg/L	0.0250	0.0255	0.0250	2.1	20	99.9	X340135 - X3J0097-01	
EPA 200.8	Copper	mg/L	0.0258	0.0265	0.0250	2.7	20	99.3	X340135 - X3J0097-01	
EPA 200.8	Lead	mg/L	0.0237	0.0239	0.0250	0.8	20	94.6	X340135 - X3J0097-01	
EPA 200.8	Selenium	mg/L	0.0277	0.0290	0.0250	4.3	20	111	X340135 - X3J0097-01	
EPA 200.8	Silver	mg/L	0.0238	0.0244	0.0250	2.3	20	95.4	X340135 - X3J0097-01	
EPA 200.8	Thallium	mg/L	0.0245	0.0246	0.0250	0.5	20	97.9	X340135 - X3J0097-01	
EPA 200.8	Uranium	mg/L	0.0259	0.0257	0.0250	0.6	20	103	X340135 - X3J0097-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00223	0.00214	0.00200	3.7	20	111	X341001 - X3J0088-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0800	0.0790	0.100	1.3	11	80.0	X341176 - X3J0097-01	
EPA 335.4	Cyanide (total)	mg/L	0.0947	0.0935	0.100	1.3	20	94.7	X340191 - X3I0449-01	
EPA 350.1	Ammonia as N	mg/L	1.04	1.02	1.00	2.2	20	104	X341137 - X3J0081-01	
EPA 351.2	TKN	mg/L	17.7	17.4	8.00	1.7	20	75.0	X340180 - X3I0543-01	M2
OIA 1677	Cyanide (WAD)	mg/L	0.100	0.100	0.100	0.0	11	100	X340269 - X3I0449-01	
SM 4500 S D	Sulfide	mg/L	3.38	3.28	0.200	2.9	20	0.30R>S	X341056 - X3J0187-03	D2,M4
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0216	0.0230	0.0222	6.2	20	97.2	X340229 - X3I0449-03	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.46	3.40	3.00	1.5	20	99.4	X340170 - X3J0095-01	
EPA 300.0	Fluoride	mg/L	2.19	2.16	2.00	1.3	20	101	X340170 - X3J0095-01	
EPA 300.0	Nitrate as N	mg/L	2.02	1.99	2.00	1.5	20	101	X340170 - X3J0095-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	4.02	4.00	1.4	20	102	X340170 - X3J0095-01	
EPA 300.0	Nitrite as N	mg/L	2.06	2.03	2.00	1.2	20	103	X340170 - X3J0095-01	
EPA 300.0	Sulfate as SO4	mg/L	20.4	20.2	10.0	0.7	20	99.2	X340170 - X3J0095-01	

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Work Order: **X3J0097**
Reported: 18-Oct-23 09:38

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
J	The reported value is less than the Reporting Limit (MRL, CRDL) but greater than or equal to the MDL. Results closer to the MDL have increased relative uncertainty.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
U	Less than MDL.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Client Sample ID: **RB1-1004**
SVL Sample ID: **X3J0149-01 (Ground Water)**

Sampled: 04-Oct-23 08:50
Received: 06-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	0.360	mg/L	0.100	0.069		X341025	JRR	10/13/23 12:10	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X341025	JRR	10/13/23 12:10	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X341025	JRR	10/13/23 12:10	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		10/13/23 12:10	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X341090	JRR	10/19/23 13:55	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X341090	JRR	10/19/23 13:55	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X341090	JRR	10/19/23 13:55	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X341090	JRR	10/19/23 13:55	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X341090	JRR	10/19/23 13:55	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X341090	JRR	10/19/23 13:55	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X341090	JRR	10/19/23 13:55	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X341090	JRR	10/19/23 13:55	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X341090	JRR	10/19/23 13:55	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X341090	JRR	10/19/23 13:55	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X341090	JRR	10/19/23 14:42	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X341090	JRR	10/19/23 13:55	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X341090	JRR	10/19/23 13:55	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X341090	JRR	10/19/23 13:55	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X341090	JRR	10/19/23 13:55	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X341090	JRR	10/19/23 13:55	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X341090	JRR	10/19/23 13:55	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X341090	JRR	10/19/23 13:55	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X341090	JRR	10/19/23 13:55	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X341090	JRR	10/19/23 14:42	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X341090	JRR	10/19/23 14:42	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X340298	SMU	10/16/23 17:53	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X340298	SMU	10/16/23 17:53	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X340298	SMU	10/16/23 17:53	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X340298	SMU	10/16/23 17:53	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X340298	SMU	10/16/23 17:53	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341002	NMS	10/09/23 14:13	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X341176	DD	10/12/23 17:10	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342016	DD	10/17/23 10:22	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342115	JRR	10/18/23 18:07	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X340270	DD	10/09/23 10:05	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X342025	MWD	10/16/23 12:24	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:03	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:03	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:03	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:03	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X340303	TJL	10/10/23 14:25	
SM 2540 D	**Total Susp. Solids**	28.0	mg/L	5.0			X340304	TJL	10/10/23 15:30	
SM 4500 H B	**pH @19.6°C**	5.6	pH Units				X341044	MWD	10/11/23 14:03	H5

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Client Sample ID: **RB1-1004**
SVL Sample ID: **X3J0149-01 (Ground Water)**

Sampled: 04-Oct-23 08:50
Received: 06-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 0.20	mg/L	0.20	0.02		X340259	RS	10/06/23 12:56	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X340259	RS	10/06/23 12:56	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X340259	RS	10/06/23 12:56	H3
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X340259	RS	10/06/23 12:56	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X340259	RS	10/06/23 12:56	H3
EPA 300.0	**Sulfate as SO4**	0.57	mg/L	0.30	0.18		X340259	RS	10/06/23 12:56	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 0.03 meq/L Anion Sum: 0.04 meq/L C/A Balance: -4.16 % Calculated TDS: 1 TDS/cTDS: 0.00

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Client Sample ID: **RB2-1004**
SVL Sample ID: **X3J0149-02 (Ground Water)**

Sampled: 04-Oct-23 09:45
Received: 06-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X341025	JRR	10/13/23 12:21	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X341025	JRR	10/13/23 12:21	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X341025	JRR	10/13/23 12:21	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		10/13/23 12:21	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X341090	JRR	10/19/23 13:58	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X341090	JRR	10/19/23 13:58	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X341090	JRR	10/19/23 13:58	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X341090	JRR	10/19/23 13:58	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X341090	JRR	10/19/23 13:58	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X341090	JRR	10/19/23 13:58	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X341090	JRR	10/19/23 13:58	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X341090	JRR	10/19/23 13:58	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X341090	JRR	10/19/23 13:58	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X341090	JRR	10/19/23 13:58	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X341090	JRR	10/19/23 14:46	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X341090	JRR	10/19/23 13:58	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X341090	JRR	10/19/23 13:58	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X341090	JRR	10/19/23 13:58	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X341090	JRR	10/19/23 13:58	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X341090	JRR	10/19/23 13:58	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X341090	JRR	10/19/23 13:58	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X341090	JRR	10/19/23 13:58	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X341090	JRR	10/19/23 13:58	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X341090	JRR	10/19/23 14:46	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X341090	JRR	10/19/23 14:46	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X340298	SMU	10/16/23 17:56	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X340298	SMU	10/16/23 17:56	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X340298	SMU	10/16/23 17:56	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X340298	SMU	10/16/23 17:56	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X340298	SMU	10/16/23 17:56	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341002	NMS	10/09/23 14:15	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X341176	DD	10/12/23 17:12	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342016	DD	10/17/23 10:25	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342115	JRR	10/18/23 18:10	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X340270	DD	10/09/23 10:11	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X342025	MWD	10/16/23 12:24	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:08	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:08	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:08	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:08	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X340303	TJL	10/10/23 14:25	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X340304	TJL	10/10/23 15:30	
SM 4500 H B	**pH @19.5°C**	5.8	pH Units				X341044	MWD	10/11/23 14:08	H5

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Client Sample ID: **RB2-1004**
SVL Sample ID: **X3J0149-02 (Ground Water)**

Sampled: 04-Oct-23 09:45
Received: 06-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 0.20	mg/L	0.20	0.02		X340259	RS	10/06/23 13:30	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X340259	RS	10/06/23 13:30	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X340259	RS	10/06/23 13:30	H3
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X340259	RS	10/06/23 13:30	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X340259	RS	10/06/23 13:30	H3
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X340259	RS	10/06/23 13:30	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 0.03 meq/L Anion Sum: 0.03 meq/L C/A Balance: 8.33 % Calculated TDS: 0

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Client Sample ID: **CCVB-1004**
SVL Sample ID: **X3J0149-05 (Ground Water)**

Sampled: 04-Oct-23 14:15
Received: 06-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X341025	JRR	10/13/23 12:32	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X341025	JRR	10/13/23 12:32	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X341025	JRR	10/13/23 12:32	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		10/19/23 14:16	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X341090	JRR	10/19/23 14:16	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X341090	JRR	10/19/23 14:16	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X341090	JRR	10/19/23 14:16	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X341090	JRR	10/19/23 14:16	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X341090	JRR	10/19/23 14:16	
EPA 200.7	**Calcium**	0.181	mg/L	0.100	0.069		X341090	JRR	10/19/23 14:16	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X341090	JRR	10/19/23 14:16	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X341090	JRR	10/19/23 14:16	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X341090	JRR	10/19/23 14:16	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X341090	JRR	10/19/23 14:16	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X341090	JRR	10/19/23 15:02	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X341090	JRR	10/19/23 14:16	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X341090	JRR	10/19/23 14:16	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X341090	JRR	10/19/23 14:16	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X341090	JRR	10/19/23 14:16	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X341090	JRR	10/19/23 14:16	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X341090	JRR	10/19/23 14:16	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X341090	JRR	10/19/23 14:16	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X341090	JRR	10/19/23 14:16	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X341090	JRR	10/19/23 15:02	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X341090	JRR	10/19/23 15:02	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X340298	SMU	10/16/23 18:13	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X340298	SMU	10/16/23 18:13	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X340298	SMU	10/17/23 16:20	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X340298	SMU	10/16/23 18:13	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X340298	SMU	10/16/23 18:13	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341002	NMS	10/09/23 14:22	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X341176	DD	10/12/23 17:24	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342016	DD	10/17/23 10:43	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342115	JRR	10/18/23 18:18	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X340270	DD	10/09/23 10:15	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X342025	MWD	10/16/23 12:24	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:33	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:33	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:33	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X341044	MWD	10/11/23 14:33	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X340303	TJL	10/10/23 14:25	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X340304	TJL	10/10/23 15:30	
SM 4500 H B	**pH @20.0°C**	5.9	pH Units				X341044	MWD	10/11/23 14:33	H5

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Client Sample ID: **CCVB-1004**
SVL Sample ID: **X3J0149-05 (Ground Water)**

Sampled: 04-Oct-23 14:15
Received: 06-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 0.20	mg/L	0.20	0.02		X340259	RS	10/06/23 12:05	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X340259	RS	10/06/23 12:05	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X340259	RS	10/06/23 12:05	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X340259	RS	10/06/23 12:05	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X340259	RS	10/06/23 12:05	
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X340259	RS	10/06/23 12:05	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 0.03 meq/L Anion Sum: 0.03 meq/L C/A Balance: 8.33 % Calculated TDS: 0 TDS/cTDS: 0.00

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X341025	13-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X341025	13-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X341025	13-Oct-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X341090	19-Oct-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X341090	19-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X341090	19-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X341090	19-Oct-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X341090	19-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X341090	19-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X341090	19-Oct-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X341090	19-Oct-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X341090	19-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X341090	19-Oct-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X341090	19-Oct-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X341090	19-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X341090	19-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X341090	19-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X341090	19-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X341090	19-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X341090	19-Oct-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X341090	19-Oct-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X341090	19-Oct-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X341090	19-Oct-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X341090	19-Oct-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X340298	16-Oct-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X340298	16-Oct-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X340298	16-Oct-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X340298	16-Oct-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X340298	16-Oct-23	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X341002	09-Oct-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X341176	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X342016	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X342115	18-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X340270	09-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X342025	16-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X341044	11-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X341044	11-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X341044	11-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X341044	11-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X340303	10-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X340304	10-Oct-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X340259	06-Oct-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X340259	06-Oct-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X340259	06-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X340259	06-Oct-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X340259	06-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X340259	06-Oct-23	

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.3	20.0	96.3	85 - 115	X341025	13-Oct-23	
EPA 200.7	Magnesium	mg/L	18.6	20.0	92.9	85 - 115	X341025	13-Oct-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.9	85 - 115	X341025	13-Oct-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.03	1.00	103	85 - 115	X341090	19-Oct-23	
EPA 200.7	Barium	mg/L	1.06	1.00	106	85 - 115	X341090	19-Oct-23	
EPA 200.7	Beryllium	mg/L	0.916	1.00	91.6	85 - 115	X341090	19-Oct-23	
EPA 200.7	Boron	mg/L	0.978	1.00	97.8	85 - 115	X341090	19-Oct-23	
EPA 200.7	Cadmium	mg/L	0.968	1.00	96.8	85 - 115	X341090	19-Oct-23	
EPA 200.7	Calcium	mg/L	19.7	20.0	98.3	85 - 115	X341090	19-Oct-23	
EPA 200.7	Chromium	mg/L	0.982	1.00	98.2	85 - 115	X341090	19-Oct-23	
EPA 200.7	Cobalt	mg/L	0.966	1.00	96.6	85 - 115	X341090	19-Oct-23	
EPA 200.7	Copper	mg/L	0.972	1.00	97.2	85 - 115	X341090	19-Oct-23	
EPA 200.7	Iron	mg/L	9.74	10.0	97.4	85 - 115	X341090	19-Oct-23	
EPA 200.7	Lead	mg/L	0.966	1.00	96.6	85 - 115	X341090	19-Oct-23	
EPA 200.7	Lithium	mg/L	0.929	1.00	92.9	85 - 115	X341090	19-Oct-23	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.8	85 - 115	X341090	19-Oct-23	
EPA 200.7	Manganese	mg/L	0.985	1.00	98.5	85 - 115	X341090	19-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.984	1.00	98.4	85 - 115	X341090	19-Oct-23	
EPA 200.7	Nickel	mg/L	0.966	1.00	96.6	85 - 115	X341090	19-Oct-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.0	85 - 115	X341090	19-Oct-23	
EPA 200.7	Silver	mg/L	0.0471	0.0500	94.2	85 - 115	X341090	19-Oct-23	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.3	85 - 115	X341090	19-Oct-23	
EPA 200.7	Vanadium	mg/L	1.05	1.00	105	85 - 115	X341090	19-Oct-23	
EPA 200.7	Zinc	mg/L	0.971	1.00	97.1	85 - 115	X341090	19-Oct-23	
EPA 200.8	Antimony	mg/L	0.0264	0.0250	106	85 - 115	X340298	16-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0231	0.0250	92.4	85 - 115	X340298	17-Oct-23	
EPA 200.8	Selenium	mg/L	0.0222	0.0250	88.7	85 - 115	X340298	17-Oct-23	
EPA 200.8	Thallium	mg/L	0.0282	0.0250	113	85 - 115	X340298	16-Oct-23	
EPA 200.8	Uranium	mg/L	0.0278	0.0250	111	85 - 115	X340298	17-Oct-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00206	0.00200	103	85 - 115	X341002	09-Oct-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.100	98.0	90 - 110	X341176	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.0969	0.100	96.9	90 - 110	X342016	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X342115	18-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0980	0.100	98.0	90 - 110	X340270	09-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	98.6	95.4 - 104	X342025	16-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X341044	11-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X341044	11-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	400	397	101	96.4 - 105	X341044	11-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X340304	10-Oct-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.7	90 - 110	X340259	06-Oct-23	
EPA 300.0	Fluoride	mg/L	2.00	2.00	100	90 - 110	X340259	06-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	101	90 - 110	X340259	06-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.58	4.50	102	90 - 110	X340259	06-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.57	2.50	103	90 - 110	X340259	06-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.0	105	90 - 110	X340259	06-Oct-23	

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X342025 - X3J0149-01	16-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	542	543	0.2	20	X341044 - X3J0187-03	11-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	542	543	0.2	20	X341044 - X3J0187-03	11-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X341044 - X3J0187-03	11-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X341044 - X3J0187-03	11-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	1530	1520	1.1	10	X340303 - X3J0149-03	10-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	966	973	0.7	10	X340303 - X3J0149-04	10-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	10.5	10	X340304 - X3J0149-04	10-Oct-23	R2B
SM 2540 D	Total Susp. Solids	mg/L	9.0	9.0	0.0	10	X340304 - X3J0149-03	10-Oct-23	
SM 4500 H B	pH @20.0°C	pH Units	6.9	6.9	0.3	20	X341044 - X3J0187-03	11-Oct-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	20.2	0.360	20.0	99.0	70 - 130	X341025 - X3J0149-01	13-Oct-23	
EPA 200.7	Calcium	mg/L	75.2	52.5	20.0	113	70 - 130	X341025 - X3J0152-36	13-Oct-23	
EPA 200.7	Magnesium	mg/L	19.3	<0.500	20.0	96.3	70 - 130	X341025 - X3J0149-01	13-Oct-23	
EPA 200.7	Magnesium	mg/L	34.0	12.9	20.0	106	70 - 130	X341025 - X3J0152-36	13-Oct-23	
EPA 200.7	Potassium	mg/L	19.9	<0.50	20.0	99.6	70 - 130	X341025 - X3J0149-01	13-Oct-23	
EPA 200.7	Potassium	mg/L	21.8	1.27	20.0	103	70 - 130	X341025 - X3J0152-36	13-Oct-23	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.06	<0.080	1.00	106	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Barium	mg/L	1.07	<0.0020	1.00	107	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Beryllium	mg/L	0.941	<0.00200	1.00	94.1	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	102	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Cadmium	mg/L	1.00	<0.0020	1.00	100	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Calcium	mg/L	19.9	<0.100	20.0	99.6	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Chromium	mg/L	1.02	<0.0060	1.00	102	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Cobalt	mg/L	1.00	<0.0060	1.00	100	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Copper	mg/L	0.996	<0.0100	1.00	99.6	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Iron	mg/L	9.80	<0.100	10.0	98.0	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Lead	mg/L	0.974	<0.0075	1.00	97.4	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Lithium	mg/L	0.937	<0.040	1.00	93.7	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Magnesium	mg/L	19.5	<0.500	20.0	97.3	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Manganese	mg/L	1.03	<0.0080	1.00	103	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	101	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Nickel	mg/L	0.998	<0.0100	1.00	99.8	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Potassium	mg/L	19.6	<0.50	20.0	97.8	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Silver	mg/L	0.0481	<0.0050	0.0500	96.1	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Sodium	mg/L	18.7	<0.50	19.0	98.6	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.7	Zinc	mg/L	0.979	<0.0100	1.00	97.9	70 - 130	X341090 - X3J0149-02	19-Oct-23	
EPA 200.8	Antimony	mg/L	0.0301	<0.00100	0.0250	121	70 - 130	X340298 - X3J0142-04	16-Oct-23	
EPA 200.8	Antimony	mg/L	0.0268	<0.00100	0.0250	107	70 - 130	X340298 - X3J0163-02	16-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0334	<0.00100	0.0250	131	70 - 130	X340298 - X3J0142-04	16-Oct-23	M1
EPA 200.8	Arsenic	mg/L	0.0285	<0.00100	0.0250	112	70 - 130	X340298 - X3J0163-02	16-Oct-23	
EPA 200.8	Selenium	mg/L	0.0374	<0.00100	0.0250	146	70 - 130	X340298 - X3J0142-04	16-Oct-23	M1

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Selenium	mg/L	0.0289	<0.00100	0.0250	113	70 - 130	X340298 - X3J0163-02	17-Oct-23	
EPA 200.8	Thallium	mg/L	0.0311	<0.000200	0.0250	124	70 - 130	X340298 - X3J0142-04	16-Oct-23	
EPA 200.8	Thallium	mg/L	0.0278	<0.000200	0.0250	111	70 - 130	X340298 - X3J0163-02	16-Oct-23	
EPA 200.8	Uranium	mg/L	0.0325	0.000393	0.0250	128	70 - 130	X340298 - X3J0142-04	16-Oct-23	
EPA 200.8	Uranium	mg/L	0.0292	0.000168	0.0250	116	70 - 130	X340298 - X3J0163-02	16-Oct-23	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00203	<0.000200	0.00200	102	70 - 130	X341002 - X3J0149-01	09-Oct-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0790	<0.0050	0.100	79.0	79 - 121	X341176 - X3J0097-01	12-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X342016 - X3J0148-01	17-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X342016 - X3J0149-01	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	99.7	90 - 110	X342115 - X3J0149-01	18-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	101	90 - 110	X342115 - X3J0149-02	18-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	<0.0050	0.100	94.0	82 - 118	X340270 - X3J0149-01	09-Oct-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.96	<0.20	3.00	98.7	90 - 110	X340259 - X3J0149-05	06-Oct-23	
EPA 300.0	Chloride	mg/L	3.00	<0.20	3.00	98.9	90 - 110	X340259 - X3J0149-01	06-Oct-23	
EPA 300.0	Fluoride	mg/L	2.00	<0.100	2.00	99.8	90 - 110	X340259 - X3J0149-05	06-Oct-23	
EPA 300.0	Fluoride	mg/L	2.01	<0.100	2.00	101	90 - 110	X340259 - X3J0149-01	06-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.00	<0.050	2.00	99.9	90 - 110	X340259 - X3J0149-05	06-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.01	<0.050	2.00	101	90 - 110	X340259 - X3J0149-01	06-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.03	<0.100	4.00	101	90 - 110	X340259 - X3J0149-05	06-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.05	<0.100	4.00	101	90 - 110	X340259 - X3J0149-01	06-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X340259 - X3J0149-05	06-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X340259 - X3J0149-01	06-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.4	<0.30	10.0	104	90 - 110	X340259 - X3J0149-05	06-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.9	0.57	10.0	104	90 - 110	X340259 - X3J0149-01	06-Oct-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	19.7	20.2	20.0	2.2	20	96.8	X341025 - X3J0149-01	
EPA 200.7	Magnesium	mg/L	18.9	19.3	20.0	1.8	20	94.6	X341025 - X3J0149-01	
EPA 200.7	Potassium	mg/L	19.5	19.9	20.0	2.3	20	97.3	X341025 - X3J0149-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.03	1.06	1.00	3.1	20	103	X341090 - X3J0149-02	
EPA 200.7	Barium	mg/L	1.07	1.07	1.00	0.2	20	107	X341090 - X3J0149-02	
EPA 200.7	Beryllium	mg/L	0.888	0.941	1.00	5.8	20	88.8	X341090 - X3J0149-02	
EPA 200.7	Boron	mg/L	0.979	1.02	1.00	3.8	20	97.9	X341090 - X3J0149-02	
EPA 200.7	Cadmium	mg/L	0.961	1.00	1.00	4.1	20	96.1	X341090 - X3J0149-02	
EPA 200.7	Calcium	mg/L	19.5	19.9	20.0	2.2	20	97.4	X341090 - X3J0149-02	
EPA 200.7	Chromium	mg/L	0.984	1.02	1.00	3.3	20	98.4	X341090 - X3J0149-02	
EPA 200.7	Cobalt	mg/L	0.962	1.00	1.00	3.9	20	96.2	X341090 - X3J0149-02	
EPA 200.7	Copper	mg/L	0.960	0.996	1.00	3.7	20	96.0	X341090 - X3J0149-02	
EPA 200.7	Iron	mg/L	9.69	9.80	10.0	1.1	20	96.9	X341090 - X3J0149-02	
EPA 200.7	Lead	mg/L	0.971	0.974	1.00	0.3	20	97.1	X341090 - X3J0149-02	

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lithium	mg/L	0.905	0.937	1.00	3.5	20	90.5	X341090 - X3J0149-02	
EPA 200.7	Magnesium	mg/L	19.4	19.5	20.0	0.3	20	96.9	X341090 - X3J0149-02	
EPA 200.7	Manganese	mg/L	0.987	1.03	1.00	3.8	20	98.7	X341090 - X3J0149-02	
EPA 200.7	Molybdenum	mg/L	0.970	1.01	1.00	4.2	20	97.0	X341090 - X3J0149-02	
EPA 200.7	Nickel	mg/L	0.960	0.998	1.00	3.9	20	96.0	X341090 - X3J0149-02	
EPA 200.7	Potassium	mg/L	19.2	19.6	20.0	1.6	20	96.2	X341090 - X3J0149-02	
EPA 200.7	Silver	mg/L	0.0458	0.0481	0.0500	4.7	20	91.7	X341090 - X3J0149-02	
EPA 200.7	Sodium	mg/L	18.4	18.7	19.0	2.1	20	96.6	X341090 - X3J0149-02	
EPA 200.7	Vanadium	mg/L	1.04	1.04	1.00	0.4	20	104	X341090 - X3J0149-02	
EPA 200.7	Zinc	mg/L	0.981	0.979	1.00	0.1	20	98.1	X341090 - X3J0149-02	
EPA 200.8	Antimony	mg/L	0.0310	0.0301	0.0250	2.8	20	124	X340298 - X3J0142-04	
EPA 200.8	Arsenic	mg/L	0.0333	0.0334	0.0250	0.3	20	131	X340298 - X3J0142-04	M1
EPA 200.8	Selenium	mg/L	0.0375	0.0374	0.0250	0.4	20	147	X340298 - X3J0142-04	M1
EPA 200.8	Thallium	mg/L	0.0303	0.0311	0.0250	2.6	20	121	X340298 - X3J0142-04	
EPA 200.8	Uranium	mg/L	0.0317	0.0325	0.0250	2.3	20	125	X340298 - X3J0142-04	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00221	0.00203	0.00200	8.6	20	111	X341002 - X3J0149-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0800	0.0790	0.100	1.3	11	80.0	X341176 - X3J0097-01	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.102	0.100	0.4	20	102	X342016 - X3J0148-01	
EPA 350.1	Ammonia as N	mg/L	0.989	1.02	1.00	2.8	20	96.9	X342115 - X3J0149-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0870	0.0960	0.100	9.8	11	85.0	X340270 - X3J0149-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.03	2.96	3.00	2.4	20	101	X340259 - X3J0149-05	
EPA 300.0	Fluoride	mg/L	2.04	2.00	2.00	2.3	20	102	X340259 - X3J0149-05	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	2.00	2.3	20	102	X340259 - X3J0149-05	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.12	4.03	4.00	2.1	20	103	X340259 - X3J0149-05	
EPA 300.0	Nitrite as N	mg/L	2.08	2.04	2.00	1.9	20	104	X340259 - X3J0149-05	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.4	10.0	1.9	20	106	X340259 - X3J0149-05	

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Work Order: **X3J0149**
Reported: 20-Oct-23 13:52

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Client Sample ID: **RB-1010**
SVL Sample ID: **X3J0198-02 (Ground Water)**

Sampled: 10-Oct-23 11:23
Received: 11-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X342014	JRR	10/17/23 11:32	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X342014	JRR	10/17/23 11:32	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X342014	JRR	10/17/23 11:32	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		10/17/23 11:32	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X342205	JRR	10/23/23 14:01	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X342205	JRR	10/23/23 14:01	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X342205	JRR	10/23/23 14:01	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X342205	JRR	10/23/23 12:26	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X342205	JRR	10/23/23 14:01	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X342205	JRR	10/23/23 14:01	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X342205	JRR	10/23/23 14:01	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X342205	JRR	10/23/23 14:01	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X342205	JRR	10/23/23 14:01	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X342205	JRR	10/23/23 14:01	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X342205	JRR	10/23/23 14:01	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X342205	JRR	10/23/23 14:01	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X342205	JRR	10/23/23 14:01	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X342205	JRR	10/23/23 14:01	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342205	JRR	10/23/23 14:01	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X342205	JRR	10/23/23 14:01	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X342205	JRR	10/23/23 14:01	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X342205	JRR	10/23/23 12:26	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X342205	JRR	10/23/23 14:01	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X342205	JRR	10/23/23 14:01	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X342205	JRR	10/23/23 14:01	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X341238	SMU	10/23/23 15:16	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X341238	SMU	10/23/23 15:16	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X341238	SMU	10/23/23 15:16	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X341238	SMU	10/23/23 15:16	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X341238	SMU	10/23/23 15:16	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341051	MAC	10/16/23 14:16	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X342148	DD	10/18/23 16:53	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342016	DD	10/17/23 10:59	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342117	JRR	10/20/23 13:05	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X342247	DD	10/23/23 14:31	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X343033	MWD	10/23/23 14:07	
SM 2320 B	**Total Alkalinity**	1.3	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:17	
SM 2320 B	**Bicarbonate**	1.3	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:17	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:17	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:17	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X341161	TJL	10/13/23 14:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X341162	TJL	10/16/23 17:00	
SM 4500 H B	**pH @17.2°C**	6.1	pH Units				X342068	MWD	10/18/23 11:17	H5

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Client Sample ID: **RB-1010**
SVL Sample ID: **X3J0198-02 (Ground Water)**

Sampled: 10-Oct-23 11:23
Received: 11-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 0.20	mg/L	0.20	0.02		X341112	RS	10/11/23 12:27	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X341112	RS	10/11/23 12:27	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X341112	RS	10/11/23 12:27	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X341112	RS	10/11/23 12:27	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X341112	RS	10/11/23 12:27	
EPA 300.0	**Sulfate as SO4**	0.46	mg/L	0.30	0.18		X341112	RS	10/11/23 12:27	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 0.03 meq/L Anion Sum: 0.04 meq/L C/A Balance: -8.94 % Calculated TDS: 1 TDS/cTDS: 0.00

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X342009	17-Oct-23	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X342014	17-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X342014	17-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X342014	17-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X342014	17-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X342014	17-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X342014	17-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X342014	17-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X342014	17-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X342014	17-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X342014	17-Oct-23	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X342014	17-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X342014	17-Oct-23	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X342014	17-Oct-23	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X342014	17-Oct-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X342015	20-Oct-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X342015	20-Oct-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X342015	20-Oct-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X342015	20-Oct-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X342015	20-Oct-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X342015	20-Oct-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X342015	20-Oct-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X342205	23-Oct-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X342205	23-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X342205	23-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X342205	23-Oct-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X342205	23-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X342205	23-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X342205	23-Oct-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X342205	23-Oct-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X342205	23-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X342205	23-Oct-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X342205	23-Oct-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X342205	23-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X342205	23-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X342205	23-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X342205	23-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X342205	23-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X342205	23-Oct-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X342205	23-Oct-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X342205	23-Oct-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X342205	23-Oct-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X342205	23-Oct-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X341238	23-Oct-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X341238	23-Oct-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X341238	23-Oct-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X341238	23-Oct-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X341238	23-Oct-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X341238	23-Oct-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X341238	23-Oct-23	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X341238	23-Oct-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X341238	23-Oct-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X341238	23-Oct-23	

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X341051	16-Oct-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X342148	18-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X342016	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X342117	20-Oct-23	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X341130	12-Oct-23	
Hach 8167	Total Chlorine	mg/L	<0.020		0.020	X341119	11-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X342247	23-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X343033	23-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X342068	18-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X342068	18-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X342068	18-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X342068	18-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X341161	13-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X341162	16-Oct-23	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X342064	17-Oct-23	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X342226	19-Oct-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X341112	11-Oct-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X341112	11-Oct-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X341112	11-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X341112	11-Oct-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X341112	11-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X341112	11-Oct-23	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 245.1	Mercury	mg/L	0.00211	0.00200	106	85 - 115	X342009	17-Oct-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	0.962	1.00	96.2	85 - 115	X342014	17-Oct-23	
EPA 200.7	Beryllium	mg/L	0.964	1.00	96.4	85 - 115	X342014	17-Oct-23	
EPA 200.7	Boron	mg/L	0.955	1.00	95.5	85 - 115	X342014	17-Oct-23	
EPA 200.7	Calcium	mg/L	19.4	20.0	97.2	85 - 115	X342014	17-Oct-23	
EPA 200.7	Chromium	mg/L	0.988	1.00	98.8	85 - 115	X342014	17-Oct-23	
EPA 200.7	Iron	mg/L	9.55	10.0	95.5	85 - 115	X342014	17-Oct-23	
EPA 200.7	Magnesium	mg/L	19.0	20.0	94.9	85 - 115	X342014	17-Oct-23	
EPA 200.7	Manganese	mg/L	0.966	1.00	96.6	85 - 115	X342014	17-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.977	1.00	97.7	85 - 115	X342014	17-Oct-23	
EPA 200.7	Nickel	mg/L	0.957	1.00	95.7	85 - 115	X342014	17-Oct-23	
EPA 200.7	Phosphorus	mg/L	0.994	1.00	99.4	85 - 115	X342014	17-Oct-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.1	85 - 115	X342014	17-Oct-23	
EPA 200.7	Sodium	mg/L	18.4	19.0	96.7	85 - 115	X342014	17-Oct-23	
EPA 200.7	Zinc	mg/L	0.958	1.00	95.8	85 - 115	X342014	17-Oct-23	
EPA 200.8	Antimony	mg/L	0.0240	0.0250	95.8	85 - 115	X342015	20-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0234	0.0250	93.8	85 - 115	X342015	20-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0231	0.0250	92.4	85 - 115	X342015	20-Oct-23	

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)									
EPA 200.8	Chromium	mg/L	0.0236	0.0250	94.5	85 - 115	X342015	20-Oct-23	
EPA 200.8	Copper	mg/L	0.0240	0.0250	95.8	85 - 115	X342015	20-Oct-23	
EPA 200.8	Lead	mg/L	0.0230	0.0250	91.9	85 - 115	X342015	20-Oct-23	
EPA 200.8	Selenium	mg/L	0.0215	0.0250	85.9	85 - 115	X342015	20-Oct-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.08	1.00	108	85 - 115	X342205	23-Oct-23	
EPA 200.7	Barium	mg/L	1.07	1.00	107	85 - 115	X342205	23-Oct-23	
EPA 200.7	Beryllium	mg/L	1.02	1.00	102	85 - 115	X342205	23-Oct-23	
EPA 200.7	Boron	mg/L	0.978	1.00	97.8	85 - 115	X342205	23-Oct-23	
EPA 200.7	Cadmium	mg/L	1.00	1.00	100	85 - 115	X342205	23-Oct-23	
EPA 200.7	Calcium	mg/L	20.3	20.0	102	85 - 115	X342205	23-Oct-23	
EPA 200.7	Chromium	mg/L	1.05	1.00	105	85 - 115	X342205	23-Oct-23	
EPA 200.7	Cobalt	mg/L	0.998	1.00	99.8	85 - 115	X342205	23-Oct-23	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X342205	23-Oct-23	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X342205	23-Oct-23	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X342205	23-Oct-23	
EPA 200.7	Lithium	mg/L	1.04	1.00	104	85 - 115	X342205	23-Oct-23	
EPA 200.7	Magnesium	mg/L	20.1	20.0	101	85 - 115	X342205	23-Oct-23	
EPA 200.7	Manganese	mg/L	1.04	1.00	104	85 - 115	X342205	23-Oct-23	
EPA 200.7	Molybdenum	mg/L	1.00	1.00	100	85 - 115	X342205	23-Oct-23	
EPA 200.7	Nickel	mg/L	0.998	1.00	99.8	85 - 115	X342205	23-Oct-23	
EPA 200.7	Potassium	mg/L	20.9	20.0	105	85 - 115	X342205	23-Oct-23	
EPA 200.7	Silver	mg/L	0.0521	0.0500	104	85 - 115	X342205	23-Oct-23	
EPA 200.7	Sodium	mg/L	19.3	19.0	101	85 - 115	X342205	23-Oct-23	
EPA 200.7	Vanadium	mg/L	1.04	1.00	104	85 - 115	X342205	23-Oct-23	
EPA 200.7	Zinc	mg/L	1.03	1.00	103	85 - 115	X342205	23-Oct-23	
EPA 200.8	Antimony	mg/L	0.0232	0.0250	92.9	85 - 115	X341238	23-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0241	0.0250	96.2	85 - 115	X341238	23-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0243	0.0250	97.2	85 - 115	X341238	23-Oct-23	
EPA 200.8	Chromium	mg/L	0.0222	0.0250	88.8	85 - 115	X341238	23-Oct-23	
EPA 200.8	Copper	mg/L	0.0230	0.0250	92.1	85 - 115	X341238	23-Oct-23	
EPA 200.8	Lead	mg/L	0.0237	0.0250	94.8	85 - 115	X341238	23-Oct-23	
EPA 200.8	Selenium	mg/L	0.0251	0.0250	100	85 - 115	X341238	23-Oct-23	
EPA 200.8	Silver	mg/L	0.0237	0.0250	94.8	85 - 115	X341238	23-Oct-23	
EPA 200.8	Thallium	mg/L	0.0230	0.0250	92.1	85 - 115	X341238	23-Oct-23	
EPA 200.8	Uranium	mg/L	0.0241	0.0250	96.2	85 - 115	X341238	23-Oct-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00206	0.00200	103	85 - 115	X341051	16-Oct-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.100	97.0	90 - 110	X342148	18-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.0969	0.100	96.9	90 - 110	X342016	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	0.975	1.00	97.5	90 - 110	X342117	20-Oct-23	
EPA 351.2	TKN	mg/L	7.34	8.00	91.7	90 - 110	X341130	12-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X342247	23-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	98.6	95.4 - 104	X343033	23-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X342068	18-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X342068	18-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X341162	16-Oct-23	
SM 4500 S D	Sulfide	mg/L	0.521	0.500	104	85 - 115	X342064	17-Oct-23	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.103	0.100	103	80 - 120	X342226	19-Oct-23	

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X341112	11-Oct-23	
EPA 300.0	Fluoride	mg/L	2.03	2.00	102	90 - 110	X341112	11-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	102	90 - 110	X341112	11-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.61	4.50	102	90 - 110	X341112	11-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X341112	11-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X341112	11-Oct-23	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
Hach 8167	Total Chlorine	mg/L	0.120	0.0300	120.0	20	X341119 - X3J0198-01	11-Oct-23	H5,R2B
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X343033 - X3J0234-11	23-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	159	158	0.1	20	X342068 - X3J0198-03	18-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	159	158	0.1	20	X342068 - X3J0198-03	18-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X342068 - X3J0198-03	18-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X342068 - X3J0198-03	18-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	217	223	2.7	10	X341161 - X3J0198-01	13-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	258	281	8.5	10	X341161 - X3J0207-02	13-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	11.0	11.0	0.0	10	X341162 - X3J0198-01	16-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X341162 - X3J0207-02	16-Oct-23	
SM 4500 H B	pH @16.9°C	pH Units	7.9	8.0	0.4	20	X342068 - X3J0198-03	18-Oct-23	
SM 4500-O-G	Dissolved Oxygen	mg/L	6.1	5.9	3.3	20	X342103 - X3J0198-01	19-Oct-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00432	<0.000093	0.00400	108	70 - 130	X342009 - X3J0242-02	17-Oct-23	
EPA 245.1	Mercury	mg/L	0.00452	<0.000093	0.00400	113	70 - 130	X342009 - X3J0242-13	17-Oct-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.00	0.0348	1.00	96.8	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Barium	mg/L	0.636	0.0197	1.00	61.6	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1,M4
EPA 200.7	Beryllium	mg/L	0.971	<0.00200	1.00	97.1	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Beryllium	mg/L	1.63	0.652	1.00	97.3	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Boron	mg/L	0.991	<0.0400	1.00	95.7	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Boron	mg/L	0.965	<0.200	1.00	96.5	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Calcium	mg/L	58.3	40.6	20.0	88.5	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Calcium	mg/L	618	619	20.0	0.30R>S	70 - 130	X342014 - X3J0204-01	17-Oct-23	D2,M4
EPA 200.7	Chromium	mg/L	0.968	<0.0060	1.00	96.8	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Chromium	mg/L	1.23	0.220	1.00	101	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Iron	mg/L	9.79	0.166	10.0	96.2	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Iron	mg/L	14.7	5.22	10.0	95.3	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Magnesium	mg/L	27.9	9.05	20.0	94.2	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Magnesium	mg/L	459	444	20.0	74.5	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Manganese	mg/L	0.978	0.0187	1.00	96.0	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Manganese	mg/L	250	254	1.00	0.30R>S	70 - 130	X342014 - X3J0204-01	17-Oct-23	D2,M4

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Molybdenum	mg/L	1.00	<0.0400	1.00	100	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Nickel	mg/L	0.951	<0.0100	1.00	95.1	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Nickel	mg/L	3.98	3.06	1.00	91.8	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Phosphorus	mg/L	1.06	0.055	1.00	101	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Phosphorus	mg/L	1.16	<0.250	1.00	105	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Potassium	mg/L	22.1	2.43	20.0	98.4	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Potassium	mg/L	29.7	9.20	20.0	103	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Sodium	mg/L	44.0	26.1	19.0	94.4	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Sodium	mg/L	67.5	48.0	19.0	102	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Zinc	mg/L	0.961	<0.0100	1.00	96.1	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Zinc	mg/L	82.9	84.7	1.00	0.30R>S	70 - 130	X342014 - X3J0204-01	17-Oct-23	D2,M4
EPA 200.8	Antimony	mg/L	0.0236	<0.00100	0.0250	94.2	70 - 130	X342015 - X3J0184-02	20-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0241	<0.00100	0.0250	93.5	70 - 130	X342015 - X3J0184-02	20-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0230	0.000105	0.0250	91.5	70 - 130	X342015 - X3J0184-02	20-Oct-23	
EPA 200.8	Chromium	mg/L	0.0230	<0.00100	0.0250	92.0	70 - 130	X342015 - X3J0184-02	20-Oct-23	
EPA 200.8	Copper	mg/L	0.0233	<0.00040	0.0250	93.1	70 - 130	X342015 - X3J0184-02	20-Oct-23	
EPA 200.8	Lead	mg/L	0.0226	0.00021	0.0250	89.5	70 - 130	X342015 - X3J0184-02	20-Oct-23	
EPA 200.8	Selenium	mg/L	0.0208	<0.00100	0.0250	83.3	70 - 130	X342015 - X3J0184-02	20-Oct-23	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.04	<0.080	1.00	104	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Barium	mg/L	1.17	0.107	1.00	106	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Boron	mg/L	0.984	<0.0400	1.00	98.4	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Cadmium	mg/L	0.991	<0.0020	1.00	99.1	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Calcium	mg/L	63.2	42.3	20.0	104	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Cobalt	mg/L	0.970	<0.0060	1.00	96.5	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Copper	mg/L	0.992	<0.0100	1.00	99.2	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Iron	mg/L	10.5	0.425	10.0	101	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Lead	mg/L	0.974	<0.0075	1.00	97.4	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Magnesium	mg/L	30.9	11.0	20.0	99.3	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Manganese	mg/L	1.88	0.853	1.00	102	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.970	<0.0080	1.00	97.0	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Nickel	mg/L	0.964	<0.0100	1.00	96.4	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Potassium	mg/L	22.3	1.13	20.0	106	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Silver	mg/L	0.0509	<0.0050	0.0500	102	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Sodium	mg/L	31.8	12.7	19.0	101	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Vanadium	mg/L	1.03	<0.0050	1.00	103	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Zinc	mg/L	0.986	<0.0100	1.00	98.6	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.8	Antimony	mg/L	0.0297	<0.00100	0.0250	119	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Antimony	mg/L	0.0268	<0.00100	0.0250	107	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0302	<0.00100	0.0250	118	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0336	0.00381	0.0250	119	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0291	<0.000100	0.0250	116	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Cadmium	mg/L	0.0241	0.000651	0.0250	93.6	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Chromium	mg/L	0.0282	<0.00100	0.0250	113	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Chromium	mg/L	0.0309	<0.00100	0.0250	123	70 - 130	X341238 - X3J0207-01	23-Oct-23	

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Copper	mg/L	0.0280	0.00061	0.0250	110	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Copper	mg/L	0.0262	0.00239	0.0250	95.1	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Lead	mg/L	0.0304	<0.00020	0.0250	122	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Lead	mg/L	0.0269	<0.00020	0.0250	107	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Selenium	mg/L	0.0324	<0.00100	0.0250	129	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Selenium	mg/L	0.0290	<0.00100	0.0250	116	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Silver	mg/L	0.0271	<0.00008	0.0250	108	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Silver	mg/L	0.0224	<0.00008	0.0250	89.5	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Thallium	mg/L	0.0303	<0.000200	0.0250	121	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Thallium	mg/L	0.0281	0.000264	0.0250	111	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Uranium	mg/L	0.0356	0.00205	0.0250	134	70 - 130	X341238 - X3J0184-01	23-Oct-23	M1
EPA 200.8	Uranium	mg/L	0.0330	0.00240	0.0250	122	70 - 130	X341238 - X3J0207-01	23-Oct-23	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00219	<0.000200	0.00200	110	70 - 130	X341051 - X3J0168-01	16-Oct-23	
EPA 245.1	Mercury	mg/L	0.00219	<0.000200	0.00200	110	70 - 130	X341051 - X3J0204-01	16-Oct-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	<0.0050	0.100	97.0	79 - 121	X342148 - X3J0198-01	18-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X342016 - X3J0148-01	17-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X342016 - X3J0149-01	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.07	0.037	1.00	103	90 - 110	X342117 - X3J0198-01	20-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.05	<0.030	1.00	103	90 - 110	X342117 - X3J0198-02	20-Oct-23	
EPA 351.2	TKN	mg/L	9.02	1.47	8.00	94.3	90 - 110	X341130 - X3J0187-03	12-Oct-23	
EPA 351.2	TKN	mg/L	8.13	1.66	8.00	81.0	90 - 110	X341130 - X3J0187-04	12-Oct-23	M2
OIA 1677	Cyanide (WAD)	mg/L	0.114	<0.0050	0.100	113	82 - 118	X342247 - X3J0184-01	23-Oct-23	
SM 4500 S D	Sulfide	mg/L	0.259	<0.050	0.200	130	75 - 125	X342064 - X3J0288-06	17-Oct-23	M1
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0198	<0.0050	0.0222	89.4	75 - 125	X342226 - X3J0242-02	19-Oct-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.02	<0.20	3.00	99.8	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Chloride	mg/L	4.77	1.73	3.00	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Fluoride	mg/L	2.04	<0.100	2.00	102	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Fluoride	mg/L	2.26	0.228	2.00	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.67	0.628	2.00	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.11	<0.100	4.00	103	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.72	0.628	4.00	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.07	<0.050	2.00	103	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	103	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.9	0.46	10.0	104	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	32.2	22.0	10.0	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00441	0.00432	0.00400	2.0	20	110	X342009 - X3J0242-02	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.02	1.00	1.00	2.0	20	98.8	X342014 - X3J0184-01	
EPA 200.7	Beryllium	mg/L	0.991	0.971	1.00	2.1	20	99.1	X342014 - X3J0184-01	
EPA 200.7	Boron	mg/L	1.01	0.991	1.00	2.0	20	97.7	X342014 - X3J0184-01	
EPA 200.7	Calcium	mg/L	59.0	58.3	20.0	1.3	20	92.2	X342014 - X3J0184-01	
EPA 200.7	Chromium	mg/L	0.992	0.968	1.00	2.5	20	99.2	X342014 - X3J0184-01	
EPA 200.7	Iron	mg/L	9.95	9.79	10.0	1.7	20	97.9	X342014 - X3J0184-01	
EPA 200.7	Magnesium	mg/L	28.4	27.9	20.0	1.9	20	96.9	X342014 - X3J0184-01	
EPA 200.7	Manganese	mg/L	0.998	0.978	1.00	1.9	20	97.9	X342014 - X3J0184-01	
EPA 200.7	Molybdenum	mg/L	1.01	1.00	1.00	0.6	20	101	X342014 - X3J0184-01	
EPA 200.7	Nickel	mg/L	0.955	0.951	1.00	0.4	20	95.5	X342014 - X3J0184-01	
EPA 200.7	Phosphorus	mg/L	1.08	1.06	1.00	1.3	20	102	X342014 - X3J0184-01	
EPA 200.7	Potassium	mg/L	22.5	22.1	20.0	1.8	20	100	X342014 - X3J0184-01	
EPA 200.7	Sodium	mg/L	44.8	44.0	19.0	1.7	20	98.4	X342014 - X3J0184-01	
EPA 200.7	Zinc	mg/L	0.971	0.961	1.00	1.0	20	97.1	X342014 - X3J0184-01	
EPA 200.8	Antimony	mg/L	0.0248	0.0236	0.0250	5.2	20	99.2	X342015 - X3J0184-02	
EPA 200.8	Arsenic	mg/L	0.0249	0.0241	0.0250	3.3	20	96.7	X342015 - X3J0184-02	
EPA 200.8	Cadmium	mg/L	0.0236	0.0230	0.0250	2.8	20	94.1	X342015 - X3J0184-02	
EPA 200.8	Chromium	mg/L	0.0239	0.0230	0.0250	3.8	20	95.5	X342015 - X3J0184-02	
EPA 200.8	Copper	mg/L	0.0244	0.0233	0.0250	4.9	20	97.8	X342015 - X3J0184-02	
EPA 200.8	Lead	mg/L	0.0231	0.0226	0.0250	2.0	20	91.4	X342015 - X3J0184-02	
EPA 200.8	Selenium	mg/L	0.0231	0.0208	0.0250	10.3	20	92.4	X342015 - X3J0184-02	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.07	1.04	1.00	2.2	20	107	X342205 - X3J0198-01	
EPA 200.7	Barium	mg/L	1.17	1.17	1.00	0.1	20	106	X342205 - X3J0198-01	
EPA 200.7	Beryllium	mg/L	1.02	1.02	1.00	0.1	20	102	X342205 - X3J0198-01	
EPA 200.7	Boron	mg/L	0.977	0.984	1.00	0.7	20	97.7	X342205 - X3J0198-01	
EPA 200.7	Cadmium	mg/L	0.988	0.991	1.00	0.4	20	98.8	X342205 - X3J0198-01	
EPA 200.7	Calcium	mg/L	63.0	63.2	20.0	0.3	20	103	X342205 - X3J0198-01	
EPA 200.7	Chromium	mg/L	1.02	1.03	1.00	0.9	20	102	X342205 - X3J0198-01	
EPA 200.7	Cobalt	mg/L	0.971	0.970	1.00	0.1	20	96.6	X342205 - X3J0198-01	
EPA 200.7	Copper	mg/L	0.996	0.992	1.00	0.5	20	99.6	X342205 - X3J0198-01	
EPA 200.7	Iron	mg/L	10.5	10.5	10.0	0.3	20	101	X342205 - X3J0198-01	
EPA 200.7	Lead	mg/L	0.970	0.974	1.00	0.5	20	97.0	X342205 - X3J0198-01	
EPA 200.7	Lithium	mg/L	1.02	1.03	1.00	1.1	20	102	X342205 - X3J0198-01	
EPA 200.7	Magnesium	mg/L	30.5	30.9	20.0	1.1	20	97.5	X342205 - X3J0198-01	
EPA 200.7	Manganese	mg/L	1.86	1.88	1.00	0.8	20	101	X342205 - X3J0198-01	
EPA 200.7	Molybdenum	mg/L	0.975	0.970	1.00	0.4	20	97.5	X342205 - X3J0198-01	
EPA 200.7	Nickel	mg/L	0.961	0.964	1.00	0.4	20	96.1	X342205 - X3J0198-01	
EPA 200.7	Potassium	mg/L	22.3	22.3	20.0	0.2	20	106	X342205 - X3J0198-01	
EPA 200.7	Silver	mg/L	0.0517	0.0509	0.0500	1.6	20	103	X342205 - X3J0198-01	
EPA 200.7	Sodium	mg/L	31.6	31.8	19.0	0.6	20	99.7	X342205 - X3J0198-01	
EPA 200.7	Vanadium	mg/L	1.03	1.03	1.00	0.3	20	103	X342205 - X3J0198-01	
EPA 200.7	Zinc	mg/L	0.989	0.986	1.00	0.3	20	98.9	X342205 - X3J0198-01	
EPA 200.8	Antimony	mg/L	0.0307	0.0297	0.0250	3.3	20	123	X341238 - X3J0184-01	
EPA 200.8	Arsenic	mg/L	0.0317	0.0302	0.0250	4.9	20	124	X341238 - X3J0184-01	
EPA 200.8	Cadmium	mg/L	0.0304	0.0291	0.0250	4.1	20	121	X341238 - X3J0184-01	
EPA 200.8	Chromium	mg/L	0.0295	0.0282	0.0250	4.5	20	118	X341238 - X3J0184-01	
EPA 200.8	Copper	mg/L	0.0292	0.0280	0.0250	4.2	20	114	X341238 - X3J0184-01	
EPA 200.8	Lead	mg/L	0.0318	0.0304	0.0250	4.6	20	127	X341238 - X3J0184-01	
EPA 200.8	Selenium	mg/L	0.0336	0.0324	0.0250	3.7	20	134	X341238 - X3J0184-01	M1
EPA 200.8	Silver	mg/L	0.0284	0.0271	0.0250	4.8	20	114	X341238 - X3J0184-01	
EPA 200.8	Thallium	mg/L	0.0317	0.0303	0.0250	4.3	20	127	X341238 - X3J0184-01	
EPA 200.8	Uranium	mg/L	0.0372	0.0356	0.0250	4.5	20	141	X341238 - X3J0184-01	M1

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00219	0.00219	0.00200	0.0	20	110	X341051 - X3J0168-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0930	0.0970	0.100	4.2	11	93.0	X342148 - X3J0198-01	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.102	0.100	0.4	20	102	X342016 - X3J0148-01	
EPA 350.1	Ammonia as N	mg/L	0.989	1.07	1.00	8.0	20	95.2	X342117 - X3J0198-01	
EPA 351.2	TKN	mg/L	9.16	9.02	8.00	1.6	20	96.2	X341130 - X3J0187-03	
OIA 1677	Cyanide (WAD)	mg/L	0.115	0.114	0.100	0.9	11	114	X342247 - X3J0184-01	
SM 4500 S D	Sulfide	mg/L	0.247	0.259	0.200	4.7	20	124	X342064 - X3J0288-06	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0204	0.0198	0.0222	2.8	20	91.9	X342226 - X3J0242-02	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.96	3.02	3.00	1.9	20	97.9	X341112 - X3J0198-02	
EPA 300.0	Fluoride	mg/L	1.99	2.04	2.00	2.3	20	99.5	X341112 - X3J0198-02	
EPA 300.0	Nitrate as N	mg/L	1.99	2.04	2.00	2.3	20	99.7	X341112 - X3J0198-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.02	4.11	4.00	2.2	20	100	X341112 - X3J0198-02	
EPA 300.0	Nitrite as N	mg/L	2.02	2.07	2.00	2.1	20	101	X341112 - X3J0198-02	
EPA 300.0	Sulfate as SO4	mg/L	10.7	10.9	10.0	2.0	20	102	X341112 - X3J0198-02	

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Work Order: **X3J0198**
Reported: 25-Oct-23 14:46

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
U	Less than MDL.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Client Sample ID: **RB-1115**
SVL Sample ID: **X3K0279-04 (Ground Water)**

Sampled: 15-Nov-23 10:35
Received: 16-Nov-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X348073	JRR	11/30/23 12:04	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X348073	JRR	11/30/23 12:04	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X348073	JRR	11/30/23 12:04	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		11/30/23 12:04	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X348005	JRR	11/30/23 09:19	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X348005	JRR	11/30/23 09:19	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X348005	JRR	11/30/23 09:19	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X348005	JRR	11/30/23 09:19	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X348005	JRR	11/30/23 09:19	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X348005	JRR	11/30/23 09:19	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X348005	JRR	11/30/23 09:19	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X348005	JRR	11/30/23 09:19	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X348005	JRR	11/30/23 09:19	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X348005	JRR	11/30/23 09:19	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X348005	JRR	11/30/23 09:19	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X348005	JRR	11/30/23 09:19	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X348005	JRR	11/30/23 09:19	
EPA 200.7	**Manganese**	0.0080	mg/L	0.0080	0.0034		X348005	JRR	11/30/23 09:19	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X348005	JRR	11/30/23 09:19	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X348005	JRR	11/30/23 09:19	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X348005	JRR	11/30/23 09:19	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X348005	JRR	11/30/23 09:19	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X348005	JRR	11/30/23 09:19	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X348005	JRR	11/30/23 09:19	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X348005	JRR	11/30/23 09:19	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X346268	DWJ	12/12/23 11:16	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X346268	DWJ	12/12/23 11:16	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X346268	DWJ	12/12/23 11:16	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X346268	DWJ	12/12/23 11:16	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X346268	DWJ	12/12/23 11:16	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X347142	MAC	11/28/23 16:56	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X347063	DD	11/21/23 15:48	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X346261	DD	11/22/23 15:23	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X347101	JRR	11/22/23 11:06	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X347065	DD	11/29/23 15:30	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X348017	MWD	11/27/23 11:16	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:44	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:44	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:44	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:44	
SM 2540 C	**Total Diss. Solids**	138	mg/L	10			X347012	TJL	11/21/23 14:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X347013	TJL	11/28/23 10:45	
SM 4500 H B	**pH @19.1°C**	5.7	pH Units				X347089	MWD	11/22/23 13:44	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Client Sample ID: **RB-1115**
SVL Sample ID: **X3K0279-04 (Ground Water)**

Sampled: 15-Nov-23 10:35
Received: 16-Nov-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 0.20	mg/L	0.20	0.02		X346200	KAG	11/16/23 13:45	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X346200	KAG	11/16/23 13:45	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X346200	KAG	11/16/23 13:45	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X346200	KAG	11/16/23 13:45	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X346200	KAG	11/16/23 13:45	
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X346200	KAG	11/16/23 13:45	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 0.03 meq/L Anion Sum: 0.03 meq/L C/A Balance: 8.57 % Calculated TDS: 0

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X347139	28-Nov-23	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X348073	30-Nov-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X348073	30-Nov-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X348073	30-Nov-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X348073	30-Nov-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X348073	30-Nov-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X348073	30-Nov-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X348073	30-Nov-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X348073	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X348073	30-Nov-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X348073	30-Nov-23	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X348073	30-Nov-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X348073	30-Nov-23	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X348073	30-Nov-23	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X348073	30-Nov-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X348040	04-Dec-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X348040	04-Dec-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X348040	04-Dec-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X348040	04-Dec-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X348040	04-Dec-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X348040	04-Dec-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X348040	04-Dec-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X348005	30-Nov-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X348005	30-Nov-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X348005	30-Nov-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X348005	30-Nov-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X348005	30-Nov-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X348005	30-Nov-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X348005	30-Nov-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X348005	30-Nov-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X348005	30-Nov-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X348005	30-Nov-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X348005	30-Nov-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X348005	30-Nov-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X348005	30-Nov-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X348005	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X348005	30-Nov-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X348005	30-Nov-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X348005	30-Nov-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X348005	30-Nov-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X348005	30-Nov-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X348005	30-Nov-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X348005	30-Nov-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X346268	12-Dec-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X346268	12-Dec-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X346268	12-Dec-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X346268	12-Dec-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X346268	12-Dec-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X346268	12-Dec-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X346268	12-Dec-23	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X346268	12-Dec-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X346268	12-Dec-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X346268	12-Dec-23	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X347142	28-Nov-23	
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X347144	30-Nov-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X347063	21-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X346261	22-Nov-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X347101	22-Nov-23	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X348010	28-Nov-23	
Hach 8167	Total Chlorine	mg/L	<0.020		0.020	X348215	01-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X347065	29-Nov-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X348017	27-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X347089	22-Nov-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X347089	22-Nov-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X347089	22-Nov-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X347089	22-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X347012	21-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X347013	28-Nov-23	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X346088	17-Nov-23	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X348019	28-Nov-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X346200	16-Nov-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X346200	16-Nov-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X346200	16-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X346200	16-Nov-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X346200	16-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X346200	16-Nov-23	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 245.1	Mercury	mg/L	0.00196	0.00200	98.0	85 - 115	X347139	28-Nov-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	0.939	1.00	93.9	85 - 115	X348073	30-Nov-23	
EPA 200.7	Beryllium	mg/L	0.932	1.00	93.2	85 - 115	X348073	30-Nov-23	
EPA 200.7	Boron	mg/L	0.925	1.00	92.5	85 - 115	X348073	30-Nov-23	
EPA 200.7	Calcium	mg/L	18.5	20.0	92.7	85 - 115	X348073	30-Nov-23	
EPA 200.7	Chromium	mg/L	0.914	1.00	91.4	85 - 115	X348073	30-Nov-23	
EPA 200.7	Iron	mg/L	9.46	10.0	94.6	85 - 115	X348073	30-Nov-23	
EPA 200.7	Magnesium	mg/L	18.9	20.0	94.5	85 - 115	X348073	30-Nov-23	
EPA 200.7	Manganese	mg/L	0.923	1.00	92.3	85 - 115	X348073	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	0.915	1.00	91.5	85 - 115	X348073	30-Nov-23	
EPA 200.7	Nickel	mg/L	0.893	1.00	89.3	85 - 115	X348073	30-Nov-23	
EPA 200.7	Phosphorus	mg/L	0.945	1.00	94.5	85 - 115	X348073	30-Nov-23	
EPA 200.7	Potassium	mg/L	18.7	20.0	93.3	85 - 115	X348073	30-Nov-23	
EPA 200.7	Sodium	mg/L	17.8	19.0	93.9	85 - 115	X348073	30-Nov-23	
EPA 200.7	Zinc	mg/L	0.903	1.00	90.3	85 - 115	X348073	30-Nov-23	
EPA 200.8	Antimony	mg/L	0.0215	0.0250	85.8	85 - 115	X348040	04-Dec-23	
EPA 200.8	Arsenic	mg/L	0.0246	0.0250	98.3	85 - 115	X348040	04-Dec-23	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)									
EPA 200.8	Cadmium	mg/L	0.0253	0.0250	101	85 - 115	X348040	04-Dec-23	
EPA 200.8	Chromium	mg/L	0.0256	0.0250	102	85 - 115	X348040	04-Dec-23	
EPA 200.8	Copper	mg/L	0.0213	0.0250	85.1	85 - 115	X348040	04-Dec-23	
EPA 200.8	Lead	mg/L	0.0256	0.0250	102	85 - 115	X348040	04-Dec-23	
EPA 200.8	Selenium	mg/L	0.0224	0.0250	89.8	85 - 115	X348040	04-Dec-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.975	1.00	97.5	85 - 115	X348005	30-Nov-23	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X348005	30-Nov-23	
EPA 200.7	Beryllium	mg/L	0.980	1.00	98.0	85 - 115	X348005	30-Nov-23	
EPA 200.7	Boron	mg/L	0.988	1.00	98.8	85 - 115	X348005	30-Nov-23	
EPA 200.7	Cadmium	mg/L	0.983	1.00	98.3	85 - 115	X348005	30-Nov-23	
EPA 200.7	Calcium	mg/L	20.0	20.0	100	85 - 115	X348005	30-Nov-23	
EPA 200.7	Chromium	mg/L	0.986	1.00	98.6	85 - 115	X348005	30-Nov-23	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X348005	30-Nov-23	
EPA 200.7	Copper	mg/L	0.967	1.00	96.7	85 - 115	X348005	30-Nov-23	
EPA 200.7	Iron	mg/L	10.0	10.0	100	85 - 115	X348005	30-Nov-23	
EPA 200.7	Lead	mg/L	0.969	1.00	96.9	85 - 115	X348005	30-Nov-23	
EPA 200.7	Lithium	mg/L	0.966	1.00	96.6	85 - 115	X348005	30-Nov-23	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.7	85 - 115	X348005	30-Nov-23	
EPA 200.7	Manganese	mg/L	0.983	1.00	98.3	85 - 115	X348005	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	0.968	1.00	96.8	85 - 115	X348005	30-Nov-23	
EPA 200.7	Nickel	mg/L	0.959	1.00	95.9	85 - 115	X348005	30-Nov-23	
EPA 200.7	Potassium	mg/L	20.1	20.0	101	85 - 115	X348005	30-Nov-23	
EPA 200.7	Silver	mg/L	0.0506	0.0500	101	85 - 115	X348005	30-Nov-23	
EPA 200.7	Sodium	mg/L	19.0	19.0	100	85 - 115	X348005	30-Nov-23	
EPA 200.7	Vanadium	mg/L	0.999	1.00	99.9	85 - 115	X348005	30-Nov-23	
EPA 200.7	Zinc	mg/L	0.997	1.00	99.7	85 - 115	X348005	30-Nov-23	
EPA 200.8	Antimony	mg/L	0.0246	0.0250	98.4	85 - 115	X346268	12-Dec-23	
EPA 200.8	Arsenic	mg/L	0.0234	0.0250	93.5	85 - 115	X346268	12-Dec-23	
EPA 200.8	Cadmium	mg/L	0.0243	0.0250	97.3	85 - 115	X346268	12-Dec-23	
EPA 200.8	Chromium	mg/L	0.0244	0.0250	97.5	85 - 115	X346268	12-Dec-23	
EPA 200.8	Copper	mg/L	0.0246	0.0250	98.3	85 - 115	X346268	12-Dec-23	
EPA 200.8	Lead	mg/L	0.0238	0.0250	95.1	85 - 115	X346268	12-Dec-23	
EPA 200.8	Selenium	mg/L	0.0224	0.0250	89.8	85 - 115	X346268	12-Dec-23	
EPA 200.8	Silver	mg/L	0.0243	0.0250	97.2	85 - 115	X346268	12-Dec-23	
EPA 200.8	Thallium	mg/L	0.0237	0.0250	94.8	85 - 115	X346268	12-Dec-23	
EPA 200.8	Uranium	mg/L	0.0239	0.0250	95.5	85 - 115	X346268	12-Dec-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00200	0.00200	100	85 - 115	X347142	28-Nov-23	
EPA 245.1	Mercury	mg/L	0.00215	0.00200	107	85 - 115	X347144	30-Nov-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.100	99.0	90 - 110	X347063	21-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	0.0990	0.100	99.0	90 - 110	X346261	22-Nov-23	
EPA 350.1	Ammonia as N	mg/L	0.984	1.00	98.4	90 - 110	X347101	22-Nov-23	
EPA 351.2	TKN	mg/L	7.73	8.00	96.6	90 - 110	X348010	28-Nov-23	
OIA 1677	Cyanide (WAD)	mg/L	0.110	0.100	110	90 - 110	X347065	29-Nov-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	98.5	95.4 - 104	X348017	27-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	96.4 - 105	X347089	22-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.3	99.3	100	96.4 - 105	X347089	22-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	397	397	99.9	96.4 - 105	X347089	22-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X347013	28-Nov-23	
SM 4500 S D	Sulfide	mg/L	0.534	0.500	107	85 - 115	X346088	17-Nov-23	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0974	0.100	97.4	80 - 120	X348019	28-Nov-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.92	3.00	97.4	90 - 110	X346200	16-Nov-23	
EPA 300.0	Fluoride	mg/L	1.94	2.00	96.9	90 - 110	X346200	16-Nov-23	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	100	90 - 110	X346200	16-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.58	4.50	102	90 - 110	X346200	16-Nov-23	
EPA 300.0	Nitrite as N	mg/L	2.57	2.50	103	90 - 110	X346200	16-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X346200	16-Nov-23	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
Hach 8167	Total Chlorine	mg/L	0.590	0.530	10.7	20	X348215 - X3K0279-01	01-Dec-23	H5
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X348017 - X3K0213-01	27-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X347089 - X3K0279-02	22-Nov-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X347089 - X3K0279-02	22-Nov-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X347089 - X3K0279-02	22-Nov-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X347089 - X3K0279-02	22-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	274	277	1.1	10	X347012 - X3K0279-01	21-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	572	566	1.1	10	X347012 - X3K0310-01	21-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X347013 - X3K0310-01	28-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	33.0	34.0	3.0	10	X347013 - X3K0279-01	28-Nov-23	
SM 4500 H B	pH @19.0°C	pH Units	3.4	3.5	2.9	20	X347089 - X3K0279-02	22-Nov-23	
SM 4500-O-G	Dissolved Oxygen	mg/L	3.3	3.4	3.0	20	X347106 - X3K0279-01	21-Nov-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00204	<0.000093	0.00200	102	70 - 130	X347139 - X3K0285-01	28-Nov-23	
EPA 245.1	Mercury	mg/L	0.00195	<0.000093	0.00200	97.3	70 - 130	X347139 - X3K0312-02	28-Nov-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	0.940	<0.0200	1.00	94.0	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Beryllium	mg/L	1.46	0.472	1.00	98.4	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Boron	mg/L	0.961	<0.400	1.00	96.1	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Calcium	mg/L	499	479	20.0	103	70 - 130	X348073 - X3K0279-03	30-Nov-23	D2
EPA 200.7	Chromium	mg/L	1.07	0.114	1.00	95.2	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Iron	mg/L	14.5	4.44	10.0	101	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Magnesium	mg/L	351	329	20.0	110	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Manganese	mg/L	181	179	1.00	0.30R>S	70 - 130	X348073 - X3K0279-03	30-Nov-23	D2,M4
EPA 200.7	Molybdenum	mg/L	0.904	<0.0800	1.00	90.4	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Nickel	mg/L	3.02	2.09	1.00	93.0	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Phosphorus	mg/L	1.03	<0.500	1.00	103	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Potassium	mg/L	27.8	7.63	20.0	101	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1

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Work Order: **X3K0279**
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Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Sodium	mg/L	62.6	43.0	19.0	103	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Zinc	mg/L	55.3	54.9	1.00	0.30R>S	70 - 130	X348073 - X3K0279-03	30-Nov-23	D2,M4
EPA 200.8	Antimony	mg/L	0.0249	<0.00100	0.0250	99.5	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Antimony	mg/L	0.0254	<0.00100	0.0250	102	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Arsenic	mg/L	0.111	0.0763	0.0250	140	70 - 130	X348040 - X3K0300-01	04-Dec-23	M1
EPA 200.8	Arsenic	mg/L	0.115	0.0863	0.0250	115	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Cadmium	mg/L	0.0224	<0.000100	0.0250	89.7	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Cadmium	mg/L	0.0230	<0.000100	0.0250	92.0	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Chromium	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Chromium	mg/L	0.0261	<0.00100	0.0250	105	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Copper	mg/L	0.0236	<0.00040	0.0250	94.2	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Copper	mg/L	0.0237	<0.00040	0.0250	94.8	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Lead	mg/L	0.0242	<0.00020	0.0250	96.8	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Lead	mg/L	0.0244	<0.00020	0.0250	97.7	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Selenium	mg/L	0.0167	<0.00500	0.0250	66.9	70 - 130	X348040 - X3K0300-01	04-Dec-23	D1,M4
EPA 200.8	Selenium	mg/L	0.0186	<0.0100	0.0250	74.4	70 - 130	X348040 - X3K0300-04	04-Dec-23	D1
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.927	<0.080	1.00	92.7	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Barium	mg/L	1.18	0.142	1.00	104	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Beryllium	mg/L	0.950	<0.00200	1.00	95.0	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	99.7	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Cadmium	mg/L	0.977	<0.0020	1.00	97.7	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Calcium	mg/L	72.1	51.3	20.0	104	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Chromium	mg/L	0.986	<0.0060	1.00	98.6	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Cobalt	mg/L	0.947	<0.0060	1.00	94.7	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Copper	mg/L	0.961	<0.0100	1.00	96.1	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Iron	mg/L	11.1	0.867	10.0	102	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Lead	mg/L	0.970	<0.0075	1.00	97.0	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Lithium	mg/L	0.961	<0.040	1.00	96.1	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Magnesium	mg/L	33.4	12.8	20.0	103	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Manganese	mg/L	2.56	1.59	1.00	97.2	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	0.955	<0.0080	1.00	95.5	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Nickel	mg/L	0.942	<0.0100	1.00	94.2	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Potassium	mg/L	22.7	2.06	20.0	103	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Silver	mg/L	0.0508	<0.0050	0.0500	102	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Sodium	mg/L	35.9	16.5	19.0	102	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Zinc	mg/L	1.01	<0.0100	1.00	101	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.8	Antimony	mg/L	0.0337	0.00819	0.0250	102	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Antimony	mg/L	<0.0500	<0.0500	0.0250	N/A	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Arsenic	mg/L	0.0290	0.00440	0.0250	98.6	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Arsenic	mg/L	<0.0500	<0.0500	0.0250	67.4	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Cadmium	mg/L	0.0249	<0.000100	0.0250	99.2	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Cadmium	mg/L	0.0231	<0.00500	0.0250	92.6	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
EPA 200.8	Chromium	mg/L	0.0245	<0.00100	0.0250	97.8	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Chromium	mg/L	<0.0500	<0.0500	0.0250	34.5	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Copper	mg/L	0.0249	0.00053	0.0250	97.6	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Copper	mg/L	<0.0200	<0.0200	0.0250	N/A	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Lead	mg/L	0.0231	<0.00020	0.0250	92.3	70 - 130	X346268 - X3K0212-01	12-Dec-23	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Lead	mg/L	0.0243	<0.0100	0.0250	97.3	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
EPA 200.8	Selenium	mg/L	0.0241	<0.00100	0.0250	96.4	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Selenium	mg/L	<0.0500	<0.0500	0.0250	N/A	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Silver	mg/L	0.0245	<0.00008	0.0250	97.8	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Silver	mg/L	0.0217	<0.00400	0.0250	86.9	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
EPA 200.8	Thallium	mg/L	0.0231	<0.000200	0.0250	92.5	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Thallium	mg/L	0.0233	<0.0100	0.0250	93.2	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
EPA 200.8	Uranium	mg/L	0.0239	0.000246	0.0250	94.5	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Uranium	mg/L	0.0258	0.00510	0.0250	83.0	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	100	70 - 130	X347142 - X3K0281-01	28-Nov-23	
EPA 245.1	Mercury	mg/L	0.0116	0.00989	0.00200	86.9	70 - 130	X347142 - X3K0292-01	28-Nov-23	D2,M4
EPA 245.1	Mercury	mg/L	0.00205	<0.000200	0.00200	102	70 - 130	X347144 - X3K0279-01	30-Nov-23	
EPA 245.1	Mercury	mg/L	0.00213	<0.000200	0.00200	101	70 - 130	X347144 - X3K0371-01	30-Nov-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0950	<0.0050	0.100	95.0	79 - 121	X347063 - X3K0213-01	21-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	0.105	0.0056	0.100	99.5	90 - 110	X346261 - X3K0279-01	22-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	0.105	<0.0050	0.100	105	90 - 110	X346261 - X3K0279-02	22-Nov-23	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X347101 - X3K0279-03	22-Nov-23	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	105	90 - 110	X347101 - X3K0281-03	22-Nov-23	
EPA 351.2	TKN	mg/L	7.75	<0.50	8.00	96.9	90 - 110	X348010 - X3K0285-01	28-Nov-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0950	<0.0050	0.100	92.0	82 - 118	X347065 - X3K0213-01	29-Nov-23	H1,R2B
SM 4500 S D	Sulfide	mg/L	1.94	1.68	0.200	0.30R>S	75 - 125	X346088 - X3K0217-07	17-Nov-23	D2,M4
SM 4500 S D	Sulfide	mg/L	0.232	<0.050	0.200	116	75 - 125	X346088 - X3K0183-13	17-Nov-23	H1
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0185	<0.0050	0.0222	83.1	75 - 125	X348019 - X3K0099-03	28-Nov-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.99	<0.20	3.00	97.2	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Chloride	mg/L	18.3	15.6	3.00	0.30R>S	90 - 110	X346200 - X3K0300-02	16-Nov-23	D2,M4
EPA 300.0	Fluoride	mg/L	1.95	<0.100	2.00	97.6	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Fluoride	mg/L	5.03	3.19	2.00	91.6	90 - 110	X346200 - X3K0300-02	16-Nov-23	
EPA 300.0	Nitrate as N	mg/L	1.98	<0.050	2.00	99.0	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Nitrate as N	mg/L	1.94	<0.050	2.00	97.0	90 - 110	X346200 - X3K0300-02	16-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	<0.100	4.00	102	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	<0.100	4.00	99.2	90 - 110	X346200 - X3K0300-02	16-Nov-23	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	105	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X346200 - X3K0300-02	16-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	10.6	<0.30	10.0	103	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	740	733	10.0	0.30R>S	90 - 110	X346200 - X3K0300-02	16-Nov-23	D2,M4

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00211	0.00204	0.00200	3.2	20	105	X347139 - X3K0285-01	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	0.941	0.940	1.00	0.0	20	94.1	X348073 - X3K0279-03	D1
EPA 200.7	Beryllium	mg/L	1.47	1.46	1.00	0.8	20	99.6	X348073 - X3K0279-03	D1
EPA 200.7	Boron	mg/L	0.978	0.961	1.00	1.8	20	97.8	X348073 - X3K0279-03	D1
EPA 200.7	Calcium	mg/L	512	499	20.0	2.5	20	0.30R>S	X348073 - X3K0279-03	D2,M4
EPA 200.7	Chromium	mg/L	1.09	1.07	1.00	2.7	20	98.1	X348073 - X3K0279-03	D1
EPA 200.7	Iron	mg/L	14.5	14.5	10.0	0.1	20	101	X348073 - X3K0279-03	D1
EPA 200.7	Magnesium	mg/L	352	351	20.0	0.4	20	117	X348073 - X3K0279-03	D1
EPA 200.7	Manganese	mg/L	181	181	1.00	0.3	20	0.30R>S	X348073 - X3K0279-03	D2,M4
EPA 200.7	Molybdenum	mg/L	0.916	0.904	1.00	1.3	20	91.6	X348073 - X3K0279-03	D1
EPA 200.7	Nickel	mg/L	3.05	3.02	1.00	1.2	20	96.6	X348073 - X3K0279-03	D1
EPA 200.7	Phosphorus	mg/L	1.08	1.03	1.00	4.4	20	108	X348073 - X3K0279-03	D1
EPA 200.7	Potassium	mg/L	27.7	27.8	20.0	0.5	20	100	X348073 - X3K0279-03	D1
EPA 200.7	Sodium	mg/L	62.9	62.6	19.0	0.5	20	105	X348073 - X3K0279-03	D1
EPA 200.7	Zinc	mg/L	55.8	55.3	1.00	0.8	20	91.0	X348073 - X3K0279-03	D2
EPA 200.8	Antimony	mg/L	0.0244	0.0249	0.0250	1.8	20	97.7	X348040 - X3K0300-01	
EPA 200.8	Arsenic	mg/L	0.106	0.111	0.0250	4.5	20	120	X348040 - X3K0300-01	
EPA 200.8	Cadmium	mg/L	0.0218	0.0224	0.0250	3.1	20	87.0	X348040 - X3K0300-01	
EPA 200.8	Chromium	mg/L	0.0249	0.0257	0.0250	3.3	20	99.5	X348040 - X3K0300-01	
EPA 200.8	Copper	mg/L	0.0227	0.0236	0.0250	3.8	20	90.8	X348040 - X3K0300-01	
EPA 200.8	Lead	mg/L	0.0231	0.0242	0.0250	4.8	20	92.3	X348040 - X3K0300-01	
EPA 200.8	Selenium	mg/L	0.0177	0.0167	0.0250	5.8	20	70.9	X348040 - X3K0300-01	D1
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.913	0.927	1.00	1.5	20	91.3	X348005 - X3K0279-01	
EPA 200.7	Barium	mg/L	1.17	1.18	1.00	1.5	20	102	X348005 - X3K0279-01	
EPA 200.7	Beryllium	mg/L	0.942	0.950	1.00	0.8	20	94.2	X348005 - X3K0279-01	
EPA 200.7	Boron	mg/L	0.998	1.01	1.00	0.9	20	98.7	X348005 - X3K0279-01	
EPA 200.7	Cadmium	mg/L	0.972	0.977	1.00	0.6	20	97.2	X348005 - X3K0279-01	
EPA 200.7	Calcium	mg/L	71.7	72.1	20.0	0.5	20	102	X348005 - X3K0279-01	
EPA 200.7	Chromium	mg/L	0.983	0.986	1.00	0.3	20	98.3	X348005 - X3K0279-01	
EPA 200.7	Cobalt	mg/L	0.943	0.947	1.00	0.5	20	94.3	X348005 - X3K0279-01	
EPA 200.7	Copper	mg/L	0.960	0.961	1.00	0.1	20	96.0	X348005 - X3K0279-01	
EPA 200.7	Iron	mg/L	10.9	11.1	10.0	1.5	20	100	X348005 - X3K0279-01	
EPA 200.7	Lead	mg/L	0.968	0.970	1.00	0.2	20	96.8	X348005 - X3K0279-01	
EPA 200.7	Lithium	mg/L	0.946	0.961	1.00	1.5	20	94.6	X348005 - X3K0279-01	
EPA 200.7	Magnesium	mg/L	33.0	33.4	20.0	1.1	20	101	X348005 - X3K0279-01	
EPA 200.7	Manganese	mg/L	2.55	2.56	1.00	0.3	20	96.4	X348005 - X3K0279-01	
EPA 200.7	Molybdenum	mg/L	0.956	0.955	1.00	0.1	20	95.6	X348005 - X3K0279-01	
EPA 200.7	Nickel	mg/L	0.943	0.942	1.00	0.0	20	94.3	X348005 - X3K0279-01	
EPA 200.7	Potassium	mg/L	22.5	22.7	20.0	0.9	20	102	X348005 - X3K0279-01	
EPA 200.7	Silver	mg/L	0.0502	0.0508	0.0500	1.4	20	100	X348005 - X3K0279-01	
EPA 200.7	Sodium	mg/L	35.7	35.9	19.0	0.6	20	101	X348005 - X3K0279-01	
EPA 200.7	Vanadium	mg/L	0.998	1.01	1.00	0.9	20	99.8	X348005 - X3K0279-01	
EPA 200.7	Zinc	mg/L	0.995	1.01	1.00	1.0	20	99.5	X348005 - X3K0279-01	
EPA 200.8	Antimony	mg/L	0.0346	0.0337	0.0250	2.8	20	106	X346268 - X3K0212-01	
EPA 200.8	Arsenic	mg/L	0.0297	0.0290	0.0250	2.4	20	101	X346268 - X3K0212-01	
EPA 200.8	Cadmium	mg/L	0.0255	0.0249	0.0250	2.4	20	102	X346268 - X3K0212-01	
EPA 200.8	Chromium	mg/L	0.0247	0.0245	0.0250	1.1	20	98.9	X346268 - X3K0212-01	
EPA 200.8	Copper	mg/L	0.0257	0.0249	0.0250	3.1	20	101	X346268 - X3K0212-01	
EPA 200.8	Lead	mg/L	0.0245	0.0231	0.0250	6.1	20	98.1	X346268 - X3K0212-01	
EPA 200.8	Selenium	mg/L	0.0250	0.0241	0.0250	3.8	20	100	X346268 - X3K0212-01	
EPA 200.8	Silver	mg/L	0.0246	0.0245	0.0250	0.7	20	98.5	X346268 - X3K0212-01	
EPA 200.8	Thallium	mg/L	0.0248	0.0231	0.0250	6.8	20	99.1	X346268 - X3K0212-01	
EPA 200.8	Uranium	mg/L	0.0252	0.0239	0.0250	5.2	20	99.6	X346268 - X3K0212-01	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00193	0.00200	0.00200	3.4	20	96.7	X347142 - X3K0281-01	
EPA 245.1	Mercury	mg/L	0.00202	0.00205	0.00200	1.3	20	101	X347144 - X3K0279-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.0950	0.100	4.1	11	99.0	X347063 - X3K0213-01	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.105	0.100	0.8	20	98.7	X346261 - X3K0279-01	
EPA 350.1	Ammonia as N	mg/L	1.04	1.02	1.00	1.9	20	104	X347101 - X3K0279-03	
EPA 351.2	TKN	mg/L	7.99	7.75	8.00	3.0	20	99.9	X348010 - X3K0285-01	
OIA 1677	Cyanide (WAD)	mg/L	0.126	0.0950	0.100	28.1	11	123	X347065 - X3K0213-01	H1,M1,R2B
SM 4500 S D	Sulfide	mg/L	0.228	0.232	0.200	1.7	20	114	X346088 - X3K0183-13	H1
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0187	0.0185	0.0222	1.5	20	84.4	X348019 - X3K0099-03	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.00	2.99	3.00	0.3	20	97.5	X346200 - X3K0279-04	
EPA 300.0	Fluoride	mg/L	1.96	1.95	2.00	0.5	20	98.1	X346200 - X3K0279-04	
EPA 300.0	Nitrate as N	mg/L	1.99	1.98	2.00	0.4	20	99.3	X346200 - X3K0279-04	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.09	4.07	4.00	0.5	20	102	X346200 - X3K0279-04	
EPA 300.0	Nitrite as N	mg/L	2.11	2.09	2.00	0.6	20	105	X346200 - X3K0279-04	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.6	10.0	0.3	20	103	X346200 - X3K0279-04	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H1	Sample analysis performed past holding time.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
R2B	RPD exceeded the laboratory acceptance limit.
U	Less than MDL.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Client Sample ID: **RB-1206**
SVL Sample ID: **X3L0112-01 (Ground Water)**

Sampled: 06-Dec-23 09:32
Received: 07-Dec-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	0.116	mg/L	0.100	0.069		X350051	JRR	12/13/23 09:32	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X350051	JRR	12/13/23 09:32	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X350051	JRR	12/13/23 09:32	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		12/13/23 09:32	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X349219	JRR	12/12/23 15:20	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X349219	JRR	12/12/23 15:20	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X349219	JRR	12/12/23 15:20	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X349219	JRR	12/12/23 15:20	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X349219	JRR	12/12/23 15:20	
EPA 200.7	**Calcium**	0.155	mg/L	0.100	0.069		X349219	JRR	12/12/23 15:20	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X349219	JRR	12/12/23 15:20	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X349219	JRR	12/12/23 15:20	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X349219	JRR	12/12/23 15:20	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X349219	JRR	12/12/23 15:20	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X349219	JRR	12/12/23 15:20	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X349219	JRR	12/12/23 15:20	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X349219	JRR	12/12/23 15:20	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X349219	JRR	12/12/23 15:20	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X349219	JRR	12/12/23 15:20	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X349219	JRR	12/12/23 15:20	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X349219	JRR	12/12/23 15:20	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X349219	JRR	12/12/23 15:20	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X349219	JRR	12/12/23 15:20	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X349219	JRR	12/12/23 15:20	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X349219	JRR	12/12/23 15:20	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X349242	SMU	01/04/24 12:56	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X349242	SMU	01/04/24 12:56	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X349242	SMU	01/04/24 12:56	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X349242	SMU	01/04/24 12:56	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X349242	SMU	01/04/24 12:56	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X350014	MAC	12/14/23 12:43	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X349202	DD	12/07/23 15:06	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X350032	DD	12/12/23 14:30	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X350167	DD	12/15/23 12:57	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X350055	DD	12/14/23 11:35	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X350025	MWD	12/11/23 11:03	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 17:38	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 17:38	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 17:38	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 17:38	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X349222	TJL	12/09/23 11:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X349223	TJL	12/11/23 15:25	
SM 4500 H B	**pH @19.1°C**	5.6	pH Units				X349290	MWD	12/08/23 17:38	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Client Sample ID: **RB-1206**
SVL Sample ID: **X3L0112-01 (Ground Water)**

Sampled: 06-Dec-23 09:32
Received: 07-Dec-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 0.20	mg/L	0.20	0.02		X349187	RS	12/08/23 00:05	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X349187	RS	12/08/23 00:05	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X349187	RS	12/08/23 00:05	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X349187	RS	12/08/23 00:05	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X349187	RS	12/08/23 00:05	
EPA 300.0	**Sulfate as SO4**	1.25	mg/L	0.30	0.18		X349187	RS	12/08/23 00:05	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 0.04 meq/L Anion Sum: 0.05 meq/L C/A Balance: -16.95 % Calculated TDS: 1 TDS/cTDS: 0.00

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Newmont - Cripple Creek & Victor
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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X350051	13-Dec-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X350051	13-Dec-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X350051	13-Dec-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X349219	12-Dec-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X349219	12-Dec-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X349219	12-Dec-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X349219	12-Dec-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X349219	12-Dec-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X349219	12-Dec-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X349219	12-Dec-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X349219	12-Dec-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X349219	12-Dec-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X349219	12-Dec-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X349219	12-Dec-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X349219	12-Dec-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X349219	12-Dec-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X349219	12-Dec-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X349219	12-Dec-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X349219	12-Dec-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X349219	12-Dec-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X349219	12-Dec-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X349219	12-Dec-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X349219	12-Dec-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X349219	12-Dec-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X349242	04-Jan-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X349242	04-Jan-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X349242	04-Jan-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X349242	04-Jan-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X349242	04-Jan-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X350014	14-Dec-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X349202	07-Dec-23	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X351195	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X350032	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X350167	15-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X350055	13-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X350217	21-Dec-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X350025	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X349222	09-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X349223	11-Dec-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X349187	07-Dec-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X349187	07-Dec-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X349187	07-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X349187	07-Dec-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X349187	07-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X349187	07-Dec-23	

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X350051	13-Dec-23	
EPA 200.7	Magnesium	mg/L	20.3	20.0	101	85 - 115	X350051	13-Dec-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.9	85 - 115	X350051	13-Dec-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.942	1.00	94.2	85 - 115	X349219	12-Dec-23	
EPA 200.7	Barium	mg/L	0.991	1.00	99.1	85 - 115	X349219	12-Dec-23	
EPA 200.7	Beryllium	mg/L	0.917	1.00	91.7	85 - 115	X349219	12-Dec-23	
EPA 200.7	Boron	mg/L	0.950	1.00	95.0	85 - 115	X349219	12-Dec-23	
EPA 200.7	Cadmium	mg/L	0.948	1.00	94.8	85 - 115	X349219	12-Dec-23	
EPA 200.7	Calcium	mg/L	19.1	20.0	95.4	85 - 115	X349219	12-Dec-23	
EPA 200.7	Chromium	mg/L	0.955	1.00	95.5	85 - 115	X349219	12-Dec-23	
EPA 200.7	Cobalt	mg/L	0.929	1.00	92.9	85 - 115	X349219	12-Dec-23	
EPA 200.7	Copper	mg/L	0.934	1.00	93.4	85 - 115	X349219	12-Dec-23	
EPA 200.7	Iron	mg/L	9.76	10.0	97.6	85 - 115	X349219	12-Dec-23	
EPA 200.7	Lead	mg/L	0.936	1.00	93.6	85 - 115	X349219	12-Dec-23	
EPA 200.7	Lithium	mg/L	0.948	1.00	94.8	85 - 115	X349219	12-Dec-23	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.5	85 - 115	X349219	12-Dec-23	
EPA 200.7	Manganese	mg/L	0.953	1.00	95.3	85 - 115	X349219	12-Dec-23	
EPA 200.7	Molybdenum	mg/L	0.939	1.00	93.9	85 - 115	X349219	12-Dec-23	
EPA 200.7	Nickel	mg/L	0.928	1.00	92.8	85 - 115	X349219	12-Dec-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.0	85 - 115	X349219	12-Dec-23	
EPA 200.7	Silver	mg/L	0.0492	0.0500	98.5	85 - 115	X349219	12-Dec-23	
EPA 200.7	Sodium	mg/L	18.4	19.0	97.0	85 - 115	X349219	12-Dec-23	
EPA 200.7	Vanadium	mg/L	0.963	1.00	96.3	85 - 115	X349219	12-Dec-23	
EPA 200.7	Zinc	mg/L	0.967	1.00	96.7	85 - 115	X349219	12-Dec-23	
EPA 200.8	Antimony	mg/L	0.0240	0.0250	95.9	85 - 115	X349242	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.2	85 - 115	X349242	04-Jan-24	
EPA 200.8	Selenium	mg/L	0.0213	0.0250	85.3	85 - 115	X349242	04-Jan-24	
EPA 200.8	Thallium	mg/L	0.0261	0.0250	105	85 - 115	X349242	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0267	0.0250	107	85 - 115	X349242	04-Jan-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00186	0.00200	93.0	85 - 115	X350014	14-Dec-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0900	0.100	90.0	90 - 110	X349202	07-Dec-23	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X351195	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X350032	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	0.911	1.00	91.1	90 - 110	X350167	15-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X350055	14-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X350217	21-Dec-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1610	1640	98.2	95.4 - 104	X350025	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	96.4 - 105	X349290	08-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.9	99.3	101	96.4 - 105	X349290	08-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X349223	11-Dec-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.07	3.00	102	90 - 110	X349187	07-Dec-23	
EPA 300.0	Fluoride	mg/L	2.04	2.00	102	90 - 110	X349187	07-Dec-23	
EPA 300.0	Nitrate as N	mg/L	2.02	2.00	101	90 - 110	X349187	07-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.61	4.50	102	90 - 110	X349187	07-Dec-23	
EPA 300.0	Nitrite as N	mg/L	2.59	2.50	104	90 - 110	X349187	07-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X349187	07-Dec-23	

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Newmont - Cripple Creek & Victor
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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X350025 - X3L0053-01	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	153	153	0.2	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	153	153	0.2	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X349290 - X3L0112-02	08-Dec-23	
SM 2540 C	Total Diss. Solids	mg/L	156	166	6.2	10	X349222 - X3L0113-02	09-Dec-23	
SM 2540 C	Total Diss. Solids	mg/L	265	239	10.3	10	X349222 - X3L0112-03	09-Dec-23	R2B
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X349223 - X3L0136-01	11-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	6.0	<5.0	<RL	10	X349223 - X3L0112-03	11-Dec-23	R2B
SM 4500 H B	pH @19.1°C	pH Units	7.6	7.6	0.1	20	X349290 - X3L0112-02	08-Dec-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	20.1	0.116	20.0	100	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Calcium	mg/L	526	522	20.0	0.30R>S	70 - 130	X350051 - X3L0112-05	13-Dec-23	D2,M4
EPA 200.7	Magnesium	mg/L	20.5	<0.500	20.0	103	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Magnesium	mg/L	418	443	20.0	0.30R>S	70 - 130	X350051 - X3L0112-05	13-Dec-23	D1,M4
EPA 200.7	Potassium	mg/L	19.6	<0.50	20.0	98.1	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Potassium	mg/L	26.2	7.44	20.0	93.7	70 - 130	X350051 - X3L0112-05	13-Dec-23	D1
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.784	<0.080	1.00	78.4	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Barium	mg/L	1.02	0.0303	1.00	99.3	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Beryllium	mg/L	0.892	<0.00200	1.00	89.2	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Boron	mg/L	1.03	0.0591	1.00	97.1	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Cadmium	mg/L	0.939	<0.0020	1.00	93.9	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Calcium	mg/L	208	188	20.0	99.7	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Chromium	mg/L	0.952	<0.0060	1.00	95.2	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Cobalt	mg/L	0.920	<0.0060	1.00	92.0	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Copper	mg/L	0.952	<0.0100	1.00	94.9	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Iron	mg/L	9.72	<0.100	10.0	97.2	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Lead	mg/L	0.927	<0.0075	1.00	92.7	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Lithium	mg/L	1.04	0.057	1.00	98.1	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Magnesium	mg/L	39.8	19.7	20.0	101	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Manganese	mg/L	1.20	0.250	1.00	94.9	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Molybdenum	mg/L	0.918	<0.0080	1.00	91.8	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Nickel	mg/L	0.913	<0.0100	1.00	91.3	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Potassium	mg/L	23.3	3.48	20.0	99.2	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Silver	mg/L	0.0507	<0.0050	0.0500	101	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Sodium	mg/L	71.2	52.7	19.0	97.4	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Vanadium	mg/L	0.978	<0.0050	1.00	97.5	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Zinc	mg/L	0.997	0.0124	1.00	98.5	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.8	Antimony	mg/L	0.0267	<0.00100	0.0250	107	70 - 130	X349242 - X3L0087-01	04-Jan-24	
EPA 200.8	Antimony	mg/L	0.0285	<0.00100	0.0250	114	70 - 130	X349242 - X3L0089-02	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0284	<0.00100	0.0250	114	70 - 130	X349242 - X3L0087-01	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0311	<0.00100	0.0250	123	70 - 130	X349242 - X3L0089-02	04-Jan-24	
EPA 200.8	Selenium	mg/L	0.0294	<0.00100	0.0250	118	70 - 130	X349242 - X3L0087-01	04-Jan-24	

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Selenium	mg/L	0.0316	<0.00100	0.0250	126	70 - 130	X349242 - X3L0089-02	04-Jan-24	
EPA 200.8	Thallium	mg/L	0.0262	<0.000200	0.0250	105	70 - 130	X349242 - X3L0087-01	04-Jan-24	
EPA 200.8	Thallium	mg/L	0.0278	<0.000200	0.0250	111	70 - 130	X349242 - X3L0089-02	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0243	<0.000100	0.0250	97.0	70 - 130	X349242 - X3L0087-01	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0263	<0.000100	0.0250	105	70 - 130	X349242 - X3L0089-02	04-Jan-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00186	<0.000200	0.00200	93.1	70 - 130	X350014 - X3L0112-01	14-Dec-23	
EPA 245.1	Mercury	mg/L	0.00181	<0.000200	0.00200	90.5	70 - 130	X350014 - X3L0146-01	14-Dec-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0830	<0.0050	0.100	83.0	79 - 121	X349202 - X3L0078-01	07-Dec-23	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	<0.0050	0.100	105	79 - 121	X351195 - X3L0112-05	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	0.107	<0.0050	0.100	107	90 - 110	X350032 - X3L0112-01	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	1.15	0.287	1.00	86.2	90 - 110	X350167 - X3L0113-01	15-Dec-23	M2
EPA 350.1	Ammonia as N	mg/L	0.902	<0.030	1.00	90.2	90 - 110	X350167 - X3L0113-02	15-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0570	<0.0050	0.100	56.0	82 - 118	X350055 - X3K0428-01	13-Dec-23	M2,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.118	<0.0050	0.100	118	82 - 118	X350217 - X3L0078-06	21-Dec-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	23.7	21.4	3.00	0.30R>S	90 - 110	X349187 - X3L0071-03	07-Dec-23	D2,M4
EPA 300.0	Chloride	mg/L	3.03	<0.20	3.00	97.9	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Fluoride	mg/L	2.05	<0.100	2.00	101	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	99.4	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Nitrate as N	mg/L	2.21	0.205	2.00	100	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Nitrate as N	mg/L	1.96	<0.050	2.00	96.1	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.33	0.212	4.00	103	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.02	<0.100	4.00	99.3	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Nitrite as N	mg/L	2.13	<0.050	2.00	106	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	36.4	25.7	10.0	107	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	11.5	1.25	10.0	103	90 - 110	X349187 - X3L0112-01	08-Dec-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	20.2	20.1	20.0	0.2	20	100	X350051 - X3L0112-01	
EPA 200.7	Magnesium	mg/L	20.7	20.5	20.0	0.8	20	103	X350051 - X3L0112-01	
EPA 200.7	Potassium	mg/L	19.6	19.6	20.0	0.0	20	98.2	X350051 - X3L0112-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.803	0.784	1.00	2.3	20	80.3	X349219 - X3L0078-02	
EPA 200.7	Barium	mg/L	1.05	1.02	1.00	2.9	20	102	X349219 - X3L0078-02	
EPA 200.7	Beryllium	mg/L	0.910	0.892	1.00	2.1	20	91.0	X349219 - X3L0078-02	
EPA 200.7	Boron	mg/L	1.05	1.03	1.00	2.2	20	99.4	X349219 - X3L0078-02	
EPA 200.7	Cadmium	mg/L	0.964	0.939	1.00	2.7	20	96.4	X349219 - X3L0078-02	
EPA 200.7	Calcium	mg/L	209	208	20.0	0.5	20	105	X349219 - X3L0078-02	
EPA 200.7	Chromium	mg/L	0.976	0.952	1.00	2.4	20	97.6	X349219 - X3L0078-02	
EPA 200.7	Cobalt	mg/L	0.946	0.920	1.00	2.7	20	94.6	X349219 - X3L0078-02	

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Copper	mg/L	0.971	0.952	1.00	2.0	20	96.8	X349219 - X3L0078-02	
EPA 200.7	Iron	mg/L	10.0	9.72	10.0	2.9	20	100	X349219 - X3L0078-02	
EPA 200.7	Lead	mg/L	0.959	0.927	1.00	3.4	20	95.9	X349219 - X3L0078-02	
EPA 200.7	Lithium	mg/L	1.06	1.04	1.00	2.5	20	101	X349219 - X3L0078-02	
EPA 200.7	Magnesium	mg/L	40.7	39.8	20.0	2.3	20	105	X349219 - X3L0078-02	
EPA 200.7	Manganese	mg/L	1.22	1.20	1.00	2.1	20	97.4	X349219 - X3L0078-02	
EPA 200.7	Molybdenum	mg/L	0.943	0.918	1.00	2.7	20	94.3	X349219 - X3L0078-02	
EPA 200.7	Nickel	mg/L	0.940	0.913	1.00	3.0	20	94.0	X349219 - X3L0078-02	
EPA 200.7	Potassium	mg/L	24.0	23.3	20.0	2.7	20	102	X349219 - X3L0078-02	
EPA 200.7	Silver	mg/L	0.0518	0.0507	0.0500	2.2	20	104	X349219 - X3L0078-02	
EPA 200.7	Sodium	mg/L	71.9	71.2	19.0	1.0	20	101	X349219 - X3L0078-02	
EPA 200.7	Vanadium	mg/L	1.00	0.978	1.00	2.3	20	99.8	X349219 - X3L0078-02	
EPA 200.7	Zinc	mg/L	1.02	0.997	1.00	2.5	20	101	X349219 - X3L0078-02	
EPA 200.8	Antimony	mg/L	0.0273	0.0267	0.0250	2.2	20	109	X349242 - X3L0087-01	
EPA 200.8	Arsenic	mg/L	0.0295	0.0284	0.0250	3.7	20	118	X349242 - X3L0087-01	
EPA 200.8	Selenium	mg/L	0.0296	0.0294	0.0250	0.7	20	118	X349242 - X3L0087-01	
EPA 200.8	Thallium	mg/L	0.0266	0.0262	0.0250	1.6	20	106	X349242 - X3L0087-01	
EPA 200.8	Uranium	mg/L	0.0249	0.0243	0.0250	2.6	20	99.5	X349242 - X3L0087-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00188	0.00186	0.00200	0.8	20	93.8	X350014 - X3L0112-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0820	0.0830	0.100	1.2	11	82.0	X349202 - X3L0078-01	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.105	0.100	5.9	11	99.0	X351195 - X3L0112-05	
EPA 335.4	Cyanide (total)	mg/L	0.0989	0.107	0.100	7.9	20	98.9	X350032 - X3L0112-01	
EPA 350.1	Ammonia as N	mg/L	1.15	1.15	1.00	0.5	20	86.7	X350167 - X3L0113-01	M2
OIA 1677	Cyanide (WAD)	mg/L	0.0710	0.0570	0.100	21.9	11	70.0	X350055 - X3K0428-01	M2,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.120	0.118	0.100	1.7	11	120	X350217 - X3L0078-06	M1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	24.1	23.7	3.00	1.5	20	90.1	X349187 - X3L0071-03	D2
EPA 300.0	Fluoride	mg/L	1.99	2.05	2.00	2.8	20	98.1	X349187 - X3L0071-03	
EPA 300.0	Nitrate as N	mg/L	2.15	2.21	2.00	2.3	20	97.5	X349187 - X3L0071-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.19	4.33	4.00	3.2	20	99.6	X349187 - X3L0071-03	
EPA 300.0	Nitrite as N	mg/L	2.04	2.13	2.00	4.1	20	102	X349187 - X3L0071-03	
EPA 300.0	Sulfate as SO4	mg/L	36.0	36.4	10.0	1.2	20	102	X349187 - X3L0071-03	

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
E12	The reported value is estimated due to the presence of interferents.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3J0204**
Reported: 25-Oct-23 15:08

Client Sample ID: **GVMW-125**
SVL Sample ID: **X3J0204-02 (Ground Water)**

Sampled: 10-Oct-23 12:31
Received: 11-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	590	mg/L	0.500	0.345	5	X342014	JRR	10/17/23 13:30	D2
EPA 200.7	**Magnesium**	430	mg/L	0.500	0.090		X342014	JRR	10/17/23 12:26	
EPA 200.7	**Potassium**	9.25	mg/L	0.50	0.18		X342014	JRR	10/17/23 12:26	
SM 2340 B	**Hardness (as CaCO3)**	3370	mg/L	3.31	1.23		N/A		10/17/23 12:26	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	1060	mg/L	0.800	0.540	10	X342204	JRR	10/24/23 11:58	D2
EPA 200.7	**Barium**	0.0133	mg/L	0.0020	0.0019		X342204	JRR	10/24/23 10:17	
EPA 200.7	**Beryllium**	0.620	mg/L	0.00200	0.00080		X342204	JRR	10/25/23 09:31	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X342204	JRR	10/24/23 10:17	
EPA 200.7	**Cadmium**	1.78	mg/L	0.0020	0.0016		X342204	JRR	10/24/23 10:17	
EPA 200.7	**Calcium**	618	mg/L	0.100	0.069		X342204	JRR	10/24/23 10:17	
EPA 200.7	**Chromium**	0.173	mg/L	0.0060	0.0020		X342204	JRR	10/24/23 10:17	
EPA 200.7	**Cobalt**	2.19	mg/L	0.0060	0.0046		X342204	JRR	10/24/23 10:17	
EPA 200.7	**Copper**	4.20	mg/L	0.0100	0.0027		X342204	JRR	10/24/23 10:17	
EPA 200.7	**Iron**	8.14	mg/L	0.100	0.056		X342204	JRR	10/24/23 10:17	
EPA 200.7	**Lead**	0.0136	mg/L	0.0075	0.0049		X342204	JRR	10/24/23 10:17	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X342204	JRR	10/24/23 10:17	
EPA 200.7	**Magnesium**	461	mg/L	0.500	0.090		X342204	JRR	10/24/23 10:17	
EPA 200.7	**Manganese**	253	mg/L	0.0800	0.0340	10	X342204	JRR	10/24/23 11:58	D2
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X342204	JRR	10/24/23 10:17	
EPA 200.7	**Nickel**	2.74	mg/L	0.0100	0.0048		X342204	JRR	10/24/23 10:17	
EPA 200.7	**Potassium**	7.52	mg/L	0.50	0.18		X342204	JRR	10/24/23 10:17	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X342204	JRR	10/24/23 13:13	
EPA 200.7	**Sodium**	46.0	mg/L	0.50	0.12		X342204	JRR	10/24/23 10:17	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X342204	JRR	10/24/23 10:17	
EPA 200.7	**Zinc**	78.9	mg/L	0.100	0.0540	10	X342204	JRR	10/24/23 11:58	D2
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X341238	SMU	10/23/23 16:01	D1
EPA 200.8	**Arsenic**	0.132	mg/L	0.100	0.0210	100	X341238	SMU	10/23/23 16:01	D1
EPA 200.8	Selenium	< 0.100	mg/L	0.100	0.0240	100	X341238	SMU	10/23/23 16:01	D1
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X341238	SMU	10/23/23 16:01	D1
EPA 200.8	**Uranium**	4.05	mg/L	0.0100	0.00520	100	X341238	SMU	10/23/23 16:01	D2
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X341051	MAC	10/16/23 14:24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X342148	DD	10/18/23 17:01	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X342016	DD	10/17/23 11:21	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X342117	JRR	10/20/23 13:33	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X342247	DD	10/23/23 14:37	
SM 2310 B	**Acidity to pH 8.3**	6310	mg/L as CaCO3	10.0			X343033	MWD	10/23/23 14:07	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:40	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:40	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:40	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X342068	MWD	10/18/23 11:40	
SM 2540 C	**Total Diss. Solids**	14400	mg/L	100			X341161	TJL	10/13/23 14:30	D2
SM 2540 D	**Total Susp. Solids**	48.0	mg/L	5.0			X341162	TJL	10/16/23 17:00	
SM 4500 H B	**pH @18.1°C**	3.6	pH Units				X342068	MWD	10/18/23 11:40	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3J0204**
Reported: 25-Oct-23 15:08

Client Sample ID: **GVMW-125**
SVL Sample ID: **X3J0204-02 (Ground Water)**

Sampled: 10-Oct-23 12:31
Received: 11-Oct-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	23.3	mg/L	2.00	0.22	10	X341112	RS	10/11/23 15:34	D2
EPA 300.0	**Fluoride**	44.0	mg/L	1.00	0.170	10	X341112	RS	10/11/23 15:34	D2
EPA 300.0	**Nitrate as N**	3.93	mg/L	0.500	0.130	10	X341112	RS	10/11/23 15:34	D1
EPA 300.0	**Nitrate+Nitrite as N**	3.93	mg/L	1.00	0.440	10	X341112	RS	10/11/23 15:34	D1
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X341112	RS	10/11/23 15:34	D1
EPA 300.0	**Sulfate as SO4**	10700	mg/L	150	90.0	500	X341112	RS	10/12/23 02:09	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 197 meq/L Anion Sum: 226 meq/L C/A Balance: -6.87 % Calculated TDS: 11889 TDS/cTDS: 1.21

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3J0204**
Reported: 25-Oct-23 15:08

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X342014	17-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X342014	17-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X342014	17-Oct-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X342204	24-Oct-23	
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X342205	23-Oct-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X342204	24-Oct-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X342205	23-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X342204	25-Oct-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X342205	23-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X342204	24-Oct-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X342205	23-Oct-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X342204	24-Oct-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X342205	23-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X342204	24-Oct-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X342205	23-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X342204	24-Oct-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X342205	23-Oct-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X342204	24-Oct-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X342205	23-Oct-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X342204	24-Oct-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X342205	23-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X342204	24-Oct-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X342205	23-Oct-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X342204	24-Oct-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X342205	23-Oct-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X342204	24-Oct-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X342205	23-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X342204	24-Oct-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X342205	23-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X342204	24-Oct-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X342205	23-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X342204	24-Oct-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X342205	23-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X342204	24-Oct-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X342205	23-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X342204	24-Oct-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X342205	23-Oct-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X342204	24-Oct-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X342205	23-Oct-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X342204	24-Oct-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X342205	23-Oct-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X342204	24-Oct-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X342205	23-Oct-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X342204	24-Oct-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X342205	23-Oct-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X341238	23-Oct-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X341238	23-Oct-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X341238	23-Oct-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X341238	23-Oct-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X341238	23-Oct-23	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X341051	16-Oct-23	

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Work Order: **X3J0204**
Reported: 25-Oct-23 15:08

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X342148	18-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X342016	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X342117	20-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X342247	23-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X343033	23-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X342068	18-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X342068	18-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X342068	18-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X342068	18-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X341161	13-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X341162	16-Oct-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X341112	11-Oct-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X341112	11-Oct-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X341112	11-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X341112	11-Oct-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X341112	11-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X341112	11-Oct-23	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.4	20.0	97.2	85 - 115	X342014	17-Oct-23	
EPA 200.7	Magnesium	mg/L	19.0	20.0	94.9	85 - 115	X342014	17-Oct-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.1	85 - 115	X342014	17-Oct-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.08	1.00	108	85 - 115	X342205	23-Oct-23	
EPA 200.7	Aluminum	mg/L	1.03	1.00	103	85 - 115	X342204	24-Oct-23	
EPA 200.7	Barium	mg/L	1.07	1.00	107	85 - 115	X342205	23-Oct-23	
EPA 200.7	Barium	mg/L	1.08	1.00	108	85 - 115	X342204	24-Oct-23	
EPA 200.7	Beryllium	mg/L	1.02	1.00	102	85 - 115	X342205	23-Oct-23	
EPA 200.7	Beryllium	mg/L	0.936	1.00	93.6	85 - 115	X342204	25-Oct-23	
EPA 200.7	Boron	mg/L	0.978	1.00	97.8	85 - 115	X342205	23-Oct-23	
EPA 200.7	Boron	mg/L	0.987	1.00	98.7	85 - 115	X342204	24-Oct-23	
EPA 200.7	Cadmium	mg/L	1.00	1.00	100	85 - 115	X342205	23-Oct-23	
EPA 200.7	Cadmium	mg/L	0.963	1.00	96.3	85 - 115	X342204	24-Oct-23	
EPA 200.7	Calcium	mg/L	20.3	20.0	102	85 - 115	X342205	23-Oct-23	
EPA 200.7	Calcium	mg/L	20.4	20.0	102	85 - 115	X342204	24-Oct-23	
EPA 200.7	Chromium	mg/L	1.05	1.00	105	85 - 115	X342205	23-Oct-23	
EPA 200.7	Chromium	mg/L	0.996	1.00	99.6	85 - 115	X342204	24-Oct-23	
EPA 200.7	Cobalt	mg/L	0.998	1.00	99.8	85 - 115	X342205	23-Oct-23	
EPA 200.7	Cobalt	mg/L	0.968	1.00	96.8	85 - 115	X342204	24-Oct-23	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X342205	23-Oct-23	
EPA 200.7	Copper	mg/L	0.983	1.00	98.3	85 - 115	X342204	24-Oct-23	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X342205	23-Oct-23	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X342204	24-Oct-23	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X342205	23-Oct-23	
EPA 200.7	Lead	mg/L	0.967	1.00	96.7	85 - 115	X342204	24-Oct-23	
EPA 200.7	Lithium	mg/L	1.04	1.00	104	85 - 115	X342205	23-Oct-23	
EPA 200.7	Lithium	mg/L	0.936	1.00	93.6	85 - 115	X342204	24-Oct-23	
EPA 200.7	Magnesium	mg/L	20.1	20.0	101	85 - 115	X342205	23-Oct-23	

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Work Order: **X3J0204**
Reported: 25-Oct-23 15:08

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Dissolved) (Continued)									
EPA 200.7	Magnesium	mg/L	20.5	20.0	102	85 - 115	X342204	24-Oct-23	
EPA 200.7	Manganese	mg/L	1.04	1.00	104	85 - 115	X342205	23-Oct-23	
EPA 200.7	Manganese	mg/L	0.998	1.00	99.8	85 - 115	X342204	24-Oct-23	
EPA 200.7	Molybdenum	mg/L	1.00	1.00	100	85 - 115	X342205	23-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.992	1.00	99.2	85 - 115	X342204	24-Oct-23	
EPA 200.7	Nickel	mg/L	0.998	1.00	99.8	85 - 115	X342205	23-Oct-23	
EPA 200.7	Nickel	mg/L	0.960	1.00	96.0	85 - 115	X342204	24-Oct-23	
EPA 200.7	Potassium	mg/L	20.9	20.0	105	85 - 115	X342205	23-Oct-23	
EPA 200.7	Potassium	mg/L	19.8	20.0	99.1	85 - 115	X342204	24-Oct-23	
EPA 200.7	Silver	mg/L	0.0521	0.0500	104	85 - 115	X342205	23-Oct-23	
EPA 200.7	Silver	mg/L	0.0491	0.0500	98.1	85 - 115	X342204	24-Oct-23	
EPA 200.7	Sodium	mg/L	19.3	19.0	101	85 - 115	X342205	23-Oct-23	
EPA 200.7	Sodium	mg/L	19.2	19.0	101	85 - 115	X342204	24-Oct-23	
EPA 200.7	Vanadium	mg/L	1.04	1.00	104	85 - 115	X342205	23-Oct-23	
EPA 200.7	Vanadium	mg/L	0.981	1.00	98.1	85 - 115	X342204	24-Oct-23	
EPA 200.7	Zinc	mg/L	1.03	1.00	103	85 - 115	X342205	23-Oct-23	
EPA 200.7	Zinc	mg/L	0.936	1.00	93.6	85 - 115	X342204	24-Oct-23	
EPA 200.8	Antimony	mg/L	0.0232	0.0250	92.9	85 - 115	X341238	23-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0241	0.0250	96.2	85 - 115	X341238	23-Oct-23	
EPA 200.8	Selenium	mg/L	0.0251	0.0250	100	85 - 115	X341238	23-Oct-23	
EPA 200.8	Thallium	mg/L	0.0230	0.0250	92.1	85 - 115	X341238	23-Oct-23	
EPA 200.8	Uranium	mg/L	0.0241	0.0250	96.2	85 - 115	X341238	23-Oct-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00206	0.00200	103	85 - 115	X341051	16-Oct-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.100	97.0	90 - 110	X342148	18-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.0969	0.100	96.9	90 - 110	X342016	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	0.975	1.00	97.5	90 - 110	X342117	20-Oct-23	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X342247	23-Oct-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	98.6	95.4 - 104	X343033	23-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X342068	18-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X342068	18-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X341162	16-Oct-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X341112	11-Oct-23	
EPA 300.0	Fluoride	mg/L	2.03	2.00	102	90 - 110	X341112	11-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	102	90 - 110	X341112	11-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.61	4.50	102	90 - 110	X341112	11-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X341112	11-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X341112	11-Oct-23	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X343033 - X3J0234-11	23-Oct-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	159	158	0.1	20	X342068 - X3J0198-03	18-Oct-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	159	158	0.1	20	X342068 - X3J0198-03	18-Oct-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X342068 - X3J0198-03	18-Oct-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X342068 - X3J0198-03	18-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	217	223	2.7	10	X341161 - X3J0198-01	13-Oct-23	
SM 2540 C	Total Diss. Solids	mg/L	258	281	8.5	10	X341161 - X3J0207-02	13-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	11.0	11.0	0.0	10	X341162 - X3J0198-01	16-Oct-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X341162 - X3J0207-02	16-Oct-23	

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Work Order: **X3J0204**
Reported: 25-Oct-23 15:08

Quality Control - DUPLICATE Data (Continued)

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)									
SM 4500 H B	pH @16.9°C	pH Units	7.9	8.0	0.4	20	X342068 - X3J0198-03	18-Oct-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	58.3	40.6	20.0	88.5	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Calcium	mg/L	618	619	20.0	0.30R>S	70 - 130	X342014 - X3J0204-01	17-Oct-23	D2,M4
EPA 200.7	Magnesium	mg/L	27.9	9.05	20.0	94.2	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Magnesium	mg/L	459	444	20.0	74.5	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
EPA 200.7	Potassium	mg/L	22.1	2.43	20.0	98.4	70 - 130	X342014 - X3J0184-01	17-Oct-23	
EPA 200.7	Potassium	mg/L	29.7	9.20	20.0	103	70 - 130	X342014 - X3J0204-01	17-Oct-23	D1
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.04	<0.080	1.00	104	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Aluminum	mg/L	1070	1040	1.00	0.30R>S	70 - 130	X342204 - X3J0204-01	24-Oct-23	D2,M4
EPA 200.7	Aluminum	mg/L	2540	2760	1.00	0.30R>S	70 - 130	X342204 - X3J0212-03	24-Oct-23	D2,M4
EPA 200.7	Barium	mg/L	1.17	0.107	1.00	106	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Barium	mg/L	1.01	0.0133	1.00	99.3	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Barium	mg/L	0.931	<0.0020	1.00	93.1	70 - 130	X342204 - X3J0212-03	24-Oct-23	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Beryllium	mg/L	1.54	0.628	1.00	91.0	70 - 130	X342204 - X3J0204-01	25-Oct-23	
EPA 200.7	Beryllium	mg/L	1.13	0.224	1.00	91.0	70 - 130	X342204 - X3J0212-03	25-Oct-23	
EPA 200.7	Boron	mg/L	0.984	<0.0400	1.00	98.4	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Boron	mg/L	0.990	<0.0400	1.00	99.0	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Boron	mg/L	1.04	0.0521	1.00	98.3	70 - 130	X342204 - X3J0212-03	24-Oct-23	
EPA 200.7	Cadmium	mg/L	0.991	<0.0020	1.00	99.1	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Cadmium	mg/L	2.71	1.82	1.00	88.5	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Cadmium	mg/L	5.44	4.54	1.00	90.6	70 - 130	X342204 - X3J0212-03	24-Oct-23	
EPA 200.7	Calcium	mg/L	63.2	42.3	20.0	104	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Calcium	mg/L	637	613	20.0	116	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Calcium	mg/L	484	453	20.0	0.30R>S	70 - 130	X342204 - X3J0212-03	24-Oct-23	M3
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Chromium	mg/L	1.11	0.179	1.00	93.2	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Chromium	mg/L	1.19	0.237	1.00	95.0	70 - 130	X342204 - X3J0212-03	24-Oct-23	
EPA 200.7	Cobalt	mg/L	0.970	<0.0060	1.00	96.5	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Cobalt	mg/L	3.12	2.24	1.00	88.3	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Cobalt	mg/L	9.83	8.90	1.00	93.1	70 - 130	X342204 - X3J0212-03	24-Oct-23	
EPA 200.7	Copper	mg/L	0.992	<0.0100	1.00	99.2	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Copper	mg/L	5.36	4.32	1.00	104	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Copper	mg/L	89.0	96.4	1.00	0.30R>S	70 - 130	X342204 - X3J0212-03	24-Oct-23	D2,M4
EPA 200.7	Iron	mg/L	10.5	0.425	10.0	101	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Iron	mg/L	17.1	8.02	10.0	90.6	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Iron	mg/L	121	111	10.0	100	70 - 130	X342204 - X3J0212-03	24-Oct-23	
EPA 200.7	Lead	mg/L	0.974	<0.0075	1.00	97.4	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Lead	mg/L	0.927	0.0134	1.00	91.4	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Lead	mg/L	0.892	<0.0075	1.00	89.2	70 - 130	X342204 - X3J0212-03	24-Oct-23	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X342205 - X3J0198-01	23-Oct-23	

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Work Order: **X3J0204**
Reported: 25-Oct-23 15:08

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lithium	mg/L	0.594	<0.040	1.00	59.4	70 - 130	X342204 - X3J0204-01	24-Oct-23	M2
EPA 200.7	Lithium	mg/L	2.10	0.938	1.00	116	70 - 130	X342204 - X3J0212-03	24-Oct-23	
EPA 200.7	Magnesium	mg/L	30.9	11.0	20.0	99.3	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Magnesium	mg/L	483	461	20.0	113	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Magnesium	mg/L	1240	1260	20.0	0.30R>S	70 - 130	X342204 - X3J0212-03	24-Oct-23	D2,M4
EPA 200.7	Manganese	mg/L	1.88	0.853	1.00	102	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Manganese	mg/L	255	247	1.00	0.30R>S	70 - 130	X342204 - X3J0204-01	24-Oct-23	D2,M4
EPA 200.7	Manganese	mg/L	588	641	1.00	0.30R>S	70 - 130	X342204 - X3J0212-03	24-Oct-23	D2,M4
EPA 200.7	Molybdenum	mg/L	0.970	<0.0080	1.00	97.0	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.920	<0.0080	1.00	92.0	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Molybdenum	mg/L	0.911	<0.0080	1.00	91.1	70 - 130	X342204 - X3J0212-03	24-Oct-23	
EPA 200.7	Nickel	mg/L	0.964	<0.0100	1.00	96.4	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Nickel	mg/L	3.66	2.80	1.00	86.8	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Nickel	mg/L	3.33	2.44	1.00	88.9	70 - 130	X342204 - X3J0212-03	24-Oct-23	
EPA 200.7	Potassium	mg/L	22.3	1.13	20.0	106	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Potassium	mg/L	28.4	7.48	20.0	104	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Potassium	mg/L	19.2	<0.50	20.0	96.0	70 - 130	X342204 - X3J0212-03	24-Oct-23	
EPA 200.7	Silver	mg/L	0.0509	<0.0050	0.0500	102	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Silver	mg/L	0.0324	<0.0050	0.0500	64.7	70 - 130	X342204 - X3J0204-01	24-Oct-23	M2
EPA 200.7	Silver	mg/L	0.0195	<0.0050	0.0500	39.1	70 - 130	X342204 - X3J0212-03	24-Oct-23	M2
EPA 200.7	Sodium	mg/L	31.8	12.7	19.0	101	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Sodium	mg/L	65.2	45.7	19.0	103	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Sodium	mg/L	49.9	29.8	19.0	106	70 - 130	X342204 - X3J0212-03	24-Oct-23	
EPA 200.7	Vanadium	mg/L	1.03	<0.0050	1.00	103	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Vanadium	mg/L	0.965	<0.0050	1.00	96.5	70 - 130	X342204 - X3J0204-01	24-Oct-23	
EPA 200.7	Vanadium	mg/L	0.949	<0.0050	1.00	94.9	70 - 130	X342204 - X3J0212-03	24-Oct-23	
EPA 200.7	Zinc	mg/L	0.986	<0.0100	1.00	98.6	70 - 130	X342205 - X3J0198-01	23-Oct-23	
EPA 200.7	Zinc	mg/L	80.6	77.6	1.00	0.30R>S	70 - 130	X342204 - X3J0204-01	24-Oct-23	M4
EPA 200.7	Zinc	mg/L	752	770	1.00	0.30R>S	70 - 130	X342204 - X3J0212-03	24-Oct-23	M4
EPA 200.8	Antimony	mg/L	0.0297	<0.00100	0.0250	119	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Antimony	mg/L	0.0268	<0.00100	0.0250	107	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0302	<0.00100	0.0250	118	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Arsenic	mg/L	0.0336	0.00381	0.0250	119	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Selenium	mg/L	0.0324	<0.00100	0.0250	129	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Selenium	mg/L	0.0290	<0.00100	0.0250	116	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Thallium	mg/L	0.0303	<0.000200	0.0250	121	70 - 130	X341238 - X3J0184-01	23-Oct-23	
EPA 200.8	Thallium	mg/L	0.0281	0.000264	0.0250	111	70 - 130	X341238 - X3J0207-01	23-Oct-23	
EPA 200.8	Uranium	mg/L	0.0356	0.00205	0.0250	134	70 - 130	X341238 - X3J0184-01	23-Oct-23	M1
EPA 200.8	Uranium	mg/L	0.0330	0.00240	0.0250	122	70 - 130	X341238 - X3J0207-01	23-Oct-23	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00219	<0.000200	0.00200	110	70 - 130	X341051 - X3J0168-01	16-Oct-23	
EPA 245.1	Mercury	mg/L	0.00219	<0.000200	0.00200	110	70 - 130	X341051 - X3J0204-01	16-Oct-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	<0.0050	0.100	97.0	79 - 121	X342148 - X3J0198-01	18-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X342016 - X3J0148-01	17-Oct-23	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X342016 - X3J0149-01	17-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.07	0.037	1.00	103	90 - 110	X342117 - X3J0198-01	20-Oct-23	
EPA 350.1	Ammonia as N	mg/L	1.05	<0.030	1.00	103	90 - 110	X342117 - X3J0198-02	20-Oct-23	

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Work Order: **X3J0204**
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Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)										
OIA 1677	Cyanide (WAD)	mg/L	0.114	<0.0050	0.100	113	82 - 118	X342247 - X3J0184-01	23-Oct-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.02	<0.20	3.00	99.8	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Chloride	mg/L	4.77	1.73	3.00	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Fluoride	mg/L	2.04	<0.100	2.00	102	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Fluoride	mg/L	2.26	0.228	2.00	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Nitrate as N	mg/L	2.67	0.628	2.00	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.11	<0.100	4.00	103	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.72	0.628	4.00	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.07	<0.050	2.00	103	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	103	90 - 110	X341112 - X3J0198-04	11-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	10.9	0.46	10.0	104	90 - 110	X341112 - X3J0198-02	11-Oct-23	
EPA 300.0	Sulfate as SO4	mg/L	32.2	22.0	10.0	102	90 - 110	X341112 - X3J0198-04	11-Oct-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	59.0	58.3	20.0	1.3	20	92.2	X342014 - X3J0184-01	
EPA 200.7	Magnesium	mg/L	28.4	27.9	20.0	1.9	20	96.9	X342014 - X3J0184-01	
EPA 200.7	Potassium	mg/L	22.5	22.1	20.0	1.8	20	100	X342014 - X3J0184-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1050	1070	1.00	2.1	20	0.30R>S	X342204 - X3J0204-01	D2,M4
EPA 200.7	Aluminum	mg/L	1.07	1.04	1.00	2.2	20	107	X342205 - X3J0198-01	
EPA 200.7	Barium	mg/L	0.996	1.01	1.00	1.0	20	98.3	X342204 - X3J0204-01	
EPA 200.7	Barium	mg/L	1.17	1.17	1.00	0.1	20	106	X342205 - X3J0198-01	
EPA 200.7	Beryllium	mg/L	1.56	1.54	1.00	1.4	20	93.2	X342204 - X3J0204-01	
EPA 200.7	Beryllium	mg/L	1.02	1.02	1.00	0.1	20	102	X342205 - X3J0198-01	
EPA 200.7	Boron	mg/L	0.963	0.990	1.00	2.8	20	96.3	X342204 - X3J0204-01	
EPA 200.7	Boron	mg/L	0.977	0.984	1.00	0.7	20	97.7	X342205 - X3J0198-01	
EPA 200.7	Cadmium	mg/L	2.65	2.71	1.00	2.0	20	83.0	X342204 - X3J0204-01	
EPA 200.7	Cadmium	mg/L	0.988	0.991	1.00	0.4	20	98.8	X342205 - X3J0198-01	
EPA 200.7	Calcium	mg/L	637	637	20.0	0.1	20	120	X342204 - X3J0204-01	
EPA 200.7	Calcium	mg/L	63.0	63.2	20.0	0.3	20	103	X342205 - X3J0198-01	
EPA 200.7	Chromium	mg/L	1.09	1.11	1.00	2.2	20	90.8	X342204 - X3J0204-01	
EPA 200.7	Chromium	mg/L	1.02	1.03	1.00	0.9	20	102	X342205 - X3J0198-01	
EPA 200.7	Cobalt	mg/L	3.06	3.12	1.00	1.9	20	82.3	X342204 - X3J0204-01	
EPA 200.7	Cobalt	mg/L	0.971	0.970	1.00	0.1	20	96.6	X342205 - X3J0198-01	
EPA 200.7	Copper	mg/L	5.22	5.36	1.00	2.8	20	89.7	X342204 - X3J0204-01	
EPA 200.7	Copper	mg/L	0.996	0.992	1.00	0.5	20	99.6	X342205 - X3J0198-01	
EPA 200.7	Iron	mg/L	17.3	17.1	10.0	1.1	20	92.5	X342204 - X3J0204-01	
EPA 200.7	Iron	mg/L	10.5	10.5	10.0	0.3	20	101	X342205 - X3J0198-01	
EPA 200.7	Lead	mg/L	0.907	0.927	1.00	2.2	20	89.3	X342204 - X3J0204-01	
EPA 200.7	Lead	mg/L	0.970	0.974	1.00	0.5	20	97.0	X342205 - X3J0198-01	
EPA 200.7	Lithium	mg/L	0.630	0.594	1.00	5.9	20	63.0	X342204 - X3J0204-01	M2
EPA 200.7	Lithium	mg/L	1.02	1.03	1.00	1.1	20	102	X342205 - X3J0198-01	
EPA 200.7	Magnesium	mg/L	476	483	20.0	1.5	20	76.2	X342204 - X3J0204-01	
EPA 200.7	Magnesium	mg/L	30.5	30.9	20.0	1.1	20	97.5	X342205 - X3J0198-01	
EPA 200.7	Manganese	mg/L	250	255	1.00	1.7	20	0.30R>S	X342204 - X3J0204-01	D2,M4

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Work Order: **X3J0204**
Reported: 25-Oct-23 15:08

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	1.86	1.88	1.00	0.8	20	101	X342205 - X3J0198-01	
EPA 200.7	Molybdenum	mg/L	0.904	0.920	1.00	1.8	20	90.4	X342204 - X3J0204-01	
EPA 200.7	Molybdenum	mg/L	0.975	0.970	1.00	0.4	20	97.5	X342205 - X3J0198-01	
EPA 200.7	Nickel	mg/L	3.59	3.66	1.00	2.2	20	79.0	X342204 - X3J0204-01	
EPA 200.7	Nickel	mg/L	0.961	0.964	1.00	0.4	20	96.1	X342205 - X3J0198-01	
EPA 200.7	Potassium	mg/L	28.3	28.4	20.0	0.3	20	104	X342204 - X3J0204-01	
EPA 200.7	Potassium	mg/L	22.3	22.3	20.0	0.2	20	106	X342205 - X3J0198-01	
EPA 200.7	Silver	mg/L	0.0310	0.0324	0.0500	4.3	20	62.0	X342204 - X3J0204-01	M2
EPA 200.7	Silver	mg/L	0.0517	0.0509	0.0500	1.6	20	103	X342205 - X3J0198-01	
EPA 200.7	Sodium	mg/L	65.1	65.2	19.0	0.1	20	102	X342204 - X3J0204-01	
EPA 200.7	Sodium	mg/L	31.6	31.8	19.0	0.6	20	99.7	X342205 - X3J0198-01	
EPA 200.7	Vanadium	mg/L	0.940	0.965	1.00	2.6	20	94.0	X342204 - X3J0204-01	
EPA 200.7	Vanadium	mg/L	1.03	1.03	1.00	0.3	20	103	X342205 - X3J0198-01	
EPA 200.7	Zinc	mg/L	78.2	80.6	1.00	2.9	20	0.30R>S	X342204 - X3J0204-01	D2,M4
EPA 200.7	Zinc	mg/L	0.989	0.986	1.00	0.3	20	98.9	X342205 - X3J0198-01	
EPA 200.8	Antimony	mg/L	0.0307	0.0297	0.0250	3.3	20	123	X341238 - X3J0184-01	
EPA 200.8	Arsenic	mg/L	0.0317	0.0302	0.0250	4.9	20	124	X341238 - X3J0184-01	
EPA 200.8	Selenium	mg/L	0.0336	0.0324	0.0250	3.7	20	134	X341238 - X3J0184-01	M1
EPA 200.8	Thallium	mg/L	0.0317	0.0303	0.0250	4.3	20	127	X341238 - X3J0184-01	
EPA 200.8	Uranium	mg/L	0.0372	0.0356	0.0250	4.5	20	141	X341238 - X3J0184-01	M1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00219	0.00219	0.00200	0.0	20	110	X341051 - X3J0168-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0930	0.0970	0.100	4.2	11	93.0	X342148 - X3J0198-01	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.102	0.100	0.4	20	102	X342016 - X3J0148-01	
EPA 350.1	Ammonia as N	mg/L	0.989	1.07	1.00	8.0	20	95.2	X342117 - X3J0198-01	
OIA 1677	Cyanide (WAD)	mg/L	0.115	0.114	0.100	0.9	11	114	X342247 - X3J0184-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.96	3.02	3.00	1.9	20	97.9	X341112 - X3J0198-02	
EPA 300.0	Fluoride	mg/L	1.99	2.04	2.00	2.3	20	99.5	X341112 - X3J0198-02	
EPA 300.0	Nitrate as N	mg/L	1.99	2.04	2.00	2.3	20	99.7	X341112 - X3J0198-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.02	4.11	4.00	2.2	20	100	X341112 - X3J0198-02	
EPA 300.0	Nitrite as N	mg/L	2.02	2.07	2.00	2.1	20	101	X341112 - X3J0198-02	
EPA 300.0	Sulfate as SO4	mg/L	10.7	10.9	10.0	2.0	20	102	X341112 - X3J0198-02	

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Work Order: **X3J0204**
Reported: 25-Oct-23 15:08

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
E11	Sample exceeds method-specified limit for solids content.
E12	The reported value is estimated due to the presence of interferents.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q20	Sample tested positive for oxidizers and was treated with sodium thiosulfate. Oxidizers are to be treated at collection before preservation.
Q26	Sample tested positive for sulfides and was treated with cadmium carbonate.
V9	CCV recovery was below method acceptance limits.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Newmont - Cripple Creek & Victor
Post Office Box 191
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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Client Sample ID: **GVMW-125**
SVL Sample ID: **X3K0279-03 (Ground Water)**

Sampled: 15-Nov-23 11:17
Received: 16-Nov-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	479	mg/L	1.00	0.690	10	X348073	JRR	11/30/23 12:01	D2,M4
EPA 200.7	**Magnesium**	329	mg/L	5.00	0.900	10	X348073	JRR	11/30/23 12:01	D1
EPA 200.7	**Potassium**	7.63	mg/L	5.00	1.80	10	X348073	JRR	11/30/23 12:01	D1
SM 2340 B	**Hardness (as CaCO3)**	2750	mg/L	4.56	2.09		N/A		11/30/23 12:01	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	682	mg/L	0.080	0.054		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Barium**	0.0186	mg/L	0.0020	0.0019		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Beryllium**	0.461	mg/L	0.00200	0.00080		X348005	JRR	11/30/23 09:16	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Cadmium**	1.38	mg/L	0.0020	0.0016		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Calcium**	509	mg/L	0.100	0.069		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Chromium**	0.102	mg/L	0.0060	0.0020		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Cobalt**	1.63	mg/L	0.0060	0.0046		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Copper**	2.81	mg/L	0.0100	0.0027		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Iron**	4.28	mg/L	0.100	0.056		X348005	JRR	11/30/23 09:16	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Lithium**	0.119	mg/L	0.040	0.025		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Magnesium**	378	mg/L	0.500	0.090		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Manganese**	174	mg/L	0.0800	0.0340	10	X348005	JRR	11/30/23 10:20	D2
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Nickel**	2.17	mg/L	0.0100	0.0048		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Potassium**	7.57	mg/L	0.50	0.18		X348005	JRR	11/30/23 09:16	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Sodium**	46.0	mg/L	0.50	0.12		X348005	JRR	11/30/23 09:16	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X348005	JRR	11/30/23 09:16	
EPA 200.7	**Zinc**	56.7	mg/L	0.100	0.0540	10	X348005	JRR	11/30/23 10:20	D2
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X346268	SMU	12/14/23 16:27	D1
EPA 200.8	Arsenic	< 0.100	mg/L	0.100	0.0210	100	X346268	SMU	12/14/23 16:27	D1
EPA 200.8	Selenium	< 0.100	mg/L	0.100	0.0240	100	X346268	SMU	12/14/23 16:27	D1
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X346268	SMU	12/14/23 16:27	D1
EPA 200.8	**Uranium**	2.32	mg/L	0.0100	0.00520	100	X346268	SMU	12/14/23 16:27	D1
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X347142	MAC	11/28/23 16:54	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X347063	DD	11/21/23 15:47	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X346261	DD	11/22/23 15:20	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X347101	JRR	11/22/23 11:04	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X347065	DD	11/29/23 15:28	
SM 2310 B	**Acidity to pH 8.3**	4630	mg/L as CaCO3	10.0			X348017	MWD	11/27/23 11:16	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:39	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:39	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:39	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X347089	MWD	11/22/23 13:39	
SM 2540 C	**Total Diss. Solids**	12900	mg/L	100			X347012	TJL	11/21/23 14:30	D2
SM 2540 D	**Total Susp. Solids**	29.0	mg/L	5.0			X347013	TJL	11/28/23 10:45	
SM 4500 H B	**pH @18.8°C**	3.5	pH Units				X347089	MWD	11/22/23 13:39	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Client Sample ID: **GVMW-125**
SVL Sample ID: **X3K0279-03 (Ground Water)**

Sampled: 15-Nov-23 11:17
Received: 16-Nov-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	24.5	mg/L	2.00	0.22	10	X346200	KAG	11/16/23 16:39	D2
EPA 300.0	**Fluoride**	10.4	mg/L	1.00	0.170	10	X346200	KAG	11/16/23 16:39	D2
EPA 300.0	**Nitrate as N**	3.62	mg/L	0.500	0.130	10	X346200	KAG	11/16/23 16:39	
EPA 300.0	**Nitrate+Nitrite as N**	3.62	mg/L	1.00	0.440	10	X346200	KAG	11/16/23 16:39	D1
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X346200	KAG	11/16/23 16:39	D1
EPA 300.0	**Sulfate as SO4**	7410	mg/L	75.0	45.0	250	X346200	KAG	11/16/23 16:56	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 146 meq/L Anion Sum: 156 meq/L C/A Balance: -3.32 % Calculated TDS: 8362 TDS/cTDS: 1.54

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X347139	28-Nov-23	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X348073	30-Nov-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X348073	30-Nov-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X348073	30-Nov-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X348073	30-Nov-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X348073	30-Nov-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X348073	30-Nov-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X348073	30-Nov-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X348073	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X348073	30-Nov-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X348073	30-Nov-23	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X348073	30-Nov-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X348073	30-Nov-23	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X348073	30-Nov-23	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X348073	30-Nov-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X348040	04-Dec-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X348040	04-Dec-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X348040	04-Dec-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X348040	04-Dec-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X348040	04-Dec-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X348040	04-Dec-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X348040	04-Dec-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X348005	30-Nov-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X348005	30-Nov-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X348005	30-Nov-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X348005	30-Nov-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X348005	30-Nov-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X348005	30-Nov-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X348005	30-Nov-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X348005	30-Nov-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X348005	30-Nov-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X348005	30-Nov-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X348005	30-Nov-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X348005	30-Nov-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X348005	30-Nov-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X348005	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X348005	30-Nov-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X348005	30-Nov-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X348005	30-Nov-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X348005	30-Nov-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X348005	30-Nov-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X348005	30-Nov-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X348005	30-Nov-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X346268	12-Dec-23	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X346268	12-Dec-23	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X346268	12-Dec-23	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X346268	12-Dec-23	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X346268	12-Dec-23	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X346268	12-Dec-23	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X346268	12-Dec-23	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X346268	12-Dec-23	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X346268	12-Dec-23	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X346268	12-Dec-23	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X347142	28-Nov-23	
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X347144	30-Nov-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X347063	21-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X346261	22-Nov-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X347101	22-Nov-23	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X348010	28-Nov-23	
Hach 8167	Total Chlorine	mg/L	<0.020		0.020	X348215	01-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X347065	29-Nov-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X348017	27-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X347089	22-Nov-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X347089	22-Nov-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X347089	22-Nov-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X347089	22-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X347012	21-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X347013	28-Nov-23	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X346088	17-Nov-23	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X348019	28-Nov-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X346200	16-Nov-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X346200	16-Nov-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X346200	16-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X346200	16-Nov-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X346200	16-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X346200	16-Nov-23	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 245.1	Mercury	mg/L	0.00196	0.00200	98.0	85 - 115	X347139	28-Nov-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	0.939	1.00	93.9	85 - 115	X348073	30-Nov-23	
EPA 200.7	Beryllium	mg/L	0.932	1.00	93.2	85 - 115	X348073	30-Nov-23	
EPA 200.7	Boron	mg/L	0.925	1.00	92.5	85 - 115	X348073	30-Nov-23	
EPA 200.7	Calcium	mg/L	18.5	20.0	92.7	85 - 115	X348073	30-Nov-23	
EPA 200.7	Chromium	mg/L	0.914	1.00	91.4	85 - 115	X348073	30-Nov-23	
EPA 200.7	Iron	mg/L	9.46	10.0	94.6	85 - 115	X348073	30-Nov-23	
EPA 200.7	Magnesium	mg/L	18.9	20.0	94.5	85 - 115	X348073	30-Nov-23	
EPA 200.7	Manganese	mg/L	0.923	1.00	92.3	85 - 115	X348073	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	0.915	1.00	91.5	85 - 115	X348073	30-Nov-23	
EPA 200.7	Nickel	mg/L	0.893	1.00	89.3	85 - 115	X348073	30-Nov-23	
EPA 200.7	Phosphorus	mg/L	0.945	1.00	94.5	85 - 115	X348073	30-Nov-23	
EPA 200.7	Potassium	mg/L	18.7	20.0	93.3	85 - 115	X348073	30-Nov-23	
EPA 200.7	Sodium	mg/L	17.8	19.0	93.9	85 - 115	X348073	30-Nov-23	
EPA 200.7	Zinc	mg/L	0.903	1.00	90.3	85 - 115	X348073	30-Nov-23	
EPA 200.8	Antimony	mg/L	0.0215	0.0250	85.8	85 - 115	X348040	04-Dec-23	
EPA 200.8	Arsenic	mg/L	0.0246	0.0250	98.3	85 - 115	X348040	04-Dec-23	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)									
EPA 200.8	Cadmium	mg/L	0.0253	0.0250	101	85 - 115	X348040	04-Dec-23	
EPA 200.8	Chromium	mg/L	0.0256	0.0250	102	85 - 115	X348040	04-Dec-23	
EPA 200.8	Copper	mg/L	0.0213	0.0250	85.1	85 - 115	X348040	04-Dec-23	
EPA 200.8	Lead	mg/L	0.0256	0.0250	102	85 - 115	X348040	04-Dec-23	
EPA 200.8	Selenium	mg/L	0.0224	0.0250	89.8	85 - 115	X348040	04-Dec-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.975	1.00	97.5	85 - 115	X348005	30-Nov-23	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X348005	30-Nov-23	
EPA 200.7	Beryllium	mg/L	0.980	1.00	98.0	85 - 115	X348005	30-Nov-23	
EPA 200.7	Boron	mg/L	0.988	1.00	98.8	85 - 115	X348005	30-Nov-23	
EPA 200.7	Cadmium	mg/L	0.983	1.00	98.3	85 - 115	X348005	30-Nov-23	
EPA 200.7	Calcium	mg/L	20.0	20.0	100	85 - 115	X348005	30-Nov-23	
EPA 200.7	Chromium	mg/L	0.986	1.00	98.6	85 - 115	X348005	30-Nov-23	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X348005	30-Nov-23	
EPA 200.7	Copper	mg/L	0.967	1.00	96.7	85 - 115	X348005	30-Nov-23	
EPA 200.7	Iron	mg/L	10.0	10.0	100	85 - 115	X348005	30-Nov-23	
EPA 200.7	Lead	mg/L	0.969	1.00	96.9	85 - 115	X348005	30-Nov-23	
EPA 200.7	Lithium	mg/L	0.966	1.00	96.6	85 - 115	X348005	30-Nov-23	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.7	85 - 115	X348005	30-Nov-23	
EPA 200.7	Manganese	mg/L	0.983	1.00	98.3	85 - 115	X348005	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	0.968	1.00	96.8	85 - 115	X348005	30-Nov-23	
EPA 200.7	Nickel	mg/L	0.959	1.00	95.9	85 - 115	X348005	30-Nov-23	
EPA 200.7	Potassium	mg/L	20.1	20.0	101	85 - 115	X348005	30-Nov-23	
EPA 200.7	Silver	mg/L	0.0506	0.0500	101	85 - 115	X348005	30-Nov-23	
EPA 200.7	Sodium	mg/L	19.0	19.0	100	85 - 115	X348005	30-Nov-23	
EPA 200.7	Vanadium	mg/L	0.999	1.00	99.9	85 - 115	X348005	30-Nov-23	
EPA 200.7	Zinc	mg/L	0.997	1.00	99.7	85 - 115	X348005	30-Nov-23	
EPA 200.8	Antimony	mg/L	0.0246	0.0250	98.4	85 - 115	X346268	12-Dec-23	
EPA 200.8	Arsenic	mg/L	0.0234	0.0250	93.5	85 - 115	X346268	12-Dec-23	
EPA 200.8	Cadmium	mg/L	0.0243	0.0250	97.3	85 - 115	X346268	12-Dec-23	
EPA 200.8	Chromium	mg/L	0.0244	0.0250	97.5	85 - 115	X346268	12-Dec-23	
EPA 200.8	Copper	mg/L	0.0246	0.0250	98.3	85 - 115	X346268	12-Dec-23	
EPA 200.8	Lead	mg/L	0.0238	0.0250	95.1	85 - 115	X346268	12-Dec-23	
EPA 200.8	Selenium	mg/L	0.0224	0.0250	89.8	85 - 115	X346268	12-Dec-23	
EPA 200.8	Silver	mg/L	0.0243	0.0250	97.2	85 - 115	X346268	12-Dec-23	
EPA 200.8	Thallium	mg/L	0.0237	0.0250	94.8	85 - 115	X346268	12-Dec-23	
EPA 200.8	Uranium	mg/L	0.0239	0.0250	95.5	85 - 115	X346268	12-Dec-23	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00200	0.00200	100	85 - 115	X347142	28-Nov-23	
EPA 245.1	Mercury	mg/L	0.00215	0.00200	107	85 - 115	X347144	30-Nov-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.100	99.0	90 - 110	X347063	21-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	0.0990	0.100	99.0	90 - 110	X346261	22-Nov-23	
EPA 350.1	Ammonia as N	mg/L	0.984	1.00	98.4	90 - 110	X347101	22-Nov-23	
EPA 351.2	TKN	mg/L	7.73	8.00	96.6	90 - 110	X348010	28-Nov-23	
OIA 1677	Cyanide (WAD)	mg/L	0.110	0.100	110	90 - 110	X347065	29-Nov-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1620	1640	98.5	95.4 - 104	X348017	27-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	96.4 - 105	X347089	22-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.3	99.3	100	96.4 - 105	X347089	22-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	397	397	99.9	96.4 - 105	X347089	22-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X347013	28-Nov-23	
SM 4500 S D	Sulfide	mg/L	0.534	0.500	107	85 - 115	X346088	17-Nov-23	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0974	0.100	97.4	80 - 120	X348019	28-Nov-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.92	3.00	97.4	90 - 110	X346200	16-Nov-23	
EPA 300.0	Fluoride	mg/L	1.94	2.00	96.9	90 - 110	X346200	16-Nov-23	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	100	90 - 110	X346200	16-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.58	4.50	102	90 - 110	X346200	16-Nov-23	
EPA 300.0	Nitrite as N	mg/L	2.57	2.50	103	90 - 110	X346200	16-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X346200	16-Nov-23	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
Hach 8167	Total Chlorine	mg/L	0.590	0.530	10.7	20	X348215 - X3K0279-01	01-Dec-23	H5
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X348017 - X3K0213-01	27-Nov-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X347089 - X3K0279-02	22-Nov-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X347089 - X3K0279-02	22-Nov-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X347089 - X3K0279-02	22-Nov-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X347089 - X3K0279-02	22-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	274	277	1.1	10	X347012 - X3K0279-01	21-Nov-23	
SM 2540 C	Total Diss. Solids	mg/L	572	566	1.1	10	X347012 - X3K0310-01	21-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X347013 - X3K0310-01	28-Nov-23	
SM 2540 D	Total Susp. Solids	mg/L	33.0	34.0	3.0	10	X347013 - X3K0279-01	28-Nov-23	
SM 4500 H B	pH @19.0°C	pH Units	3.4	3.5	2.9	20	X347089 - X3K0279-02	22-Nov-23	
SM 4500-O-G	Dissolved Oxygen	mg/L	3.3	3.4	3.0	20	X347106 - X3K0279-01	21-Nov-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00204	<0.000093	0.00200	102	70 - 130	X347139 - X3K0285-01	28-Nov-23	
EPA 245.1	Mercury	mg/L	0.00195	<0.000093	0.00200	97.3	70 - 130	X347139 - X3K0312-02	28-Nov-23	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	0.940	<0.0200	1.00	94.0	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Beryllium	mg/L	1.46	0.472	1.00	98.4	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Boron	mg/L	0.961	<0.400	1.00	96.1	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Calcium	mg/L	499	479	20.0	103	70 - 130	X348073 - X3K0279-03	30-Nov-23	D2
EPA 200.7	Chromium	mg/L	1.07	0.114	1.00	95.2	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Iron	mg/L	14.5	4.44	10.0	101	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Magnesium	mg/L	351	329	20.0	110	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Manganese	mg/L	181	179	1.00	0.30R>S	70 - 130	X348073 - X3K0279-03	30-Nov-23	D2,M4
EPA 200.7	Molybdenum	mg/L	0.904	<0.0800	1.00	90.4	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Nickel	mg/L	3.02	2.09	1.00	93.0	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Phosphorus	mg/L	1.03	<0.500	1.00	103	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Potassium	mg/L	27.8	7.63	20.0	101	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Sodium	mg/L	62.6	43.0	19.0	103	70 - 130	X348073 - X3K0279-03	30-Nov-23	D1
EPA 200.7	Zinc	mg/L	55.3	54.9	1.00	0.30R>S	70 - 130	X348073 - X3K0279-03	30-Nov-23	D2,M4
EPA 200.8	Antimony	mg/L	0.0249	<0.00100	0.0250	99.5	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Antimony	mg/L	0.0254	<0.00100	0.0250	102	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Arsenic	mg/L	0.111	0.0763	0.0250	140	70 - 130	X348040 - X3K0300-01	04-Dec-23	M1
EPA 200.8	Arsenic	mg/L	0.115	0.0863	0.0250	115	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Cadmium	mg/L	0.0224	<0.000100	0.0250	89.7	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Cadmium	mg/L	0.0230	<0.000100	0.0250	92.0	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Chromium	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Chromium	mg/L	0.0261	<0.00100	0.0250	105	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Copper	mg/L	0.0236	<0.00040	0.0250	94.2	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Copper	mg/L	0.0237	<0.00040	0.0250	94.8	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Lead	mg/L	0.0242	<0.00020	0.0250	96.8	70 - 130	X348040 - X3K0300-01	04-Dec-23	
EPA 200.8	Lead	mg/L	0.0244	<0.00020	0.0250	97.7	70 - 130	X348040 - X3K0300-04	04-Dec-23	
EPA 200.8	Selenium	mg/L	0.0167	<0.00500	0.0250	66.9	70 - 130	X348040 - X3K0300-01	04-Dec-23	D1,M4
EPA 200.8	Selenium	mg/L	0.0186	<0.0100	0.0250	74.4	70 - 130	X348040 - X3K0300-04	04-Dec-23	D1
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.927	<0.080	1.00	92.7	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Barium	mg/L	1.18	0.142	1.00	104	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Beryllium	mg/L	0.950	<0.00200	1.00	95.0	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	99.7	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Cadmium	mg/L	0.977	<0.0020	1.00	97.7	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Calcium	mg/L	72.1	51.3	20.0	104	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Chromium	mg/L	0.986	<0.0060	1.00	98.6	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Cobalt	mg/L	0.947	<0.0060	1.00	94.7	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Copper	mg/L	0.961	<0.0100	1.00	96.1	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Iron	mg/L	11.1	0.867	10.0	102	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Lead	mg/L	0.970	<0.0075	1.00	97.0	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Lithium	mg/L	0.961	<0.040	1.00	96.1	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Magnesium	mg/L	33.4	12.8	20.0	103	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Manganese	mg/L	2.56	1.59	1.00	97.2	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Molybdenum	mg/L	0.955	<0.0080	1.00	95.5	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Nickel	mg/L	0.942	<0.0100	1.00	94.2	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Potassium	mg/L	22.7	2.06	20.0	103	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Silver	mg/L	0.0508	<0.0050	0.0500	102	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Sodium	mg/L	35.9	16.5	19.0	102	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.7	Zinc	mg/L	1.01	<0.0100	1.00	101	70 - 130	X348005 - X3K0279-01	30-Nov-23	
EPA 200.8	Antimony	mg/L	0.0337	0.00819	0.0250	102	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Antimony	mg/L	<0.0500	<0.0500	0.0250	N/A	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Arsenic	mg/L	0.0290	0.00440	0.0250	98.6	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Arsenic	mg/L	<0.0500	<0.0500	0.0250	67.4	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Cadmium	mg/L	0.0249	<0.000100	0.0250	99.2	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Cadmium	mg/L	0.0231	<0.00500	0.0250	92.6	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
EPA 200.8	Chromium	mg/L	0.0245	<0.00100	0.0250	97.8	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Chromium	mg/L	<0.0500	<0.0500	0.0250	34.5	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Copper	mg/L	0.0249	0.00053	0.0250	97.6	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Copper	mg/L	<0.0200	<0.0200	0.0250	N/A	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Lead	mg/L	0.0231	<0.00020	0.0250	92.3	70 - 130	X346268 - X3K0212-01	12-Dec-23	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Lead	mg/L	0.0243	<0.0100	0.0250	97.3	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
EPA 200.8	Selenium	mg/L	0.0241	<0.00100	0.0250	96.4	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Selenium	mg/L	<0.0500	<0.0500	0.0250	N/A	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1,M4
EPA 200.8	Silver	mg/L	0.0245	<0.00008	0.0250	97.8	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Silver	mg/L	0.0217	<0.00400	0.0250	86.9	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
EPA 200.8	Thallium	mg/L	0.0231	<0.000200	0.0250	92.5	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Thallium	mg/L	0.0233	<0.0100	0.0250	93.2	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
EPA 200.8	Uranium	mg/L	0.0239	0.000246	0.0250	94.5	70 - 130	X346268 - X3K0212-01	12-Dec-23	
EPA 200.8	Uranium	mg/L	0.0258	0.00510	0.0250	83.0	70 - 130	X346268 - X3K0312-01	12-Dec-23	D1
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	100	70 - 130	X347142 - X3K0281-01	28-Nov-23	
EPA 245.1	Mercury	mg/L	0.0116	0.00989	0.00200	86.9	70 - 130	X347142 - X3K0292-01	28-Nov-23	D2,M4
EPA 245.1	Mercury	mg/L	0.00205	<0.000200	0.00200	102	70 - 130	X347144 - X3K0279-01	30-Nov-23	
EPA 245.1	Mercury	mg/L	0.00213	<0.000200	0.00200	101	70 - 130	X347144 - X3K0371-01	30-Nov-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0950	<0.0050	0.100	95.0	79 - 121	X347063 - X3K0213-01	21-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	0.105	0.0056	0.100	99.5	90 - 110	X346261 - X3K0279-01	22-Nov-23	
EPA 335.4	Cyanide (total)	mg/L	0.105	<0.0050	0.100	105	90 - 110	X346261 - X3K0279-02	22-Nov-23	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X347101 - X3K0279-03	22-Nov-23	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	105	90 - 110	X347101 - X3K0281-03	22-Nov-23	
EPA 351.2	TKN	mg/L	7.75	<0.50	8.00	96.9	90 - 110	X348010 - X3K0285-01	28-Nov-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0950	<0.0050	0.100	92.0	82 - 118	X347065 - X3K0213-01	29-Nov-23	H1,R2B
SM 4500 S D	Sulfide	mg/L	1.94	1.68	0.200	0.30R>S	75 - 125	X346088 - X3K0217-07	17-Nov-23	D2,M4
SM 4500 S D	Sulfide	mg/L	0.232	<0.050	0.200	116	75 - 125	X346088 - X3K0183-13	17-Nov-23	H1
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0185	<0.0050	0.0222	83.1	75 - 125	X348019 - X3K0099-03	28-Nov-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.99	<0.20	3.00	97.2	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Chloride	mg/L	18.3	15.6	3.00	0.30R>S	90 - 110	X346200 - X3K0300-02	16-Nov-23	D2,M4
EPA 300.0	Fluoride	mg/L	1.95	<0.100	2.00	97.6	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Fluoride	mg/L	5.03	3.19	2.00	91.6	90 - 110	X346200 - X3K0300-02	16-Nov-23	
EPA 300.0	Nitrate as N	mg/L	1.98	<0.050	2.00	99.0	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Nitrate as N	mg/L	1.94	<0.050	2.00	97.0	90 - 110	X346200 - X3K0300-02	16-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	<0.100	4.00	102	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	<0.100	4.00	99.2	90 - 110	X346200 - X3K0300-02	16-Nov-23	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	105	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X346200 - X3K0300-02	16-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	10.6	<0.30	10.0	103	90 - 110	X346200 - X3K0279-04	16-Nov-23	
EPA 300.0	Sulfate as SO4	mg/L	740	733	10.0	0.30R>S	90 - 110	X346200 - X3K0300-02	16-Nov-23	D2,M4

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 245.1	Mercury	mg/L	0.00211	0.00204	0.00200	3.2	20	105	X347139 - X3K0285-01	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	0.941	0.940	1.00	0.0	20	94.1	X348073 - X3K0279-03	D1
EPA 200.7	Beryllium	mg/L	1.47	1.46	1.00	0.8	20	99.6	X348073 - X3K0279-03	D1
EPA 200.7	Boron	mg/L	0.978	0.961	1.00	1.8	20	97.8	X348073 - X3K0279-03	D1
EPA 200.7	Calcium	mg/L	512	499	20.0	2.5	20	0.30R>S	X348073 - X3K0279-03	D2,M4
EPA 200.7	Chromium	mg/L	1.09	1.07	1.00	2.7	20	98.1	X348073 - X3K0279-03	D1
EPA 200.7	Iron	mg/L	14.5	14.5	10.0	0.1	20	101	X348073 - X3K0279-03	D1
EPA 200.7	Magnesium	mg/L	352	351	20.0	0.4	20	117	X348073 - X3K0279-03	D1
EPA 200.7	Manganese	mg/L	181	181	1.00	0.3	20	0.30R>S	X348073 - X3K0279-03	D2,M4
EPA 200.7	Molybdenum	mg/L	0.916	0.904	1.00	1.3	20	91.6	X348073 - X3K0279-03	D1
EPA 200.7	Nickel	mg/L	3.05	3.02	1.00	1.2	20	96.6	X348073 - X3K0279-03	D1
EPA 200.7	Phosphorus	mg/L	1.08	1.03	1.00	4.4	20	108	X348073 - X3K0279-03	D1
EPA 200.7	Potassium	mg/L	27.7	27.8	20.0	0.5	20	100	X348073 - X3K0279-03	D1
EPA 200.7	Sodium	mg/L	62.9	62.6	19.0	0.5	20	105	X348073 - X3K0279-03	D1
EPA 200.7	Zinc	mg/L	55.8	55.3	1.00	0.8	20	91.0	X348073 - X3K0279-03	D2
EPA 200.8	Antimony	mg/L	0.0244	0.0249	0.0250	1.8	20	97.7	X348040 - X3K0300-01	
EPA 200.8	Arsenic	mg/L	0.106	0.111	0.0250	4.5	20	120	X348040 - X3K0300-01	
EPA 200.8	Cadmium	mg/L	0.0218	0.0224	0.0250	3.1	20	87.0	X348040 - X3K0300-01	
EPA 200.8	Chromium	mg/L	0.0249	0.0257	0.0250	3.3	20	99.5	X348040 - X3K0300-01	
EPA 200.8	Copper	mg/L	0.0227	0.0236	0.0250	3.8	20	90.8	X348040 - X3K0300-01	
EPA 200.8	Lead	mg/L	0.0231	0.0242	0.0250	4.8	20	92.3	X348040 - X3K0300-01	
EPA 200.8	Selenium	mg/L	0.0177	0.0167	0.0250	5.8	20	70.9	X348040 - X3K0300-01	D1
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.913	0.927	1.00	1.5	20	91.3	X348005 - X3K0279-01	
EPA 200.7	Barium	mg/L	1.17	1.18	1.00	1.5	20	102	X348005 - X3K0279-01	
EPA 200.7	Beryllium	mg/L	0.942	0.950	1.00	0.8	20	94.2	X348005 - X3K0279-01	
EPA 200.7	Boron	mg/L	0.998	1.01	1.00	0.9	20	98.7	X348005 - X3K0279-01	
EPA 200.7	Cadmium	mg/L	0.972	0.977	1.00	0.6	20	97.2	X348005 - X3K0279-01	
EPA 200.7	Calcium	mg/L	71.7	72.1	20.0	0.5	20	102	X348005 - X3K0279-01	
EPA 200.7	Chromium	mg/L	0.983	0.986	1.00	0.3	20	98.3	X348005 - X3K0279-01	
EPA 200.7	Cobalt	mg/L	0.943	0.947	1.00	0.5	20	94.3	X348005 - X3K0279-01	
EPA 200.7	Copper	mg/L	0.960	0.961	1.00	0.1	20	96.0	X348005 - X3K0279-01	
EPA 200.7	Iron	mg/L	10.9	11.1	10.0	1.5	20	100	X348005 - X3K0279-01	
EPA 200.7	Lead	mg/L	0.968	0.970	1.00	0.2	20	96.8	X348005 - X3K0279-01	
EPA 200.7	Lithium	mg/L	0.946	0.961	1.00	1.5	20	94.6	X348005 - X3K0279-01	
EPA 200.7	Magnesium	mg/L	33.0	33.4	20.0	1.1	20	101	X348005 - X3K0279-01	
EPA 200.7	Manganese	mg/L	2.55	2.56	1.00	0.3	20	96.4	X348005 - X3K0279-01	
EPA 200.7	Molybdenum	mg/L	0.956	0.955	1.00	0.1	20	95.6	X348005 - X3K0279-01	
EPA 200.7	Nickel	mg/L	0.943	0.942	1.00	0.0	20	94.3	X348005 - X3K0279-01	
EPA 200.7	Potassium	mg/L	22.5	22.7	20.0	0.9	20	102	X348005 - X3K0279-01	
EPA 200.7	Silver	mg/L	0.0502	0.0508	0.0500	1.4	20	100	X348005 - X3K0279-01	
EPA 200.7	Sodium	mg/L	35.7	35.9	19.0	0.6	20	101	X348005 - X3K0279-01	
EPA 200.7	Vanadium	mg/L	0.998	1.01	1.00	0.9	20	99.8	X348005 - X3K0279-01	
EPA 200.7	Zinc	mg/L	0.995	1.01	1.00	1.0	20	99.5	X348005 - X3K0279-01	
EPA 200.8	Antimony	mg/L	0.0346	0.0337	0.0250	2.8	20	106	X346268 - X3K0212-01	
EPA 200.8	Arsenic	mg/L	0.0297	0.0290	0.0250	2.4	20	101	X346268 - X3K0212-01	
EPA 200.8	Cadmium	mg/L	0.0255	0.0249	0.0250	2.4	20	102	X346268 - X3K0212-01	
EPA 200.8	Chromium	mg/L	0.0247	0.0245	0.0250	1.1	20	98.9	X346268 - X3K0212-01	
EPA 200.8	Copper	mg/L	0.0257	0.0249	0.0250	3.1	20	101	X346268 - X3K0212-01	
EPA 200.8	Lead	mg/L	0.0245	0.0231	0.0250	6.1	20	98.1	X346268 - X3K0212-01	
EPA 200.8	Selenium	mg/L	0.0250	0.0241	0.0250	3.8	20	100	X346268 - X3K0212-01	
EPA 200.8	Silver	mg/L	0.0246	0.0245	0.0250	0.7	20	98.5	X346268 - X3K0212-01	
EPA 200.8	Thallium	mg/L	0.0248	0.0231	0.0250	6.8	20	99.1	X346268 - X3K0212-01	
EPA 200.8	Uranium	mg/L	0.0252	0.0239	0.0250	5.2	20	99.6	X346268 - X3K0212-01	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00193	0.00200	0.00200	3.4	20	96.7	X347142 - X3K0281-01	
EPA 245.1	Mercury	mg/L	0.00202	0.00205	0.00200	1.3	20	101	X347144 - X3K0279-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.0950	0.100	4.1	11	99.0	X347063 - X3K0213-01	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.105	0.100	0.8	20	98.7	X346261 - X3K0279-01	
EPA 350.1	Ammonia as N	mg/L	1.04	1.02	1.00	1.9	20	104	X347101 - X3K0279-03	
EPA 351.2	TKN	mg/L	7.99	7.75	8.00	3.0	20	99.9	X348010 - X3K0285-01	
OIA 1677	Cyanide (WAD)	mg/L	0.126	0.0950	0.100	28.1	11	123	X347065 - X3K0213-01	H1,M1,R2B
SM 4500 S D	Sulfide	mg/L	0.228	0.232	0.200	1.7	20	114	X346088 - X3K0183-13	H1
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0187	0.0185	0.0222	1.5	20	84.4	X348019 - X3K0099-03	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.00	2.99	3.00	0.3	20	97.5	X346200 - X3K0279-04	
EPA 300.0	Fluoride	mg/L	1.96	1.95	2.00	0.5	20	98.1	X346200 - X3K0279-04	
EPA 300.0	Nitrate as N	mg/L	1.99	1.98	2.00	0.4	20	99.3	X346200 - X3K0279-04	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.09	4.07	4.00	0.5	20	102	X346200 - X3K0279-04	
EPA 300.0	Nitrite as N	mg/L	2.11	2.09	2.00	0.6	20	105	X346200 - X3K0279-04	
EPA 300.0	Sulfate as SO4	mg/L	10.5	10.6	10.0	0.3	20	103	X346200 - X3K0279-04	

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Work Order: **X3K0279**
Reported: 15-Dec-23 13:46

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H1	Sample analysis performed past holding time.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
R2B	RPD exceeded the laboratory acceptance limit.
U	Less than MDL.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Client Sample ID: **GVMW-125**
SVL Sample ID: **X3L0112-06 (Ground Water)**

Sampled: 06-Dec-23 13:13
Received: 07-Dec-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	540	mg/L	1.00	0.690	10	X350051	JRR	12/13/23 09:51	D2
EPA 200.7	**Magnesium**	452	mg/L	5.00	0.900	10	X350051	JRR	12/13/23 09:51	D2
EPA 200.7	**Potassium**	7.56	mg/L	5.00	1.80	10	X350051	JRR	12/13/23 09:51	D1
SM 2340 B	**Hardness (as CaCO3)**	3090	mg/L	2.31	0.543		N/A		12/13/23 09:51	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	818	mg/L	0.080	0.054		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Barium**	0.0190	mg/L	0.0020	0.0019		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Beryllium**	0.487	mg/L	0.00200	0.00080		X349219	JRR	12/12/23 15:39	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Cadmium**	1.55	mg/L	0.0020	0.0016		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Calcium**	508	mg/L	0.100	0.069		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Chromium**	0.0886	mg/L	0.0060	0.0020		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Cobalt**	2.02	mg/L	0.0060	0.0046		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Copper**	3.20	mg/L	0.0100	0.0027		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Iron**	1.37	mg/L	0.100	0.056		X349219	JRR	12/12/23 15:39	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Lithium**	0.283	mg/L	0.040	0.025		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Magnesium**	441	mg/L	0.500	0.090		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Manganese**	223	mg/L	0.0840	0.0357	10.5	X349219	JRR	12/12/23 15:47	D2
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Nickel**	2.50	mg/L	0.0100	0.0048		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Potassium**	7.71	mg/L	0.50	0.18		X349219	JRR	12/12/23 15:39	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Sodium**	45.0	mg/L	0.50	0.12		X349219	JRR	12/12/23 15:39	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X349219	JRR	12/12/23 15:39	
EPA 200.7	**Zinc**	69.3	mg/L	0.105	0.0567	10.5	X349219	JRR	12/12/23 15:47	D2
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X349242	SMU	01/04/24 13:36	D1
EPA 200.8	**Arsenic**	0.319	mg/L	0.0100	0.00210	10	X349242	SMU	01/04/24 13:36	D1
EPA 200.8	**Selenium**	0.0191	mg/L	0.0100	0.00240	10	X349242	SMU	01/04/24 13:36	D1
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X349242	SMU	01/04/24 13:36	D1
EPA 200.8	**Uranium**	2.81	mg/L	0.00100	0.000520	10	X349242	SMU	01/04/24 13:36	D2
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X350014	MAC	12/14/23 12:54	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0500	mg/L	0.0500	0.0480	10	X351195	DD	12/22/23 12:30	D1,E12,H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X350032	DD	12/12/23 14:43	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X350167	DD	12/15/23 13:10	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X350217	DD	12/21/23 19:00	D1,E12,H1,Q12
SM 2310 B	**Acidity to pH 8.3**	5680	mg/L as CaCO3	10.0			X350025	MWD	12/11/23 11:03	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:14	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:14	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:14	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X349290	MWD	12/08/23 18:14	
SM 2540 C	**Total Diss. Solids**	12700	mg/L	100			X349222	TJL	12/09/23 11:30	D2
SM 2540 D	**Total Susp. Solids**	73.0	mg/L	5.0			X349223	TJL	12/11/23 15:25	
SM 4500 H B	**pH @18.9°C**	3.7	pH Units				X349290	MWD	12/08/23 18:14	H5

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Client Sample ID: **GVMW-125**
SVL Sample ID: **X3L0112-06 (Ground Water)**

Sampled: 06-Dec-23 13:13
Received: 07-Dec-23
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	22.8	mg/L	2.00	0.22	10	X349187	RS	12/08/23 03:22	D2
EPA 300.0	**Fluoride**	69.7	mg/L	25.0	4.25	250	X349187	RS	12/08/23 13:54	D2
EPA 300.0	**Nitrate as N**	3.66	mg/L	0.500	0.130	10	X349187	RS	12/08/23 03:22	D1,E12
EPA 300.0	**Nitrate+Nitrite as N**	3.66	mg/L	1.00	0.440	10	X349187	RS	12/08/23 03:22	D1
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X349187	RS	12/08/23 03:22	D1
EPA 300.0	**Sulfate as SO4**	8490	mg/L	75.0	45.0	250	X349187	RS	12/08/23 03:38	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 177 meq/L Anion Sum: 181 meq/L C/A Balance: -1.10 % Calculated TDS: 9622 TDS/cTDS: 1.32

This data has been reviewed for accuracy and has been authorized for release.

Kathryn Salter
Project Manager

SVL holds the following certifications:
AZ:0538, **ID**:ID00019, **NV**:ID000192007A, **UT**(**TNI**):ID000192015-1, **WA**:C573

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X350051	13-Dec-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X350051	13-Dec-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X350051	13-Dec-23	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X349219	12-Dec-23	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X349219	12-Dec-23	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X349219	12-Dec-23	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X349219	12-Dec-23	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X349219	12-Dec-23	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X349219	12-Dec-23	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X349219	12-Dec-23	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X349219	12-Dec-23	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X349219	12-Dec-23	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X349219	12-Dec-23	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X349219	12-Dec-23	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X349219	12-Dec-23	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X349219	12-Dec-23	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X349219	12-Dec-23	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X349219	12-Dec-23	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X349219	12-Dec-23	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X349219	12-Dec-23	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X349219	12-Dec-23	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X349219	12-Dec-23	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X349219	12-Dec-23	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X349219	12-Dec-23	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X349242	04-Jan-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X349242	04-Jan-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X349242	04-Jan-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X349242	04-Jan-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X349242	04-Jan-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X350014	14-Dec-23	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X349202	07-Dec-23	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X351195	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X350032	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X350167	15-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X350055	13-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X350217	21-Dec-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X350025	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X349290	08-Dec-23	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X349222	09-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X349223	11-Dec-23	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X349187	07-Dec-23	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X349187	07-Dec-23	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X349187	07-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X349187	07-Dec-23	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X349187	07-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X349187	07-Dec-23	

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X350051	13-Dec-23	
EPA 200.7	Magnesium	mg/L	20.3	20.0	101	85 - 115	X350051	13-Dec-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.9	85 - 115	X350051	13-Dec-23	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.942	1.00	94.2	85 - 115	X349219	12-Dec-23	
EPA 200.7	Barium	mg/L	0.991	1.00	99.1	85 - 115	X349219	12-Dec-23	
EPA 200.7	Beryllium	mg/L	0.917	1.00	91.7	85 - 115	X349219	12-Dec-23	
EPA 200.7	Boron	mg/L	0.950	1.00	95.0	85 - 115	X349219	12-Dec-23	
EPA 200.7	Cadmium	mg/L	0.948	1.00	94.8	85 - 115	X349219	12-Dec-23	
EPA 200.7	Calcium	mg/L	19.1	20.0	95.4	85 - 115	X349219	12-Dec-23	
EPA 200.7	Chromium	mg/L	0.955	1.00	95.5	85 - 115	X349219	12-Dec-23	
EPA 200.7	Cobalt	mg/L	0.929	1.00	92.9	85 - 115	X349219	12-Dec-23	
EPA 200.7	Copper	mg/L	0.934	1.00	93.4	85 - 115	X349219	12-Dec-23	
EPA 200.7	Iron	mg/L	9.76	10.0	97.6	85 - 115	X349219	12-Dec-23	
EPA 200.7	Lead	mg/L	0.936	1.00	93.6	85 - 115	X349219	12-Dec-23	
EPA 200.7	Lithium	mg/L	0.948	1.00	94.8	85 - 115	X349219	12-Dec-23	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.5	85 - 115	X349219	12-Dec-23	
EPA 200.7	Manganese	mg/L	0.953	1.00	95.3	85 - 115	X349219	12-Dec-23	
EPA 200.7	Molybdenum	mg/L	0.939	1.00	93.9	85 - 115	X349219	12-Dec-23	
EPA 200.7	Nickel	mg/L	0.928	1.00	92.8	85 - 115	X349219	12-Dec-23	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.0	85 - 115	X349219	12-Dec-23	
EPA 200.7	Silver	mg/L	0.0492	0.0500	98.5	85 - 115	X349219	12-Dec-23	
EPA 200.7	Sodium	mg/L	18.4	19.0	97.0	85 - 115	X349219	12-Dec-23	
EPA 200.7	Vanadium	mg/L	0.963	1.00	96.3	85 - 115	X349219	12-Dec-23	
EPA 200.7	Zinc	mg/L	0.967	1.00	96.7	85 - 115	X349219	12-Dec-23	
EPA 200.8	Antimony	mg/L	0.0240	0.0250	95.9	85 - 115	X349242	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.2	85 - 115	X349242	04-Jan-24	
EPA 200.8	Selenium	mg/L	0.0213	0.0250	85.3	85 - 115	X349242	04-Jan-24	
EPA 200.8	Thallium	mg/L	0.0261	0.0250	105	85 - 115	X349242	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0267	0.0250	107	85 - 115	X349242	04-Jan-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00186	0.00200	93.0	85 - 115	X350014	14-Dec-23	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0900	0.100	90.0	90 - 110	X349202	07-Dec-23	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X351195	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X350032	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	0.911	1.00	91.1	90 - 110	X350167	15-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X350055	14-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X350217	21-Dec-23	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1610	1640	98.2	95.4 - 104	X350025	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	96.4 - 105	X349290	08-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.9	99.3	101	96.4 - 105	X349290	08-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X349223	11-Dec-23	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.07	3.00	102	90 - 110	X349187	07-Dec-23	
EPA 300.0	Fluoride	mg/L	2.04	2.00	102	90 - 110	X349187	07-Dec-23	
EPA 300.0	Nitrate as N	mg/L	2.02	2.00	101	90 - 110	X349187	07-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.61	4.50	102	90 - 110	X349187	07-Dec-23	
EPA 300.0	Nitrite as N	mg/L	2.59	2.50	104	90 - 110	X349187	07-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X349187	07-Dec-23	

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X350025 - X3L0053-01	11-Dec-23	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	153	153	0.2	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Bicarbonate	mg/L as CaCO3	153	153	0.2	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X349290 - X3L0112-02	08-Dec-23	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X349290 - X3L0112-02	08-Dec-23	
SM 2540 C	Total Diss. Solids	mg/L	156	166	6.2	10	X349222 - X3L0113-02	09-Dec-23	
SM 2540 C	Total Diss. Solids	mg/L	265	239	10.3	10	X349222 - X3L0112-03	09-Dec-23	R2B
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X349223 - X3L0136-01	11-Dec-23	
SM 2540 D	Total Susp. Solids	mg/L	6.0	<5.0	<RL	10	X349223 - X3L0112-03	11-Dec-23	R2B
SM 4500 H B	pH @19.1°C	pH Units	7.6	7.6	0.1	20	X349290 - X3L0112-02	08-Dec-23	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	20.1	0.116	20.0	100	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Calcium	mg/L	526	522	20.0	0.30R>S	70 - 130	X350051 - X3L0112-05	13-Dec-23	D2,M4
EPA 200.7	Magnesium	mg/L	20.5	<0.500	20.0	103	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Magnesium	mg/L	418	443	20.0	0.30R>S	70 - 130	X350051 - X3L0112-05	13-Dec-23	D1,M4
EPA 200.7	Potassium	mg/L	19.6	<0.50	20.0	98.1	70 - 130	X350051 - X3L0112-01	13-Dec-23	
EPA 200.7	Potassium	mg/L	26.2	7.44	20.0	93.7	70 - 130	X350051 - X3L0112-05	13-Dec-23	D1
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.784	<0.080	1.00	78.4	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Barium	mg/L	1.02	0.0303	1.00	99.3	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Beryllium	mg/L	0.892	<0.00200	1.00	89.2	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Boron	mg/L	1.03	0.0591	1.00	97.1	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Cadmium	mg/L	0.939	<0.0020	1.00	93.9	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Calcium	mg/L	208	188	20.0	99.7	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Chromium	mg/L	0.952	<0.0060	1.00	95.2	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Cobalt	mg/L	0.920	<0.0060	1.00	92.0	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Copper	mg/L	0.952	<0.0100	1.00	94.9	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Iron	mg/L	9.72	<0.100	10.0	97.2	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Lead	mg/L	0.927	<0.0075	1.00	92.7	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Lithium	mg/L	1.04	0.057	1.00	98.1	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Magnesium	mg/L	39.8	19.7	20.0	101	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Manganese	mg/L	1.20	0.250	1.00	94.9	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Molybdenum	mg/L	0.918	<0.0080	1.00	91.8	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Nickel	mg/L	0.913	<0.0100	1.00	91.3	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Potassium	mg/L	23.3	3.48	20.0	99.2	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Silver	mg/L	0.0507	<0.0050	0.0500	101	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Sodium	mg/L	71.2	52.7	19.0	97.4	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Vanadium	mg/L	0.978	<0.0050	1.00	97.5	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.7	Zinc	mg/L	0.997	0.0124	1.00	98.5	70 - 130	X349219 - X3L0078-02	12-Dec-23	
EPA 200.8	Antimony	mg/L	0.0267	<0.00100	0.0250	107	70 - 130	X349242 - X3L0087-01	04-Jan-24	
EPA 200.8	Antimony	mg/L	0.0285	<0.00100	0.0250	114	70 - 130	X349242 - X3L0089-02	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0284	<0.00100	0.0250	114	70 - 130	X349242 - X3L0087-01	04-Jan-24	
EPA 200.8	Arsenic	mg/L	0.0311	<0.00100	0.0250	123	70 - 130	X349242 - X3L0089-02	04-Jan-24	
EPA 200.8	Selenium	mg/L	0.0294	<0.00100	0.0250	118	70 - 130	X349242 - X3L0087-01	04-Jan-24	

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Selenium	mg/L	0.0316	<0.00100	0.0250	126	70 - 130	X349242 - X3L0089-02	04-Jan-24	
EPA 200.8	Thallium	mg/L	0.0262	<0.000200	0.0250	105	70 - 130	X349242 - X3L0087-01	04-Jan-24	
EPA 200.8	Thallium	mg/L	0.0278	<0.000200	0.0250	111	70 - 130	X349242 - X3L0089-02	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0243	<0.000100	0.0250	97.0	70 - 130	X349242 - X3L0087-01	04-Jan-24	
EPA 200.8	Uranium	mg/L	0.0263	<0.000100	0.0250	105	70 - 130	X349242 - X3L0089-02	04-Jan-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00186	<0.000200	0.00200	93.1	70 - 130	X350014 - X3L0112-01	14-Dec-23	
EPA 245.1	Mercury	mg/L	0.00181	<0.000200	0.00200	90.5	70 - 130	X350014 - X3L0146-01	14-Dec-23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0830	<0.0050	0.100	83.0	79 - 121	X349202 - X3L0078-01	07-Dec-23	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	<0.0050	0.100	105	79 - 121	X351195 - X3L0112-05	22-Dec-23	
EPA 335.4	Cyanide (total)	mg/L	0.107	<0.0050	0.100	107	90 - 110	X350032 - X3L0112-01	12-Dec-23	
EPA 350.1	Ammonia as N	mg/L	1.15	0.287	1.00	86.2	90 - 110	X350167 - X3L0113-01	15-Dec-23	M2
EPA 350.1	Ammonia as N	mg/L	0.902	<0.030	1.00	90.2	90 - 110	X350167 - X3L0113-02	15-Dec-23	
OIA 1677	Cyanide (WAD)	mg/L	0.0570	<0.0050	0.100	56.0	82 - 118	X350055 - X3K0428-01	13-Dec-23	M2,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.118	<0.0050	0.100	118	82 - 118	X350217 - X3L0078-06	21-Dec-23	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	23.7	21.4	3.00	0.30R>S	90 - 110	X349187 - X3L0071-03	07-Dec-23	D2,M4
EPA 300.0	Chloride	mg/L	3.03	<0.20	3.00	97.9	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Fluoride	mg/L	2.05	<0.100	2.00	101	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	99.4	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Nitrate as N	mg/L	2.21	0.205	2.00	100	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Nitrate as N	mg/L	1.96	<0.050	2.00	96.1	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.33	0.212	4.00	103	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.02	<0.100	4.00	99.3	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Nitrite as N	mg/L	2.13	<0.050	2.00	106	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X349187 - X3L0112-01	08-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	36.4	25.7	10.0	107	90 - 110	X349187 - X3L0071-03	07-Dec-23	
EPA 300.0	Sulfate as SO4	mg/L	11.5	1.25	10.0	103	90 - 110	X349187 - X3L0112-01	08-Dec-23	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	20.2	20.1	20.0	0.2	20	100	X350051 - X3L0112-01	
EPA 200.7	Magnesium	mg/L	20.7	20.5	20.0	0.8	20	103	X350051 - X3L0112-01	
EPA 200.7	Potassium	mg/L	19.6	19.6	20.0	0.0	20	98.2	X350051 - X3L0112-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.803	0.784	1.00	2.3	20	80.3	X349219 - X3L0078-02	
EPA 200.7	Barium	mg/L	1.05	1.02	1.00	2.9	20	102	X349219 - X3L0078-02	
EPA 200.7	Beryllium	mg/L	0.910	0.892	1.00	2.1	20	91.0	X349219 - X3L0078-02	
EPA 200.7	Boron	mg/L	1.05	1.03	1.00	2.2	20	99.4	X349219 - X3L0078-02	
EPA 200.7	Cadmium	mg/L	0.964	0.939	1.00	2.7	20	96.4	X349219 - X3L0078-02	
EPA 200.7	Calcium	mg/L	209	208	20.0	0.5	20	105	X349219 - X3L0078-02	
EPA 200.7	Chromium	mg/L	0.976	0.952	1.00	2.4	20	97.6	X349219 - X3L0078-02	
EPA 200.7	Cobalt	mg/L	0.946	0.920	1.00	2.7	20	94.6	X349219 - X3L0078-02	

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Copper	mg/L	0.971	0.952	1.00	2.0	20	96.8	X349219 - X3L0078-02	
EPA 200.7	Iron	mg/L	10.0	9.72	10.0	2.9	20	100	X349219 - X3L0078-02	
EPA 200.7	Lead	mg/L	0.959	0.927	1.00	3.4	20	95.9	X349219 - X3L0078-02	
EPA 200.7	Lithium	mg/L	1.06	1.04	1.00	2.5	20	101	X349219 - X3L0078-02	
EPA 200.7	Magnesium	mg/L	40.7	39.8	20.0	2.3	20	105	X349219 - X3L0078-02	
EPA 200.7	Manganese	mg/L	1.22	1.20	1.00	2.1	20	97.4	X349219 - X3L0078-02	
EPA 200.7	Molybdenum	mg/L	0.943	0.918	1.00	2.7	20	94.3	X349219 - X3L0078-02	
EPA 200.7	Nickel	mg/L	0.940	0.913	1.00	3.0	20	94.0	X349219 - X3L0078-02	
EPA 200.7	Potassium	mg/L	24.0	23.3	20.0	2.7	20	102	X349219 - X3L0078-02	
EPA 200.7	Silver	mg/L	0.0518	0.0507	0.0500	2.2	20	104	X349219 - X3L0078-02	
EPA 200.7	Sodium	mg/L	71.9	71.2	19.0	1.0	20	101	X349219 - X3L0078-02	
EPA 200.7	Vanadium	mg/L	1.00	0.978	1.00	2.3	20	99.8	X349219 - X3L0078-02	
EPA 200.7	Zinc	mg/L	1.02	0.997	1.00	2.5	20	101	X349219 - X3L0078-02	
EPA 200.8	Antimony	mg/L	0.0273	0.0267	0.0250	2.2	20	109	X349242 - X3L0087-01	
EPA 200.8	Arsenic	mg/L	0.0295	0.0284	0.0250	3.7	20	118	X349242 - X3L0087-01	
EPA 200.8	Selenium	mg/L	0.0296	0.0294	0.0250	0.7	20	118	X349242 - X3L0087-01	
EPA 200.8	Thallium	mg/L	0.0266	0.0262	0.0250	1.6	20	106	X349242 - X3L0087-01	
EPA 200.8	Uranium	mg/L	0.0249	0.0243	0.0250	2.6	20	99.5	X349242 - X3L0087-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00188	0.00186	0.00200	0.8	20	93.8	X350014 - X3L0112-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0820	0.0830	0.100	1.2	11	82.0	X349202 - X3L0078-01	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.105	0.100	5.9	11	99.0	X351195 - X3L0112-05	
EPA 335.4	Cyanide (total)	mg/L	0.0989	0.107	0.100	7.9	20	98.9	X350032 - X3L0112-01	
EPA 350.1	Ammonia as N	mg/L	1.15	1.15	1.00	0.5	20	86.7	X350167 - X3L0113-01	M2
OIA 1677	Cyanide (WAD)	mg/L	0.0710	0.0570	0.100	21.9	11	70.0	X350055 - X3K0428-01	M2,R2B
OIA 1677	Cyanide (WAD)	mg/L	0.120	0.118	0.100	1.7	11	120	X350217 - X3L0078-06	M1
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	24.1	23.7	3.00	1.5	20	90.1	X349187 - X3L0071-03	D2
EPA 300.0	Fluoride	mg/L	1.99	2.05	2.00	2.8	20	98.1	X349187 - X3L0071-03	
EPA 300.0	Nitrate as N	mg/L	2.15	2.21	2.00	2.3	20	97.5	X349187 - X3L0071-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.19	4.33	4.00	3.2	20	99.6	X349187 - X3L0071-03	
EPA 300.0	Nitrite as N	mg/L	2.04	2.13	2.00	4.1	20	102	X349187 - X3L0071-03	
EPA 300.0	Sulfate as SO4	mg/L	36.0	36.4	10.0	1.2	20	102	X349187 - X3L0071-03	

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Work Order: **X3L0112**
Reported: 08-Jan-24 10:58

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
E12	The reported value is estimated due to the presence of interferents.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Attachment 2

Field Sheets

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Arequa Gulch
Technician: R. Barela
Static Water Level (DTW): 25.6
Is well Dry? No
If so Dry at: —

Date: 10/26/23
Quarter: 4
Well ID: CBMW-3A
Well Depth (TD): 35 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
10:27			6.74	2272	10.3	started pumping
10:32	25.7	0.1	6.63	2255	10.5	
10:37	25.7	0	6.59	2241	10.9	0.90 L/m (2)
10:42	25.7	0	6.58	2235	10.9	
10:47	25.7	0	6.58	2232	11.0	

Sample Method: Low Flow
Rate (gpm): ~0.23 * Flow rate at stabilization (during sample collection)
Time Start: 10:27 **Time End:** 10:47

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.58	0.1	(Y) / N	
Conductivity	2232	3%	(Y) / N	
Temp©	11.0	3%	(Y) / N	
DTW Stabilized	25.7	feet	(Y) / N	
Final H2O level	25.7	feet		

If Low Flow Method: Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): — Actual vol. pumped (gal) —
* See Field Volume Guide
following stabilization

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse w/liquinox before sampling

Weather: Clear, sunny
Signature:

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location : CBMW-3B **Date:** 11-28-23

Technician: P. Burley **Quarter:** 4

Time	pH (S.U.}	Cond. (uS/cm)	Temp. (°C)	Notes
10:00	6.87	24107	13.4	

Sample Method: Grab

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: —

Signature:

Comments:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location : CBMW-36

Date: 12/7/23

Technician: P. Barela

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
2:05	7.21	2309	15.0	ORP 321

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: ———

Signature: [signature]

Comments:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Arequa Gulch **Date:** 10/3/23

Technician: D. Barela **Quarter:** 4

Static Water Level (DTW): 202.1 **Well ID:** CBMW-5A

Is well Dry? NO **If so Dry at:** — **Well Depth (TD):** 205 **feet**

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
8:09						Insufficient

Sample Method: — **Rate (gpm):** — **Time Start:** 8:09 **Time End:** —
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH		0.1	Y / N	
Conductivity		3%	Y / N	
Temp©		3%	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Method: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): _____ Actual vol. pumped (gal) _____
** See Field Volume Guide* following stabilization

O/G visible: ~~Y / N~~
Equipment Decontaminated: ~~Y / N~~ Turbid? ~~Y / N~~

Decontamination procedure used: use sonder

Weather: clear, cold

Signature:

Volume Calculations:

For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$

Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$

Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$

Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Arequa Gulch **Date:** 10/3/23

Technician: P. Barela **Quarter:** 4

Static Water Level (DTW): 28 **Well ID:** CBMW-5B

Well Depth (TD): 143 feet

Is well Dry? NO **If so Dry at:** —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
10:22			7.21	259.7	7.2	started Pumping (120)
10:27	28.3	0.3	7.38	283.1	7.5	
10:32	28.4	0.1	7.40	269.5	8.4	.96 4m
10:37	28.4	0	7.43	266.7	8.5	
10:42	28.4	0	7.43	265.0	8.6	
10:47	28.4	0	7.40	264.2	8.7	

Sample Method: Low Flow **Rate (gpm):** ~ .25 **Time Start:** 10:22 **Time End:** 10:47

** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.40	0.1	Y / N	
Conductivity	264.2	3%	Y / N	
Temp©	8.7	3%	Y / N	
DTW Stabilized	28.4	feet	Y / N	
Final H2O level	28.4	feet		

If Low Flow Method: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): ~~1.32~~ Actual vol. pumped (gal) ~~3.75~~

** See Field Volume Guide* following stabilization

O/G visible: Y / N

Equipment Decontaminated: ~~Y / N~~

Turbid? Y / N

Decontamination procedure used: Dedicated Pump

Weather: Clear, warm

Signature:

Volume Calculations:

For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$

Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$

Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$

Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Arequa Gulch
Technician: P. Burela
Static Water Level (DTW): 28
Is well Dry? NO
If so Dry at: —

Date: 10/3/23
Quarter: 4
Well ID: CBMW-5C
Well Depth (TD): 60 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
9:37			6.78	200.1	6.6	started pumping (118)
9:42	28.4	0.4	6.70	200.9	8.3	
9:47	28.6	0.2	6.73	200.7	8.2	1.62 L/M
9:52	28.7	0.1	6.74	201.2	8.3	
9:57	28.7	0	6.75	201.7	8.4	
10:02	28.7	0	6.75	201.6	8.6	

Sample Method: Low Flow
Rate (gpm): ~0.43 ** Flow rate at stabilization (during sample collection)*
Time Start: 9:37 **Time End:** 10:02

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.75	0.1	Y / N	
Conductivity	201.6	3%	Y / N	
Temp©	8.6	3%	Y / N	
DTW Stabilized	28.7	feet	Y / N	
Final H2O level	28.7	feet		

If Low Flow Method: Drawdown greater than 0.33 ft? (Y) / ~~N~~ If yes, required pump vol (gal) following stabilization: 1.04 Actual vol. pumped (gal): 6.45
** See Field Volume Guide*

O/G visible: Y / (N)
Equipment Decontaminated: ~~Y~~ / N
Turbid? Y / (N)

Decontamination procedure used: dedicated Pump

Weather: clear, cold
Signature:

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Arequa Gulch **Date:** 10/3/23

Technician: R. Barela **Quarter:** 4

Static Water Level (DTW): 17 **Well ID:** CBMW-5D

Well Depth (TD): 27

Is well Dry? NO **If so Dry at:** — **feet**

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
8:50			6.54	196.6	12.6	Started Pumping (87)
8:55	17.3	0.3	6.50	196.3	13.7	
9:00	17.3	0	6.41	196.7	14.9	.98 L/M
9:05	17.5	0.2	6.45	196.0	13.3	
9:10	17.5	0	6.42	196.2	15.0	
9:15	17.6	0.1	6.43	196.0	13.8	

Sample Method: Low Flow **Rate (gpm):** ~.26 **Time Start:** 8:50 **Time End:** 9:15

** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.43	0.1	Y / N	
Conductivity	196.0	3%	Y / N	
Temp©	13.8	3%	Y / N	
DTW Stabilized	17.6	feet	Y / N	
Final H2O level	17.6	feet		

If Low Flow Method: Drawdown greater than 0.33 ft? (Y) / N If yes, required pump vol (gal) following stabilization: .65 Actual vol. pumped (gal): 34

** See Field Volume Guide*

O/G visible: Y / (N)

Equipment Decontaminated: Y / N

Turbid? Y / (N)

Decontamination procedure used: Dedicated Pump

Weather: Clear, cold

Signature:

Volume Calculations:

For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$

Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$

Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$

Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
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Groundwater Sampling Log

Location : Arequa Gulch **Date:** 10/26/23

Technician: P. Barela **Quarter:** 4

Static Water Level (DTW): 193 **Well ID:** ESPMW-1

Well Depth (TD): 220

Is well Dry? NO **If so Dry at:** — feet

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
9:48		7.23	517.3	6.7	
12:52	200	7.20	501.9	10.7	

Sample Method: Purge & return **Rate (gpm):** — **Time Start:** 9:48 **Time End:** 12:52

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.20	0.1	Y / N	
Conductivity	501.9	3%	Y / N	
Temp©	10.7	10%	Y / N	
Final H2O level	200	feet		

O/G visible: Y / (N) Turbid? (Y) / N Dark/brown color

Equipment Decontaminated: (Y) / N

Decontamination procedure used: Triple rinse sounder before collecting sample. Dedicated pump

Weather: sunny, hot

Signature:

Well Volume Calculation:

For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$

For 2" Diameter Well (L): $V(L) = 0.61778 * h(ft)$ **For 4" Diameter Well (L):** $V(L) = 2.471 * h(ft)$

Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$

Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grass-1 valley
Technician: P. Barela
Static Water Level (DTW): 132
Is well Dry? NO
If so Dry at: —

Date: 10.11.23
Quarter: 4
Well ID: GVMW-5A
Well Depth (TD): 250 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
10:05			6.91	415.0	7.2	Started pumping
10:10	132.1	0.1	6.85	450.2	7.2	
10:15	132.1	0	6.91	453.5	7.4	.69 L/M
10:20	132.1	0	6.94	455.8	7.8	
10:25	132.1	0	6.90	455.9	8.4	
10:30	132.1	0	6.92	456.0	8.4	

Sample Method: Low Flow
Rate (gpm): ~0.18 ** Flow rate at stabilization (during sample collection)*
Time Start: 10:05 **Time End:** 10:30

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.92	0.1	Y / N	
Conductivity	456.0	3%	Y / N	
Temp©	8.4	3%	Y / N	
DTW Stabilized	132.1	feet	Y / N	
Final H2O level	132.1	feet		

If Low Flow Method: Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): _____ Actual vol. pumped (gal) _____
following stabilization
** See Field Volume Guide*

O/G visible: Y / (N)
Equipment Decontaminated: ~~Y~~ / N
Turbid? Y / (N)

Decontamination procedure used: Dedicated Pump

Weather: Sunny, Clear

Signature: [signature]

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Technician: P. Barela
Static Water Level (DTW): 34.8
Is well Dry? NO **If so Dry at:** — feet

Date: 10-11-23
Quarter: 4
Well ID: GVMW-8B
Well Depth (TD): 50

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
9:27			6.97	430.3	8.7	470 L/m
9:34	42.2	7.40	6.96	429.6	7.7	
9:39	42.9	0.7	6.65	429.0	8.1	
9:44	42.4	D	6.64	429.8	8.7	
9:49	43.2	0.3	6.65	429.0	8.2	

Sample Method: 3 well volumes **Rate (gpm):** 2 1.2 **Time Start:** 9:27 **Time End:** 9:49
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.65	0.1	Y / N	
Conductivity	429.0	3%	Y / N	
Temp©	8.2	3%	Y / N	
DTW Stabilized	43.2	feet	Y / N	
Final H2O level	43.2	feet		

If Low Flow Method: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): _____ Actual vol. pumped (gal) _____
** See Field Volume Guide* following stabilization

O/G visible: Y / (N) Turbid? Y / (N)
Equipment Decontaminated: Y / N

Decontamination procedure used: dedicated Pump

Weather: Clear, Sunny

Signature:

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:
50 - 34.8 = 15.2
0.1632 x 15.2 = 2.48
3 x 2.48 = 7.44 gal.
removed ~ 8 gal

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Technician: P. Barela
Static Water Level (DTW): 3.7
Date: 10.11.23
Quarter: 4
Well ID: GVMW-22A
Well Depth (TD): 70 feet
Is well Dry? NO
If so Dry at:

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
12:13			7.64	383.3	8.9	started Pumping
12:18	3.8	0.1	7.79	386.0	10.0	
12:23	3.9	0.1	7.81	385.0	9.0	.92 L/M (7)
12:28	5.5	1.6	7.83	385.8	7.6	
12:33	6.1	0.6				Pump stopped working
12:50	5.9	+ 0.2	7.89	384.3	8.1	started working (7)
12:55	6.0	0.1	7.87	384.0	8.0	
1:00	6.4	0.4	7.85	384.2	8.5	

Sample Method: Low Flow
Rate (gpm): ~ 0.24 ** Flow rate at stabilization (during sample collection)*
Time Start: 12:13 **Time End:** 1:00

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.85	0.1	Y / N	
Conductivity	384.2	3%	Y / N	
Temp©	8.5	3%	Y / N	
DTW Stabilized	6.4	feet	Y / N	
Final H2O level	6.4	feet		

If Low Flow Method: Drawdown greater than 0.33 ft? (Y) / N If yes, required pump vol (gal) following stabilization: 1.1 Actual vol. pumped (gal): 3.6
** See Field Volume Guide*

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse w/ liquinox before sampling
Generators were acting up
Weather: clear, Sunny
Signature:

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Technician: P. Barela
Static Water Level (DTW): 4.3
Is well Dry? NO
If so Dry at: _____ feet

Date: 10/11/23
Quarter: 4
Well ID: GVMW-22B
Well Depth (TD): 30

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
11:30			7.21	365.1	7.8	started Pumping
11:35	4.8	0.5	6.61	369.4	7.4	
11:40	4.9	0.1	6.69	369.3	7.3	.98 L/M (Y)
11:45	4.9	0	6.67	368.8	7.3	
11:50	4.9	0	6.67	367.1	7.4	
11:55	4.9	0	6.66	353.3	7.3	

Sample Method: Low Flow
Rate (gpm): ~0.25 ** Flow rate at stabilization (during sample collection)*
Time Start: 11:30 **Time End:** 11:55

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.66	0.1	(Y) / N	
Conductivity	353.3	3%	(Y) / N	
Temp©	7.3	3%	(Y) / N	
DTW Stabilized	4.9	feet	(Y) / N	
Final H2O level	4.9	feet		

If Low Flow Method: Drawdown greater than 0.33 ft? (Y) / N If yes, required pump vol (gal) following stabilization: 0.87 Actual vol. pumped (gal): 3.75
** See Field Volume Guide*

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse w/ liquinox before sampling

Weather: Sunny, Clear
Signature: [signature]

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Poverty Gulch
Technician: P. Barela
Static Water Level (DTW): —
Is well Dry? Yes **If so Dry at:** 218 feet

Date: 10/4/23
Quarter: 4
Well ID: PGMW-2
Well Depth (TD): 218

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
12:26			—	—	—	Dry at 218 ft

Sample Method: **Rate (gpm):** **Time Start:** **Time End:**
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH		0.1	Y / N	
Conductivity		3%	Y / N	
Temp©		3%	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Method: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): following stabilization Actual vol. pumped (gal)
** See Field Volume Guide*

O/G visible: Y / N Turbid? Y / N
Equipment Decontaminated: Y / N
Decontamination procedure used: Use Sounder

Weather: clear, sunny
Signature:

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Poverty Gulch **Date:** 10/4/21

Technician: P. Barela **Quarter:** 4

Static Water Level (DTW): 36.8 **Well ID:** PGMW-3

Well Depth (TD): 56

Is well Dry? NO **If so Dry at:** _____ feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
8:58			3.90	1250	6.9	Started Pumping
9:10	46					Stopped Pumping / dried out
12:35	39.7		4.03	1284	7.6	Collected Sample

Sample Method: Purge & return **Rate (gpm):** — **Time Start:** 8:58 **Time End:** 12:35

** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	4.03	0.1	(Y) / N	
Conductivity	1284	3%	(Y) / N	
Temp©	7.6	3%	(Y) / N	
DTW Stabilized	39.7	feet	(Y) / N	
Final H2O level	39.7	feet		

If Low Flow Method: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): _____ following stabilization Actual vol. pumped (gal) _____

** See Field Volume Guide*

O/G visible: Y / (N)

Turbid? Y / (N)

Equipment Decontaminated: (Y) / N

Decontamination procedure used: Triple rinse w/ liquinox before sampling

Weather: Clear, sunny

Signature: [signature]

Volume Calculations:

For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$

Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$

Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$

Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Poverty Gulch **Date:** 10/4/23

Technician: P. Barela **Quarter:** 4

Static Water Level (DTW): — **Well ID:** PGMW-4

Well Depth (TD): 39

Is well Dry? YES **If so Dry at:** 39 **feet**

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
1:05		—			Dry at 39 ft

Sample Method: — **Rate (gpm):** — **Time Start:** 1:05 **Time End:**

Final Parameters	Stabilization Guidance		Met?	Comments
pH		0.1	Y / N	
Conductivity		3%	Y / N	
Temp©		10%	Y / N	
Final H2O level		feet		

O/G visible: ~~Y / N~~ Turbid? ~~Y~~ / N

Equipment Decontaminated: Y / N

Decontamination procedure used: use saundr

Weather: clear, sunny

Signature:

Well Volume Calculation:

For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$

For 2" Diameter Well (L): $V(L) = 0.61778 * h(ft)$ **For 4" Diameter Well (L):** $V(L) = 2.471 * h(ft)$

Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$

Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Poverty Gulch **Date:** 10/4/23

Technician: D. Barela **Quarter:** 4

Static Water Level (DTW): 27.6 **Well ID:** PGMW-5

Well Depth (TD): 50 feet

Is well Dry? NO **If so Dry at:** —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
11:31			3.61	1682	6.8	Started Pumping (23)
11:36	29.3	1.7	3.64	1691	7.0	
11:41	29.5	0.2	3.62	1695	7.1	
11:46	29.6	0.1	3.61	1698	7.0	0.43 L/M
11:51	29.7	0.1	3.60	1698	6.9	
11:56	29.7	0	3.60	1697	6.9	
12:01	29.7	0	3.60	1697	6.9	
12:06	29.7	0	3.60	1695	7.0	

Sample Method: Low Flow **Rate (gpm):** ~.11 **Time Start:** 11:31 **Time End:** 12:06

** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	3.60	0.1	(Y) / N	
Conductivity	1695	3%	(Y) / N	
Temp©	7.0	3%	(Y) / N	
DTW Stabilized	29.7	feet	(Y) / N	
Final H2O level	29.7	feet		

If Low Flow Method: Drawdown greater than 0.33 ft? (Y) / N If yes, required pump vol (gal) following stabilization: 2.10 Actual vol. pumped (gal) 2.20

** See Field Volume Guide*

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N Turbid? Y / (N)

Decontamination procedure used: Triple rinse w/ liquinox before sampling

Weather: Clear, sunny

Signature:

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Squaw Gulch
Technician: A. Barela
Static Water Level (DTW): —
Is well Dry? Yes
If so Dry at: 25ft

Date: 10/3/23
Quarter: 4
Well ID: SGMW-5
Well Depth (TD): 256 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
12:43						DRY

Sample Method: —
Rate (gpm): —
** Flow rate at stabilization (during sample collection)*
Time Start: —
Time End: —

Final Parameters	Stabilization Guidance		Met?	Comments
pH		0.1	Y / N	
Conductivity		3%	Y / N	
Temp©		3%	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Method: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): — following stabilization Actual vol. pumped (gal) —
** See Field Volume Guide*

O/G visible: Y / N
Equipment Decontaminated: Y / N
Turbid? Y / N

Decontamination procedure used: USE Sounder

Weather: Clear, Sunny
Signature:

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Squaw Gulch **Date:** 10/3/23

Technician: P. Barela **Quarter:** 4

Static Water Level (DTW): - **Well ID:** SGMW-6A

Well Depth (TD): 400

Is well Dry? YES **If so Dry at:** 400 **feet**

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
1:31					Dry at 400 Ft

Sample Method: **Rate (gpm):** **Time Start:** **Time End:**

Final Parameters	Stabilization Guidance		Met?	Comments
pH		0.1	Y / N	
Conductivity		3%	Y / N	
Temp©		10%	Y / N	
Final H2O level		feet		

O/G visible: ~~Y / N~~ Turbid? ~~Y / N~~

Equipment Decontaminated: Y / N

Decontamination procedure used: USL Sounder

Weather: Clear, Sunny

Signature:

Well Volume Calculation:

For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$

For 2" Diameter Well (L): $V(L) = 0.61778 * h(ft)$ **For 4" Diameter Well (L):** $V(L) = 2.471 * h(ft)$

Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$

Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:

$1ft^3 = 7.48\ gal$

$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Squaw Gulch
Technician: P. Barela
Static Water Level (DTW): 18
Is well Dry? NO
If so Dry at: —

Date: 10/3/23
Quarter: 4
Well ID: SGMW-6B
Well Depth (TD): 60 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
11:32			5.35	2797	10.1	started Pumping (97)
11:37	18.3	0.3	5.33	2799	10.9	
11:42	18.6	0.3	5.35	2803	11.9	.46 L/M
11:47	18.6	0	5.33	2800	12.0	
11:52	18.7	0.1	5.34	2807	12.3	
11:57	18.7	0	5.35	2797	12.4	

Sample Method: Low Flow
Rate (gpm): ~0.12 ** Flow rate at stabilization (during sample collection)*
Time Start: 11:32 **Time End:** 11:57

Final Parameters	Stabilization Guidance		Met?	Comments
pH	5.35	0.1	Y / N	
Conductivity	2797	3%	Y / N	
Temp©	12.4	3%	Y / N	
DTW Stabilized	18.7	feet	Y / N	
Final H2O level	18.7	feet		

If Low Flow Method: Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): 0.84 Actual vol. pumped (gal) ~1.8
** See Field Volume Guide* following stabilization

O/G visible: Y / (N)
Equipment Decontaminated: Y / N
Turbid? (Y) / N

Decontamination procedure used: Dedicated Pump

Weather: Clear, windy

Signature:

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Squaw Gulch **Date:** 10/3/23

Technician: P. Barela **Quarter:** 4

Static Water Level (DTW): — **Well ID:** SGMW-7A

Well Depth (TD): 400 feet

Is well Dry? yes **If so Dry at:** 400

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
12:58					Dry at 400

Sample Method: **Rate (gpm):** **Time Start:** **Time End:**

Final Parameters	Stabilization Guidance		Met?	Comments
pH		0.1	Y / N	
Conductivity		3%	Y / N	
Temp©		10%	Y / N	
Final H2O level		feet		

O/G visible: Y / N Turbid? Y / N

Equipment Decontaminated: Y / N

Decontamination procedure used: use sounder

Weather: Clear, sunny

Signature:

Well Volume Calculation:

For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$

For 2" Diameter Well (L): $V(L) = 0.61778 * h(ft)$ **For 4" Diameter Well (L):** $V(L) = 2.471 * h(ft)$

Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$

Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:

$1ft^3 = 7.48\ gal$

$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Squaw Gulch **Date:** 10/3/23

Technician: P. Barela **Quarter:** 4

Static Water Level (DTW): 58 **Well ID:** SGMW-7B

Well Depth (TD): 60

Is well Dry? NO **If so Dry at:** — **feet**

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
1:01					Insufficient

Sample Method: _____ **Rate (gpm):** _____ **Time Start:** _____ **Time End:** _____

Final Parameters	Stabilization Guidance		Met?	Comments
pH		0.1	Y / N	
Conductivity		3%	Y / N	
Temp©		10%	Y / N	
Final H2O level		feet		

O/G visible: ~~Y / N~~ Turbid? ~~Y / N~~

Equipment Decontaminated: Y ~~/ N~~

Decontamination procedure used: use sounder

Weather: clear, sunny

Signature: [signature]

Well Volume Calculation:

For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$

For 2" Diameter Well (L): $V(L) = 0.61778 * h(ft)$ **For 4" Diameter Well (L):** $V(L) = 2.471 * h(ft)$

Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$

Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Squaw Gulch **Date:** 10/3/23

Technician: P. Barela **Quarter:** 4

Static Water Level (DTW): 214 **Well ID:** SGMW-8

Is well Dry? No **If so Dry at:** — **Well Depth (TD):** 219 **feet**

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
1:12					Insufficient

Sample Method: _____ **Rate (gpm):** _____ **Time Start:** _____ **Time End:** _____

Final Parameters	Stabilization Guidance		Met?	Comments
pH		0.1	Y / N	
Conductivity		3%	Y / N	
Temp©		10%	Y / N	
Final H2O level		feet		

O/G visible: ~~Y / N~~ Turbid? ~~Y / N~~

Equipment Decontaminated: Y ~~/ N~~

Decontamination procedure used: use sounder

Weather: Clear, sunny

Signature: [signature]

Well Volume Calculation:

For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$

For 2" Diameter Well (L): $V(L) = 0.61778 * h(ft)$ **For 4" Diameter Well (L):** $V(L) = 2.471 * h(ft)$

Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$

Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Vindicator valley
Technician: P. Barela
Static Water Level (DTW): 251.6
Date: 11-2-23
Quarter: 4
Well ID: VIN-2A
Well Depth (TD): 270 feet
Is well Dry? _____ **If so Dry at:** _____

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
11:14			7.31	1277	8.1	started pumping
11:19	251.7	0.1	7.38	1277	7.3	
11:24	252.1	0.4	7.50	1277	7.5	0.3 gpm
11:29	252.1	0	7.58	1271	7.5	
11:34	252.1	0	7.62	1270	7.9	
11:39	252.2	0.1	7.65	1275	7.9	

Sample Method: Low Flow **Rate (gpm):** ~ 1.13 **Time Start:** 11:14 **Time End:** 11:39
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.65	0.1	Y / N	
Conductivity	1275	3%	Y / N	
Temp©	7.9	3%	Y / N	
DTW Stabilized	252.2	feet	Y / N	
Final H2O level	252.2	feet		

If Low Flow Method: Drawdown greater than 0.33 ft? (Y) / N If yes, required pump vol (gal) following stabilization: 1.85 Actual vol. pumped (gal): 16.95
** See Field Volume Guide*

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: Y / N

Decontamination procedure used: Dedicated Pump

Weather: Sunny, windy

Signature: [signature]

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : vindicator valley
Technician: P. Barela
Static Water Level (DTW): 86.8
Is well Dry? NO
If so Dry at: —

Date: 11-2-23
Quarter: 4
Well ID: VIN-2B
Well Depth (TD): 140 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
8:27		*	7.01	1325	6.8	started pumping
8:36						Dry at 140 ft
12:17	98.9		7.83	1326	7.5	collected sample

Sample Method: Purge & return
Rate (gpm): — * Flow rate at stabilization (during sample collection)
Time Start: 8:27 **Time End:** 12:17

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.83	0.1	Y / N	
Conductivity	1326	3%	Y / N	
Temp©	7.5	3%	Y / N	
DTW Stabilized	98.9	feet	Y / N	
Final H2O level	98.9	feet		

If Low Flow Method: Drawdown greater than 0.33 ft? ~~Y / N~~ If yes, required pump vol (gal): — following stabilization — Actual vol. pumped (gal) —
* See Field Volume Guide

O/G visible: Y / (N)
Equipment Decontaminated: ~~Y / N~~
Turbid? Y / (N)

Decontamination procedure used: Dedicated Pump

Weather: sunny, windy

Signature:

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Wilson Creek
Technician: P. Burela
Static Water Level (DTW): 60.3
Is well Dry? NO
If so Dry at: — feet

Date: 10/26/23
Quarter: 4
Well ID: WCMW-3
Well Depth (TD): 134

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
8:19			7.33	424.2	7.0	started pumping
8:24	61	0.7	7.58	427.9	6.9	
8:29	61	0	7.64	430.0	6.9	0.27 L/M (44)
8:34	61	0	7.65	430.4	7.1	
8:39	61	0	7.67	430.3	7.1	
8:44	61	0	7.65	430.0	7.1	

Sample Method: Low flow
Rate (gpm): ~0.07 ** Flow rate at stabilization (during sample collection)*
Time Start: 8:19 **Time End:** 8:44

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.65	0.1	Y / N	
Conductivity	430.0	3%	Y / N	
Temp©	7.1	3%	Y / N	
DTW Stabilized	61	feet	Y / N	
Final H2O level	61	feet		

If Low Flow Method: Drawdown greater than 0.33 ft? Y / N
** See Field Volume Guide*
If yes, required pump vol (gal) following stabilization: 0.81 Actual vol. pumped (gal): 1.05

O/G visible: Y / N
Turbid? Y / N
Equipment Decontaminated: Y / N

Decontamination procedure used: Triple rinse w/ liquinox before sampling

Weather: clear, cold
Signature:

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Wilson Creek
Technician: R. Barelli
Static Water Level (DTW): —
Is well Dry? —
If so Dry at: _____ feet

Date: 10/26/23
Quarter: 4
Well ID: WCMW-h
Well Depth (TD): 234'

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
2:00						
						Road to sampling
						location is washed
						out and not safe
						to travel

Sample Method: _____ **Rate (gpm):** _____ **Time Start:** _____ **Time End:** _____
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH		0.1	Y / N	
Conductivity		3%	Y / N	
Temp©		3%	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Method: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): _____ Actual vol. pumped (gal) _____
** See Field Volume Guide* following stabilization

O/G visible: Y / N Turbid? Y / N
Equipment Decontaminated: Y / N

Decontamination procedure used: _____

Weather: _____

Signature: _____

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: CCVB-1004

Date: 10/4/23

Technician: P. Barela

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
2:15	5.68	1.16	18.0	DI water

Sample Method: Grab

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: —

Signature:

Comments:

Trip blank

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Arequa Gulch
Technician: P. Barela
Static Water Level (DTW): 28
Is well Dry? NO
If so Dry at: —

Date: 10/3/23
Quarter: 4
Well ID: CBMW-105C
Well Depth (TD): 60 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
10:02	28.7	0	6.75	201.6	8.6	DUPICATE OF CBMW-5C

Sample Method: Low Flow
Rate (gpm): _____ * Flow rate at stabilization (during sample collection)
Time Start: 9:37 **Time End:** 10:02

Final Parameters	Stabilization Guidance		Met?	Comments
pH		0.1	Y / N	
Conductivity		3%	Y / N	
Temp©		3%	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Method: Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): — following stabilization Actual vol. pumped (gal) —
* See Field Volume Guide

O/G visible: Y / ~~N~~
Turbid? Y / ~~N~~
Equipment Decontaminated: ~~Y~~ / ~~N~~
Decontamination procedure used: dedicated Pump
Weather: cold, clear
Signature:

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: BB1-1004

Date: 10/4/23

Technician: J. Barila

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
8:50	7.77	3.93	12.6	DI water

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: clear, sunny

Signature:

Comments:

Rinse blank was collected before sampling

PRMW - 3

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: BB2-1004

Date: 10/4/23

Technician: J. Barela

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
9:45	6.00	1.66	12.0	DI water

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: Clear, Sunny

Signature:

Comments:

Collected rinse blank before sampling

PAMW-5

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Squaw Gulch
Technician: P. Barela
Static Water Level (DTW): 18
Date: 10/3/23
Quarter: 4
Well ID: SGMW-106B
Well Depth (TD): 60 feet
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
11:57	18.7	0	5.35	2797	12.41	Duplicate of SGMW-6B

Sample Method: Low Flo
Rate (gpm): 0.12 * Flow rate at stabilization (during sample collection)
Time Start: 11:32 **Time End:** 11:51

Final Parameters	Stabilization Guidance		Met?	Comments
pH		0.1	Y / N	
Conductivity		3%	Y / N	
Temp©		3%	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Method: Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): — following stabilization Actual vol. pumped (gal) —
** See Field Volume Guide*

O/G visible: Y / (N)
Equipment Decontaminated: Y / N
Turbid? (Y) / N

Decontamination procedure used: dedicated Pump

Weather: clear, windy
Signature:

Volume Calculations:
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

Conversions:
$1ft^3 = 7.48\ gal$
$1gal = 3.785\ L$

Show Calculations:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location : AG-2.0

Date: 10/3/23

Technician: P. Burella

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
8:20	7.29	134.8	8.7	5.3 x 100 530 GPM

Sample Method: Grab

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: Clear, cold

Signature:

Comments:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location : GV-02

Date: 10/4/23

Technician: P. Barela

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
1:47	—	/	/	NO FLOW

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: Sunny, Clear

Signature:

Comments:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location : GV-03

Date: 10/4/23

Technician: P. Barela

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
1:42 PM				NO FLOW

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: Clear, Sunny

Signature:

Comments:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location : T-2

Date: 10/4/23

Technician: P. Barela

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
2:00	/	/	/	NO Flow

Sample Method: —

Oil/Gas visible [Y / ~~N~~]

Turbid [Y / ~~N~~]

Clear [Y / ~~N~~]

Weather: Clear, sunny

Signature:

Comments:

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location : WCSW-01

Date: 10/26/23

Technician: P. Barela

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
2:00				

Sample Method: Grab

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: —

Signature:

Comments:

Road to sampling location is washed out and not safe to travel on

Newmont
NORTH AMERICA

Cripple Creek & Victor
Gold Mining Company
100 North 3rd Street
P.O. Box 191
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newmont.com

Attachment 3

Surface Water Standard Calculation Sheets

AG 2.0

Sample Date: **10/3/2023**

Data for Calculations:		
pH	7.29	std units
Hardness	45.2	mg/L
Temperature	8.7	Celsius

Regulation 32 (5 CCR 1002-32) COARUA22A Standards			AG2.0 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.0 - 9.0	---	7.29
Temperature (^{o}C)	< 21.7	< 17	8.7
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	17.727	5.110	<0.03
Boron	---	0.750	<0.04
Chloride	---	---	11.2
Chlorine	0.019	0.011	-
Cyanide (Free)	0.005	---	<0.005
Nitrate	100.000	---	0.07
Nitrite	---	0.050	<0.05
Sulfide	---	0.002	<0.05
Sulfate	---	---	20.9
Phosphorus	---	0.110	<0.05
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Aluminum	11.00000	11.00000	<0.08
Arsenic	0.34000	---	<0.001
Arsenic (T)	---	0.10000	<0.001
Cadmium	0.00085	0.00040	<0.0001
Chromium (III)	0.29734	0.03868	<0.005
Chromium (III) (T)	---	0.10000	<0.011
Hexavalent Chromium	0.01600	0.01100	<0.005
Copper	0.00636	0.00454	0.00099
Iron (T)	---	1.00000	0.631
Lead	0.02694	0.00105	<0.0002
Manganese	5.90300	3.67400	<0.008
Mercury (T)	---	0.00001	0.000108
Molybdenum (T)	---	0.15000	<0.008
Nickel	0.23917	0.02656	<0.01
Selenium	0.01840	0.00460	<0.001
Silver	0.00052	0.00008	<0.00008
Uranium	1.00126	0.62541	<0.0001
Zinc	3.50000	0.60000	<0.01

* Hardness exceeds maximum value of 400 mg/L for use in equations per Colorado Regulation 32.

Bold text indicates that an Acute and/or Chronic standard has been exceeded.

- Invalid results, past regulatory hold time

GV-06

Sample Date: 10/10/2023

Data for Calculations:		
pH	6.14	std units
Hardness	151	mg/L
Temperature	3.1	Celsius

Regulation 32 (5 CCR 1002-32) COARUA24 Standards			GV-06 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.5 - 9.0	---	**6.14**
Temperature (^{o}C)	< 21.7	< 17	3.1
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	6.897	35.924	0.037
Boron	0.750	---	0
Chloride	250.000	---	8.2
Chlorine	0.011	0.019	-
Cyanide (Free)	---	0.005	<0.005
Nitrate	---	10.000	0.203
Nitrite	0.050	---	<0.05
Sulfide	0.002	---	<0.05
Sulfate	250.000	---	69.3
Phosphorus	0.110	---	0.055
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Arsenic	0.34000	---	<0.001
Arsenic (T)	---	0.00002	<0.001
Cadmium	0.00264	0.00098	<0.0001
Cadmium (T)	0.00500	---	<0.0001
Chromium (III)	---	0.10387	<0.006
Chromium (III) (T)	0.05000	---	<0.011
Hexavalent Chromium	0.01600	0.01100	<0.005
Copper	0.01982	0.01274	0.00119
Iron	---	0.30000	**0.425**
Iron (T)	---	1.00000	**1.85**
Lead	0.10085	0.00393	<0.0002
Lead (T)	0.05000	---	0.00047
Manganese	3.42500	1.89231	0.853
Mercury (T)	---	0.00001	<0.000093
Molybdenum (T)	---	0.15000	<0.008
Nickel	0.66356	0.07370	<0.01
Nickel (T)	---	0.10000	<0.01
Selenium	0.01840	0.00460	<0.001
Silver	0.00412	0.00015	<0.00008
Uranium	3.78327	2.36313	0.00145
Zinc	0.23275	0.17629	<0.01

* Hardness exceeds maximum value of 400 mg/L for use in equations per Colorado Regulation 32.

Bold text indicates that an Acute and/or Chronic standard has been exceeded.

- Invalid results, past regulatory hold time

GV-06

Sample Date: 11/15/2023

Data for Calculations:		
pH	7.14	std units
Hardness	176	mg/L
Temperature	1.3	Celsius

Regulation 32 (5 CCR 1002-32) COARUA24 Standards			GV-06 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.5 - 9.0	---	7.14
Temperature (^{o}C)	< 21.7	< 17	1.3
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	5.560200193	21.06160543	0.055
Boron	0.750	---	<0.04
Chloride	250.000	---	9.29
Chlorine	0.011	0.019	-
Cyanide (Free)	---	0.005	<0.005
Nitrate	---	10.000	0.317
Nitrite	0.050	---	<0.05
Sulfide	0.002	---	<0.05
Sulfate	250.000	---	88.8
Phosphorus	0.110	---	**0.144**
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Arsenic	0.34000	---	<0.001
Arsenic (T)	---	0.00002	**0.00113**
Cadmium	0.00304	0.00110	<0.0001
Cadmium (T)	0.00500	---	<0.0001
Chromium (III)	---	0.11776	<0.006
Chromium (III) (T)	0.05000	---	<0.011
Hexavalent Chromium	0.01600	0.01100	<0.005
Copper	0.02289	0.01452	<0.0004
Iron	---	0.30000	**0.867**
Iron (T)	---	1.00000	**4.81**
Lead	0.11882	0.00463	<0.0002
Lead (T)	0.05000	---	0.00159
Manganese	3.60432	1.99139	1.59
Mercury (T)	---	0.00001	<0.000093
Molybdenum (T)	---	0.15000	<0.008
Nickel	0.75539	0.08390	<0.01
Nickel (T)	---	0.10000	<0.01
Selenium	0.01840	0.00460	<0.001
Silver	0.00537	0.00020	<0.00008
Uranium	4.47916	2.79780	0.00132
Zinc	0.26755	0.20264	<0.01

* Hardness exceeds maximum value of 400 mg/L for use in equations per Colorado Regulation 32.

Bold text indicates that an Acute and/or Chronic standard has been exceeded.

- Invalid results, past regulatory hold time

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Attachment 4

RPD Calculations

Relative Percent Difference Calculations:

The Division has requested that relative percent difference calculations be completed for duplicate samples collected within the same quarter. In the fourth quarter, 2023 CC&V submitted duplicate samples for monitoring well CRMW-5C, collected on 10/3/2023, monitoring well SGMW-6B on 10/3/2023, and monitoring well GVMW-25, collected on 10/10/23, 11/15/23, and 12/6/23. For all data where a calculation is applicable, the RPD is presented below. When laboratory analysis for both samples was below reporting limit, a RPD was not calculated. When one sample result was above the reporting limit, and one sample was below the reporting limit CC&V used the reporting limit in the RPD calculation for the sample whose analytical value was below the reporting limit. CC&V used the following formula to determine Relative Percent Difference (RPD):

$$RPD = \frac{|X_1 - X_2|}{(X_1 + X_2)/2} \times 100$$

where,

RPD = Relative Percent Difference (as %)

$|X_1 - X_2|$ = Absolute value (always positive) of $X_1 - X_2$

X_1 = Original sample concentration

X_2 = Duplicate sample concentration

Analyte	CRMW 5C-60	CRMW-5C Duplicate	CRMW-5C Relative Percent Difference (RPD, %)
Barium - Dissolved (mg/L)	0.0078	0.0072	8.00
Chloride - Total (mg/L)	10.1	10.1	0.00
Fluoride - Total F (mg/L)	2.73	2.7	1.10
Nitrate as Nitrogen (mg/L)	0.097	0.103	6.00
Selenium - Dissolved (mg/L)	0.0011	0.00116	5.31
Sodium - Dissolved (mg/L)	8.16	8.1	0.74
Sulfate - Total (mg/L)	33.4	33.4	0.00
Total Dissolved Solids (mg/L)	105	82	24.60
Uranium - Dissolved (mg/L)	0.000359	0.00035	2.54

Analyte	SGMW 6B-60	SGMW 6B-60 Duplicate	SGMW 6B-60 Relative Percent Difference (RPD, %)
Aluminum - Dissolved (mg/L)	7.59	7.58	0.13
Ammonia (mg/L)	0.075	0.069	8.33
Arsenic - Dissolved (mg/L)	0.0011	0.00114	3.57
Barium - Dissolved (mg/L)	0.0084	0.0083	1.20
Beryllium - Dissolved (mg/L)	0.0865	0.0872	0.81
Boron - Total (mg/L)	0.0864	0.086	0.46
Cadmium - Dissolved (mg/L)	0.0104	0.0101	2.93
Chloride - Total (mg/L)	144	145	0.69
Cobalt - Dissolved (mg/L)	0.0345	0.0338	2.05
Copper - Dissolved (mg/L)	0.0425	0.0413	2.86
Fluoride - Total F (mg/L)	11.1	11	0.90
Iron - Dissolved (mg/L)	2.19	2.21	0.91
Lithium - Dissolved (mg/L)	0.104	0.104	0.00
Manganese - Dissolved (mg/L)	12.7	12.8	0.78
Nickel - Dissolved (mg/L)	0.175	0.174	0.57
Nitrate as Nitrogen (mg/L)	1.35	1.34	0.74
Nitrite + Nitrate as Nitrogen (mg/L)	1.35	1.34	0.74
Sodium - Dissolved (mg/L)	75.4	75.8	0.53
Sulfate - Total (mg/L)	1,640	1,650	0.61
Total Dissolved Solids (mg/L)	2,440	2,500	2.43
Uranium - Dissolved (mg/L)	0.0501	0.0516	2.95
Zinc - Dissolved (mg/L)	1.84	1.81	1.64

Analyte	GVMW-25 October	GVMW-25 Duplicate October	Relative Percent Difference (RPD, %)
Aluminum - Dissolved (mg/L)	1,040	1,060	1.90
Arsenic - Dissolved (mg/L)	0.133	0.132	0.75
Barium - Dissolved (mg/L)	0.0133	0.0133	0.00
Beryllium - Dissolved (mg/L)	0.628	0.62	1.28
Cadmium - Dissolved (mg/L)	1.82	1.78	2.22
Chloride - Total (mg/L)	23.6	23.3	1.28
Cobalt - Dissolved (mg/L)	2.24	2.19	2.26
Copper - Dissolved (mg/L)	4.32	4.2	2.82
Fluoride - Total F (mg/L)	42.5	44	3.47
Iron - Dissolved (mg/L)	8.02	8.14	1.49
Lead - Dissolved (mg/L)	0.0134	0.0136	1.48
Manganese - Dissolved (mg/L)	247	253	2.40
Nickel - Dissolved (mg/L)	2.8	2.74	2.17
Nitrate as Nitrogen (mg/L)	3.91	3.93	0.51
Sodium - Dissolved (mg/L)	45.7	46	0.65
Sulfate - Total (mg/L)	9,870	10,700	8.07
Total Dissolved Solids (mg/L)	12,700	14,400	12.55
Uranium - Dissolved (mg/L)	4.11	4.05	1.47
Zinc - Dissolved (mg/L)	77.6	78.9	1.66

Analyte	GVMW-25 November	GVMW-25 Duplicate November	Relative Percent Difference (RPD, %)
Aluminum - Dissolved (mg/L)	682	682	0.00
Barium - Dissolved (mg/L)	0.0133	0.0186	33.23
Beryllium - Dissolved (mg/L)	0.458	0.461	0.65
Cadmium - Dissolved (mg/L)	1.37	1.38	0.73
Chloride - Total (mg/L)	24.7	24.5	0.81
Chromium - Dissolved (mg/L)	0.101	0.102	0.99
Cobalt - Dissolved (mg/L)	1.63	1.63	0.00
Copper - Dissolved (mg/L)	2.84	2.81	1.06
Fluoride - Total F (mg/L)	10.5	10.4	0.96
Iron - Dissolved (mg/L)	4.33	4.28	1.16
Lithium - Dissolved (mg/L)	0.13	0.119	8.84
Manganese - Dissolved (mg/L)	170	174	2.33
Nickel - Dissolved (mg/L)	2.16	2.17	0.46
Nitrate as Nitrogen (mg/L)	3.7	3.62	2.19

Sodium - Dissolved (mg/L)	46.5	46	1.08
Sulfate - Total (mg/L)	7500	7410	1.21
Total Dissolved Solids (mg/L)	10000	12900	25.33
Uranium - Dissolved (mg/L)	2.31	2.32	0.43
Zinc - Dissolved (mg/L)	53.7	56.7	5.43

Analyte	GVMW-25 December	GVMW-25 Duplicate December	Relative Percent Difference (RPD, %)
Aluminum - Dissolved (mg/L)	820	818	0.24
Arsenic - Dissolved (mg/L)	0.318	0.319	0.31
Barium - Dissolved (mg/L)	0.0186	0.019	2.13
Beryllium - Dissolved (mg/L)	0.492	0.487	1.02
Cadmium - Dissolved (mg/L)	1.56	1.55	0.64
Chloride - Total (mg/L)	22.7	22.8	0.44
Cobalt - Dissolved (mg/L)	2.04	2.02	0.99
Copper - Dissolved (mg/L)	3.2	3.2	0.00
Fluoride - Total F (mg/L)	70	69.7	0.43
Iron - Dissolved (mg/L)	1.37	1.37	0.00
Manganese - Dissolved (mg/L)	230	223	3.09
Nickel - Dissolved (mg/L)	2.52	2.5	0.80
Nitrate as Nitrogen (mg/L)	3.55	3.66	3.05
Sodium - Dissolved (mg/L)	44.9	45	0.22
Sulfate - Total (mg/L)	8850	8490	4.15
Total Dissolved Solids (mg/L)	11900	12700	6.50
Uranium - Dissolved (mg/L)	2.82	2.81	0.36
Zinc - Dissolved (mg/L)	71.8	69.3	3.54

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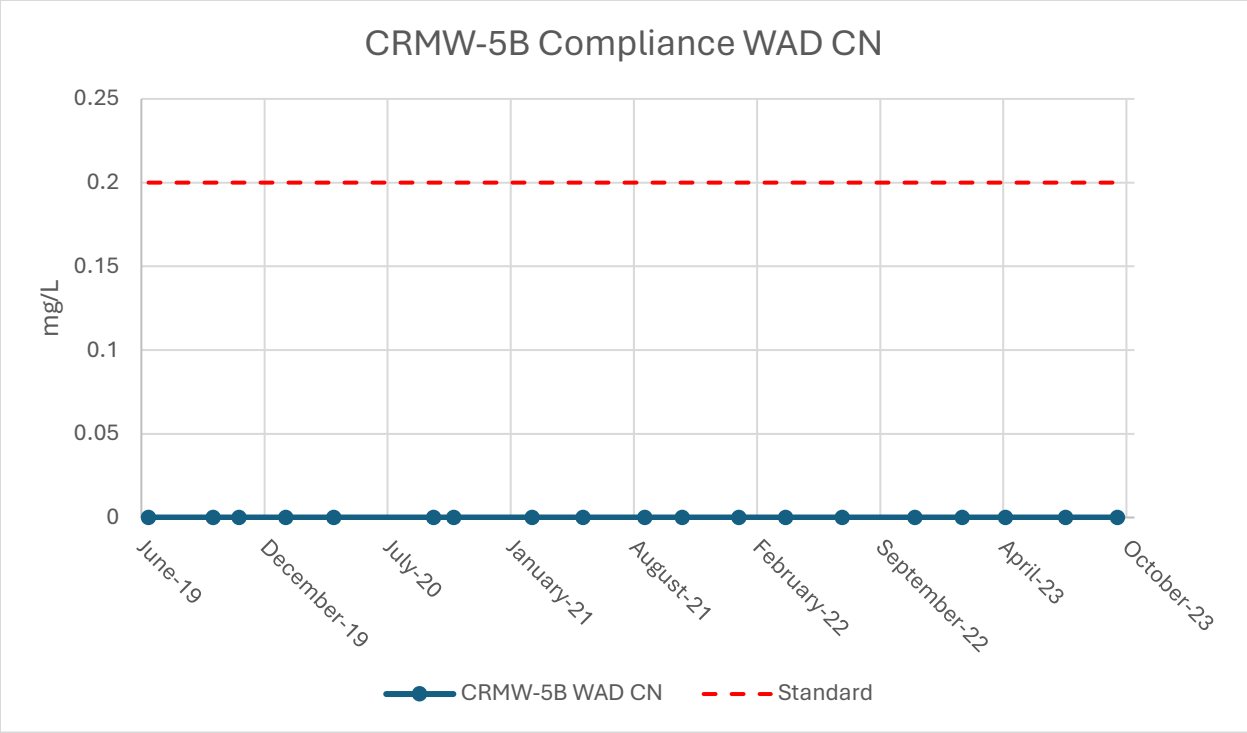
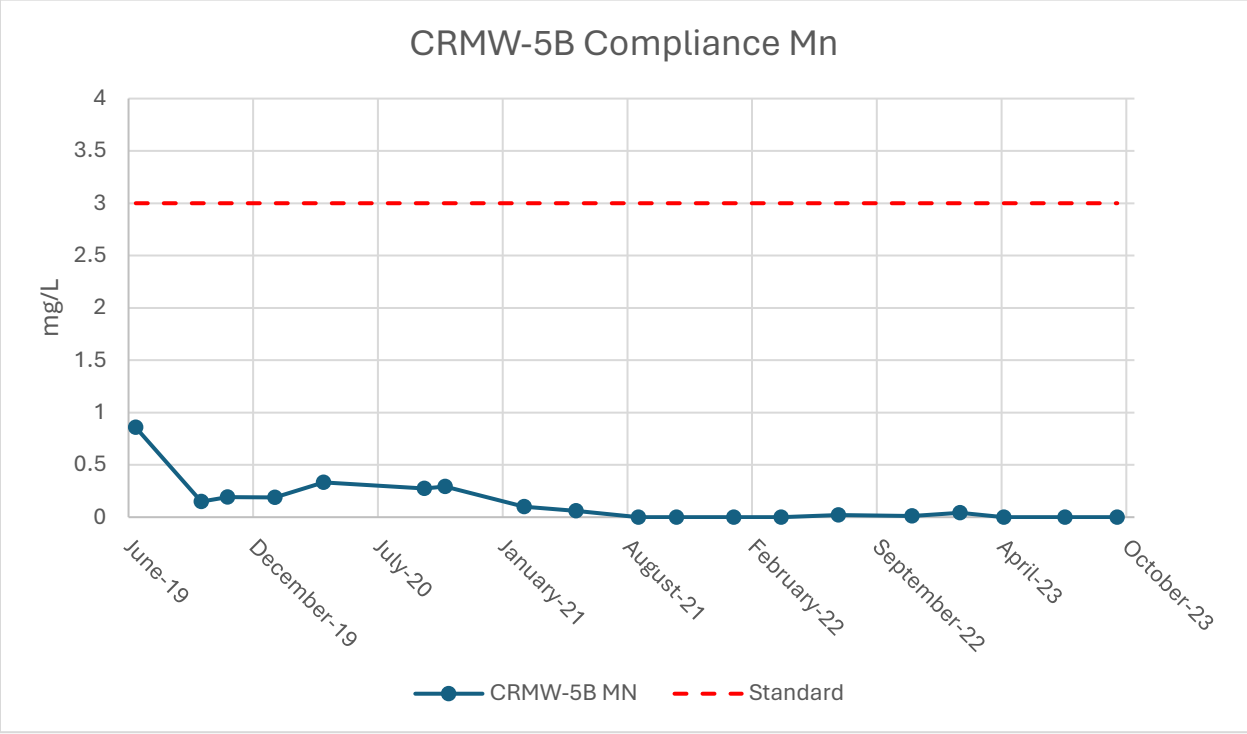
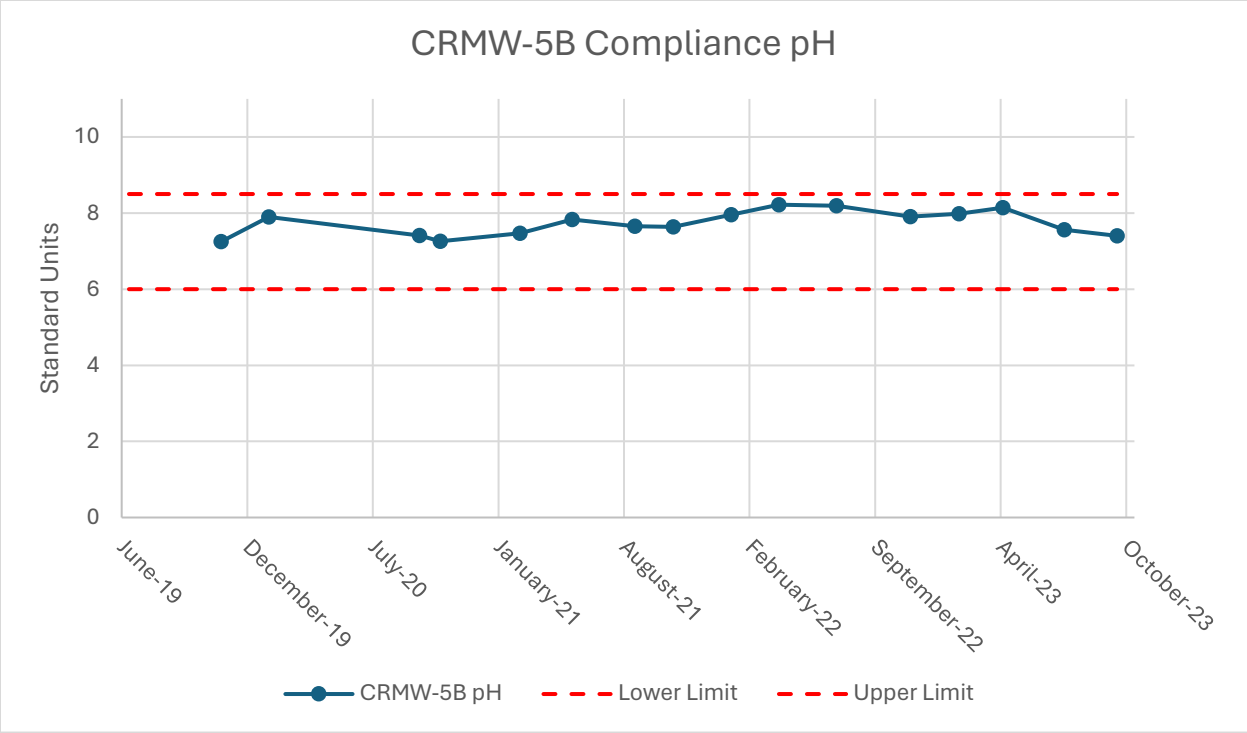
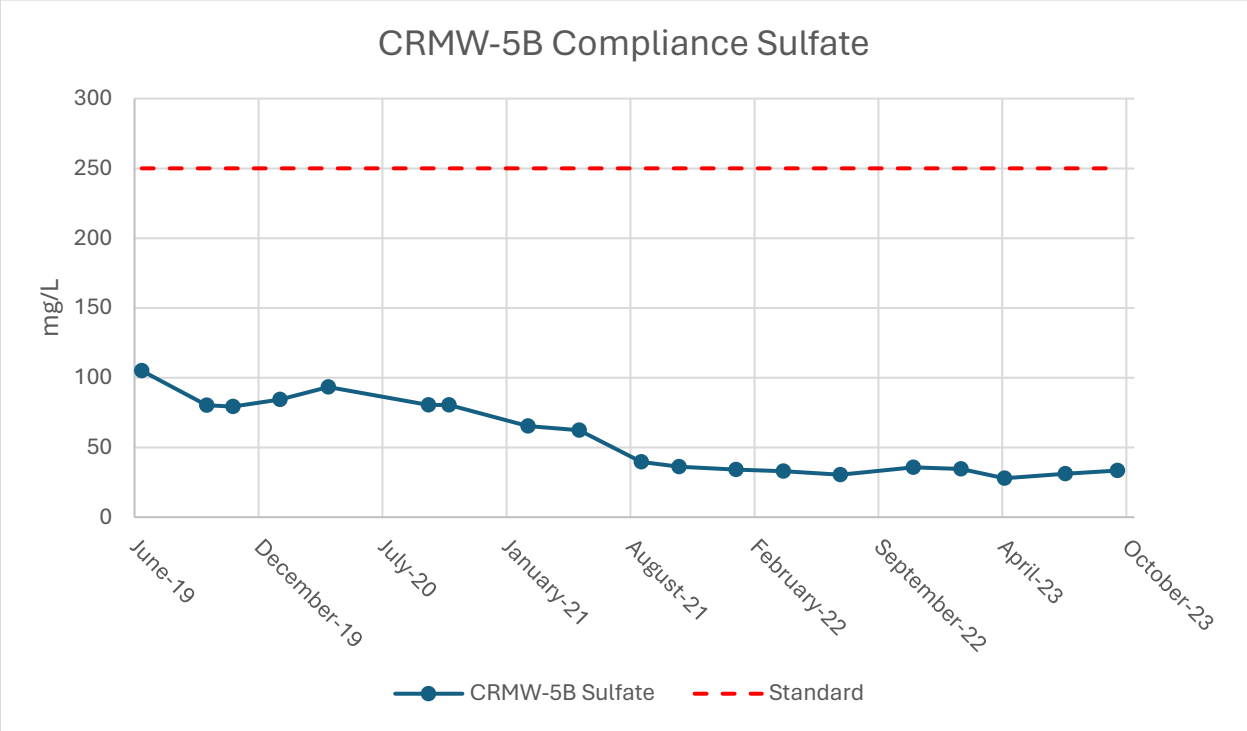
Attachment 5

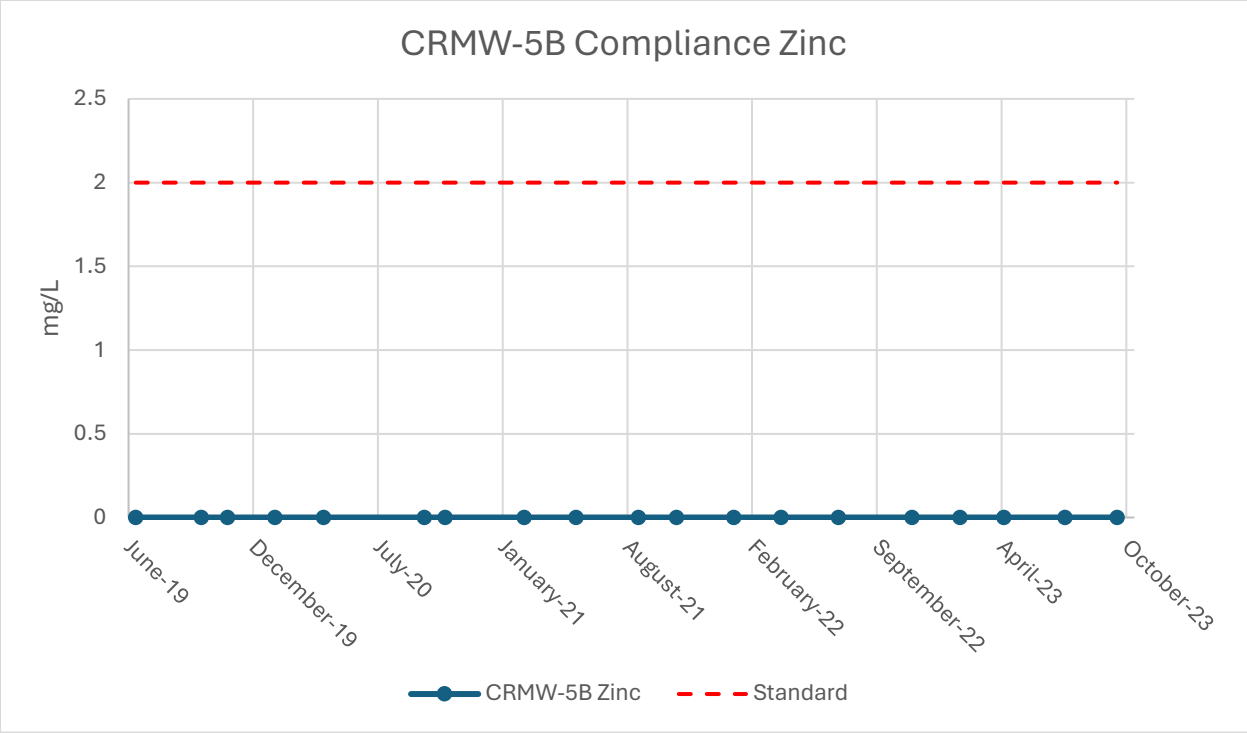
Graphs

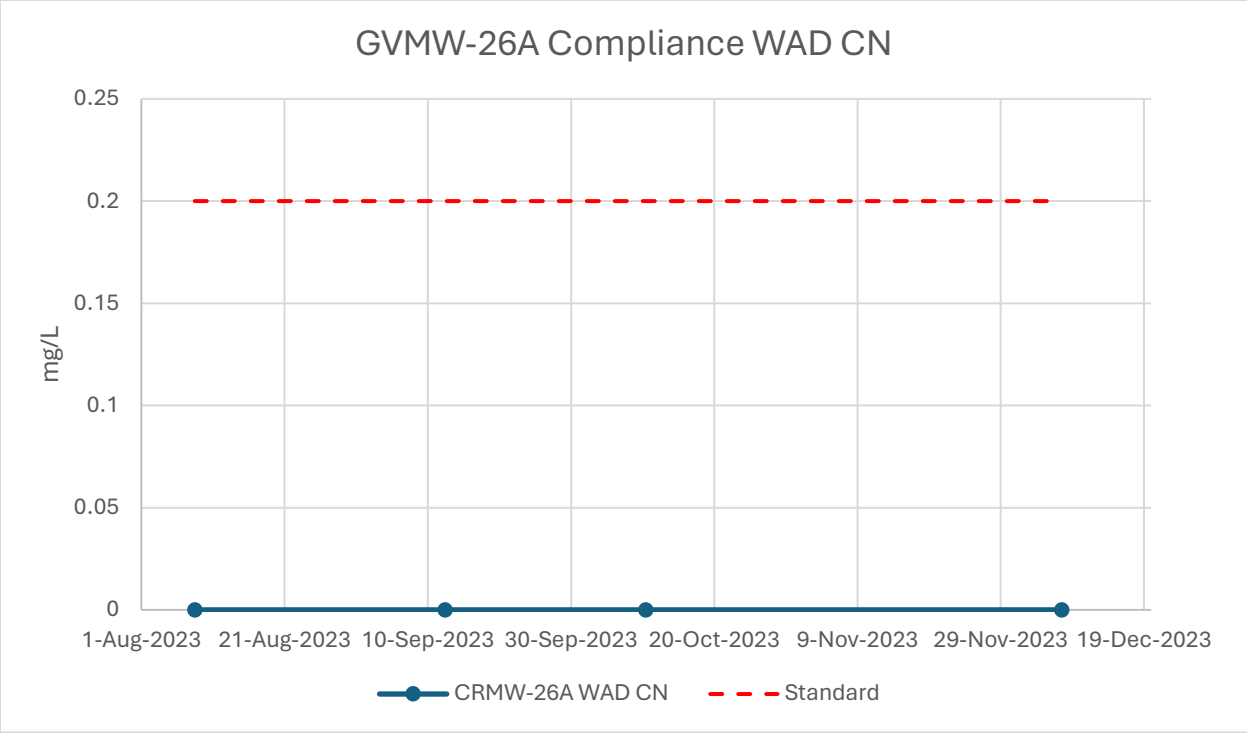


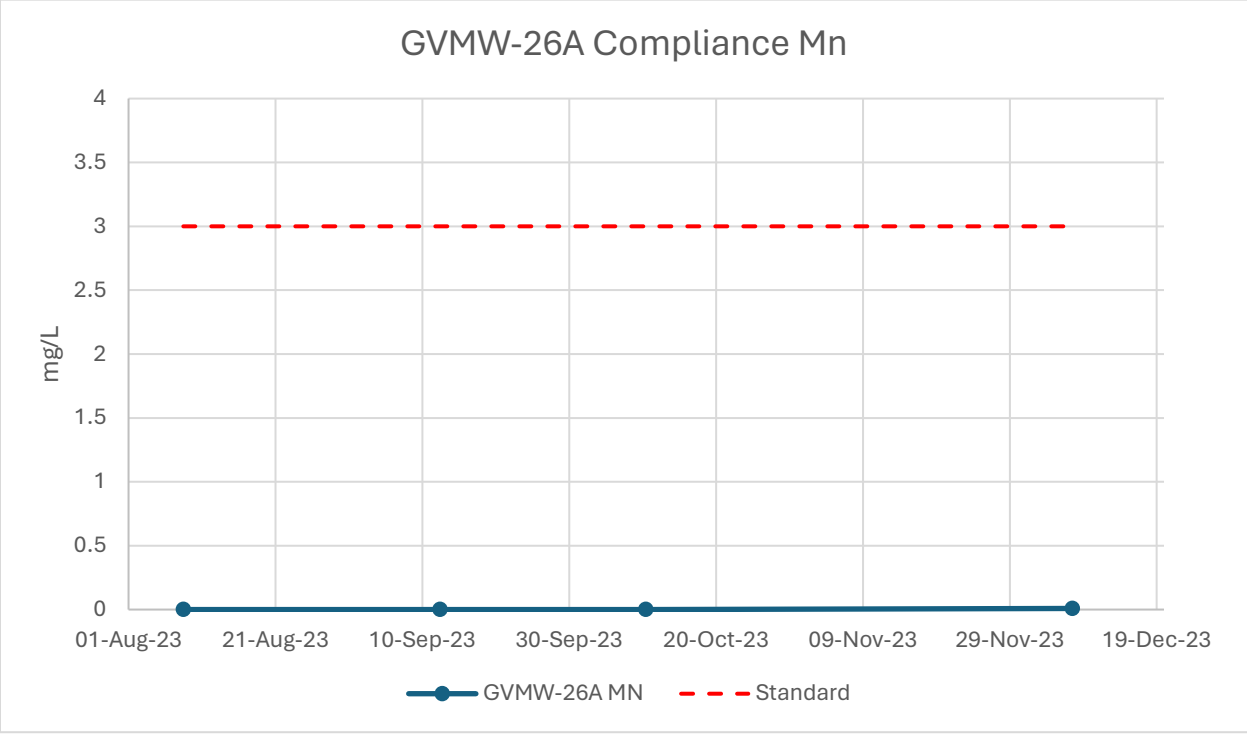


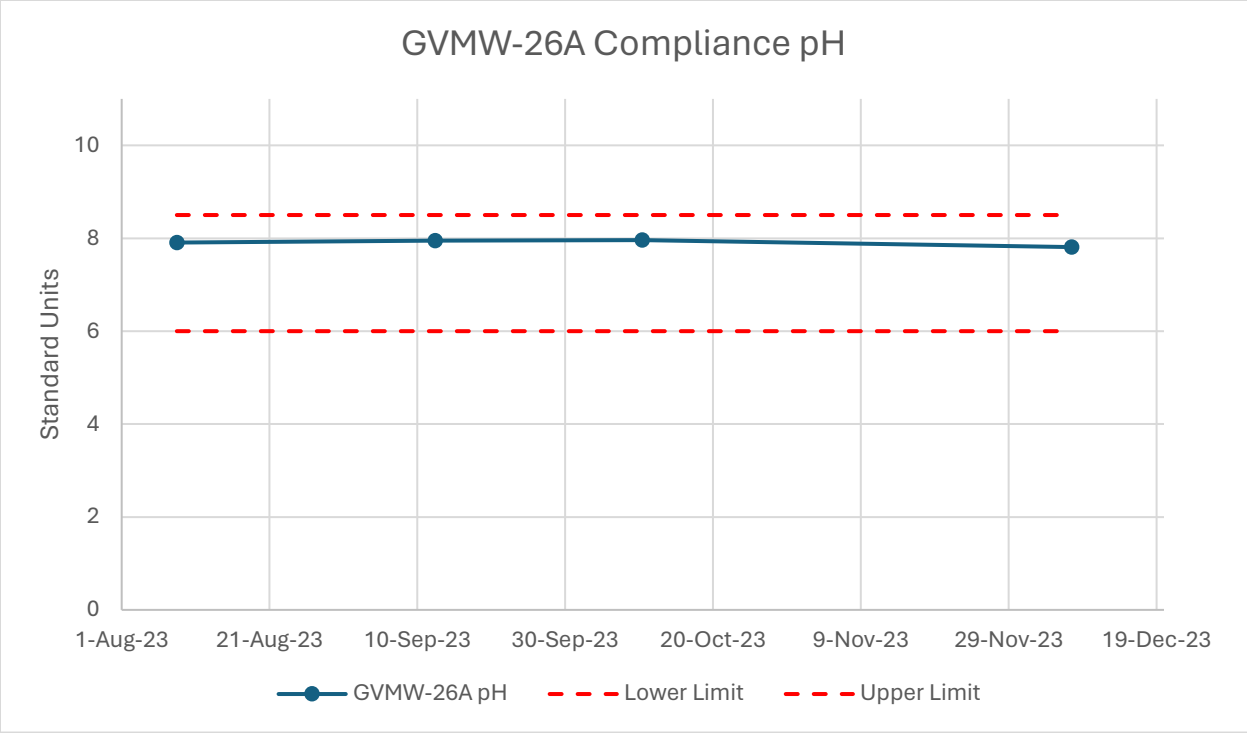


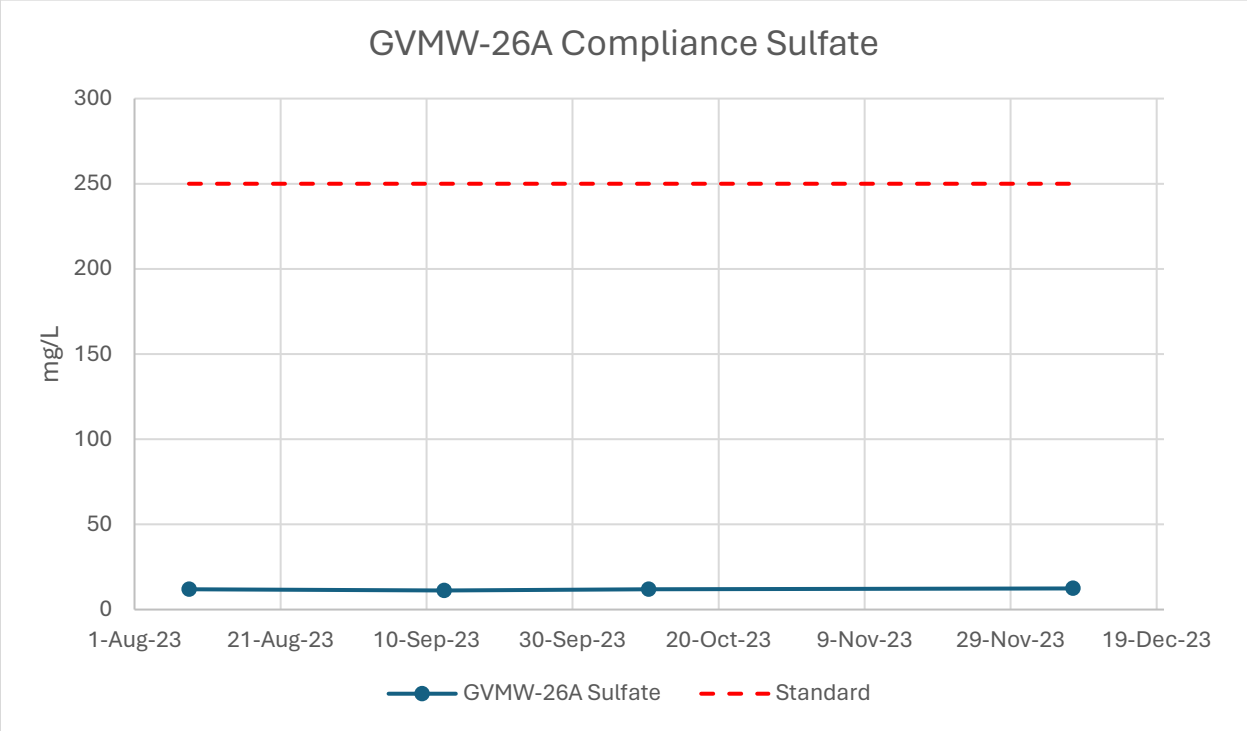


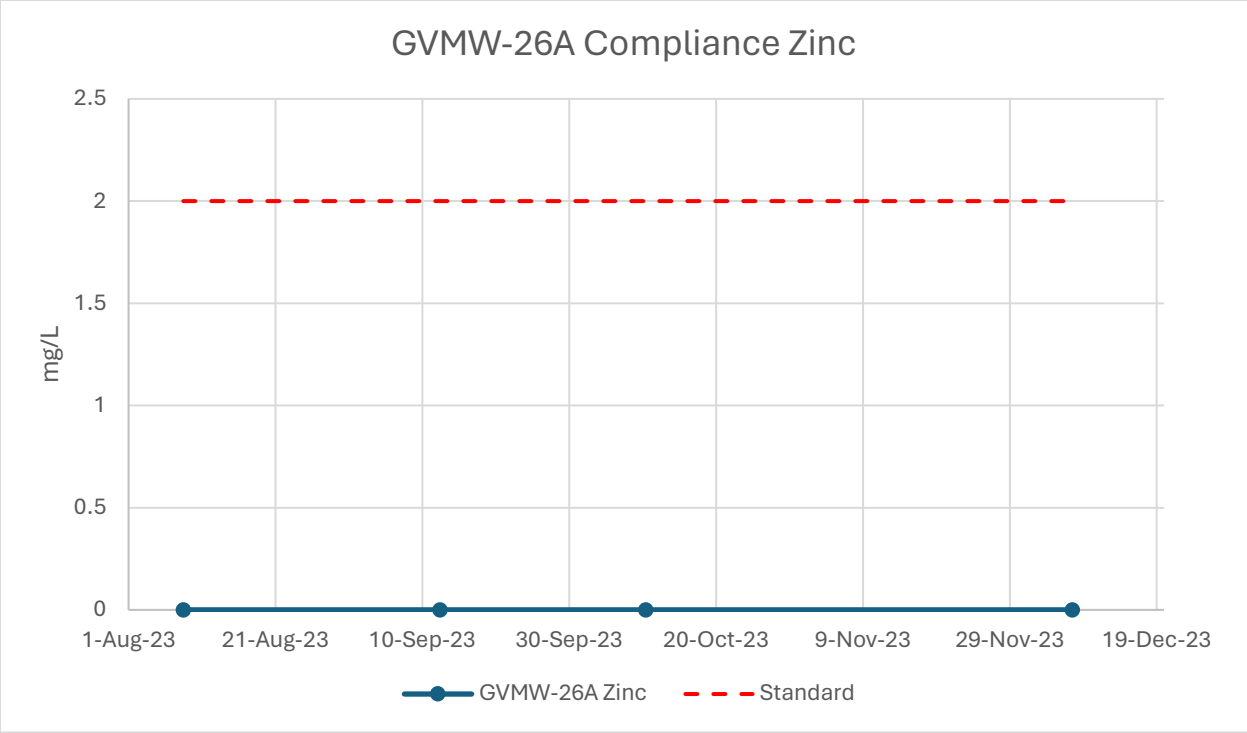


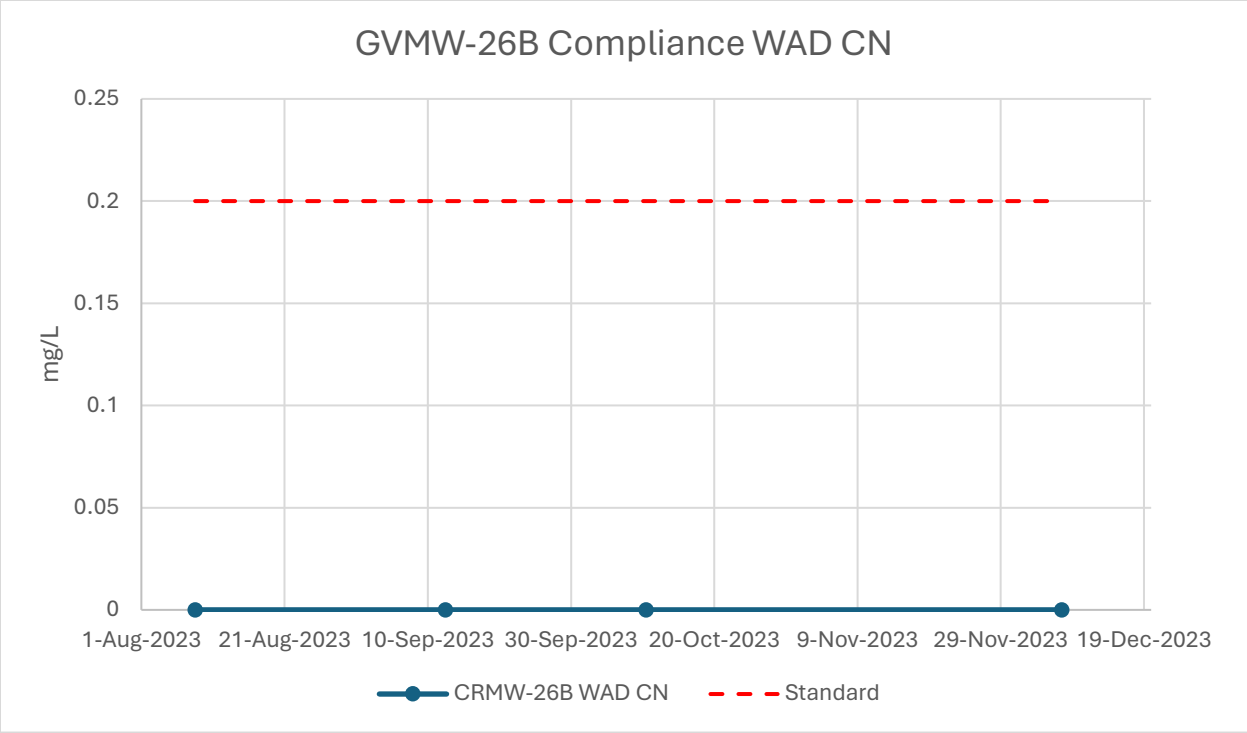


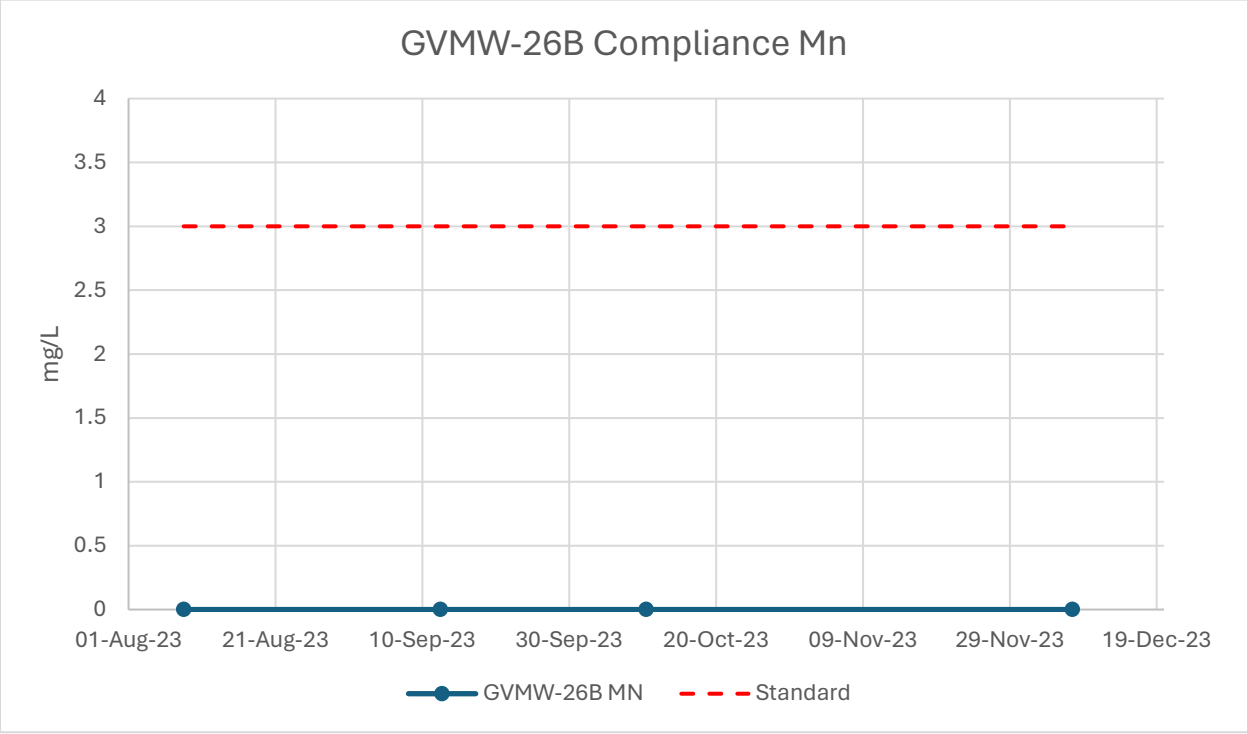


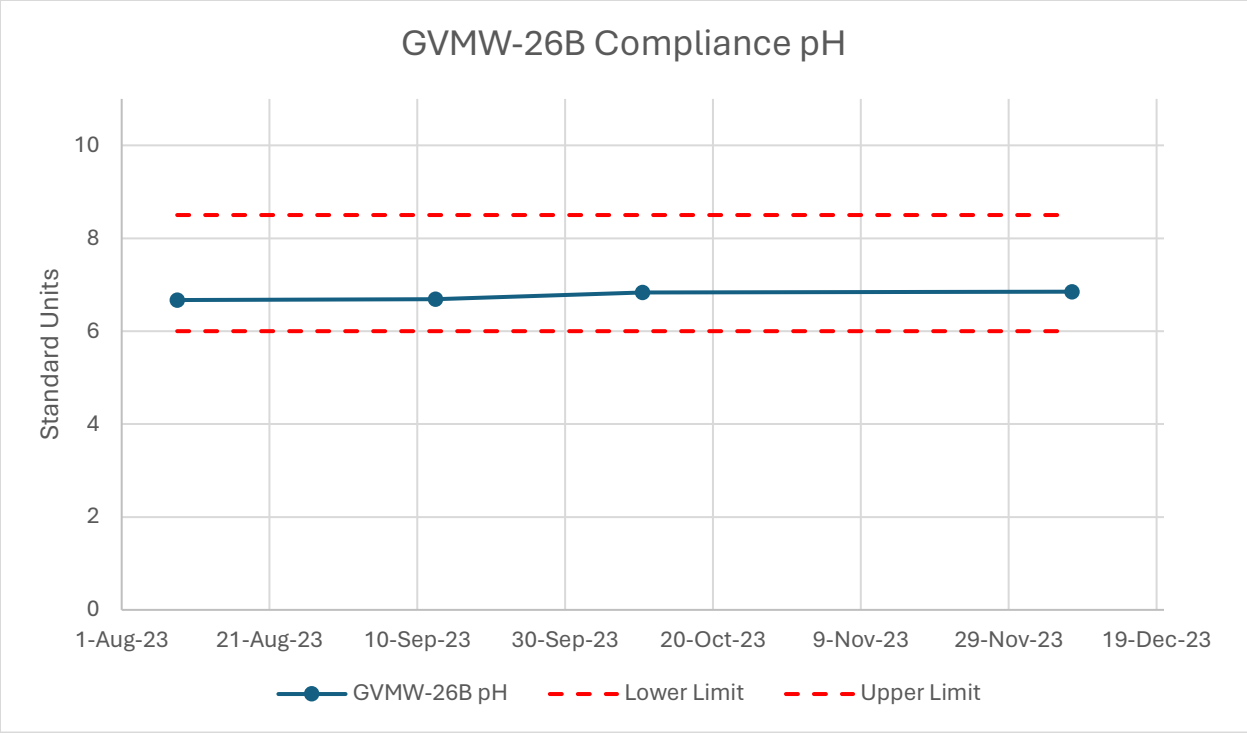


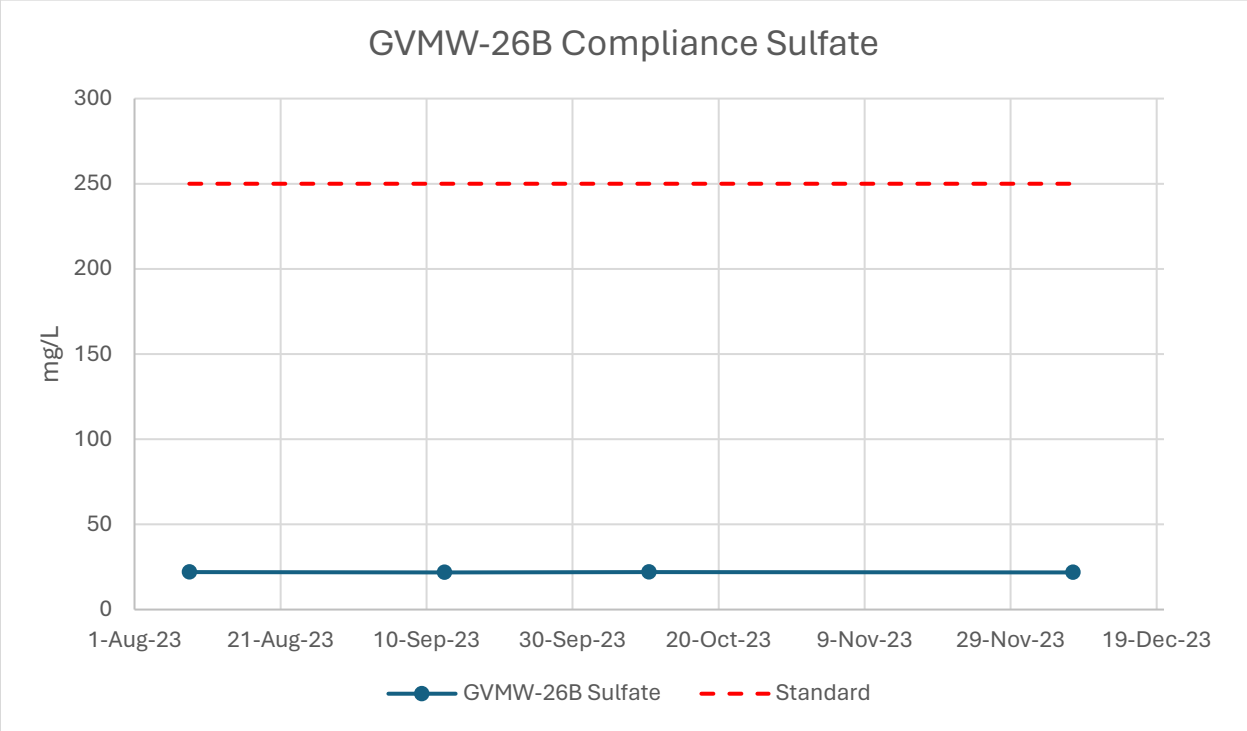


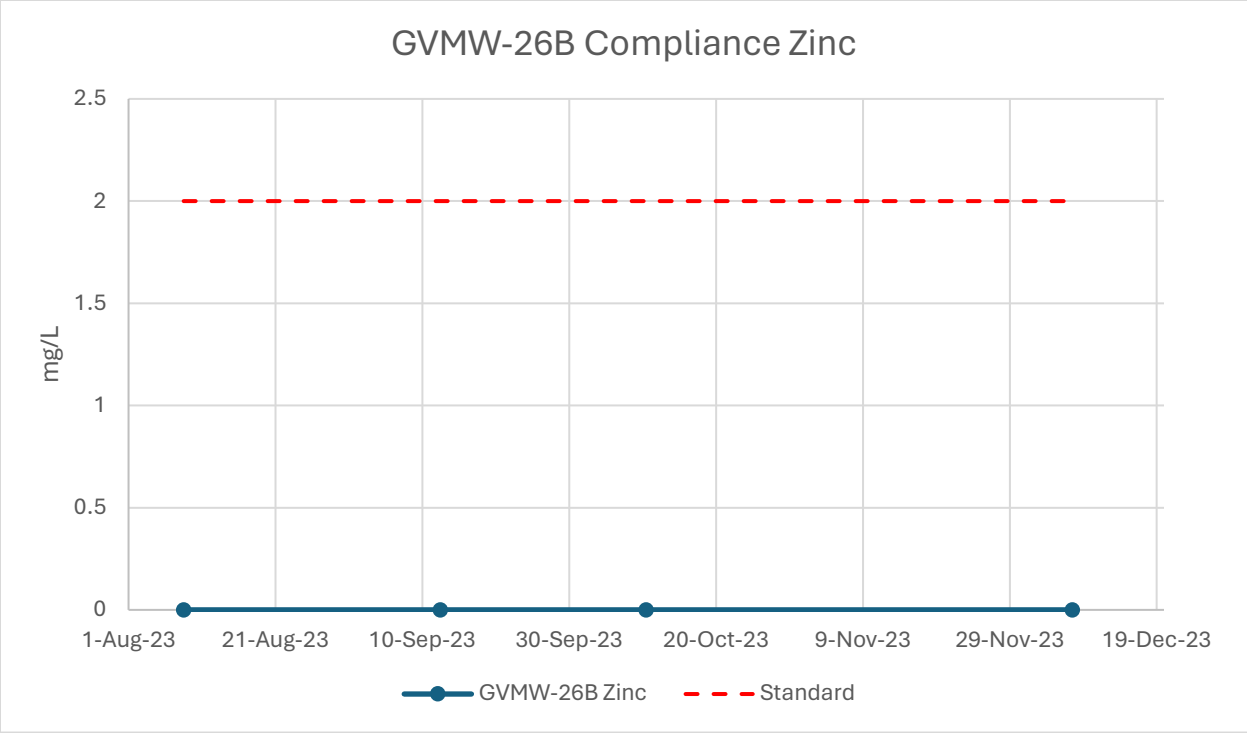


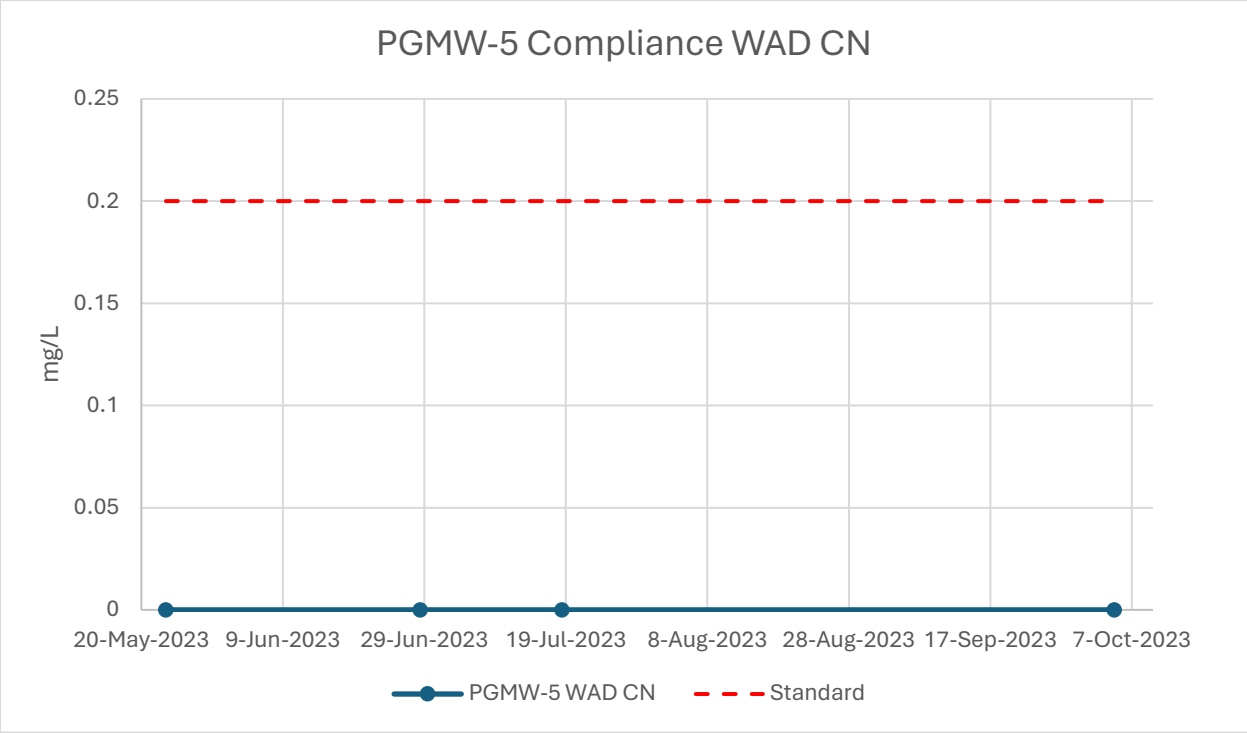


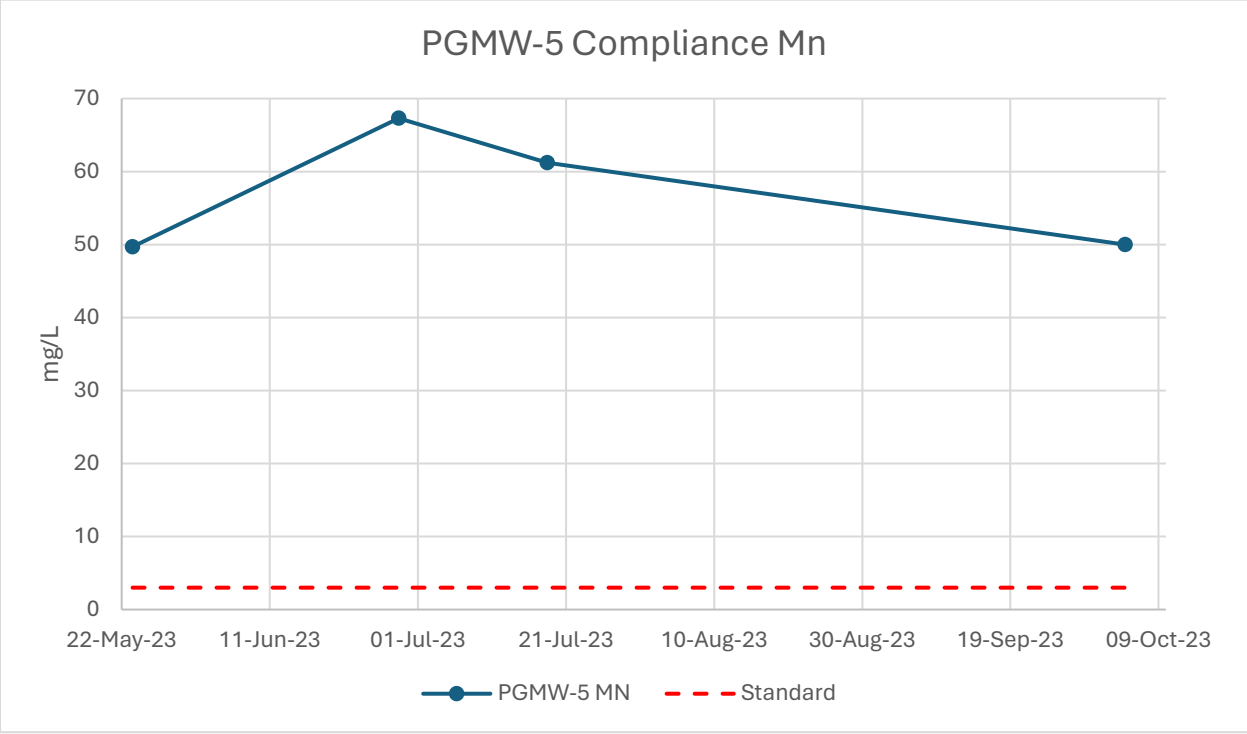


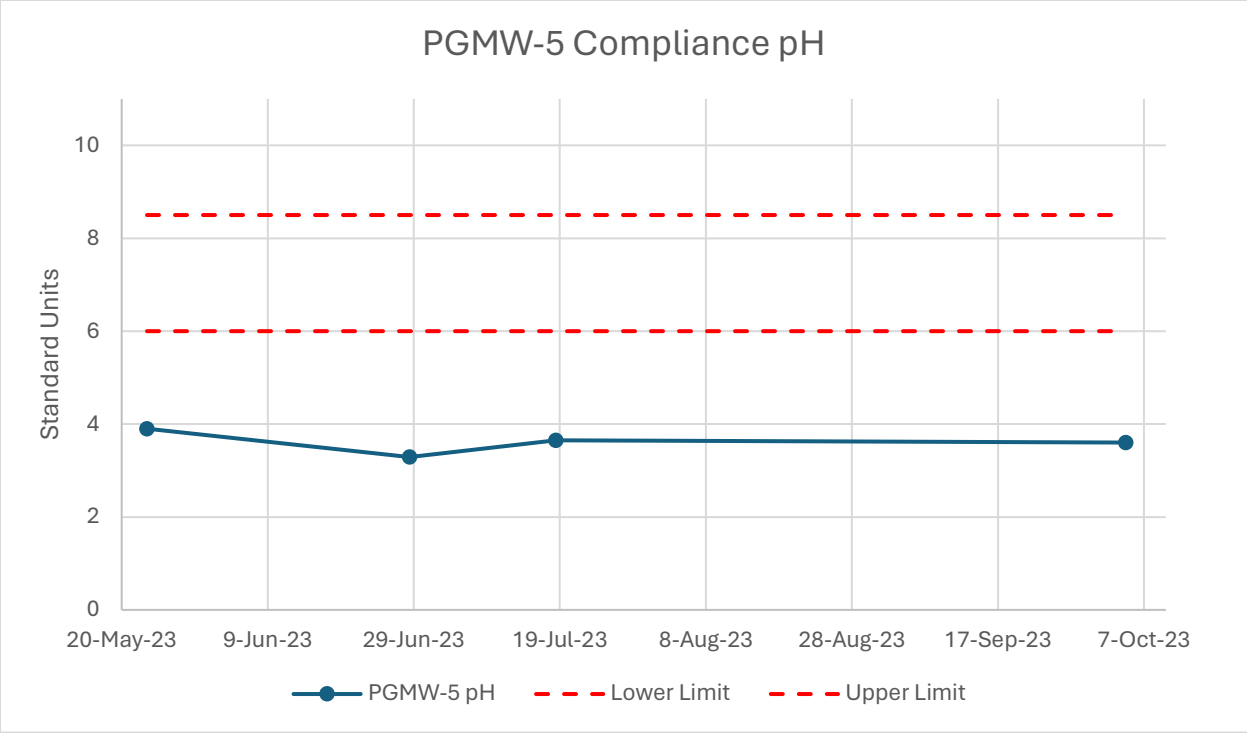


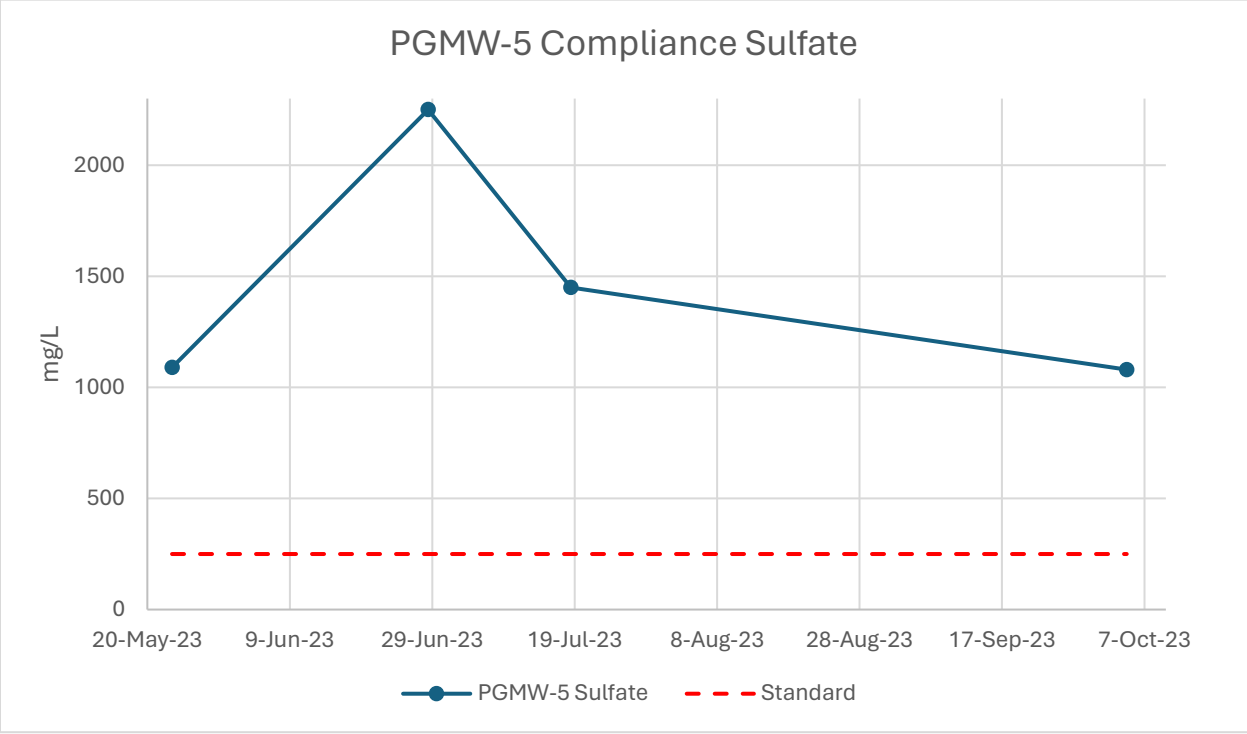


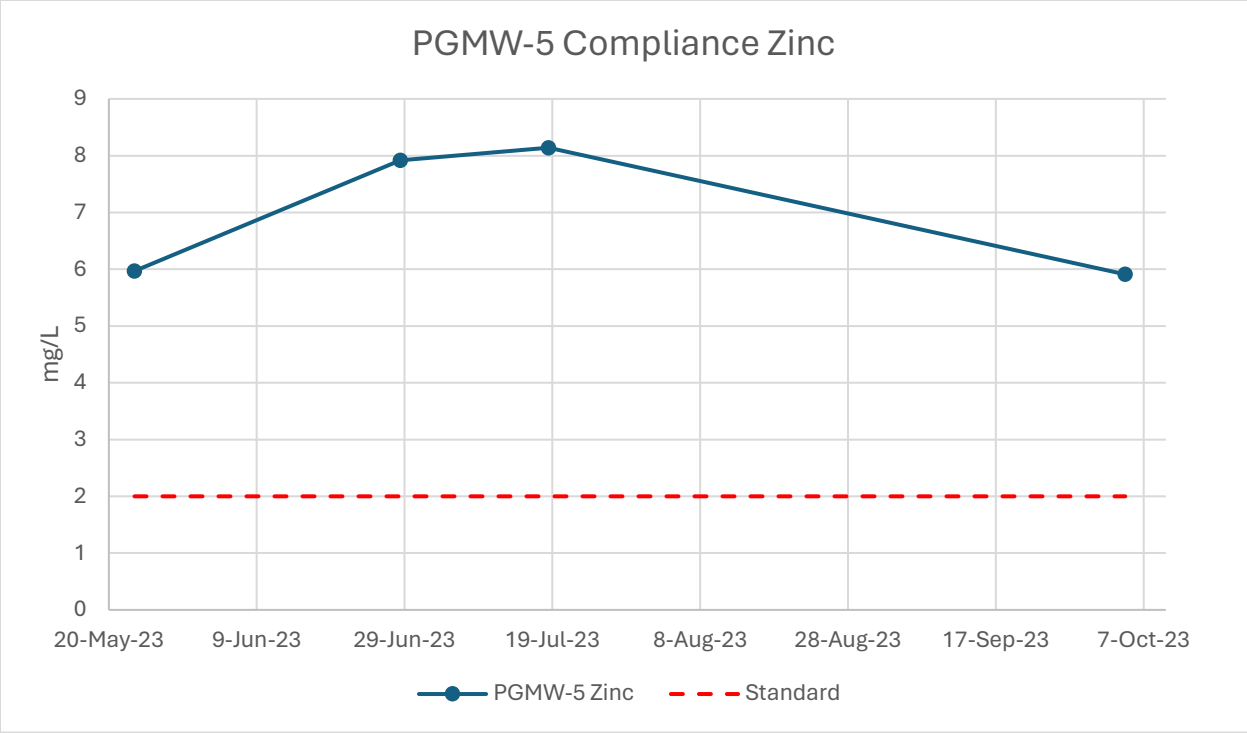


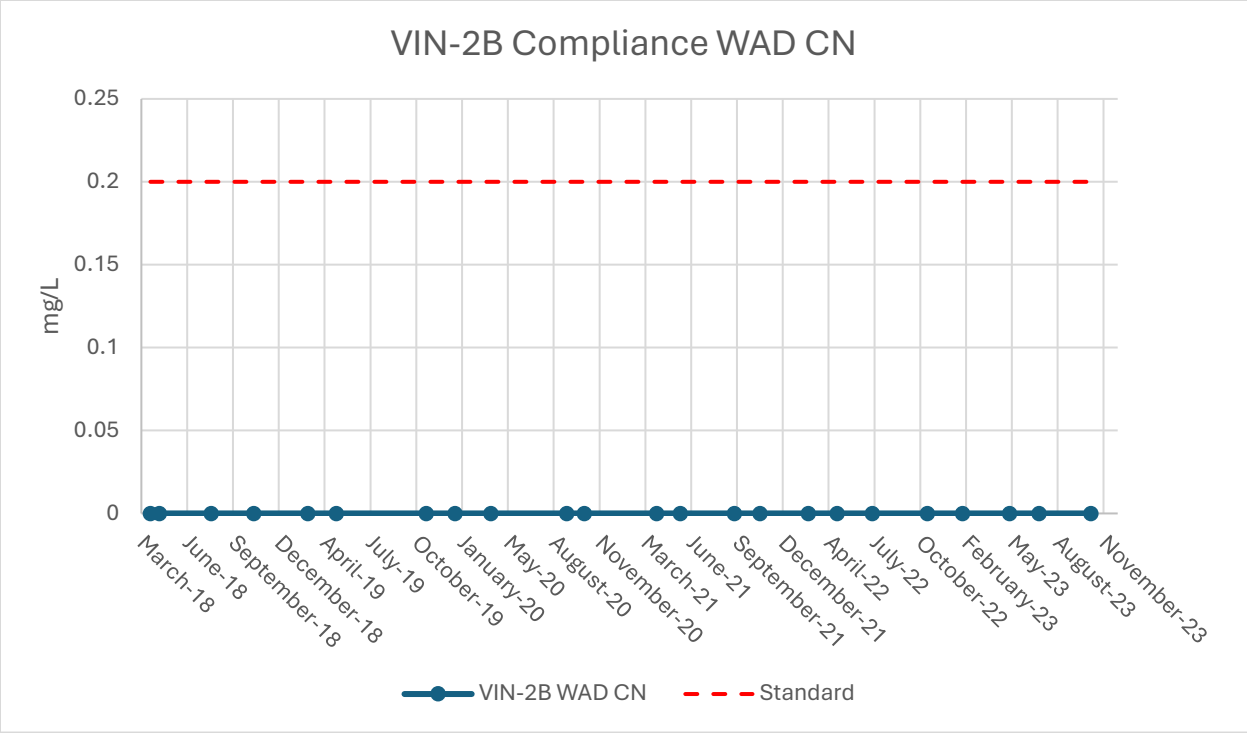


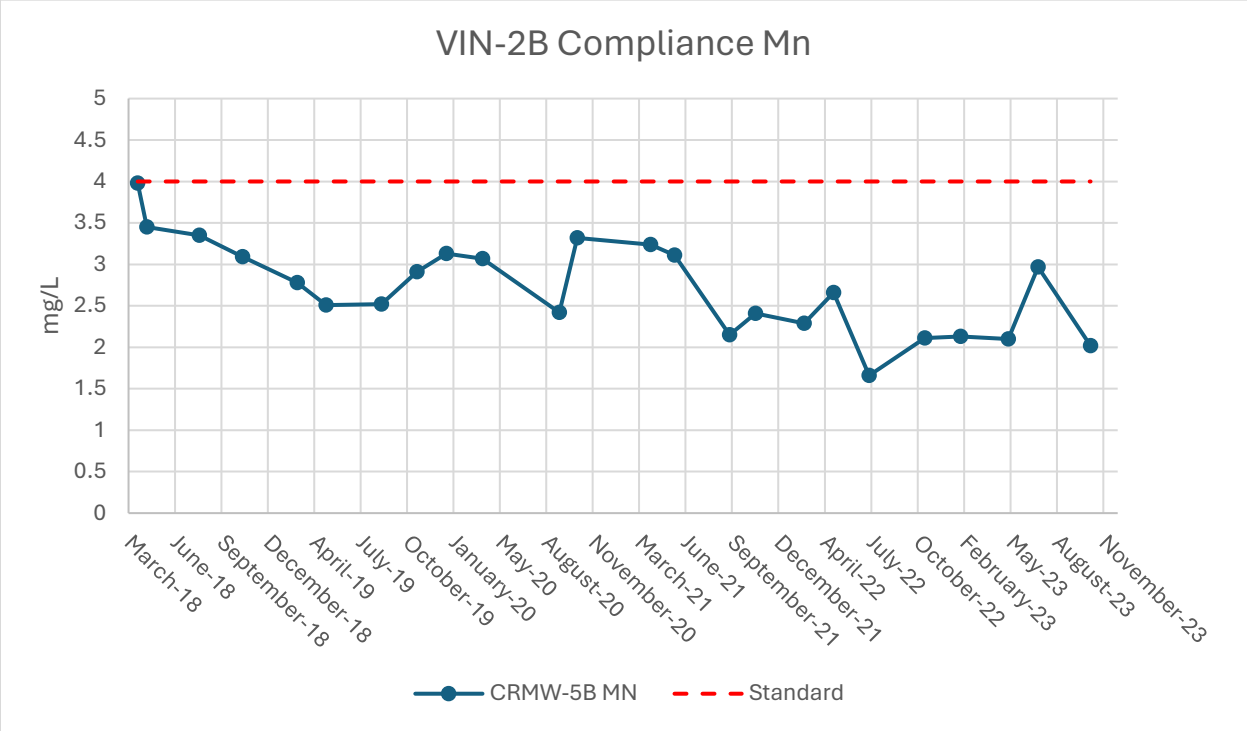


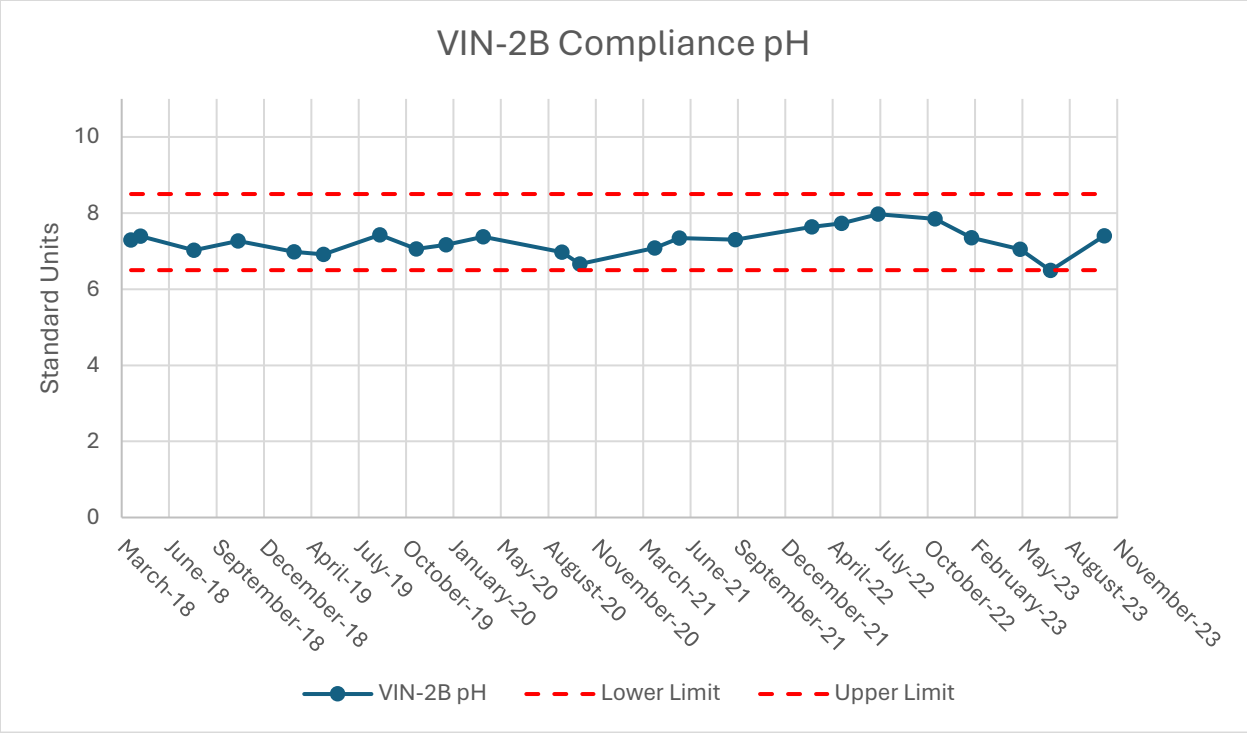


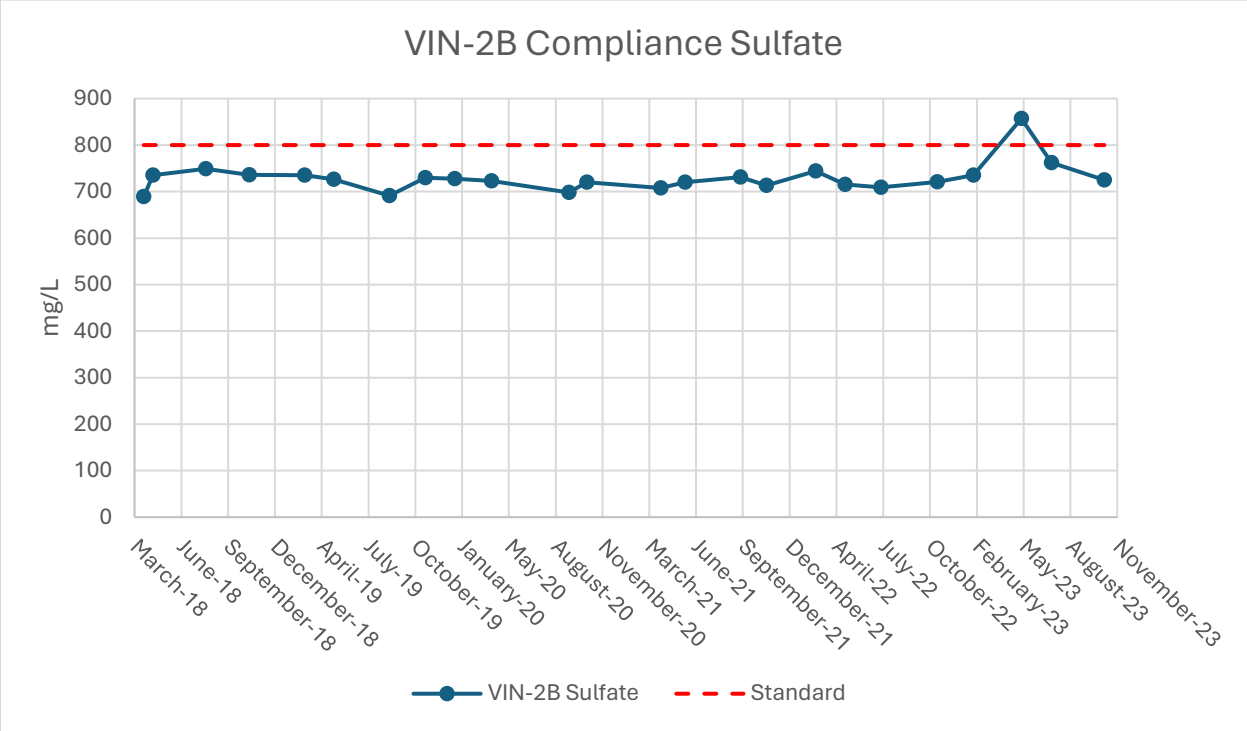


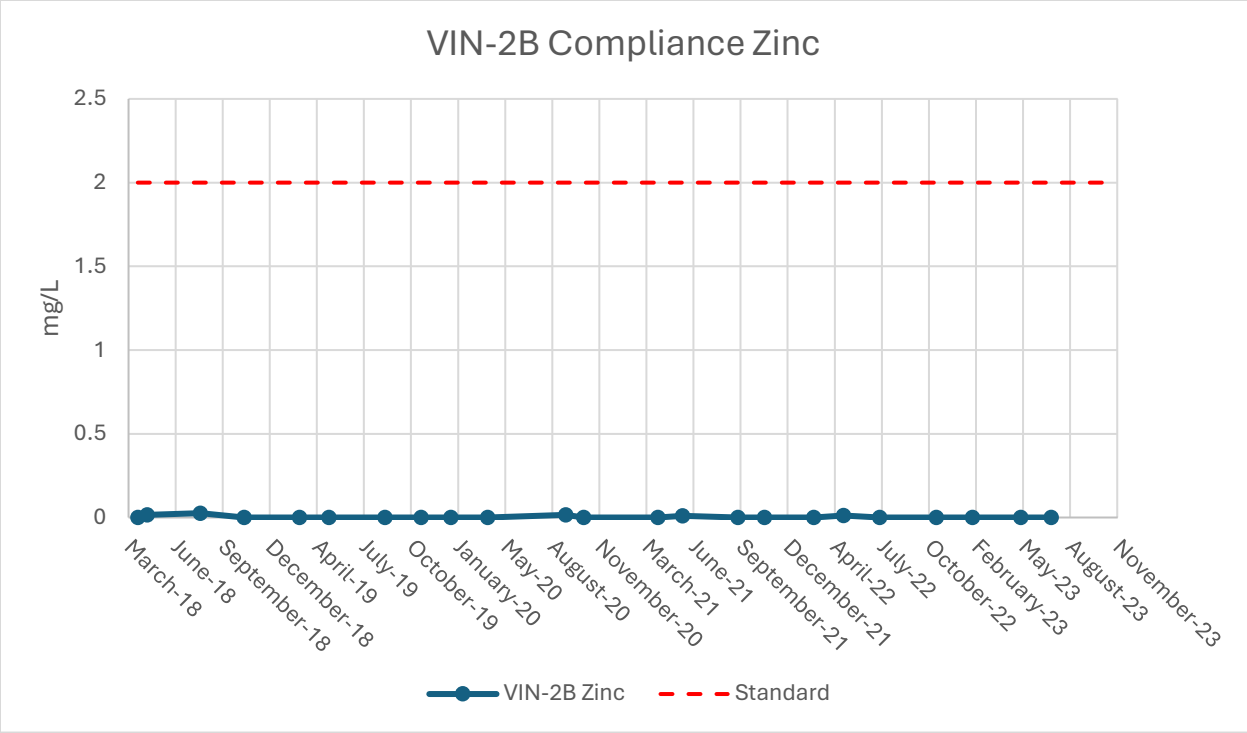


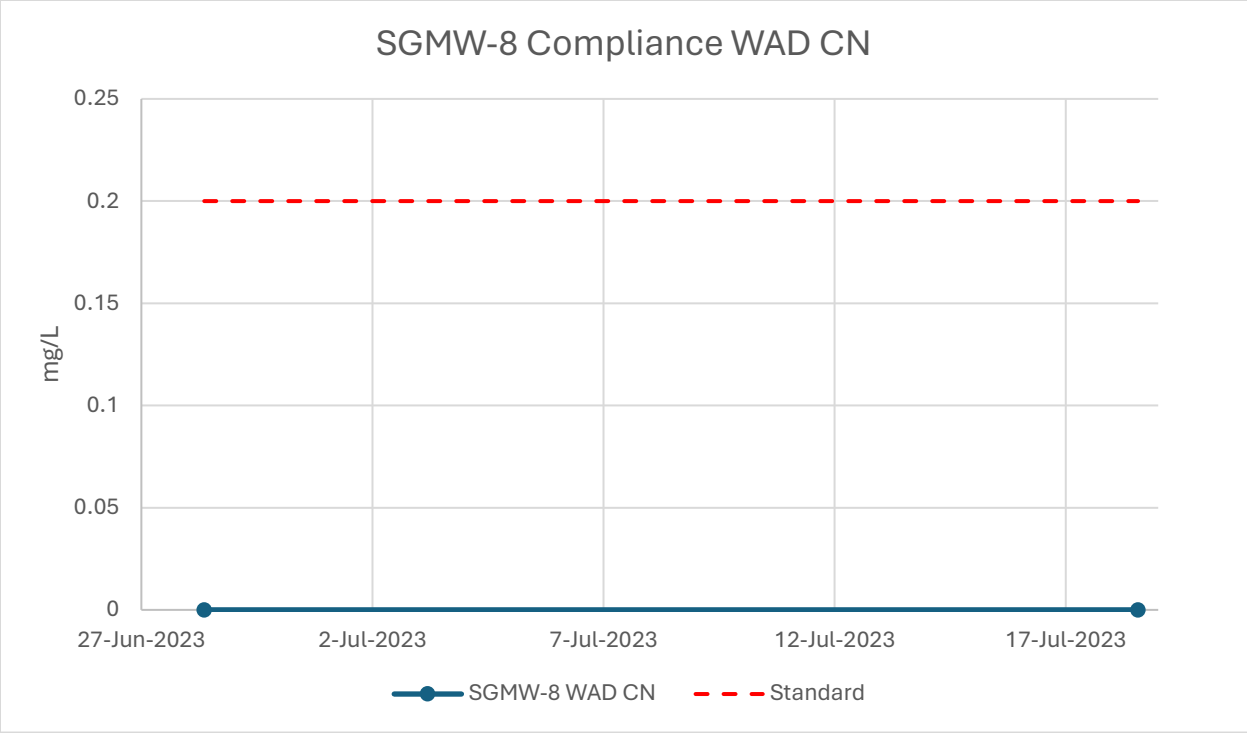


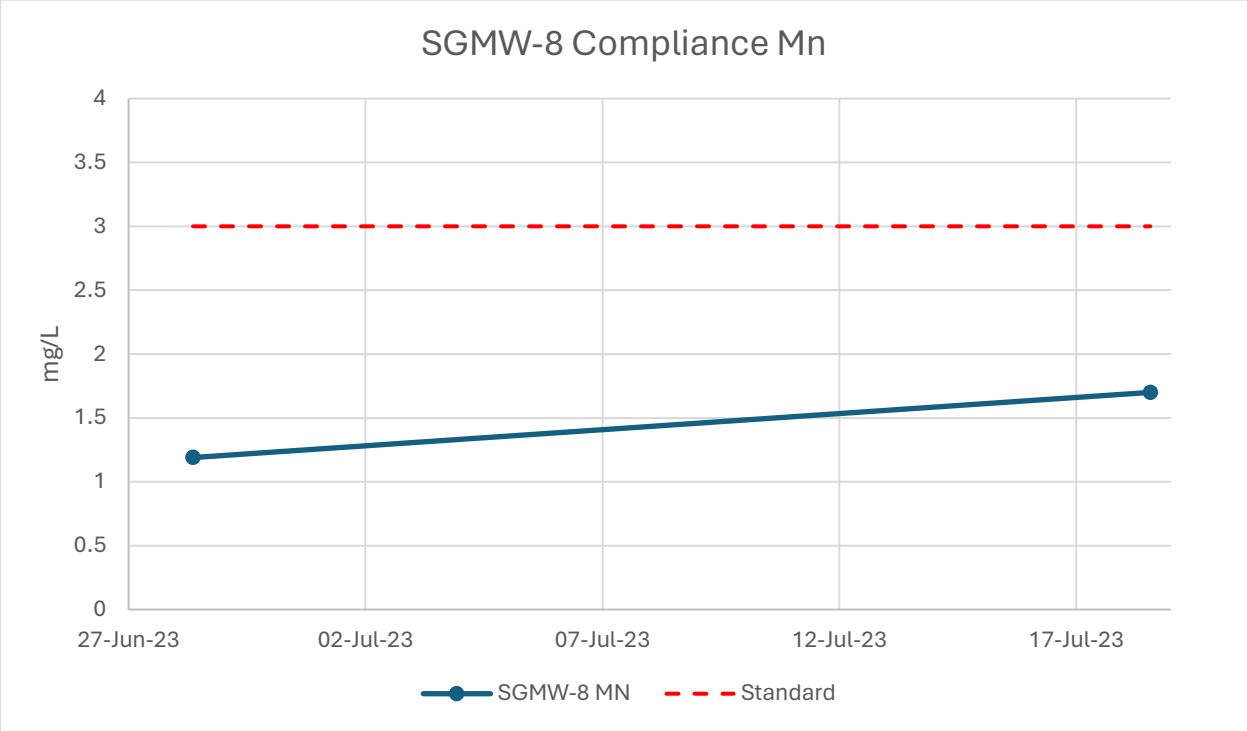


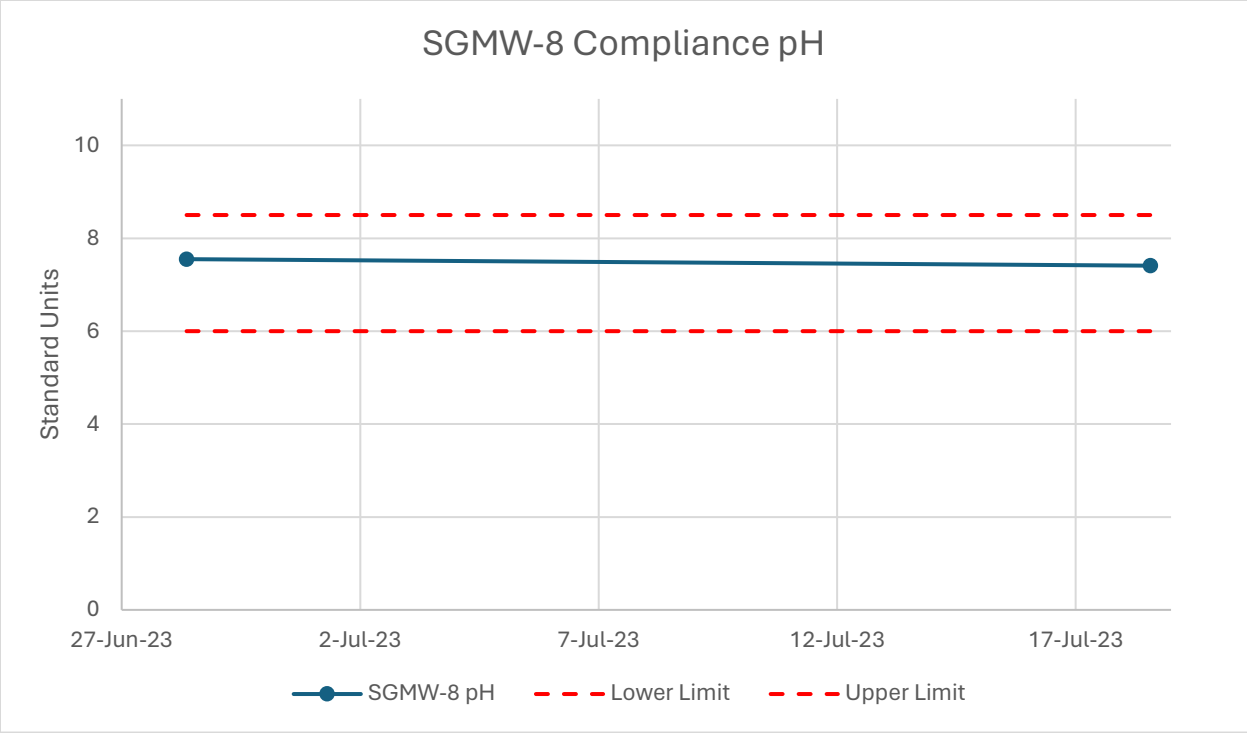


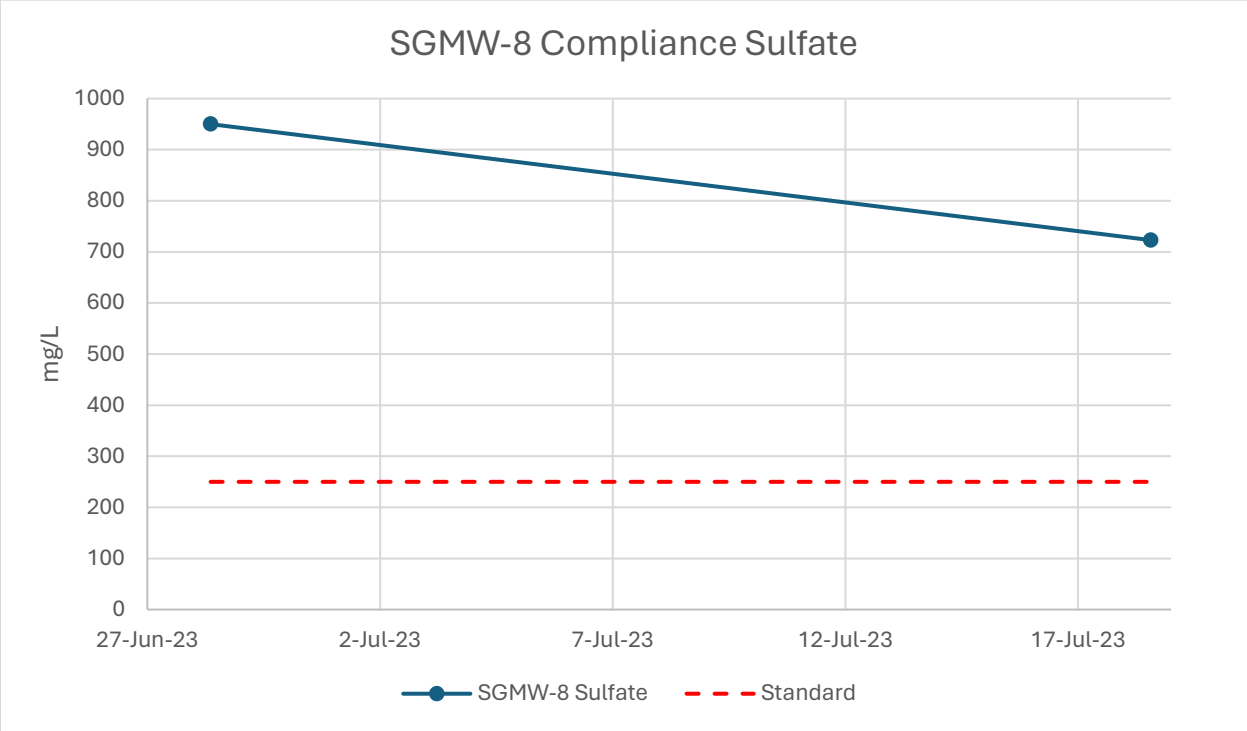


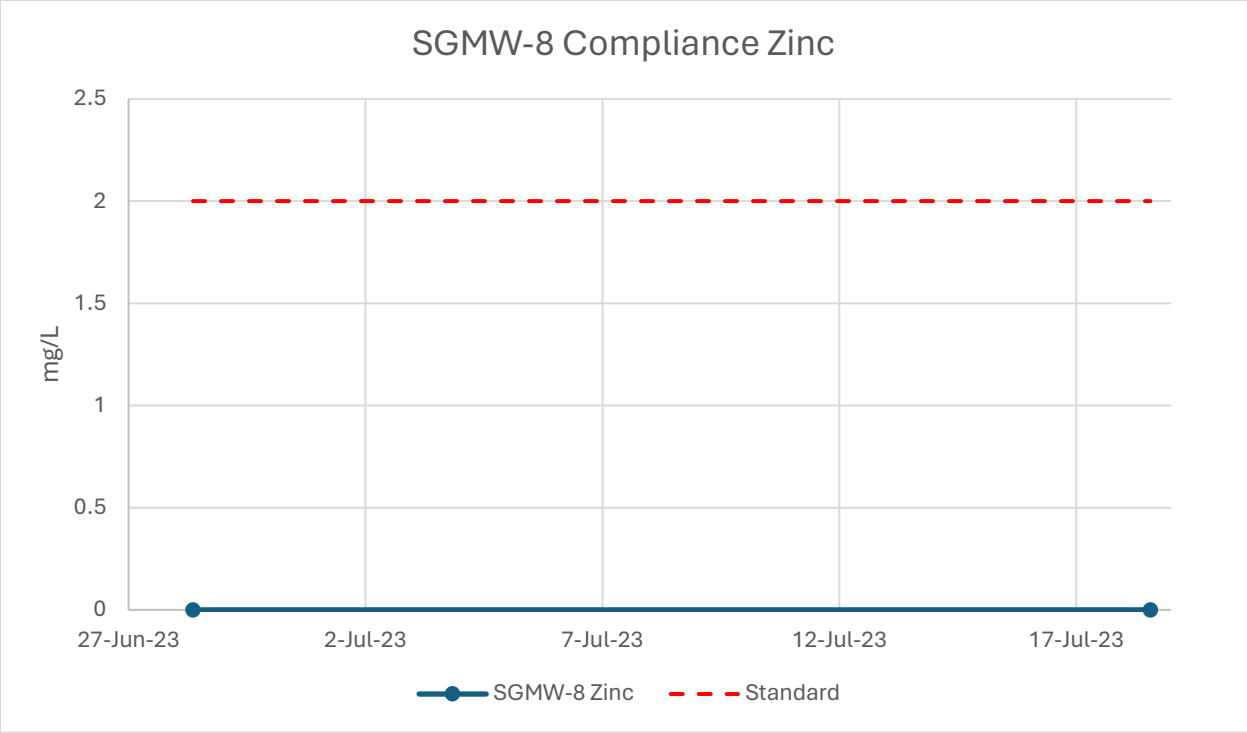


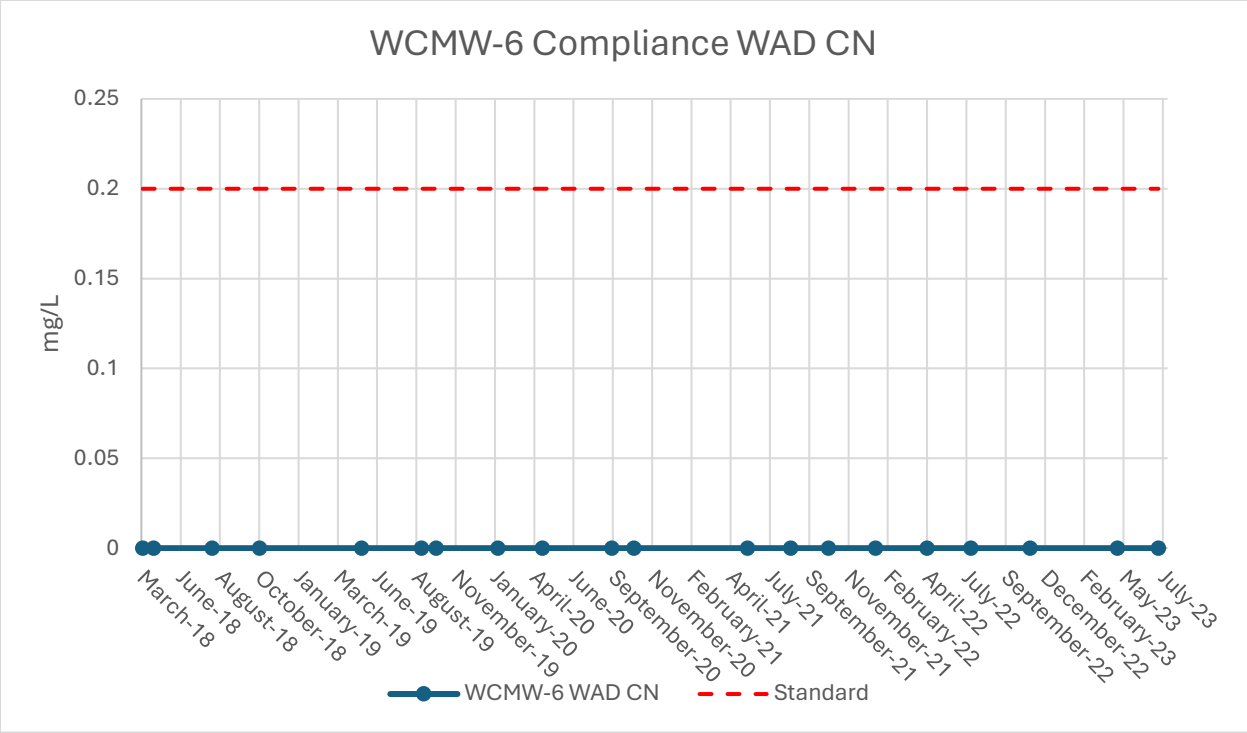


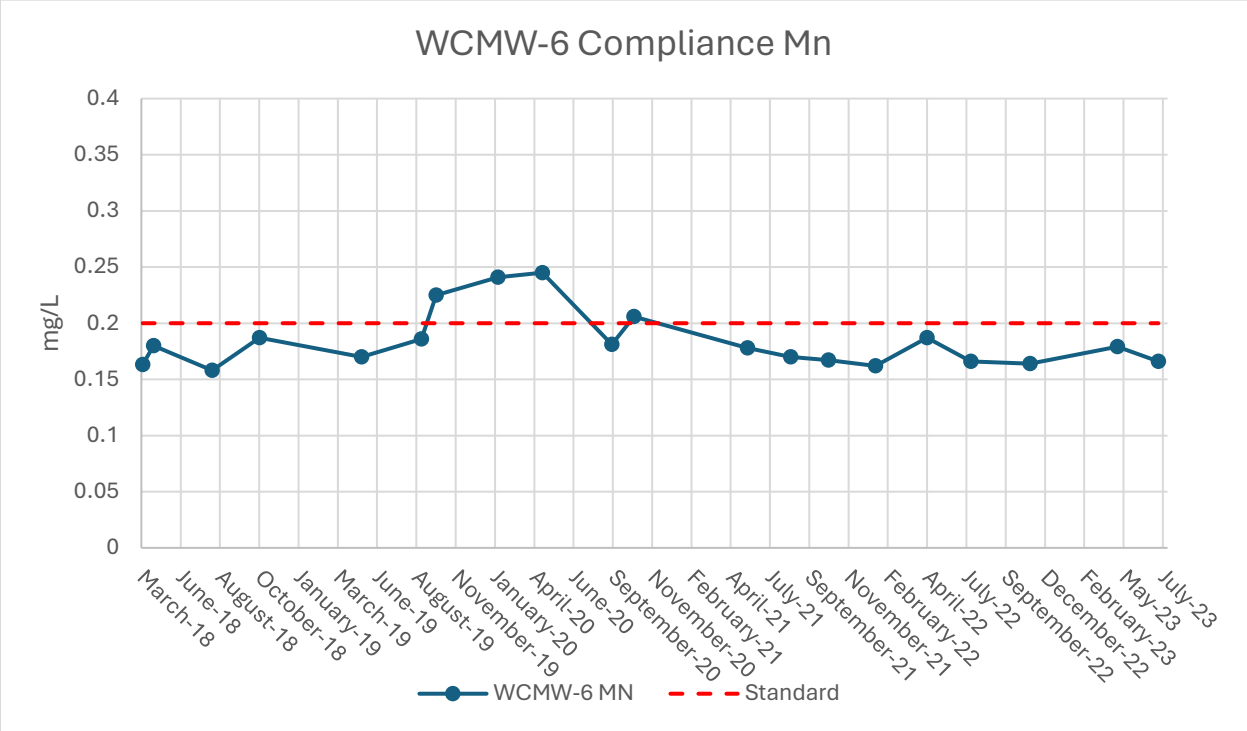


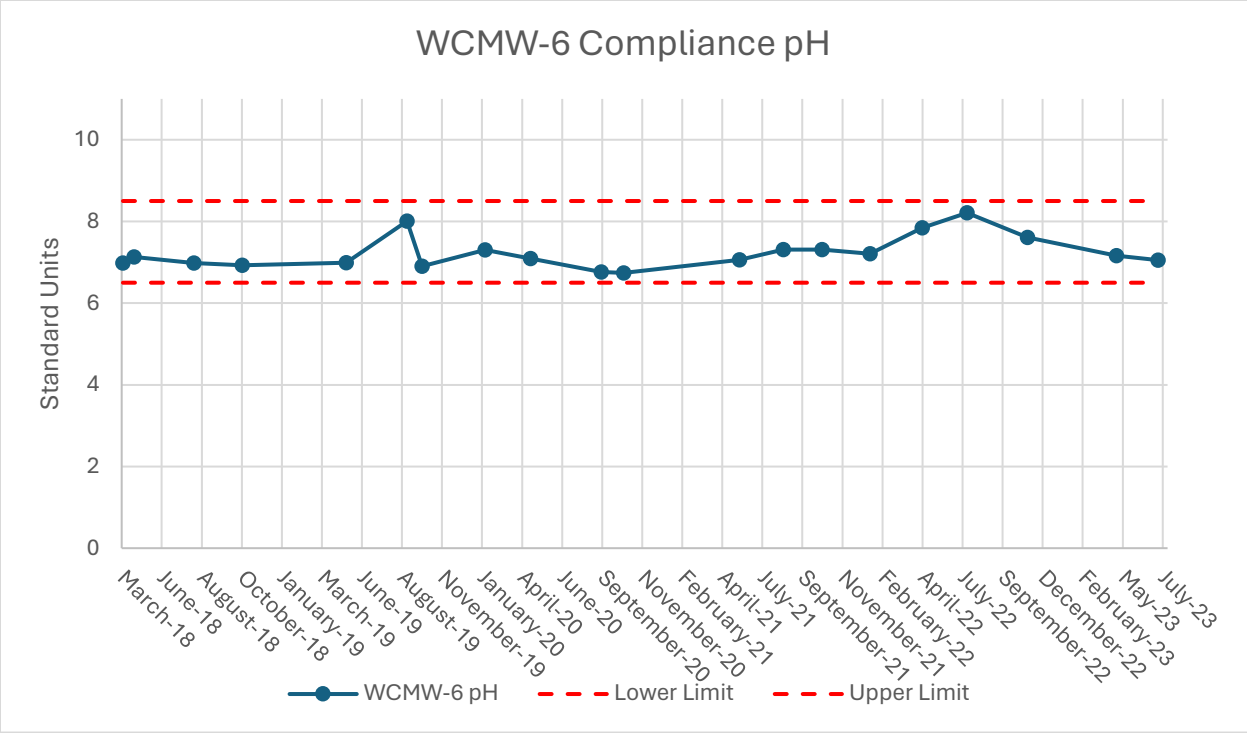


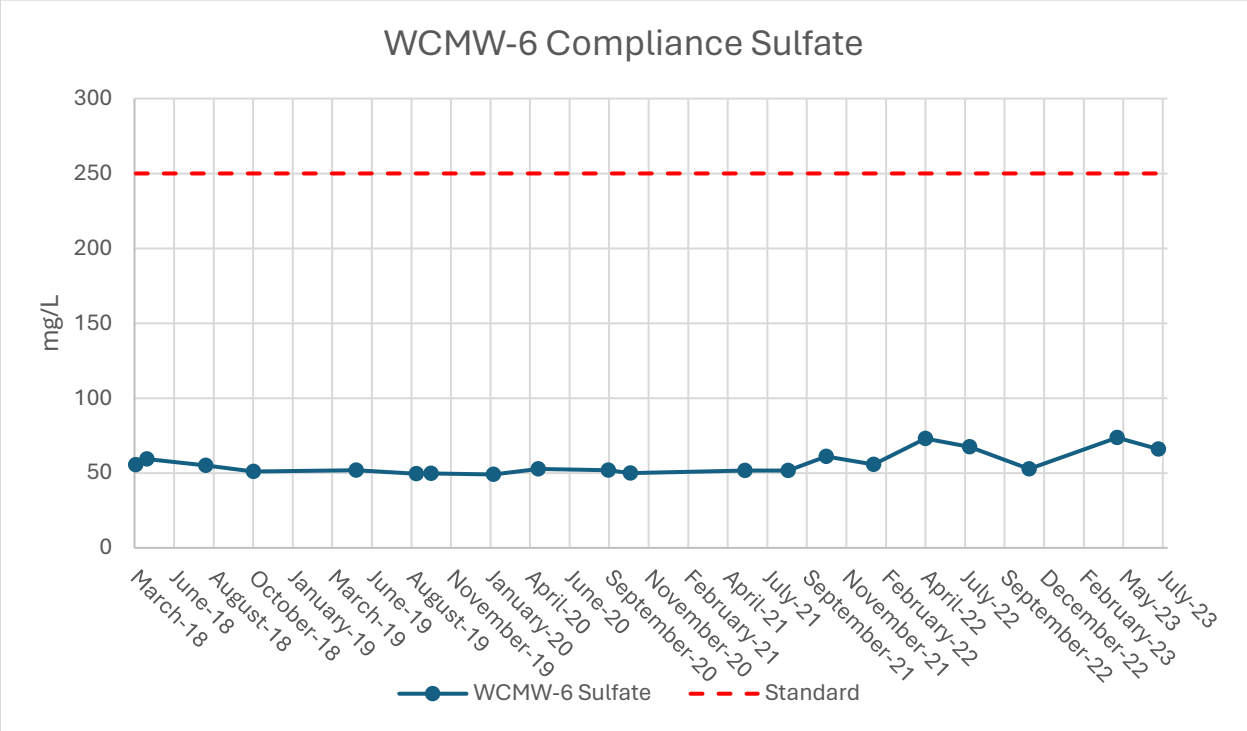


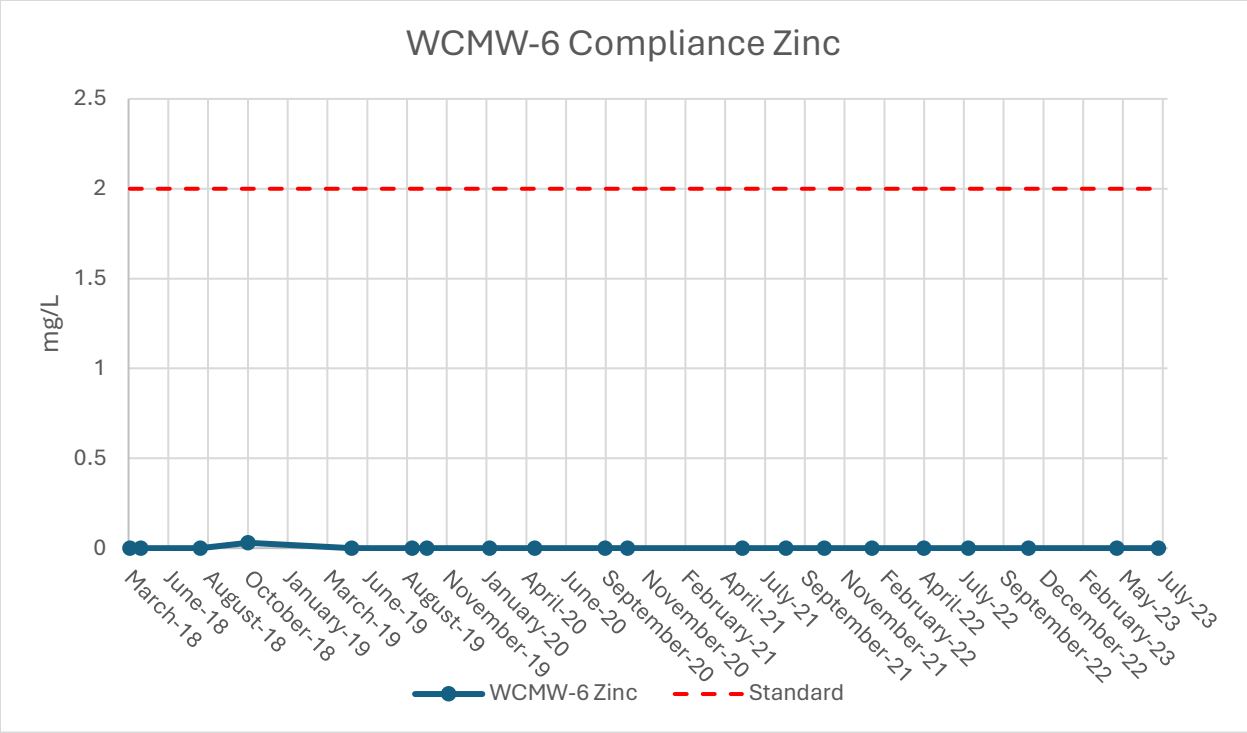


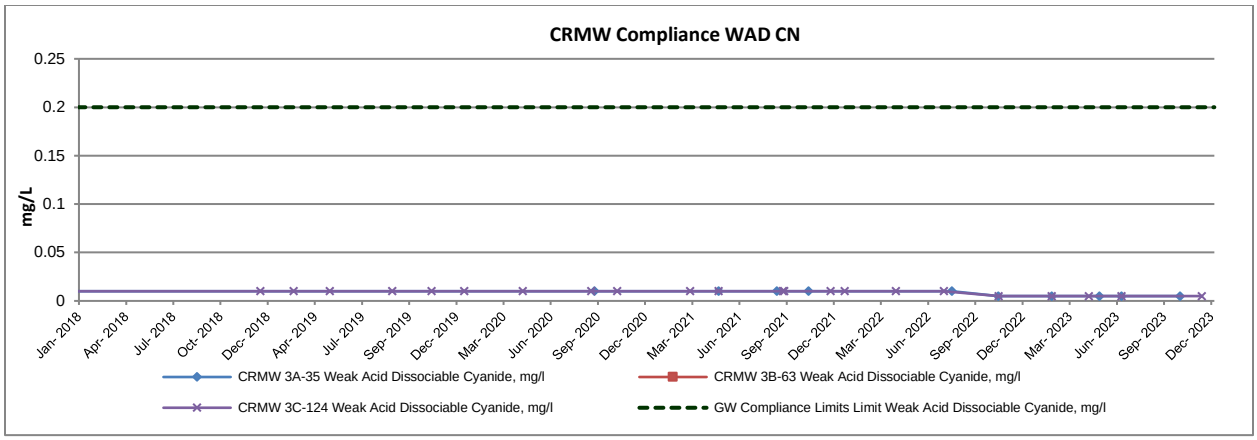


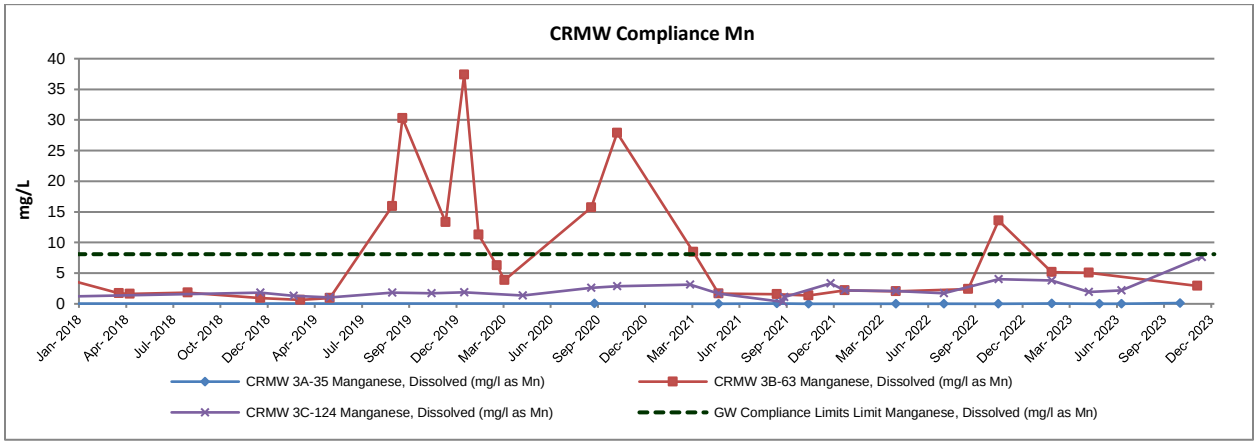


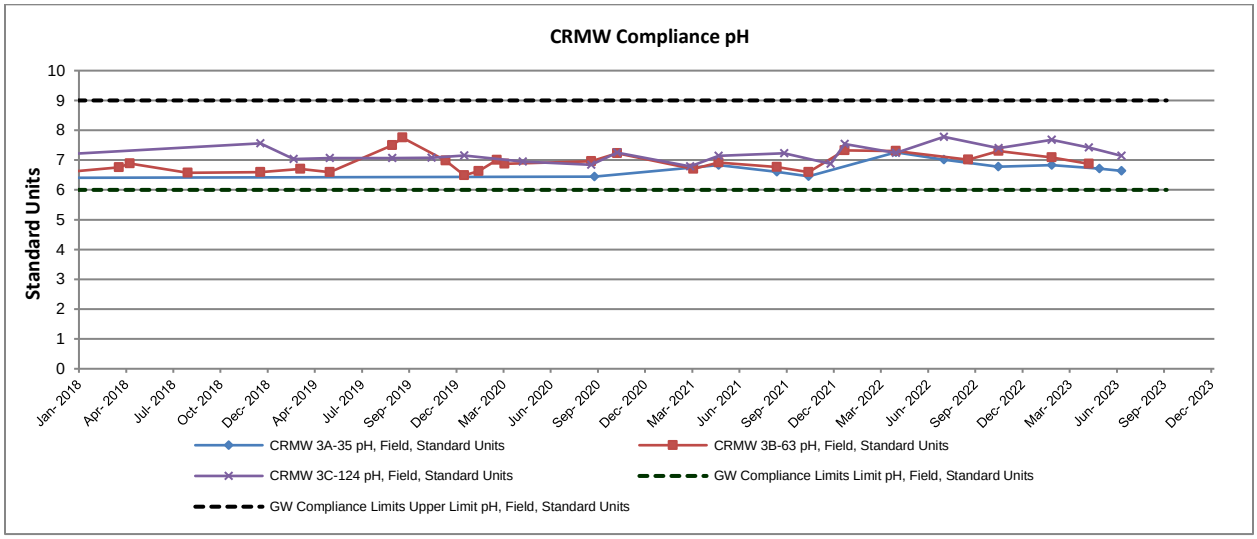


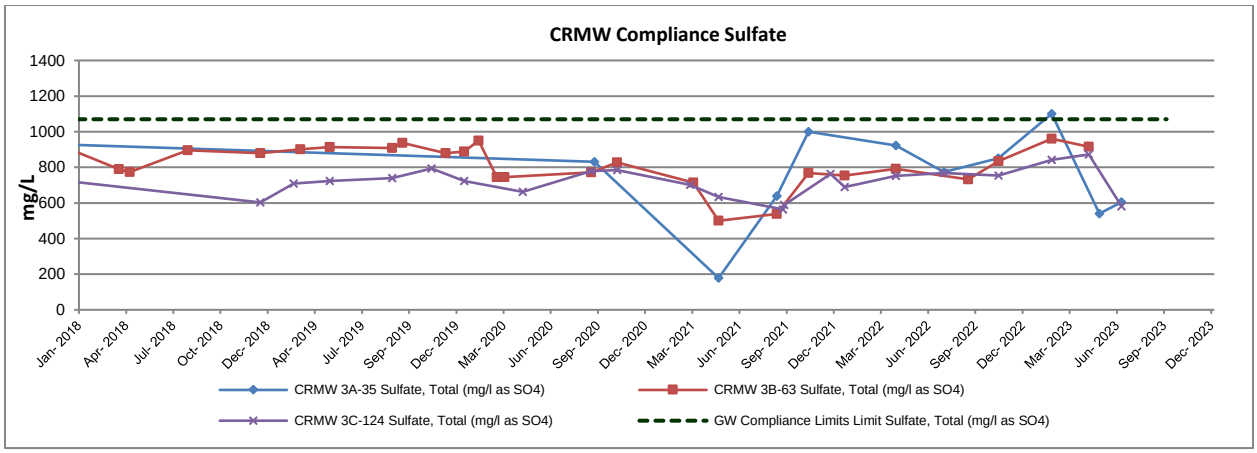


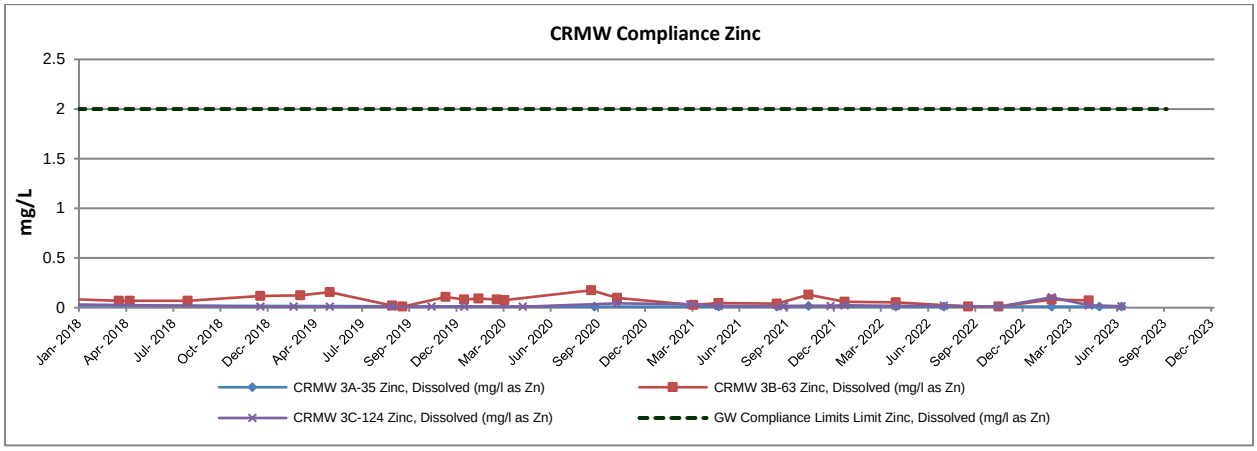


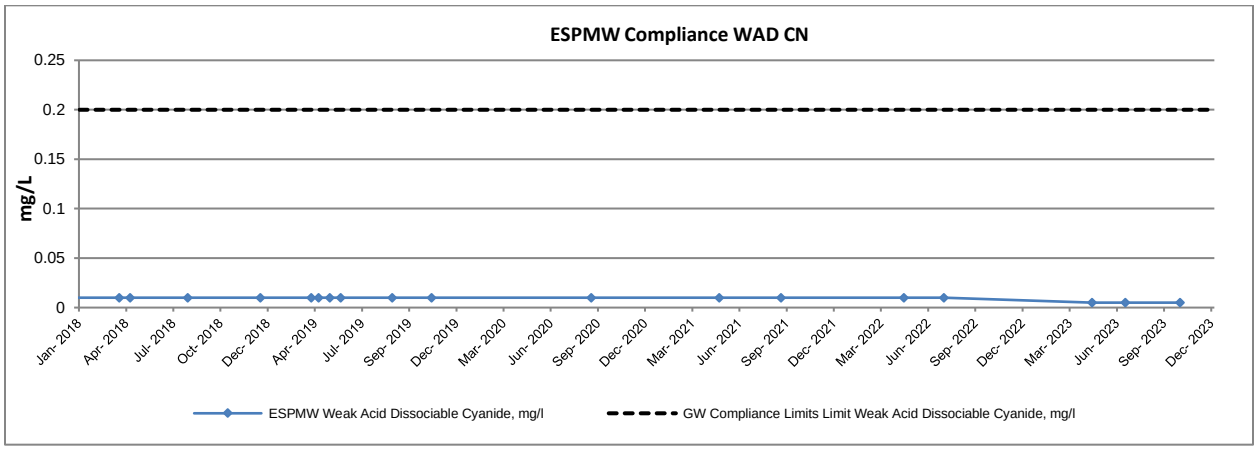


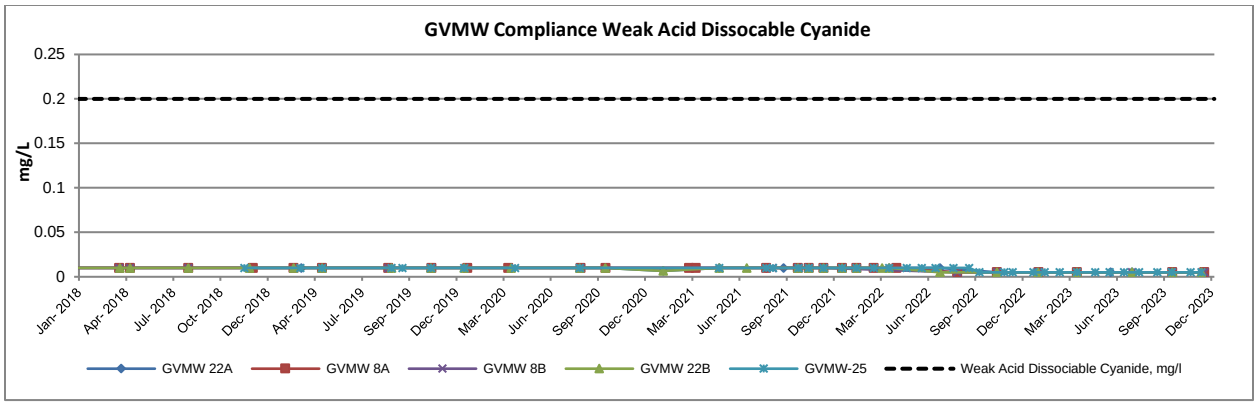


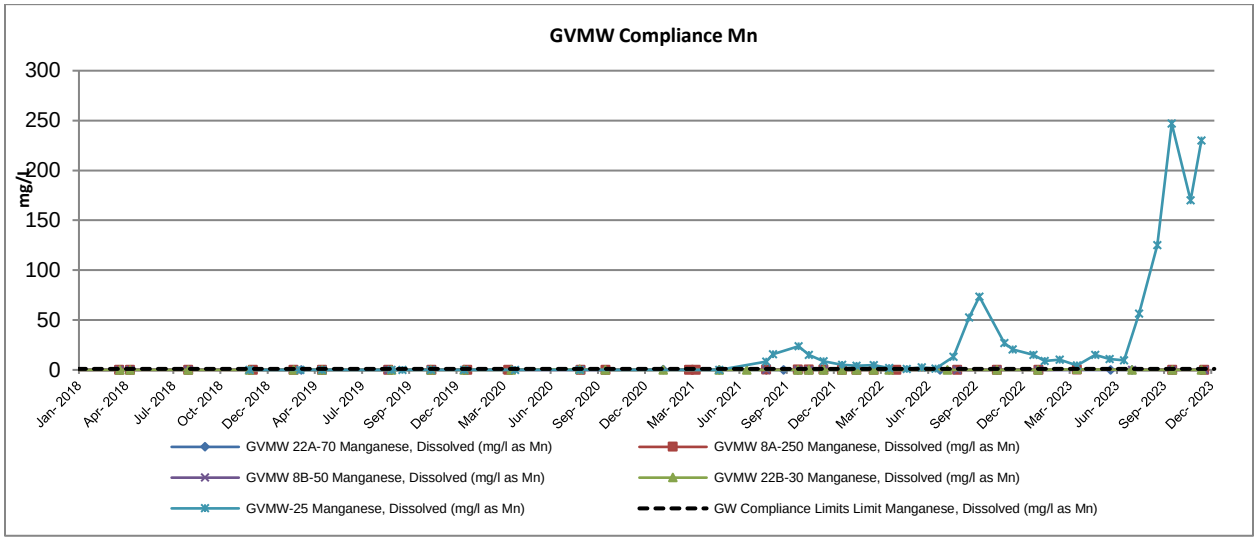


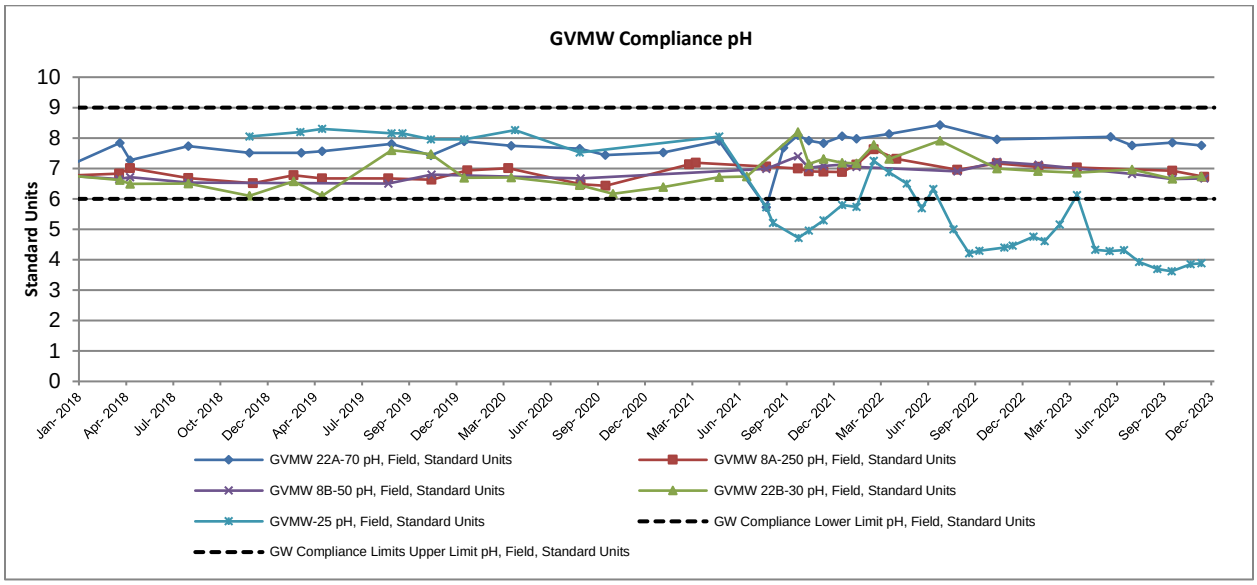


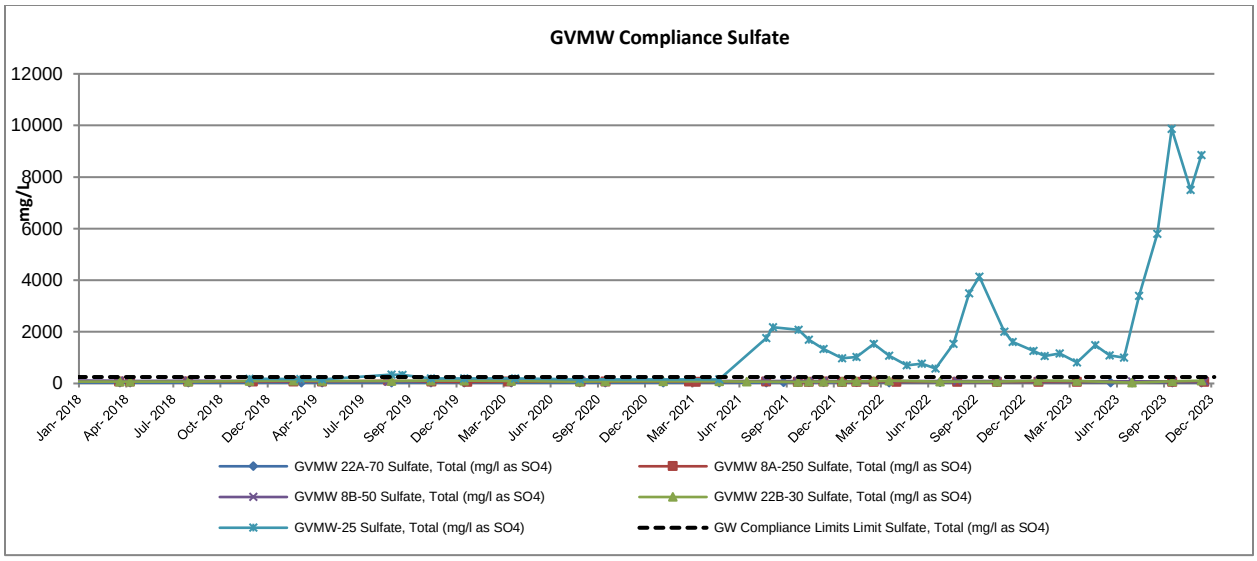


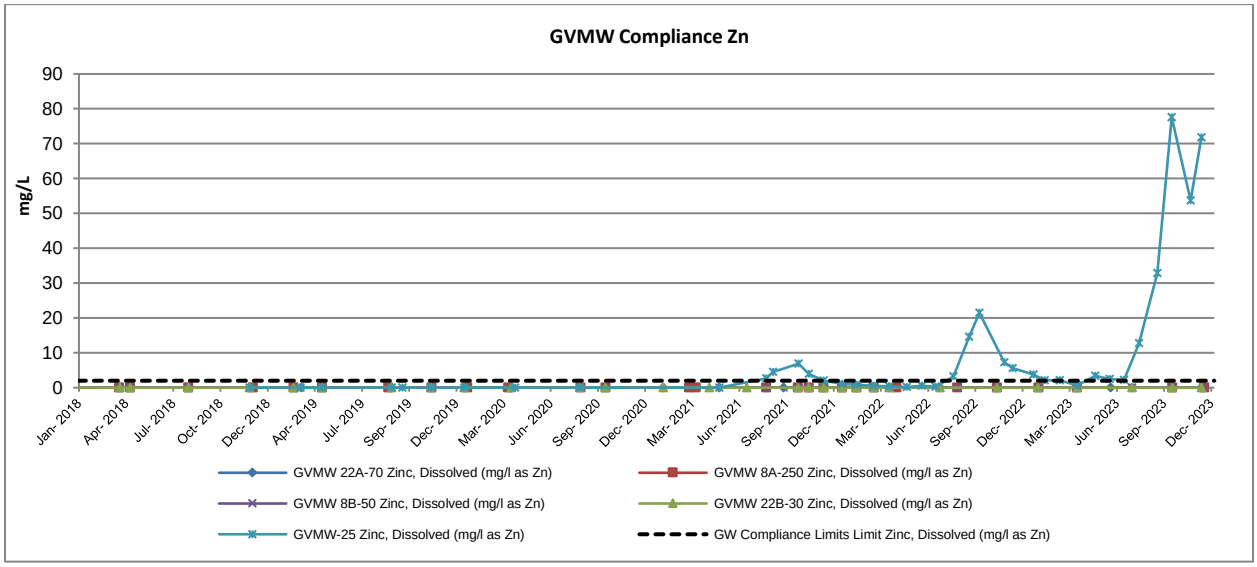


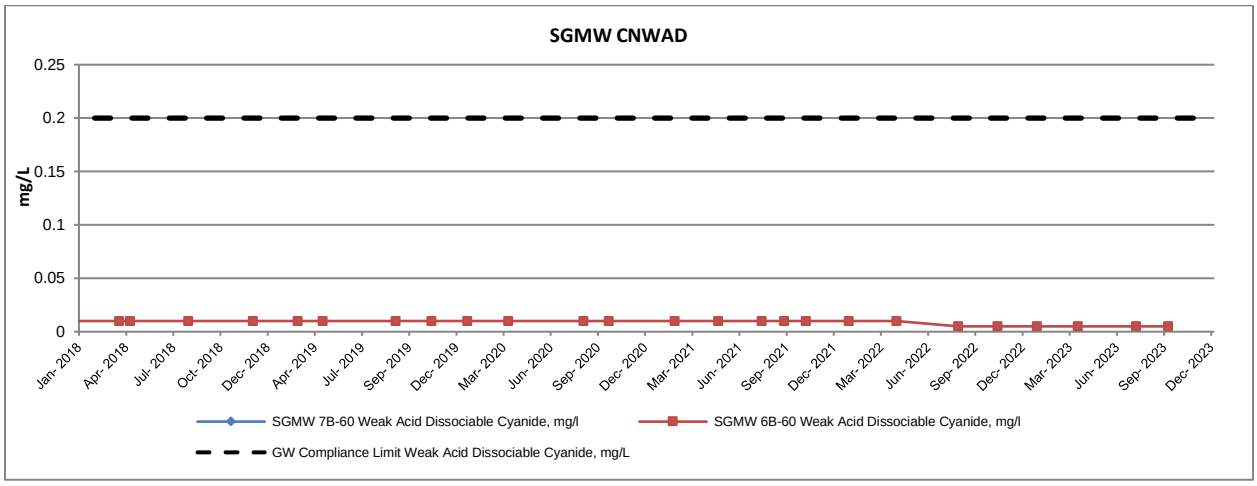


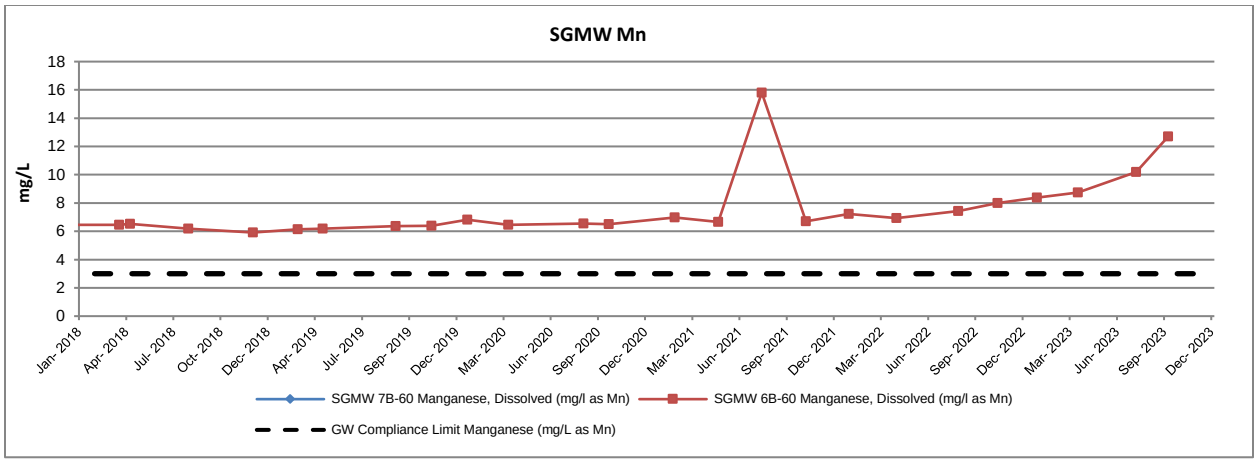


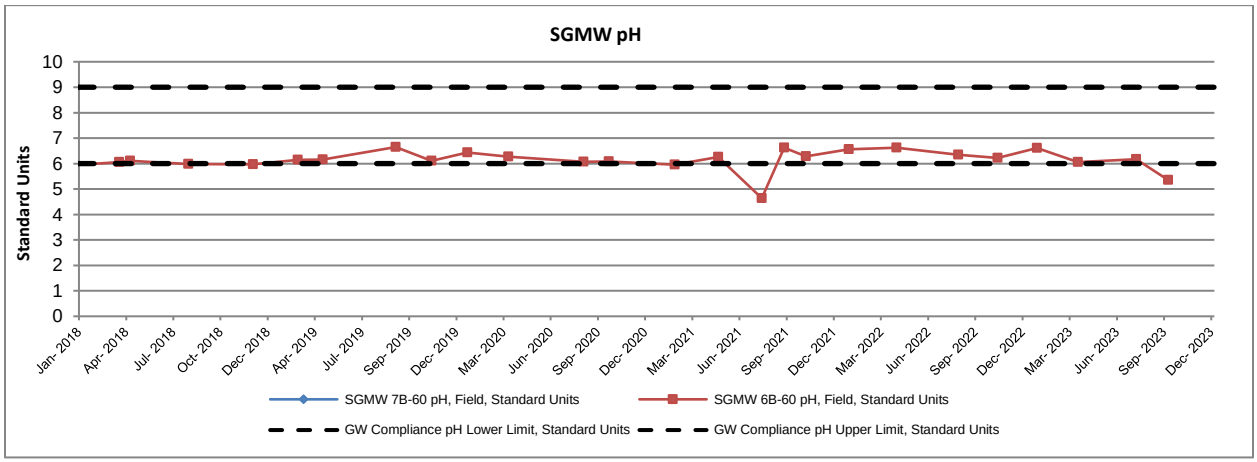


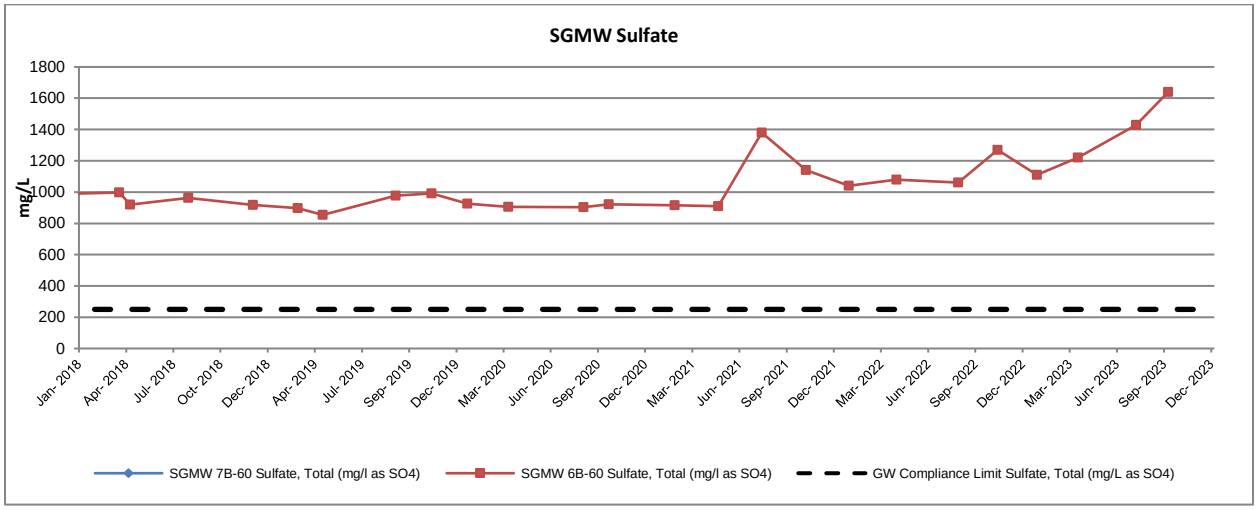


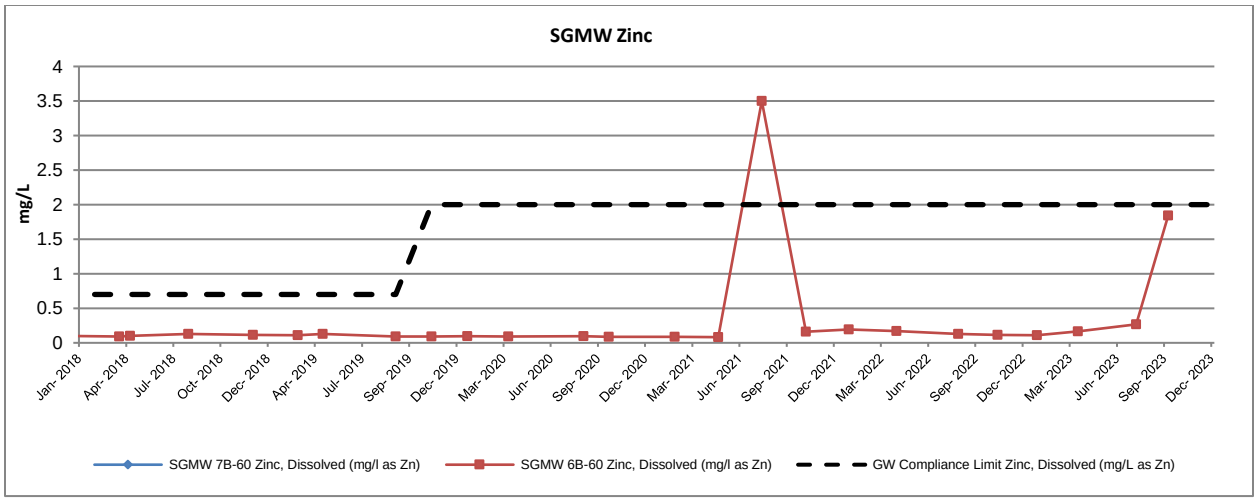


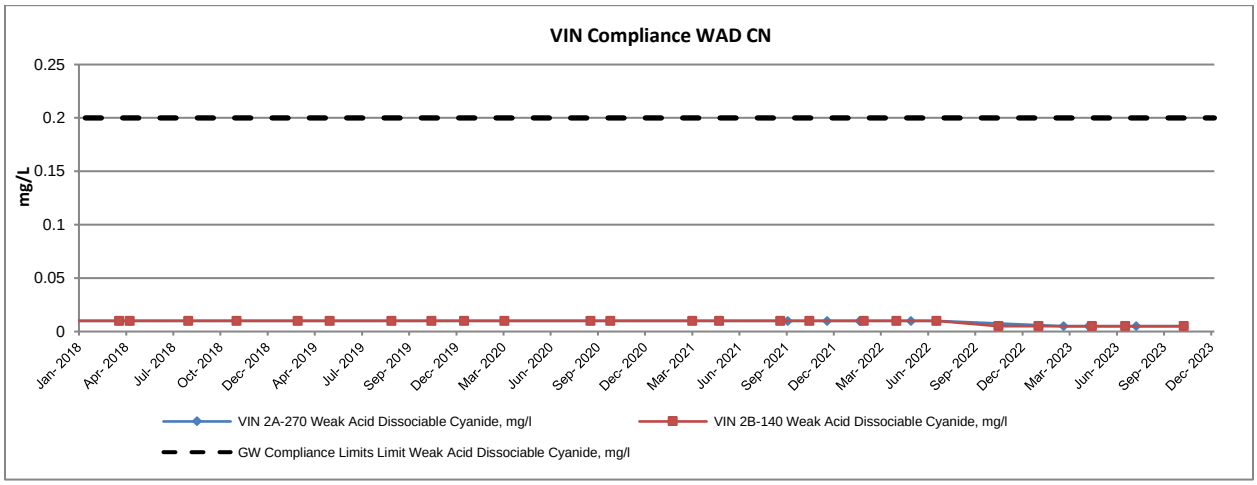


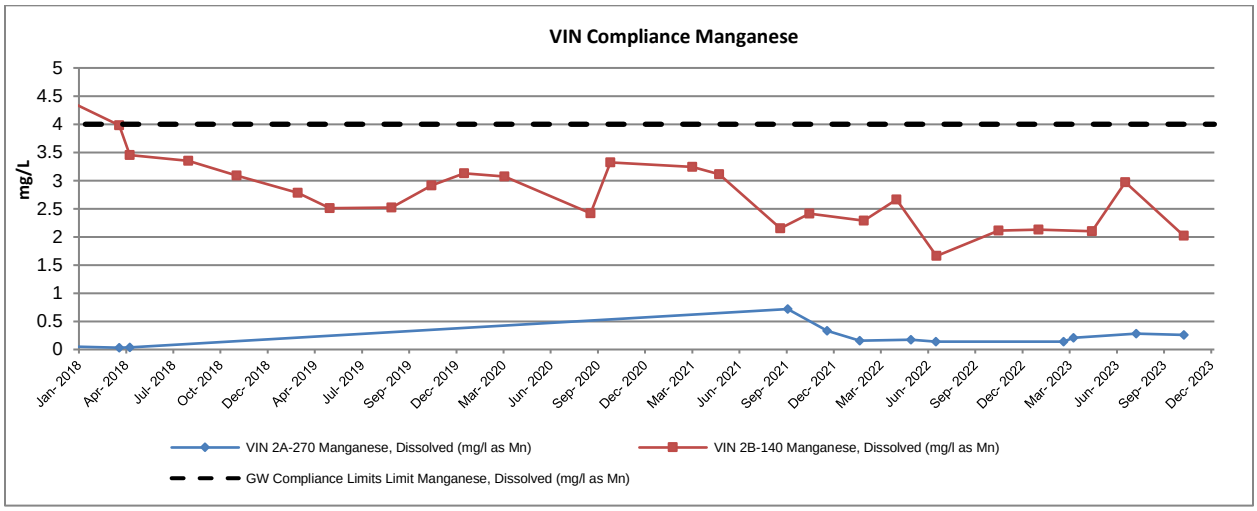


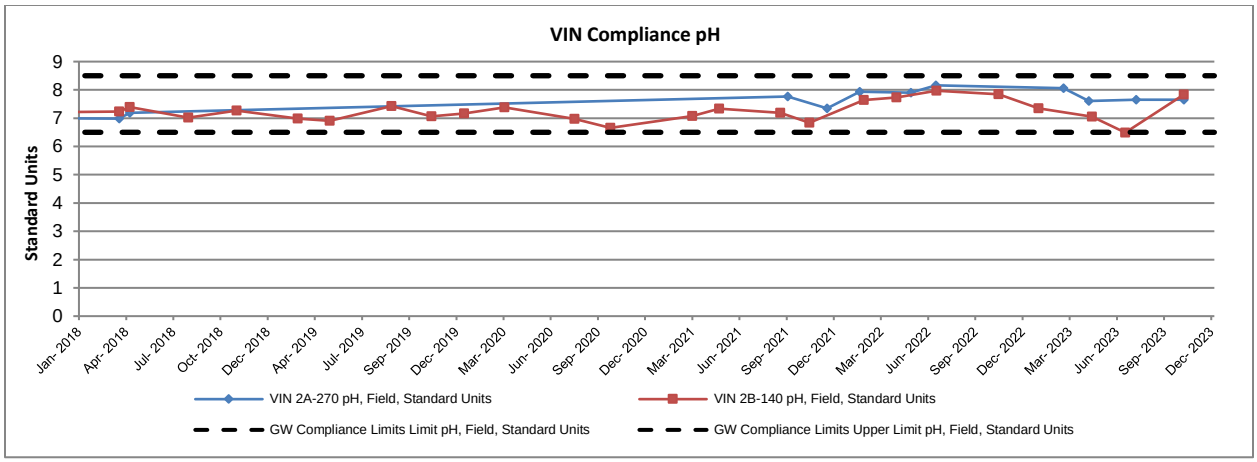


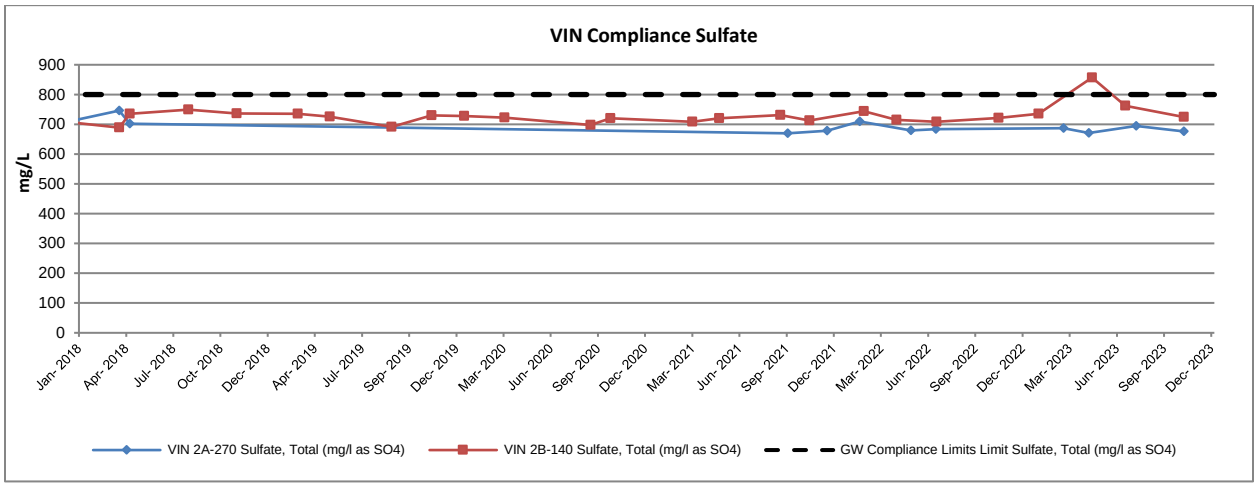


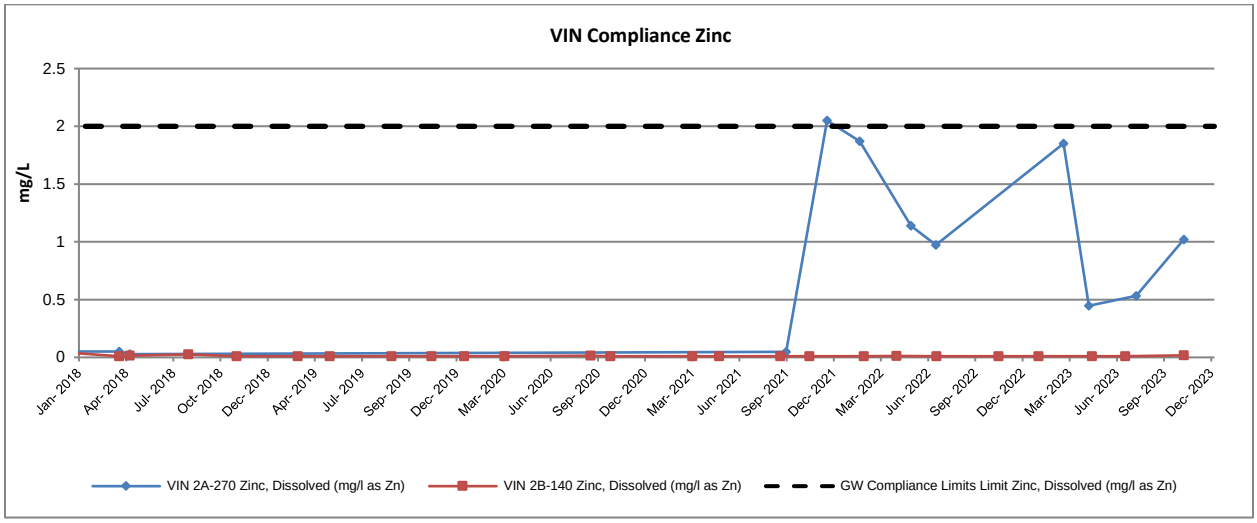


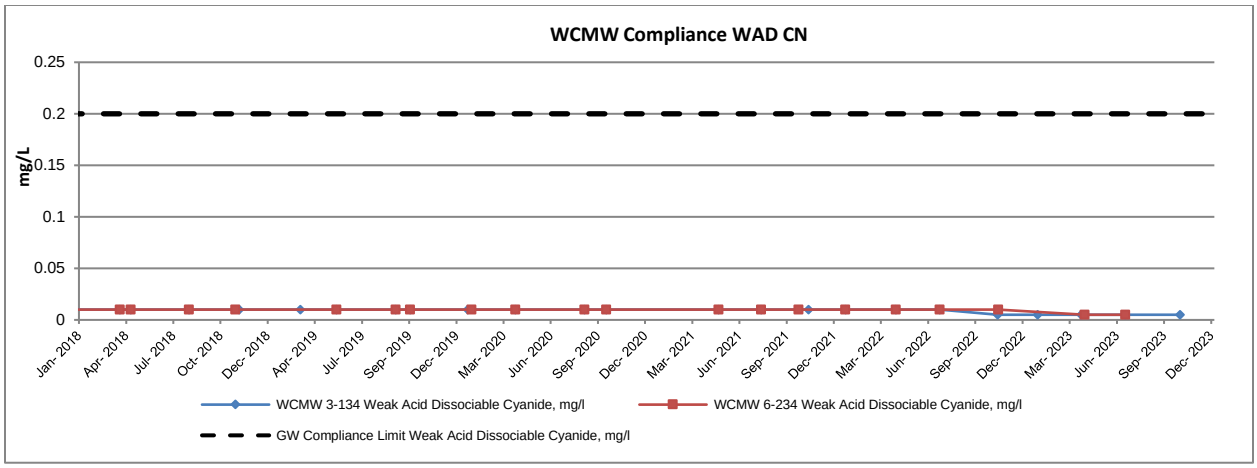


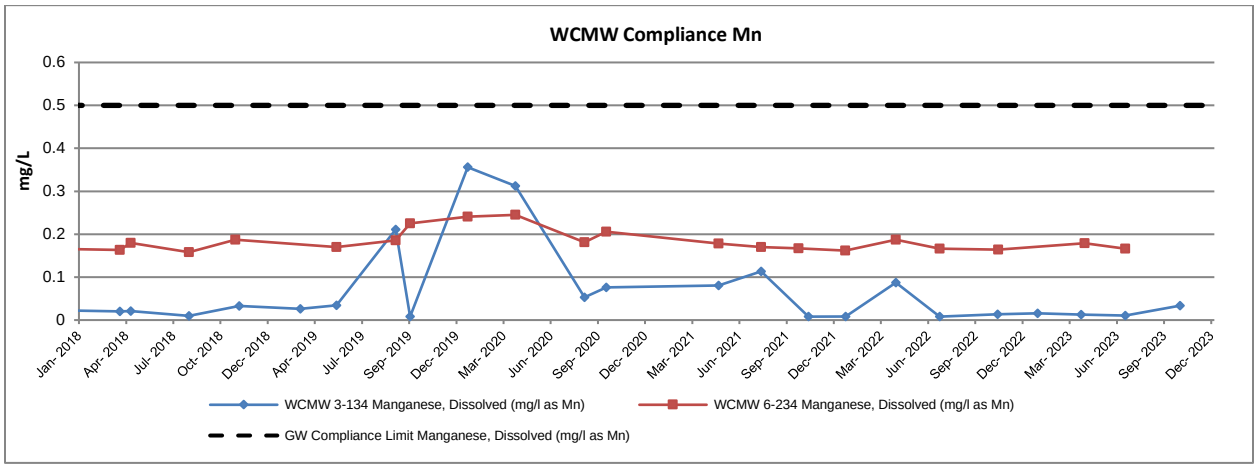


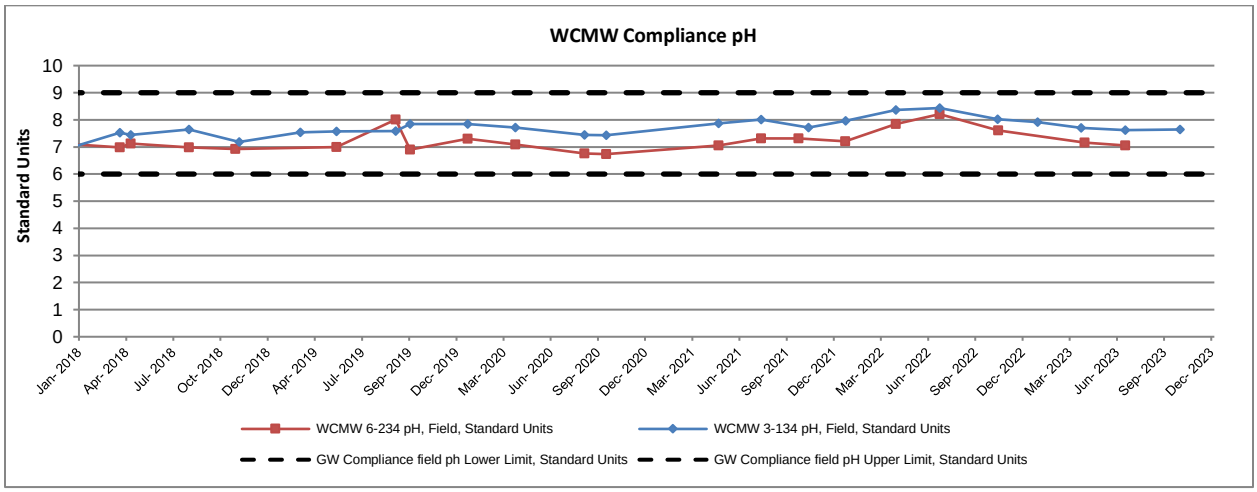


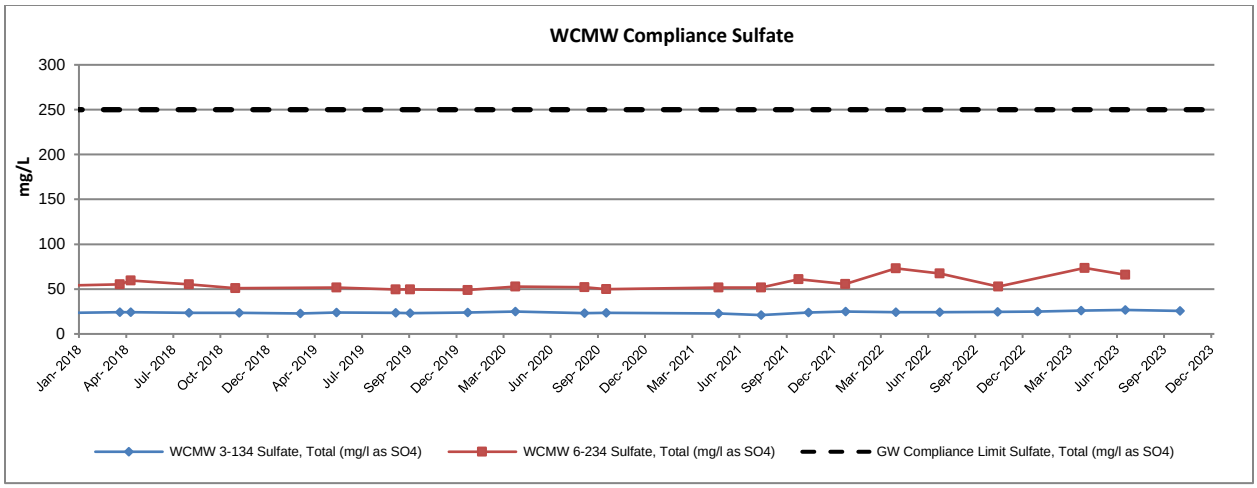


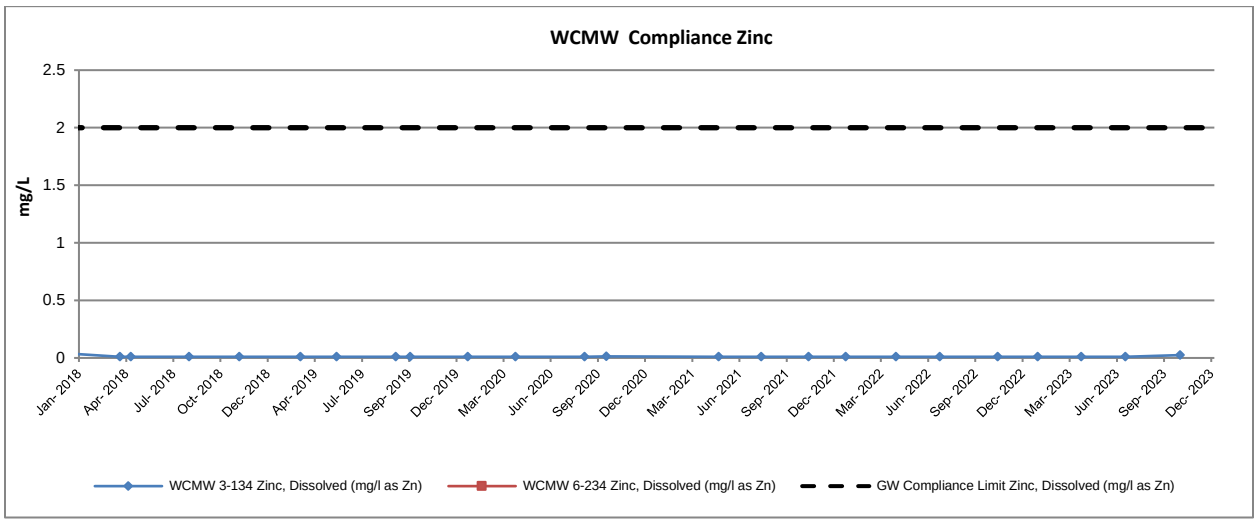












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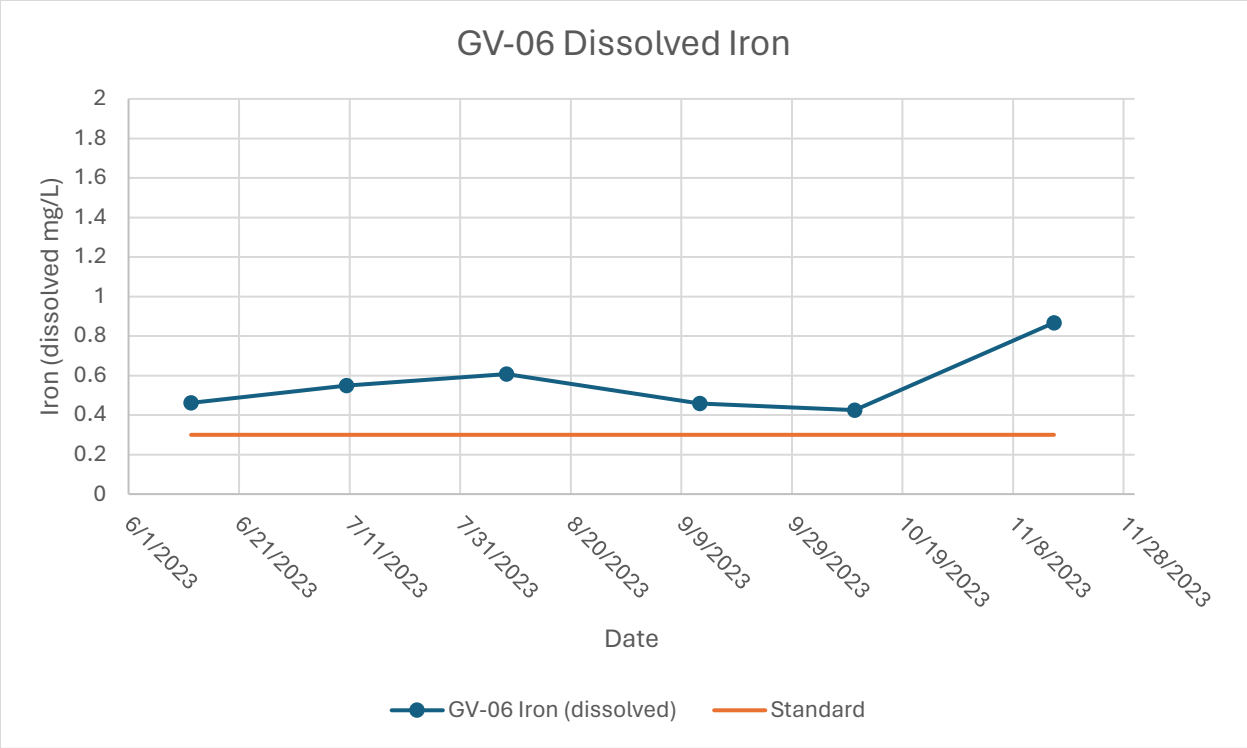
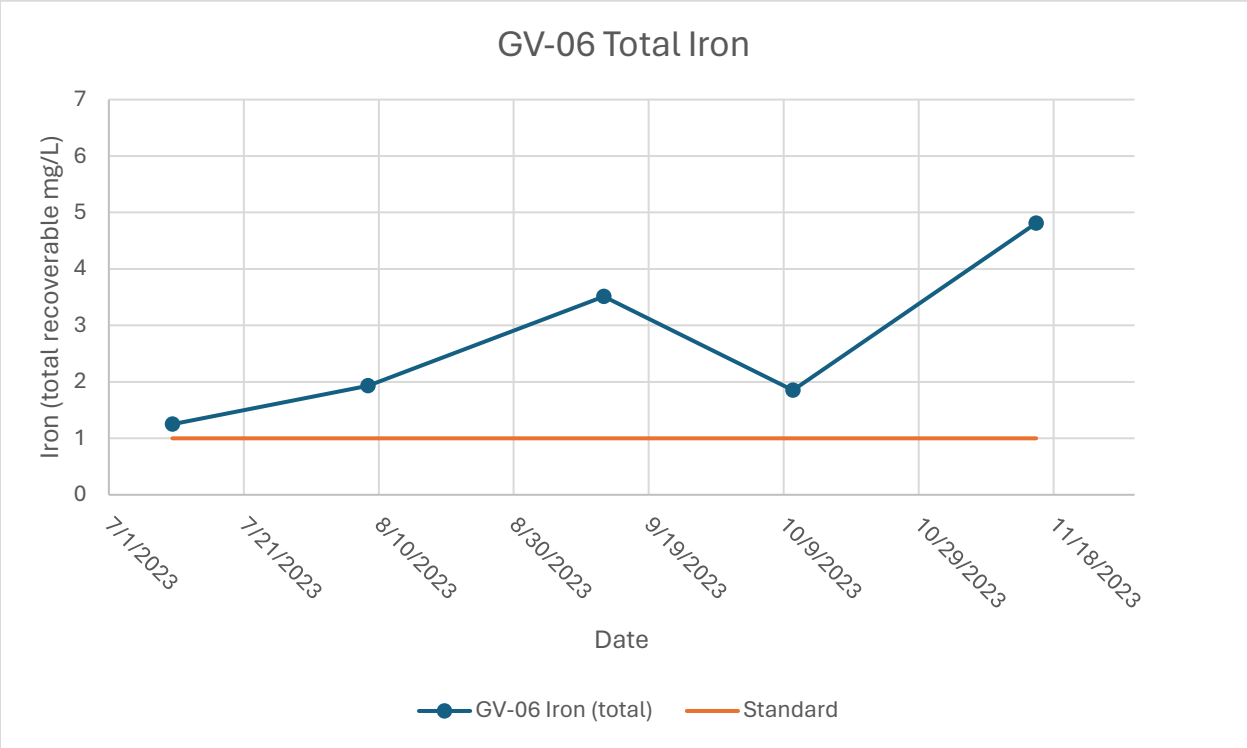
Enclosure B

GV-06 Graphs





GV-06 Graphs