Newmont
NORTH AMERICA

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

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March 28, 2024

SENT VIA EMAIL

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: Monthly Grassy Valley February 2024 Report Submission, March 28, 2024

Dear Mr. Russell,

Newmont Corporation's Cripple Creek & Victor Gold Mining Company (CC&V) hereby provides the Grassy Valley Monthly Monitoring Report, as required by the Division of Reclamation Mining and Safety (Division), beginning in the fourth quarter 2021. The monthly monitoring report has been expanded in response to the Corrective Actions Required; Grassy Valley GVMW-25 Monthly Sampling August 2022 issued to the Division on September 30, 2022. The monthly monitoring has been further expanded in response to the Additional Information Required and Issuance of Corrective Action, Grassy Valley Groundwater and Surface Water Monitoring Report September 2023, dated November 22, 2023. Data within this report has been collected as outlined in the Grassy Valley Monthly Monitoring Plan, approved as TR-132 by the Division on March 10, 2023. Additional information requested by DRMS on March 13, 2024 in the *Additional Surface Water Monitoring Locations* is not included in this report as the request was not received before the February monitoring period.

METHODOLOGY

In February 2024, CC&V monitored all accessible and applicable groundwater and surface water locations and collected all possible samples. During this monitoring period, CC&V secured a contract with a third party operator to maintain existing access and construct new access to all applicable monitoring locations, which was initiated at the end of February 2024. Maintenance activities included in the contract consist of snow removal and general maintenance. Prior to initiation of this contract, some locations were inaccessible during the February monitoring period due to snow accumulation and frozen conditions.

Table 1 provides a summary of the status of each monitoring location (groundwater and surface water). Monitoring locations are displayed on Location Maps (Figures).

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

- GVMW-4A was not sampled as the well was inaccessible due to snow accumulation blocking the original access route to the location. A new access road has been constructed (and maintained)

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to the location, but this was not completed until after the February monitoring event.

- GVMW-7B was not sampled due to insufficient water column within the well. Water column height was calculated to be 1.4 feet which was an insufficient volume to collect necessary representative samples. If similar conditions still exist during the March sampling event, CC&V plans to redevelop the well in April of 2024.
- GVMW-8B was not sampled due to insufficient water column within the well. Water column height was calculated to be 0.7 feet which was an insufficient volume to collect necessary samples. If similar conditions still exist during the March sampling event, CC&V plans to redevelop the well in April of 2024.
- GVMW-10 and GVMW-24B were dry and not sampled.
- GVMW-15C was not sampled as the well was dry. The well was gauged on 20 February and the depth of the well could not be determined (assumed to be >500 feet below ground surface (bgs) with the 500-foot water level indicator). The well was revisited in the March sampling event and gauged using the newly purchased 1,000-foot water level indicator and was determined to be dry at 440 feet bgs.
- GVMW-22A was not sampled due to water within the tubing and the well being frozen on 2/28/2024.
- GVMW-24A was not sampled due to sediment-laden water preventing the pump from evacuating the well. The well is scheduled to be reevaluated during the March 2024 sampling event and if needed redeveloped in April 2024.
- ECOSA Seep-1 and Seep-2 were frozen and not sampled.
- The surface water monitoring locations GV-02, GV-03, and GV-06 did not have any observed flowing water during the month of February and were not sampled. Per our communication dated 21 December 2023, GV-01 no longer exists.
- EMP-016, EMP-017, EMP-017A, EMP-017B, and EMP-020 were not sampled due to the locations being either frozen or full of snow (no standing water).

Groundwater Level Measurements

Prior to the collection of groundwater samples, depth to groundwater was measured using a 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 collected using either the low-flow, volumetric, or purge and return sampling methods described in the *Quality Assurance Project Plan (QAPP)* dated February 27, 2023.

Groundwater samples were collected by filling both preserved and unpreserved laboratory-supplied sample containers with the appropriate amount of water and then capping 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. 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) procedures were followed as described in Section 9.5 of the QAPP.

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QA/QC Samples

CC&V collected two quality assurance/quality control (QA/QC) samples in February 2024 (included in Attachment 2). One duplicate sample and one rinse blank sample were collected per section 6.0 of the approved QAPP.

RESULTS

Analytical results are compared to applicable standards in Table 2. Complete laboratory analytical reports from the February 2024 sampling event are included as Attachment 1 and field-collected data is presented on the sampling logs (Attachment 2).

DISCUSSION

Observed groundwater quality data continues to show similar trends to previously recorded data with constituent concentrations peaking around October, then declining throughout the year. Observed impacts of waste rock seepage from the East Cresson Overburden Storage Area (ECOSA) at GVMW-25 are consistent with previously reported data. Other potential seepage impacts to groundwater were observed in January 2024 at GVMW-15A and GVMW-15B (metals, sulfate, and low pH), two monitoring wells located at the toe of the ECOSA close to its northern extent. The more distant groundwater monitoring wells do not show impacts and the composition of the February 2024 samples is consistent with prior conditions. As all surface water bodies were frozen in January 2024, no samples were collected, and therefore there are no updates to the evaluation of runoff quality for the Grassy Valley.

Graphs of the trends in various analytes at the GVMW-25 monitoring location are presented in Attachment 3. In general, results at the GVMW-25 location showed decreasing concentrations of most analytes in February 2024 compared to prior months. Aluminum, beryllium, cadmium, chromium, cobalt, copper, iron, lead, manganese, nickel, sulfate, uranium, and zinc all show substantial decreases in concentration at the GVMW-25 location compared to the January 2024 results. Arsenic and selenium concentrations appear to be higher in the graphs compared to the January 2024 result, but these values were non-detect results and reflect a change in the detection limit. Antimony arsenic, selenium, thallium concentrations were below laboratory reporting limits, but it is noted that the dilution of the sample caused the detection limit concentrations to exceed the applicable standards. Ammonia, barium, boron, chloride, fluoride, lithium, mercury, molybdenum, pH, sodium, and vanadium are consistent with previous results.

Water quality monitoring results from wells GVMW-15A and GVMW-15B were consistent with previous records and suggest waste rock seepage continues to be present in shallow groundwater near the toe of the ECOSA at its northern extent. At the deeper well GVMW-15A (total depth 820 feet bgs) the groundwater exceeded applicable standards for iron (dissolved mg/L). At the shallower interval in GVMW-15A (total depth 102 feet bgs) the groundwater exceeded applicable standards for beryllium, cobalt, iron, lead, nickel, pH, sulfate and zinc.

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Should you require further information please do not hesitate to contact Joshua Adams at 719.323.0438 or Joshua.Adams@Newmont.com or myself at 719.851.4048 or Katie.Blake@Newmont.com

Sincerely,

DocuSigned by:
Katie Blake
5A3D013B629844B...

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

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

File: *"C:\Users\19012214\Newmont USA Limited\CC&V – S&ER Environmental - Environmental Compliance\Water\DRMS\Grassy Monthly\2024|2 – February 2024\Final"*

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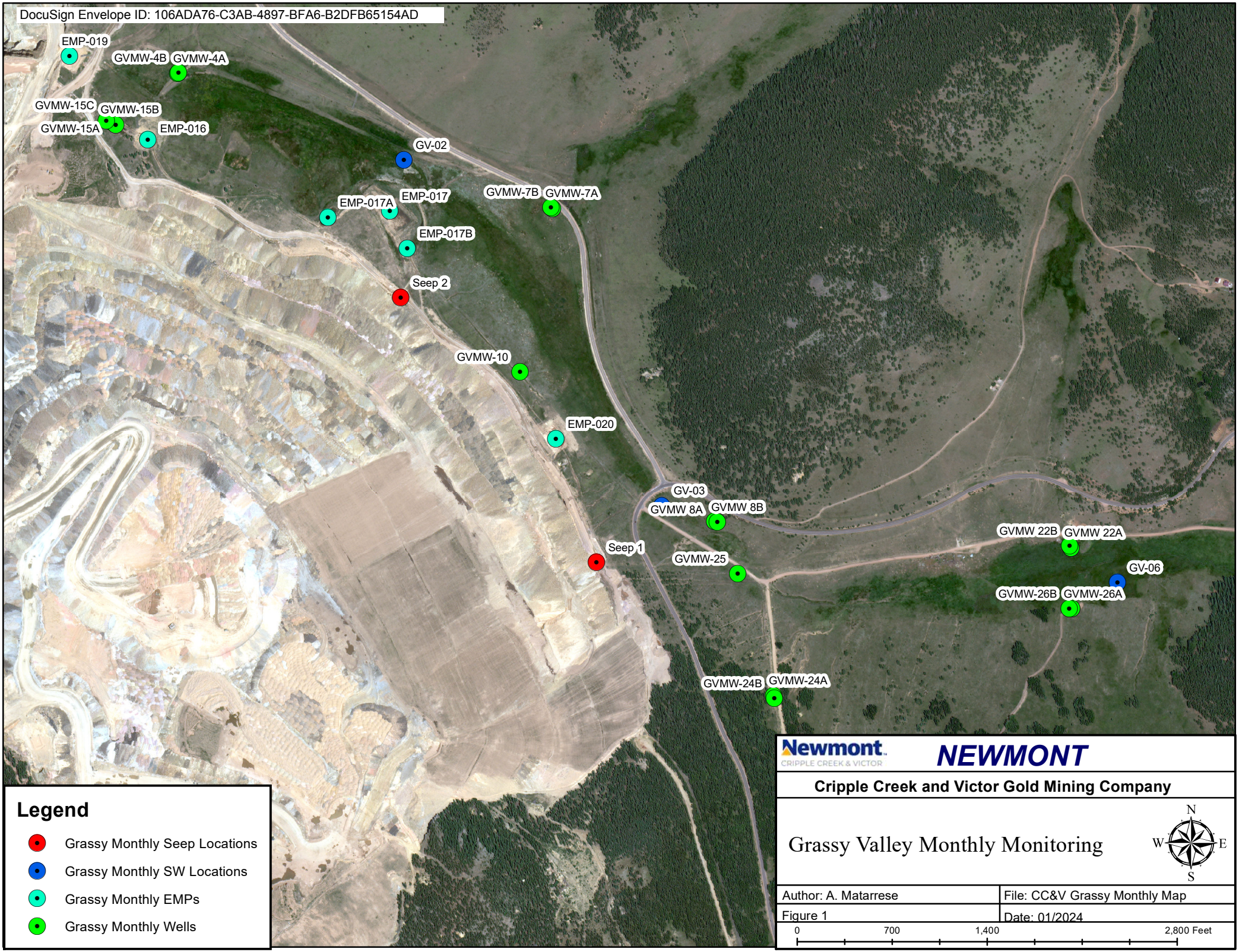
Figures



Legend

- Grassy Monthly Seep Locations
- Grassy Monthly SW Locations
- Grassy Monthly EMPs
- Grassy Monthly Wells

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Cripple Creek and Victor Gold Mining Company

Grassy Valley Monthly Monitoring

N W E S

Author: A. Matarrese	File: CC&V Grassy Monthly Map
Figure 1	Date: 01/2024

0 700 1,400 2,800 Feet

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Tables

Table 1
Grassy Valley Monthly Monitoring Locations
Cripple Creek and Victor Gold Mining Company

Monitoring Location	Date Monitored	Status
GVMW-4A	2/29/20204	Not Sampled, well inaccessible due to snow accumulation. Access road for this well was not completed until after the February sampling event.
GVMW-4B	NA	P&A
GVMW-7A	2/26/2024	Sampled
GVMW-7B	2/26/2024	NS-IW
GVMW-8A	2/28/2024	Sampled
GVMW-8B	2/28/2024	NS-IW. Water column in this well was calculated to be 0.7'
GVMW-10	2/29/2024	dry @ 245.5' BTOC
GVMW-15A	2/21/2024	Sampled
GVMW-15B	2/20/2024	Sampled
GVMW-15C	2/20/2024	Not Sampled, well was gauged on 2/20 and the depth of the well could not be determined (assumed to be > 500' bgs with the 500' water level indicator). Well was revisited in the March sampling event and gauged using the 1000' water level indicator and was determined to be dry at 440' bgs.
GVMW-22A	2/28/2024	Not sampled, tubing in well frozen
GVMW-22B	2/28/2024	Sampled
GVMW-24A	2/29/2024	Not sampled, sediment laden water preventing pumping of the well. The well is scheduled to be re-developed and evaluated.
GVMW-24B	2/26/2024	dry at 100' BTOC
GVMW-25	2/28/2024	Sampled
GMVW-26A	2/26/2024	Sampled
GVMW-26B	2/26/2024	Sampled
Ecosa Seep-1	2/5/2024	Frozen; no sample collected
Ecosa Seep-2	2/5/2024	Frozen; no sample collected
GV-02	2/5/2024	Dry
GV-03	2/5/2024	Dry
GV-06	2/5/2024 - 2/29/2024	Frozen no flowing water; no sample collected
EMP-016	2/5/2024	No standing water, location full of snow
EMP-017	2/5/2024	No standing water, location full of snow
EMP-017A	2/5/2024	Frozen; no sample collected
EMP-17B	2/5/2024	No standing water, location full of snow
EMP-020	2/5/2024	No standing water, location full of snow

Notes:
' - feet
BTOC - below top of casing
NS-IW - Not sampled due to insufficient water
P&A - Plugged and abandoned

Table 2
Grassy Valley Monthly Groundwater Analytical Results - February 2024
Cripple Creek and Victor Gold Mining Company

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D.	GVMW-7A	GVMW-8A*	GVMW-15A	GVMW-15B	GVMW-22B	GVMW-25	GMVW-26A	GMVW-26A
				Sample Date	2/26/2024	2/28/2024	2/21/2024	2/20/2024	2/28/2024	2/28/2024	2/26/2024	2/26/2024
Aluminium - Dissolved	5	**7**	mg/L		<0.080	<0.080	<0.080	1.23	<0.080	**358**	<0.080	<0.080
Ammonia	NA	NA	mg/L		<0.030	<0.030	0.404	<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	**<0.0720**	<0.00100	<0.00100
Arsenic - Dissolved	**0.01**	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**<0.0500**	<0.00100	<0.00100
Barium - Dissolved	**2**	NA	mg/L		0.152	<0.0020	0.0315	0.0145	0.0525	0.0132	0.19	0.117
Beryllium - Dissolved	**0.004**	NA	mg/L		<0.00200	<0.00200	<0.00200	**0.0674**	<0.00200	**0.29**	<0.00200	<0.00200
Boron - Total	**0.75**	NA	mg/L		<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400
Cadmium - Dissolved	**0.005**	**0.005**	mg/L		<0.0020	<0.0020	<0.0020	0.0032	<0.0020	**0.819**	<0.0020	<0.0020
Chloride - Total	**250**	NA	mg/L		5.16	65.2	1.29	0.75	5.93	25.4	6.04	1.81
Chromium - Dissolved	**0.1**	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0375	<0.0060	<0.0060
Cobalt - Dissolved	**0.05**	NA	mg/L		<0.0060	<0.0060	0.0083	**0.118**	<0.0060	**0.984**	<0.0060	<0.0060
Copper - Dissolved	**0.2**	**0.2**	mg/L		<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	**1.25**	<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
Cyanide - Total	NA	NA	mg/L		<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
Fluoride - Total F	**2**	**2**	mg/L		0.96	1.80	0.321	0.723	0.396	**40.3**	1.84	0.229
Iron - Dissolved	0.3	**14**	mg/L		1.13	<0.100	**23.9**	**33.6**	<0.100	0.401	<0.100	<0.100
Lead - Dissolved	**0.05**	NA	mg/L		<0.0075	<0.0075	<0.0075	**0.0816**	<0.0075	<0.0075	<0.0075	<0.0075
Lithium - Dissolved	**2.5**	NA	mg/L		<0.040	<0.040	<0.040	<0.040	<0.040	0.219	<0.040	<0.040
Manganese - Dissolved	0.05	**3**	mg/L		0.199	0.0091	0.791	2.22	<0.0080	**125**	0.0117	<0.0080
Mercury - Dissolved	**0.002**	**0.002**	mg/L		<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	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel - Dissolved	**0.1**	NA	mg/L		<0.0100	<0.0100	0.0309	**0.238**	<0.0100	**1.46**	<0.0100	<0.0100
Nitrate as Nitrogen	**10**	**10**	mg/L		<0.050	1.17	<0.050	<0.050	0.12	0.316	<0.050	0.611
Nitrite + Nitrate as Nitrogen	10	**11**	mg/L		<0.100	1.17	<0.100	<0.100	0.12	<0.500	<0.100	0.611
Nitrite as Nitrogen	**1**	**1**	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	<0.250	<0.050	<0.050
pH Field	6.5-8.5	**6.0-8.5**	pH units		7.41	6.69	6.97	**4.21**	6.57	**3.95**	7.85	6.35
Selenium - Dissolved	0.02	**0.024**	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**<0.0500**	<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
Sodium - Dissolved	NA	NA	mg/L		8.77	23.5	15.7	14.7	25.3	42.4	30.6	9.95
Sulfate - Total	**250**	NA	mg/L		17.3	58.8	75.9	**411**	110	**4,570**	12	21.6
Thallium - Dissolved	**0.002**	NA	mg/L		<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	**<0.0100**	<0.000200	<0.000200
Total Dissolved Solids	NA	NA	mg/L		164	285	141	641	236	6,100	173	98
Uranium - Dissolved	**0.03**	NA	mg/L		0.00361	0.00421	<0.000100	0.00824	0.00129	**1.13**	0.00341	<0.000100
Vanadium - Dissolved	**0.1**	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0114	<0.0050	<0.0050
Zinc - Dissolved	**2**	**2**	mg/L		<0.0100	<0.0100	0.023	**2.12**	<0.0100	**34.8**	<0.0100	<0.0100

Notes:
Applicable Standard vs. Non-applicable standard
* NPL of 1.0 mg/L for manganese and 6.5-8.5 for pH applies to GVMW-8A
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

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Attachment 1

Laboratory Analytical Data

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: **X4B0327**
Reported: 06-Mar-24 11:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-15A	X4B0327-01	Ground Water	21-Feb-24 11:29	PB	22-Feb-2024	

Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

Case Narrative: X4B0327

The state of origin only accredits for drinking water analyses.

Samples treated with $CdCO_3$ before CN analysis for sulfide interference at client request.

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: **X4B0327**
Reported: 06-Mar-24 11:09

Client Sample ID: **GVMW-15A**
SVL Sample ID: **X4B0327-01 (Ground Water)**

Sampled: 21-Feb-24 11:29
Received: 22-Feb-24
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**	8.70	mg/L	0.100	0.069		X409205	NMS	03/05/24 13:23	
EPA 200.7	**Magnesium**	8.17	mg/L	0.500	0.090		X409205	NMS	03/05/24 13:23	
EPA 200.7	**Potassium**	1.54	mg/L	0.50	0.18		X409205	NMS	03/05/24 13:23	
sm 2340B	**Hardness (as CaCO3)**	55.4	mg/L	2.31	0.543		N/A		03/04/24 16:00	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X409182	NMS	03/04/24 16:00	
EPA 200.7	**Barium**	0.0315	mg/L	0.0020	0.0019		X409182	NMS	03/04/24 16:00	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X409182	NMS	03/04/24 16:00	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X409182	NMS	03/04/24 16:00	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X409182	NMS	03/04/24 16:00	
EPA 200.7	**Calcium**	8.95	mg/L	0.100	0.069		X409182	NMS	03/04/24 16:00	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X409182	NMS	03/04/24 16:00	
EPA 200.7	**Cobalt**	0.0083	mg/L	0.0060	0.0046		X409182	NMS	03/04/24 16:00	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X409182	NMS	03/04/24 16:00	
EPA 200.7	**Iron**	23.9	mg/L	0.100	0.056		X409182	NMS	03/04/24 16:00	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X409182	NMS	03/04/24 16:00	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X409182	NMS	03/04/24 16:00	
EPA 200.7	**Magnesium**	8.64	mg/L	0.500	0.090		X409182	NMS	03/04/24 16:00	
EPA 200.7	**Manganese**	0.791	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 16:00	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 16:00	
EPA 200.7	**Nickel**	0.0309	mg/L	0.0100	0.0048		X409182	NMS	03/04/24 16:00	
EPA 200.7	**Potassium**	1.73	mg/L	0.50	0.18		X409182	NMS	03/04/24 16:00	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 16:00	
EPA 200.7	**Sodium**	15.7	mg/L	0.50	0.12		X409182	NMS	03/04/24 16:00	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 16:00	
EPA 200.7	**Zinc**	0.0230	mg/L	0.0100	0.0054		X409182	NMS	03/04/24 16:00	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X408194	SMU	02/26/24 18:42	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X408194	SMU	02/26/24 18:42	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X408194	SMU	02/26/24 18:42	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X408194	SMU	02/26/24 18:42	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X408194	SMU	02/26/24 18:42	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X409062	MAC	03/01/24 20:52	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X410024	DD	03/04/24 13:51	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X409004	DD	02/29/24 13:23	
EPA 350.1	**Ammonia as N**	0.404	mg/L	0.030	0.013		X409160	JRR	03/01/24 09:48	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X410025	DD	03/05/24 15:02	
SM 2310 B	**Acidity to pH 8.3**	-33.1	mg/L as CaCO3	10.0			X409078	MWD	02/29/24 11:49	
SM 2320 B	**Total Alkalinity**	26.6	mg/L as CaCO3	1.0			X409016	MWD	02/26/24 16:47	
SM 2320 B	**Bicarbonate**	26.6	mg/L as CaCO3	1.0			X409016	MWD	02/26/24 16:47	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X409016	MWD	02/26/24 16:47	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X409016	MWD	02/26/24 16:47	
SM 2540 C	**Total Diss. Solids**	141	mg/L	10			X408212	TJL	02/27/24 14:10	
SM 2540 D	**Total Susp. Solids**	53.0	mg/L	5.0			X408213	TJL	02/27/24 15:15	
SM 4500 H B	**pH @18.0°C**	6.2	pH Units				X409016	MWD	02/26/24 16:47	H5

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

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Work Order: **X4B0327**
Reported: 06-Mar-24 11:09

Client Sample ID: **GVMW-15A**
SVL Sample ID: **X4B0327-01 (Ground Water)**

Sampled: 21-Feb-24 11:29
Received: 22-Feb-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.29	mg/L	0.20	0.02		X408168	KAG	02/22/24 18:17	
EPA 300.0	**Fluoride**	0.321	mg/L	0.100	0.017		X408168	KAG	02/22/24 18:17	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X408168	KAG	02/22/24 18:17	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X408168	KAG	02/22/24 18:17	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X408168	KAG	02/22/24 18:17	
EPA 300.0	**Sulfate as SO4**	75.9	mg/L	3.00	1.80	10	X408168	KAG	02/22/24 18:35	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 2.75 meq/L Anion Sum: 2.17 meq/L C/A Balance: 11.89 % Calculated TDS: 128 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: **X4B0327**
Reported: 06-Mar-24 11:09

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	X409205	05-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X409205	05-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X409205	05-Mar-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X409182	04-Mar-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X409182	04-Mar-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X409182	04-Mar-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X409182	04-Mar-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X409182	04-Mar-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X409182	04-Mar-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X409182	04-Mar-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X409182	04-Mar-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X409182	04-Mar-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X409182	04-Mar-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X409182	04-Mar-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X409182	04-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X409182	04-Mar-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X409182	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X409182	04-Mar-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X409182	04-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X409182	04-Mar-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X409182	04-Mar-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X409182	04-Mar-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X409182	04-Mar-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X409182	04-Mar-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X408194	26-Feb-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X408194	26-Feb-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X408194	26-Feb-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X408194	26-Feb-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X408194	26-Feb-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X409062	01-Mar-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X410024	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X409004	29-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X409004	29-Feb-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X409160	01-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X410025	05-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X409078	29-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X409016	26-Feb-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X409016	26-Feb-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X409016	26-Feb-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X409016	26-Feb-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X408212	27-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X408213	27-Feb-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X408168	22-Feb-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X408168	22-Feb-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X408168	22-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X408168	22-Feb-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X408168	22-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X408168	22-Feb-24	

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Work Order: **X4B0327**
Reported: 06-Mar-24 11:09

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	19.6	20.0	98	85 - 115	X409205	05-Mar-24	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X409205	05-Mar-24	
EPA 200.7	Potassium	mg/L	19.9	20.0	99.3	85 - 115	X409205	05-Mar-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.966	1.00	96.6	85 - 115	X409182	04-Mar-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.06	1.00	106	85 - 115	X409182	04-Mar-24	
EPA 200.7	Boron	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Calcium	mg/L	20.2	20.0	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.02	1.00	102	85 - 115	X409182	04-Mar-24	
EPA 200.7	Cobalt	mg/L	0.995	1.00	99.5	85 - 115	X409182	04-Mar-24	
EPA 200.7	Copper	mg/L	1.02	1.00	102	85 - 115	X409182	04-Mar-24	
EPA 200.7	Iron	mg/L	10.3	10.0	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.00	1.00	100	85 - 115	X409182	04-Mar-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	99.8	85 - 115	X409182	04-Mar-24	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.03	1.00	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Nickel	mg/L	1.00	1.00	100	85 - 115	X409182	04-Mar-24	
EPA 200.7	Potassium	mg/L	20.7	20.0	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0492	0.0500	98.4	85 - 115	X409182	04-Mar-24	
EPA 200.7	Sodium	mg/L	19.2	19.0	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.04	1.00	104	85 - 115	X409182	04-Mar-24	
EPA 200.7	Zinc	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.8	Antimony	mg/L	0.0243	0.0250	97.2	85 - 115	X408194	26-Feb-24	
EPA 200.8	Arsenic	mg/L	0.0245	0.0250	97.9	85 - 115	X408194	26-Feb-24	
EPA 200.8	Selenium	mg/L	0.0238	0.0250	95.1	85 - 115	X408194	26-Feb-24	
EPA 200.8	Thallium	mg/L	0.0247	0.0250	98.8	85 - 115	X408194	26-Feb-24	
EPA 200.8	Uranium	mg/L	0.0244	0.0250	97.7	85 - 115	X408194	26-Feb-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00189	0.00200	94.3	85 - 115	X409062	01-Mar-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.100	97.0	90 - 110	X410024	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X409004	29-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	0.0950	0.100	95.0	90 - 110	X409004	29-Feb-24	
EPA 350.1	Ammonia as N	mg/L	0.979	1.00	97.9	90 - 110	X409160	01-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X410025	05-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1660	1640	101	95.4 - 104	X409078	29-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.7	99.3	99.4	96.4 - 105	X409016	26-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	400	397	101	96.4 - 105	X409016	26-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X408213	27-Feb-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.96	3.00	98.8	90 - 110	X408168	22-Feb-24	
EPA 300.0	Fluoride	mg/L	1.98	2.00	99.2	90 - 110	X408168	22-Feb-24	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	100	90 - 110	X408168	22-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.51	4.50	100	90 - 110	X408168	22-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.51	2.50	100	90 - 110	X408168	22-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X408168	22-Feb-24	

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Work Order: **X4B0327**
Reported: 06-Mar-24 11:09

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	853	853	0.0	20	X409078 - X4B0313-01	29-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	563	564	0.2	20	X409016 - X4B0357-01	26-Feb-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	563	564	0.2	20	X409016 - X4B0357-01	26-Feb-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X409016 - X4B0357-01	26-Feb-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X409016 - X4B0357-01	26-Feb-24	
SM 2540 C	Total Diss. Solids	mg/L	334	332	0.6	10	X408212 - X4B0338-06	27-Feb-24	
SM 2540 C	Total Diss. Solids	mg/L	349	334	4.4	10	X408212 - X4B0338-09	27-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X408213 - X4B0338-09	27-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X408213 - X4B0338-06	27-Feb-24	
SM 4500 H B	pH @18.2°C	pH Units	6.8	6.9	2.2	20	X409016 - X4B0357-01	26-Feb-24	R2B

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	28.6	8.70	20.0	100	70 - 130	X409205 - X4B0327-01	05-Mar-24	
EPA 200.7	Calcium	mg/L	556	524	20.0	0.30R>S	70 - 130	X409205 - X4B0372-01	05-Mar-24	D2,M4
EPA 200.7	Magnesium	mg/L	29.0	8.17	20.0	104	70 - 130	X409205 - X4B0327-01	05-Mar-24	
EPA 200.7	Magnesium	mg/L	215	199	20.0	80.1	70 - 130	X409205 - X4B0372-01	05-Mar-24	
EPA 200.7	Potassium	mg/L	21.3	1.54	20.0	98.9	70 - 130	X409205 - X4B0327-01	05-Mar-24	
EPA 200.7	Potassium	mg/L	103	83.8	20.0	96.6	70 - 130	X409205 - X4B0372-01	05-Mar-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.973	<0.080	1.00	97.3	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Aluminum	mg/L	2.27	1.23	1.00	104	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Barium	mg/L	1.03	<0.0020	1.00	103	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Barium	mg/L	1.04	0.0145	1.00	103	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.06	<0.00200	1.00	106	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.21	0.0674	1.00	114	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Boron	mg/L	1.08	<0.0400	1.00	107	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.01	<0.0020	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.09	0.0032	1.00	109	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Calcium	mg/L	20.5	0.164	20.0	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Calcium	mg/L	91.3	70.1	20.0	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.09	<0.0060	1.00	109	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Cobalt	mg/L	0.989	<0.0060	1.00	98.9	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Cobalt	mg/L	1.18	0.118	1.00	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Copper	mg/L	0.986	<0.0100	1.00	98.6	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Copper	mg/L	1.12	<0.0100	1.00	112	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Iron	mg/L	44.2	33.6	10.0	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Lead	mg/L	1.16	0.0816	1.00	108	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.11	<0.040	1.00	108	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Magnesium	mg/L	20.4	<0.500	20.0	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Magnesium	mg/L	58.2	37.3	20.0	105	70 - 130	X409182 - X4B0301-02	04-Mar-24	

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Victor, CO 80860

Work Order: **X4B0327**
Reported: 06-Mar-24 11:09

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	1.05	<0.0080	1.00	105	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Manganese	mg/L	3.38	2.22	1.00	117	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.10	<0.0080	1.00	110	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Nickel	mg/L	0.999	<0.0100	1.00	99.3	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Nickel	mg/L	1.30	0.238	1.00	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Potassium	mg/L	21.2	<0.50	20.0	105	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Potassium	mg/L	24.0	2.59	20.0	107	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0506	<0.0050	0.0500	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0512	<0.0050	0.0500	102	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Sodium	mg/L	19.6	<0.50	19.0	103	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Sodium	mg/L	34.4	14.7	19.0	104	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.12	<0.0050	1.00	112	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Zinc	mg/L	1.02	<0.0100	1.00	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Zinc	mg/L	3.12	2.12	1.00	101	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.8	Antimony	mg/L	0.0238	<0.00100	0.0250	95.3	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Antimony	mg/L	0.0283	<0.00100	0.0250	113	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Arsenic	mg/L	0.0240	<0.00100	0.0250	96.2	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Arsenic	mg/L	0.0289	<0.00100	0.0250	114	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Selenium	mg/L	0.0241	<0.00100	0.0250	96.3	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Selenium	mg/L	0.0291	<0.00100	0.0250	113	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Thallium	mg/L	0.0245	<0.000200	0.0250	98.0	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Thallium	mg/L	0.0262	<0.000200	0.0250	105	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Uranium	mg/L	0.0245	<0.000100	0.0250	98.0	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Uranium	mg/L	0.0384	0.0114	0.0250	108	70 - 130	X408194 - X4B0310-10	26-Feb-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00189	<0.000200	0.00200	94.3	70 - 130	X409062 - X4B0268-01	01-Mar-24	
EPA 245.1	Mercury	mg/L	0.00199	<0.000200	0.00200	99.2	70 - 130	X409062 - X4B0301-01	01-Mar-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	<0.0050	0.100	102	79 - 121	X410024 - X4B0274-01	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	100	90 - 110	X409004 - X4B0274-01	29-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	0.0988	<0.0050	0.100	98.8	90 - 110	X409004 - X4B0229-02	29-Feb-24	
EPA 350.1	Ammonia as N	mg/L	1.75	0.847	1.00	90.7	90 - 110	X409160 - X4B0357-10	01-Mar-24	
EPA 350.1	Ammonia as N	mg/L	2.96	2.10	1.00	85.8	90 - 110	X409160 - X4B0357-09	01-Mar-24	D2,M4
OIA 1677	Cyanide (WAD)	mg/L	0.0960	<0.0050	0.100	92.0	82 - 118	X410025 - X4B0274-01	05-Mar-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	9.74	6.63	3.00	104	90 - 110	X408168 - X4B0320-03	22-Feb-24	
EPA 300.0	Chloride	mg/L	14.6	12.3	3.00	0.30R>S	90 - 110	X408168 - X4B0320-05	22-Feb-24	D2,M4
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	97.7	90 - 110	X408168 - X4B0320-03	22-Feb-24	
EPA 300.0	Fluoride	mg/L	2.01	<0.100	2.00	96.7	90 - 110	X408168 - X4B0320-05	22-Feb-24	
EPA 300.0	Nitrate as N	mg/L	3.44	1.45	2.00	99.6	90 - 110	X408168 - X4B0320-03	22-Feb-24	
EPA 300.0	Nitrate as N	mg/L	3.68	1.67	2.00	101	90 - 110	X408168 - X4B0320-05	22-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.48	1.45	4.00	101	90 - 110	X408168 - X4B0320-03	22-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.73	1.67	4.00	102	90 - 110	X408168 - X4B0320-05	22-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X408168 - X4B0320-03	22-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	103	90 - 110	X408168 - X4B0320-05	22-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	20.3	10.2	10.0	101	90 - 110	X408168 - X4B0320-03	22-Feb-24	

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Work Order: **X4B0327**
Reported: 06-Mar-24 11:09

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	Sulfate as SO4	mg/L	22.1	11.9	10.0	102	90 - 110	X408168 - X4B0320-05	22-Feb-24	

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	28.8	28.6	20.0	0.6	20	100	X409205 - X4B0327-01	
EPA 200.7	Magnesium	mg/L	28.9	29.0	20.0	0.0	20	104	X409205 - X4B0327-01	
EPA 200.7	Potassium	mg/L	21.5	21.3	20.0	0.8	20	99.8	X409205 - X4B0327-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	0.973	1.00	4.2	20	101	X409182 - X4B0301-01	
EPA 200.7	Barium	mg/L	1.06	1.03	1.00	2.8	20	106	X409182 - X4B0301-01	
EPA 200.7	Beryllium	mg/L	1.06	1.06	1.00	0.6	20	106	X409182 - X4B0301-01	
EPA 200.7	Boron	mg/L	1.06	1.02	1.00	3.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Cadmium	mg/L	1.04	1.01	1.00	2.9	20	104	X409182 - X4B0301-01	
EPA 200.7	Calcium	mg/L	20.8	20.5	20.0	1.6	20	103	X409182 - X4B0301-01	
EPA 200.7	Chromium	mg/L	1.05	1.01	1.00	4.2	20	105	X409182 - X4B0301-01	
EPA 200.7	Cobalt	mg/L	1.02	0.989	1.00	2.9	20	102	X409182 - X4B0301-01	
EPA 200.7	Copper	mg/L	1.02	0.986	1.00	3.5	20	102	X409182 - X4B0301-01	
EPA 200.7	Iron	mg/L	10.5	10.4	10.0	1.2	20	105	X409182 - X4B0301-01	
EPA 200.7	Lead	mg/L	1.03	1.00	1.00	2.6	20	103	X409182 - X4B0301-01	
EPA 200.7	Lithium	mg/L	1.04	1.04	1.00	0.2	20	104	X409182 - X4B0301-01	
EPA 200.7	Magnesium	mg/L	21.0	20.4	20.0	2.9	20	105	X409182 - X4B0301-01	
EPA 200.7	Manganese	mg/L	1.06	1.05	1.00	0.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Molybdenum	mg/L	1.04	1.00	1.00	3.2	20	104	X409182 - X4B0301-01	
EPA 200.7	Nickel	mg/L	1.03	0.999	1.00	2.9	20	102	X409182 - X4B0301-01	
EPA 200.7	Potassium	mg/L	21.5	21.2	20.0	1.2	20	106	X409182 - X4B0301-01	
EPA 200.7	Silver	mg/L	0.0512	0.0506	0.0500	1.2	20	102	X409182 - X4B0301-01	
EPA 200.7	Sodium	mg/L	19.9	19.6	19.0	1.4	20	105	X409182 - X4B0301-01	
EPA 200.7	Vanadium	mg/L	1.06	1.01	1.00	4.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Zinc	mg/L	1.05	1.02	1.00	2.9	20	105	X409182 - X4B0301-01	
EPA 200.8	Antimony	mg/L	0.0238	0.0238	0.0250	0.1	20	95.2	X408194 - X4B0301-01	
EPA 200.8	Arsenic	mg/L	0.0245	0.0240	0.0250	1.8	20	97.9	X408194 - X4B0301-01	
EPA 200.8	Selenium	mg/L	0.0237	0.0241	0.0250	1.5	20	94.8	X408194 - X4B0301-01	
EPA 200.8	Thallium	mg/L	0.0246	0.0245	0.0250	0.5	20	98.5	X408194 - X4B0301-01	
EPA 200.8	Uranium	mg/L	0.0244	0.0245	0.0250	0.4	20	97.5	X408194 - X4B0301-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00171	0.00189	0.00200	10.1	20	85.2	X409062 - X4B0268-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.102	0.100	4.0	11	98.0	X410024 - X4B0274-01	
EPA 335.4	Cyanide (total)	mg/L	0.0978	0.100	0.100	2.6	20	97.8	X409004 - X4B0274-01	
EPA 350.1	Ammonia as N	mg/L	3.01	2.96	1.00	1.6	20	90.7	X409160 - X4B0357-09	D2
OIA 1677	Cyanide (WAD)	mg/L	0.0980	0.0960	0.100	2.1	11	94.0	X410025 - X4B0274-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	14.8	14.6	3.00	1.1	20	0.30R>S	X408168 - X4B0320-05	D2,M4
EPA 300.0	Fluoride	mg/L	2.05	2.01	2.00	2.0	20	98.8	X408168 - X4B0320-05	
EPA 300.0	Nitrate as N	mg/L	3.72	3.68	2.00	1.0	20	102	X408168 - X4B0320-05	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.81	5.73	4.00	1.3	20	103	X408168 - X4B0320-05	
EPA 300.0	Nitrite as N	mg/L	2.09	2.05	2.00	1.8	20	104	X408168 - X4B0320-05	

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

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Work Order: **X4B0327**
Reported: 06-Mar-24 11:09

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
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	22.3	22.1	10.0	0.8	20	104	X408168 - X4B0320-05	

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Work Order: **X4B0327**
Reported: 06-Mar-24 11:09

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.
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: **X4B0301**
Reported: 06-Mar-24 11:16

Client Sample ID: **GVMW-15B**
SVL Sample ID: **X4B0301-02 (Ground Water)**

Sampled: 20-Feb-24 10:31
Received: 21-Feb-24
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**	62.8	mg/L	0.100	0.069		X409124	NMS	03/01/24 13:04	
EPA 200.7	**Magnesium**	34.4	mg/L	0.500	0.090		X409124	NMS	03/01/24 13:04	
EPA 200.7	**Potassium**	2.43	mg/L	0.50	0.18		X409124	NMS	03/04/24 11:29	
SM 2340 B	**Hardness (as CaCO3)**	298	mg/L	2.31	0.543		N/A		03/04/24 12:59	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	1.23	mg/L	0.080	0.054		X409182	NMS	03/04/24 12:59	
EPA 200.7	**Barium**	0.0145	mg/L	0.0020	0.0019		X409182	NMS	03/04/24 12:59	
EPA 200.7	**Beryllium**	0.0674	mg/L	0.00200	0.00080		X409182	NMS	03/04/24 12:59	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X409182	NMS	03/04/24 12:59	
EPA 200.7	**Cadmium**	0.0032	mg/L	0.0020	0.0016		X409182	NMS	03/04/24 12:59	
EPA 200.7	**Calcium**	70.1	mg/L	0.100	0.069		X409182	NMS	03/04/24 12:59	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X409182	NMS	03/04/24 12:59	
EPA 200.7	**Cobalt**	0.118	mg/L	0.0060	0.0046		X409182	NMS	03/04/24 12:59	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X409182	NMS	03/04/24 12:59	
EPA 200.7	**Iron**	33.6	mg/L	0.100	0.056		X409182	NMS	03/04/24 12:59	
EPA 200.7	**Lead**	0.0816	mg/L	0.0075	0.0049		X409182	NMS	03/04/24 12:59	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X409182	NMS	03/04/24 12:59	
EPA 200.7	**Magnesium**	37.3	mg/L	0.500	0.090		X409182	NMS	03/04/24 12:59	
EPA 200.7	**Manganese**	2.22	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 12:59	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 12:59	
EPA 200.7	**Nickel**	0.238	mg/L	0.0100	0.0048		X409182	NMS	03/04/24 12:59	
EPA 200.7	**Potassium**	2.59	mg/L	0.50	0.18		X409182	NMS	03/04/24 12:59	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 12:59	
EPA 200.7	**Sodium**	14.7	mg/L	0.50	0.12		X409182	NMS	03/04/24 12:59	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 12:59	
EPA 200.7	**Zinc**	2.12	mg/L	0.0100	0.0054		X409182	NMS	03/04/24 12:59	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X408194	SMU	02/26/24 16:04	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X408194	SMU	02/26/24 16:04	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X408194	SMU	02/26/24 16:04	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X408194	SMU	02/26/24 16:04	
EPA 200.8	**Uranium**	0.00824	mg/L	0.000100	0.000052		X408194	SMU	02/26/24 16:04	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X409062	MAC	03/01/24 20:44	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X410024	DD	03/04/24 13:47	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X409004	DD	02/29/24 13:07	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X409163	DD	03/01/24 11:44	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X410025	DD	03/05/24 14:59	
SM 2310 B	**Acidity to pH 8.3**	63.2	mg/L as CaCO3	10.0			X408182	MWD	02/23/24 11:14	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 16:59	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 16:59	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 16:59	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 16:59	
SM 2540 C	**Total Diss. Solids**	641	mg/L	10			X408140	TJL	02/23/24 14:30	
SM 2540 D	**Total Susp. Solids**	7.0	mg/L	5.0			X408141	TJL	02/27/24 14:50	
SM 4500 H B	**pH @19.2°C**	3.8	pH Units				X408158	MWD	02/22/24 16:59	H5

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

Client Sample ID: **GVMW-15B**
SVL Sample ID: **X4B0301-02 (Ground Water)**

Sampled: 20-Feb-24 10:31
Received: 21-Feb-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.75	mg/L	0.20	0.02		X408135	RS	02/21/24 16:00	
EPA 300.0	**Fluoride**	0.723	mg/L	0.100	0.017		X408135	RS	02/21/24 16:00	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X408135	RS	02/21/24 16:00	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X408135	RS	02/21/24 16:00	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X408135	RS	02/21/24 16:00	
EPA 300.0	**Sulfate as SO4**	411	mg/L	3.00	1.80	10	X408135	RS	02/21/24 16:18	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 8.16 meq/L Anion Sum: 8.64 meq/L C/A Balance: -2.87 % Calculated TDS: 532 TDS/cTDS: 1.20

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
Post Office Box 191
Victor, CO 80860

Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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	X409124	01-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X409124	01-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X409124	04-Mar-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X409182	04-Mar-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X409182	04-Mar-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X409182	04-Mar-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X409182	04-Mar-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X409182	04-Mar-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X409182	04-Mar-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X409182	04-Mar-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X409182	04-Mar-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X409182	04-Mar-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X409182	04-Mar-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X409182	04-Mar-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X409182	04-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X409182	04-Mar-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X409182	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X409182	04-Mar-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X409182	04-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X409182	04-Mar-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X409182	04-Mar-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X409182	04-Mar-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X409182	04-Mar-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X409182	04-Mar-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X408194	26-Feb-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X408194	26-Feb-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X408194	26-Feb-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X408194	26-Feb-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X408194	26-Feb-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X409062	01-Mar-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X410024	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X409004	29-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X409004	29-Feb-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X409163	01-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X410025	05-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X408182	23-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X408158	22-Feb-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X408158	22-Feb-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X408158	22-Feb-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X408158	22-Feb-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X408140	23-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X408141	27-Feb-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X408135	21-Feb-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X408135	21-Feb-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X408135	21-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X408135	21-Feb-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X408135	21-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X408135	21-Feb-24	

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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	98	85 - 115	X409124	01-Mar-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.7	85 - 115	X409124	01-Mar-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	101	85 - 115	X409124	04-Mar-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.966	1.00	96.6	85 - 115	X409182	04-Mar-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.06	1.00	106	85 - 115	X409182	04-Mar-24	
EPA 200.7	Boron	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Calcium	mg/L	20.2	20.0	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.02	1.00	102	85 - 115	X409182	04-Mar-24	
EPA 200.7	Cobalt	mg/L	0.995	1.00	99.5	85 - 115	X409182	04-Mar-24	
EPA 200.7	Copper	mg/L	1.02	1.00	102	85 - 115	X409182	04-Mar-24	
EPA 200.7	Iron	mg/L	10.3	10.0	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.00	1.00	100	85 - 115	X409182	04-Mar-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	99.8	85 - 115	X409182	04-Mar-24	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.03	1.00	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Nickel	mg/L	1.00	1.00	100	85 - 115	X409182	04-Mar-24	
EPA 200.7	Potassium	mg/L	20.7	20.0	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0492	0.0500	98.4	85 - 115	X409182	04-Mar-24	
EPA 200.7	Sodium	mg/L	19.2	19.0	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.04	1.00	104	85 - 115	X409182	04-Mar-24	
EPA 200.7	Zinc	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.8	Antimony	mg/L	0.0243	0.0250	97.2	85 - 115	X408194	26-Feb-24	
EPA 200.8	Arsenic	mg/L	0.0245	0.0250	97.9	85 - 115	X408194	26-Feb-24	
EPA 200.8	Selenium	mg/L	0.0238	0.0250	95.1	85 - 115	X408194	26-Feb-24	
EPA 200.8	Thallium	mg/L	0.0247	0.0250	98.8	85 - 115	X408194	26-Feb-24	
EPA 200.8	Uranium	mg/L	0.0244	0.0250	97.7	85 - 115	X408194	26-Feb-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00189	0.00200	94.3	85 - 115	X409062	01-Mar-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.100	97.0	90 - 110	X410024	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X409004	29-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	0.0950	0.100	95.0	90 - 110	X409004	29-Feb-24	
EPA 350.1	Ammonia as N	mg/L	0.979	1.00	97.9	90 - 110	X409163	01-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X410025	05-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1630	1640	99.1	95.4 - 104	X408182	23-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X408158	22-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.1	99.3	99.8	96.4 - 105	X408158	22-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X408141	27-Feb-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.98	3.00	99.3	90 - 110	X408135	21-Feb-24	
EPA 300.0	Fluoride	mg/L	1.99	2.00	99.4	90 - 110	X408135	21-Feb-24	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	100	90 - 110	X408135	21-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.51	4.50	100	90 - 110	X408135	21-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	100	90 - 110	X408135	21-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X408135	21-Feb-24	

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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	X408182 - X4B0224-01	23-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X408158 - X4B0301-03	22-Feb-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X408158 - X4B0301-03	22-Feb-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X408158 - X4B0301-03	22-Feb-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X408158 - X4B0301-03	22-Feb-24	
SM 2540 C	Total Diss. Solids	mg/L	265	280	5.5	10	X408140 - X4B0300-02	23-Feb-24	
SM 2540 C	Total Diss. Solids	mg/L	631	641	1.6	10	X408140 - X4B0301-02	23-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	7.0	7.0	0.0	10	X408141 - X4B0301-02	27-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X408141 - X4B0300-02	27-Feb-24	
SM 4500 H B	pH @19.4°C	pH Units	3.5	3.7	5.0	20	X408158 - X4B0301-03	22-Feb-24	R2B

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	70.4	50.4	20.0	100	70 - 130	X409124 - X4B0284-01	01-Mar-24	
EPA 200.7	Calcium	mg/L	57.8	38.1	20.0	98	70 - 130	X409124 - X4B0322-02	01-Mar-24	
EPA 200.7	Magnesium	mg/L	26.0	5.91	20.0	101	70 - 130	X409124 - X4B0284-01	01-Mar-24	
EPA 200.7	Magnesium	mg/L	24.0	4.46	20.0	97.9	70 - 130	X409124 - X4B0322-02	01-Mar-24	
EPA 200.7	Potassium	mg/L	38.2	18.3	20.0	99.3	70 - 130	X409124 - X4B0284-01	04-Mar-24	
EPA 200.7	Potassium	mg/L	32.8	13.3	20.0	97.4	70 - 130	X409124 - X4B0322-02	04-Mar-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.973	<0.080	1.00	97.3	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Aluminum	mg/L	2.27	1.23	1.00	104	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Barium	mg/L	1.03	<0.0020	1.00	103	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Barium	mg/L	1.04	0.0145	1.00	103	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.06	<0.00200	1.00	106	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.21	0.0674	1.00	114	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Boron	mg/L	1.08	<0.0400	1.00	107	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.01	<0.0020	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.09	0.0032	1.00	109	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Calcium	mg/L	20.5	0.164	20.0	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Calcium	mg/L	91.3	70.1	20.0	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.09	<0.0060	1.00	109	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Cobalt	mg/L	0.989	<0.0060	1.00	98.9	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Cobalt	mg/L	1.18	0.118	1.00	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Copper	mg/L	0.986	<0.0100	1.00	98.6	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Copper	mg/L	1.12	<0.0100	1.00	112	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Iron	mg/L	44.2	33.6	10.0	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Lead	mg/L	1.16	0.0816	1.00	108	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.11	<0.040	1.00	108	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Magnesium	mg/L	20.4	<0.500	20.0	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Magnesium	mg/L	58.2	37.3	20.0	105	70 - 130	X409182 - X4B0301-02	04-Mar-24	

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Newmont - Cripple Creek & Victor
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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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	1.05	<0.0080	1.00	105	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Manganese	mg/L	3.38	2.22	1.00	117	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.10	<0.0080	1.00	110	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Nickel	mg/L	0.999	<0.0100	1.00	99.3	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Nickel	mg/L	1.30	0.238	1.00	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Potassium	mg/L	21.2	<0.50	20.0	105	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Potassium	mg/L	24.0	2.59	20.0	107	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0506	<0.0050	0.0500	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0512	<0.0050	0.0500	102	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Sodium	mg/L	19.6	<0.50	19.0	103	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Sodium	mg/L	34.4	14.7	19.0	104	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.12	<0.0050	1.00	112	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Zinc	mg/L	1.02	<0.0100	1.00	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Zinc	mg/L	3.12	2.12	1.00	101	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.8	Antimony	mg/L	0.0238	<0.00100	0.0250	95.3	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Antimony	mg/L	0.0283	<0.00100	0.0250	113	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Arsenic	mg/L	0.0240	<0.00100	0.0250	96.2	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Arsenic	mg/L	0.0289	<0.00100	0.0250	114	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Selenium	mg/L	0.0241	<0.00100	0.0250	96.3	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Selenium	mg/L	0.0291	<0.00100	0.0250	113	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Thallium	mg/L	0.0245	<0.000200	0.0250	98.0	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Thallium	mg/L	0.0262	<0.000200	0.0250	105	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Uranium	mg/L	0.0245	<0.000100	0.0250	98.0	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Uranium	mg/L	0.0384	0.0114	0.0250	108	70 - 130	X408194 - X4B0310-10	26-Feb-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00189	<0.000200	0.00200	94.3	70 - 130	X409062 - X4B0268-01	01-Mar-24	
EPA 245.1	Mercury	mg/L	0.00199	<0.000200	0.00200	99.2	70 - 130	X409062 - X4B0301-01	01-Mar-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	<0.0050	0.100	102	79 - 121	X410024 - X4B0274-01	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	100	90 - 110	X409004 - X4B0274-01	29-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	0.0988	<0.0050	0.100	98.8	90 - 110	X409004 - X4B0229-02	29-Feb-24	
EPA 350.1	Ammonia as N	mg/L	1.09	<0.030	1.00	109	90 - 110	X409163 - X4B0301-01	01-Mar-24	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	101	90 - 110	X409163 - X4B0301-02	01-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	<0.0050	0.100	92.0	82 - 118	X410025 - X4B0274-01	05-Mar-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.34	0.33	3.00	100	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Chloride	mg/L	4.27	1.30	3.00	99.2	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Fluoride	mg/L	2.04	<0.100	2.00	101	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Fluoride	mg/L	2.00	<0.100	2.00	98.7	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	102	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Nitrate as N	mg/L	2.23	0.244	2.00	99.5	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.09	<0.100	4.00	102	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.26	0.244	4.00	100	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	11.5	1.10	10.0	104	90 - 110	X408135 - X4B0301-01	21-Feb-24	

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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	Sulfate as SO4	mg/L	19.5	9.47	10.0	100	90 - 110	X408135 - X4B0322-01	21-Feb-24	

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	71.9	70.4	20.0	2.0	20	107	X409124 - X4B0284-01	
EPA 200.7	Magnesium	mg/L	26.6	26.0	20.0	2.4	20	104	X409124 - X4B0284-01	
EPA 200.7	Potassium	mg/L	38.8	38.2	20.0	1.6	20	102	X409124 - X4B0284-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	0.973	1.00	4.2	20	101	X409182 - X4B0301-01	
EPA 200.7	Barium	mg/L	1.06	1.03	1.00	2.8	20	106	X409182 - X4B0301-01	
EPA 200.7	Beryllium	mg/L	1.06	1.06	1.00	0.6	20	106	X409182 - X4B0301-01	
EPA 200.7	Boron	mg/L	1.06	1.02	1.00	3.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Cadmium	mg/L	1.04	1.01	1.00	2.9	20	104	X409182 - X4B0301-01	
EPA 200.7	Calcium	mg/L	20.8	20.5	20.0	1.6	20	103	X409182 - X4B0301-01	
EPA 200.7	Chromium	mg/L	1.05	1.01	1.00	4.2	20	105	X409182 - X4B0301-01	
EPA 200.7	Cobalt	mg/L	1.02	0.989	1.00	2.9	20	102	X409182 - X4B0301-01	
EPA 200.7	Copper	mg/L	1.02	0.986	1.00	3.5	20	102	X409182 - X4B0301-01	
EPA 200.7	Iron	mg/L	10.5	10.4	10.0	1.2	20	105	X409182 - X4B0301-01	
EPA 200.7	Lead	mg/L	1.03	1.00	1.00	2.6	20	103	X409182 - X4B0301-01	
EPA 200.7	Lithium	mg/L	1.04	1.04	1.00	0.2	20	104	X409182 - X4B0301-01	
EPA 200.7	Magnesium	mg/L	21.0	20.4	20.0	2.9	20	105	X409182 - X4B0301-01	
EPA 200.7	Manganese	mg/L	1.06	1.05	1.00	0.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Molybdenum	mg/L	1.04	1.00	1.00	3.2	20	104	X409182 - X4B0301-01	
EPA 200.7	Nickel	mg/L	1.03	0.999	1.00	2.9	20	102	X409182 - X4B0301-01	
EPA 200.7	Potassium	mg/L	21.5	21.2	20.0	1.2	20	106	X409182 - X4B0301-01	
EPA 200.7	Silver	mg/L	0.0512	0.0506	0.0500	1.2	20	102	X409182 - X4B0301-01	
EPA 200.7	Sodium	mg/L	19.9	19.6	19.0	1.4	20	105	X409182 - X4B0301-01	
EPA 200.7	Vanadium	mg/L	1.06	1.01	1.00	4.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Zinc	mg/L	1.05	1.02	1.00	2.9	20	105	X409182 - X4B0301-01	
EPA 200.8	Antimony	mg/L	0.0238	0.0238	0.0250	0.1	20	95.2	X408194 - X4B0301-01	
EPA 200.8	Arsenic	mg/L	0.0245	0.0240	0.0250	1.8	20	97.9	X408194 - X4B0301-01	
EPA 200.8	Selenium	mg/L	0.0237	0.0241	0.0250	1.5	20	94.8	X408194 - X4B0301-01	
EPA 200.8	Thallium	mg/L	0.0246	0.0245	0.0250	0.5	20	98.5	X408194 - X4B0301-01	
EPA 200.8	Uranium	mg/L	0.0244	0.0245	0.0250	0.4	20	97.5	X408194 - X4B0301-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00171	0.00189	0.00200	10.1	20	85.2	X409062 - X4B0268-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.102	0.100	4.0	11	98.0	X410024 - X4B0274-01	
EPA 335.4	Cyanide (total)	mg/L	0.0978	0.100	0.100	2.6	20	97.8	X409004 - X4B0274-01	
EPA 350.1	Ammonia as N	mg/L	1.03	1.09	1.00	5.4	20	103	X409163 - X4B0301-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0980	0.0960	0.100	2.1	11	94.0	X410025 - X4B0274-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.31	3.34	3.00	0.9	20	99.2	X408135 - X4B0301-01	
EPA 300.0	Fluoride	mg/L	2.02	2.04	2.00	0.8	20	99.8	X408135 - X4B0301-01	
EPA 300.0	Nitrate as N	mg/L	2.01	2.03	2.00	1.4	20	100	X408135 - X4B0301-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.06	4.09	4.00	0.8	20	101	X408135 - X4B0301-01	
EPA 300.0	Nitrite as N	mg/L	2.05	2.06	2.00	0.3	20	103	X408135 - X4B0301-01	

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	11.4	11.5	10.0	0.6	20	103	X408135 - X4B0301-01	

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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.
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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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4B0429**
Reported: 26-Mar-24 13:27

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X4B0429-01 (Ground Water)**

Sampled: 28-Feb-24 09:57
Received: 29-Feb-24
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**	39.8	mg/L	0.100	0.069		X410034	NMS	03/08/24 11:42	
EPA 200.7	**Magnesium**	11.6	mg/L	0.500	0.090		X410034	NMS	03/08/24 11:42	
EPA 200.7	**Potassium**	1.77	mg/L	0.50	0.18		X410034	NMS	03/08/24 11:42	
SM 2340 B	**Hardness (as CaCO3)**	140	mg/L	2.31	0.543		N/A		03/08/24 11:42	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X410060	NMS	03/11/24 17:58	
EPA 200.7	**Barium**	0.0525	mg/L	0.0020	0.0019		X410060	NMS	03/11/24 17:58	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X410060	NMS	03/11/24 17:58	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X410060	NMS	03/11/24 17:58	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X410060	NMS	03/11/24 17:58	
EPA 200.7	**Calcium**	37.4	mg/L	0.100	0.069		X410060	NMS	03/11/24 17:58	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X410060	NMS	03/11/24 17:58	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X410060	NMS	03/11/24 17:58	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X410060	NMS	03/11/24 17:58	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X410060	NMS	03/11/24 17:58	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X410060	NMS	03/11/24 17:58	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X410060	NMS	03/11/24 17:58	
EPA 200.7	**Magnesium**	11.4	mg/L	0.500	0.090		X410060	NMS	03/11/24 17:58	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X410060	NMS	03/11/24 17:58	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X410060	NMS	03/11/24 17:58	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X410060	NMS	03/11/24 17:58	
EPA 200.7	**Potassium**	1.78	mg/L	0.50	0.18		X410060	NMS	03/11/24 17:58	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X410060	NMS	03/11/24 17:58	
EPA 200.7	**Sodium**	25.3	mg/L	0.50	0.12		X410060	NMS	03/11/24 17:58	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X410060	NMS	03/11/24 17:58	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X410060	NMS	03/11/24 17:58	
EPA 200.8	Antimony	< 0.00072	mg/L	0.00100	0.00072		X409167	SMU	03/08/24 15:28	U
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X409167	SMU	03/08/24 15:28	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X409167	SMU	03/08/24 15:28	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X409167	SMU	03/08/24 15:28	
EPA 200.8	**Uranium**	0.00129	mg/L	0.000100	0.000052		X409167	SMU	03/08/24 15:28	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X411001	MAC	03/11/24 14:05	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X410024	DD	03/04/24 14:11	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X410129	DD	03/07/24 09:29	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X410008	DD	03/06/24 11:49	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X410025	DD	03/05/24 15:08	
SM 2310 B	**Acidity to pH 8.3**	-96.3	mg/L as CaCO3	10.0			X410224	MWD	03/08/24 11:04	
SM 2320 B	**Total Alkalinity**	87.9	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:33	
SM 2320 B	**Bicarbonate**	87.9	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:33	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:33	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:33	
SM 2540 C	**Total Diss. Solids**	236	mg/L	10			X409173	TJL	03/04/24 14:00	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X409172	TJL	03/04/24 14:50	
SM 4500 H B	**pH @18.6°C**	6.9	pH Units				X410011	MWD	03/04/24 12:33	H5

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4B0429**
Reported: 26-Mar-24 13:27

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X4B0429-01 (Ground Water)**

Sampled: 28-Feb-24 09:57
Received: 29-Feb-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	5.93	mg/L	0.20	0.02		X409152	RS	02/29/24 20:36	
EPA 300.0	**Fluoride**	0.396	mg/L	0.100	0.017		X409152	RS	02/29/24 20:36	
EPA 300.0	**Nitrate as N**	0.120	mg/L	0.050	0.013		X409152	RS	02/29/24 20:36	
EPA 300.0	**Nitrate+Nitrite as N**	0.120	mg/L	0.100	0.044		X409152	RS	02/29/24 20:36	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X409152	RS	02/29/24 20:36	
EPA 300.0	**Sulfate as SO4**	110	mg/L	3.00	1.80	10	X409152	RS	02/29/24 20:54	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 3.96 meq/L Anion Sum: 4.24 meq/L C/A Balance: -3.40 % Calculated TDS: 247 TDS/cTDS: 0.96

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

Kathryn Salter
Project Manager

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4B0429**
Reported: 26-Mar-24 13:27

Client Sample ID: **GVMW-25**
SVL Sample ID: **X4B0429-02 (Ground Water)**

Sampled: 28-Feb-24 11:15
Received: 29-Feb-24
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**	451	mg/L	1.00	0.690	10	X410034	NMS	03/08/24 12:07	D2
EPA 200.7	**Magnesium**	284	mg/L	0.500	0.090		X410034	NMS	03/08/24 11:46	
EPA 200.7	**Potassium**	8.48	mg/L	0.50	0.18		X410034	NMS	03/08/24 11:46	
SM 2340 B	**Hardness (as CaCO3)**	2300	mg/L	2.31	0.543		N/A		03/08/24 11:46	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	358	mg/L	0.080	0.054		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Barium**	0.0132	mg/L	0.0020	0.0019		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Beryllium**	0.290	mg/L	0.00200	0.00080		X410060	NMS	03/11/24 18:01	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Cadmium**	0.819	mg/L	0.0020	0.0016		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Calcium**	458	mg/L	0.100	0.069		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Chromium**	0.0375	mg/L	0.0060	0.0020		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Cobalt**	0.984	mg/L	0.0060	0.0046		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Copper**	1.25	mg/L	0.0100	0.0027		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Iron**	0.401	mg/L	0.100	0.056		X410060	NMS	03/11/24 18:01	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Lithium**	0.219	mg/L	0.040	0.025		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Magnesium**	281	mg/L	0.500	0.090		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Manganese**	125	mg/L	0.0800	0.0340	10	X410060	NMS	03/13/24 11:18	D2
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Nickel**	1.46	mg/L	0.0100	0.0048		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Potassium**	8.13	mg/L	0.50	0.18		X410060	NMS	03/11/24 18:01	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Sodium**	42.4	mg/L	0.50	0.12		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Vanadium**	0.0114	mg/L	0.0050	0.0019		X410060	NMS	03/11/24 18:01	
EPA 200.7	**Zinc**	34.8	mg/L	0.100	0.0540	10	X410060	NMS	03/13/24 11:18	D2
EPA 200.8	Antimony	< 0.0720	mg/L	0.100	0.0720	100	X409167	SMU	03/08/24 16:00	U,D1
EPA 200.8	Arsenic	< 0.0500	mg/L	0.0500	0.0105	50	X409167	SMU	03/26/24 09:57	D1
EPA 200.8	Selenium	< 0.0500	mg/L	0.0500	0.0120	50	X409167	SMU	03/26/24 09:57	D1
EPA 200.8	Thallium	< 0.0100	mg/L	0.0100	0.00400	50	X409167	SMU	03/26/24 09:57	D1
EPA 200.8	**Uranium**	1.13	mg/L	0.0100	0.00520	100	X409167	SMU	03/08/24 16:00	D1
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X411001	MAC	03/11/24 14:07	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X410024	DD	03/04/24 14:13	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X410129	DD	03/07/24 09:32	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X410008	DD	03/06/24 11:52	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X410025	DD	03/05/24 15:09	
SM 2310 B	**Acidity to pH 8.3**	2310	mg/L as CaCO3	10.0			X410224	MWD	03/08/24 11:04	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:47	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:47	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:47	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:47	
SM 2540 C	**Total Diss. Solids**	6100	mg/L	40			X409173	TJL	03/04/24 14:00	D2
SM 2540 D	**Total Susp. Solids**	16.0	mg/L	5.0			X409172	TJL	03/04/24 14:50	
SM 4500 H B	**pH @19.0°C**	3.8	pH Units				X410011	MWD	03/04/24 12:47	H5

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

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Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4B0429**
Reported: 26-Mar-24 13:27

Client Sample ID: **GVMW-25**
SVL Sample ID: **X4B0429-02 (Ground Water)**

Sampled: 28-Feb-24 11:15
Received: 29-Feb-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	25.4	mg/L	1.00	0.11	5	X409152	RS	02/29/24 21:12	D2
EPA 300.0	**Fluoride**	40.3	mg/L	10.0	1.70	100	X409152	RS	02/29/24 21:31	D2
EPA 300.0	**Nitrate as N**	0.316	mg/L	0.250	0.065	5	X409152	RS	02/29/24 21:12	D1
EPA 300.0	Nitrate+Nitrite as N	< 0.500	mg/L	0.500	0.220	5	X409152	RS	02/29/24 21:12	D1
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X409152	RS	02/29/24 21:12	D1
EPA 300.0	**Sulfate as SO4**	4570	mg/L	30.0	18.0	100	X409152	RS	02/29/24 21:31	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 93.9 meq/L Anion Sum: 98.0 meq/L C/A Balance: -2.16 % Calculated TDS: 5423 TDS/cTDS: 1.12

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

Kathryn Salter
Project Manager

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4B0429**
Reported: 26-Mar-24 13:27

Client Sample ID: **GVMW-8A**
SVL Sample ID: **X4B0429-03 (Ground Water)**

Sampled: 28-Feb-24 12:24
Received: 29-Feb-24
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**	51.3	mg/L	0.100	0.069		X410034	NMS	03/08/24 11:59	
EPA 200.7	**Magnesium**	6.47	mg/L	0.500	0.090		X410034	NMS	03/08/24 11:59	
EPA 200.7	**Potassium**	0.70	mg/L	0.50	0.18		X410034	NMS	03/08/24 11:59	
SM 2340 B	**Hardness (as CaCO3)**	154	mg/L	2.31	0.543		N/A		03/08/24 11:59	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X410060	NMS	03/11/24 18:05	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X410060	NMS	03/11/24 18:05	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X410060	NMS	03/11/24 18:05	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X410060	NMS	03/11/24 18:05	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X410060	NMS	03/11/24 18:05	
EPA 200.7	**Calcium**	48.2	mg/L	0.100	0.069		X410060	NMS	03/11/24 18:05	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X410060	NMS	03/11/24 18:05	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X410060	NMS	03/11/24 18:05	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X410060	NMS	03/11/24 18:05	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X410060	NMS	03/11/24 18:05	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X410060	NMS	03/11/24 18:05	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X410060	NMS	03/11/24 18:05	
EPA 200.7	**Magnesium**	6.38	mg/L	0.500	0.090		X410060	NMS	03/11/24 18:05	
EPA 200.7	**Manganese**	0.0091	mg/L	0.0080	0.0034		X410060	NMS	03/11/24 18:05	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X410060	NMS	03/11/24 18:05	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X410060	NMS	03/11/24 18:05	
EPA 200.7	**Potassium**	0.72	mg/L	0.50	0.18		X410060	NMS	03/11/24 18:05	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X410060	NMS	03/11/24 18:05	
EPA 200.7	**Sodium**	23.5	mg/L	0.50	0.12		X410060	NMS	03/11/24 18:05	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X410060	NMS	03/11/24 18:05	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X410060	NMS	03/11/24 18:05	
EPA 200.8	Antimony	< 0.00072	mg/L	0.00100	0.00072		X409167	SMU	03/08/24 15:53	U
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X409167	SMU	03/08/24 15:53	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X409167	SMU	03/08/24 15:53	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X409167	SMU	03/08/24 15:53	
EPA 200.8	**Uranium**	0.00421	mg/L	0.000100	0.000052		X409167	SMU	03/08/24 15:53	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X411001	MAC	03/11/24 14:09	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X410024	DD	03/04/24 14:15	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X410129	DD	03/07/24 09:34	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X410008	DD	03/06/24 11:54	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X410025	DD	03/05/24 15:15	
SM 2310 B	**Acidity to pH 8.3**	-48.9	mg/L as CaCO3	10.0			X410224	MWD	03/08/24 11:04	
SM 2320 B	**Total Alkalinity**	49.3	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:52	
SM 2320 B	**Bicarbonate**	49.3	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:52	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:52	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:52	
SM 2540 C	**Total Diss. Solids**	285	mg/L	10			X409173	TJL	03/04/24 14:00	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X409172	TJL	03/04/24 14:50	
SM 4500 H B	**pH @18.7°C**	7.0	pH Units				X410011	MWD	03/04/24 12:52	H5

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

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4B0429**
Reported: 26-Mar-24 13:27

Client Sample ID: **GVMW-8A**
SVL Sample ID: **X4B0429-03 (Ground Water)**

Sampled: 28-Feb-24 12:24
Received: 29-Feb-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	65.2	mg/L	2.00	0.22	10	X409152	RS	02/29/24 22:44	D2
EPA 300.0	**Fluoride**	1.80	mg/L	0.100	0.017		X409152	RS	02/29/24 22:26	
EPA 300.0	**Nitrate as N**	1.17	mg/L	0.050	0.013		X409152	RS	02/29/24 22:26	
EPA 300.0	**Nitrate+Nitrite as N**	1.17	mg/L	0.100	0.044		X409152	RS	02/29/24 22:26	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X409152	RS	02/29/24 22:26	
EPA 300.0	**Sulfate as SO4**	58.8	mg/L	3.00	1.80	10	X409152	RS	02/29/24 22:44	D2
Cation/Anion Balance and TDS Ratios										

Cation Sum: 3.98 meq/L Anion Sum: 4.23 meq/L C/A Balance: -2.96 % Calculated TDS: 241 TDS/cTDS: 1.18

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

Kathryn Salter
Project Manager

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4B0429**
Reported: 26-Mar-24 13:27

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	X410034	08-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X410034	08-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X410034	08-Mar-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X410060	11-Mar-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X410060	11-Mar-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X410060	11-Mar-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X410060	11-Mar-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X410060	11-Mar-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X410060	11-Mar-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X410060	11-Mar-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X410060	11-Mar-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X410060	11-Mar-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X410060	11-Mar-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X410060	11-Mar-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X410060	11-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X410060	11-Mar-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X410060	11-Mar-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X410060	11-Mar-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X410060	11-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X410060	11-Mar-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X410060	11-Mar-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X410060	11-Mar-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X410060	11-Mar-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X410060	11-Mar-24	
EPA 200.8	Antimony	mg/L	<0.00072	0.00072	0.00100	X409167	08-Mar-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X409167	08-Mar-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X409167	08-Mar-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X409167	08-Mar-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X409167	08-Mar-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X411001	11-Mar-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X410024	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X410129	07-Mar-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X410008	06-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X410025	05-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X410224	08-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X410011	04-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X410011	04-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X410011	04-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X410011	04-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X409173	04-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X409172	04-Mar-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X409152	29-Feb-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X409152	29-Feb-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X409152	29-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X409152	29-Feb-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X409152	29-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X409152	29-Feb-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4B0429**
Reported: 26-Mar-24 13:27

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	20.3	20.0	101	85 - 115	X410034	08-Mar-24	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X410034	08-Mar-24	
EPA 200.7	Potassium	mg/L	20.0	20.0	100	85 - 115	X410034	08-Mar-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.946	1.00	94.6	85 - 115	X410060	11-Mar-24	
EPA 200.7	Barium	mg/L	0.951	1.00	95.1	85 - 115	X410060	11-Mar-24	
EPA 200.7	Beryllium	mg/L	0.998	1.00	99.8	85 - 115	X410060	11-Mar-24	
EPA 200.7	Boron	mg/L	0.959	1.00	95.9	85 - 115	X410060	11-Mar-24	
EPA 200.7	Cadmium	mg/L	0.956	1.00	95.6	85 - 115	X410060	11-Mar-24	
EPA 200.7	Calcium	mg/L	19.5	20.0	97.4	85 - 115	X410060	11-Mar-24	
EPA 200.7	Chromium	mg/L	0.967	1.00	96.7	85 - 115	X410060	11-Mar-24	
EPA 200.7	Cobalt	mg/L	0.940	1.00	94.0	85 - 115	X410060	11-Mar-24	
EPA 200.7	Copper	mg/L	0.961	1.00	96.1	85 - 115	X410060	11-Mar-24	
EPA 200.7	Iron	mg/L	9.91	10.0	99.1	85 - 115	X410060	11-Mar-24	
EPA 200.7	Lead	mg/L	0.953	1.00	95.3	85 - 115	X410060	11-Mar-24	
EPA 200.7	Lithium	mg/L	0.962	1.00	96.2	85 - 115	X410060	11-Mar-24	
EPA 200.7	Magnesium	mg/L	19.4	20.0	96.9	85 - 115	X410060	11-Mar-24	
EPA 200.7	Manganese	mg/L	0.969	1.00	96.9	85 - 115	X410060	11-Mar-24	
EPA 200.7	Molybdenum	mg/L	0.969	1.00	96.9	85 - 115	X410060	11-Mar-24	
EPA 200.7	Nickel	mg/L	0.948	1.00	94.8	85 - 115	X410060	11-Mar-24	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.5	85 - 115	X410060	11-Mar-24	
EPA 200.7	Silver	mg/L	0.0498	0.0500	99.7	85 - 115	X410060	11-Mar-24	
EPA 200.7	Sodium	mg/L	18.6	19.0	97.7	85 - 115	X410060	11-Mar-24	
EPA 200.7	Vanadium	mg/L	0.977	1.00	97.7	85 - 115	X410060	11-Mar-24	
EPA 200.7	Zinc	mg/L	0.956	1.00	95.6	85 - 115	X410060	11-Mar-24	
EPA 200.8	Antimony	mg/L	0.0273	0.0250	109	85 - 115	X409167	08-Mar-24	
EPA 200.8	Arsenic	mg/L	0.0274	0.0250	110	85 - 115	X409167	08-Mar-24	
EPA 200.8	Selenium	mg/L	0.0274	0.0250	109	85 - 115	X409167	08-Mar-24	
EPA 200.8	Thallium	mg/L	0.0270	0.0250	108	85 - 115	X409167	08-Mar-24	
EPA 200.8	Uranium	mg/L	0.0267	0.0250	107	85 - 115	X409167	08-Mar-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00202	0.00200	101	85 - 115	X411001	11-Mar-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.100	97.0	90 - 110	X410024	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X410129	07-Mar-24	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X410008	06-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X410025	05-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1690	1640	103	95.4 - 104	X410224	08-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	96.4 - 105	X410011	04-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.2	99.3	99.9	96.4 - 105	X410011	04-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X409172	04-Mar-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.6	90 - 110	X409152	29-Feb-24	
EPA 300.0	Fluoride	mg/L	1.97	2.00	98.5	90 - 110	X409152	29-Feb-24	
EPA 300.0	Nitrate as N	mg/L	1.99	2.00	99.6	90 - 110	X409152	29-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.51	4.50	100	90 - 110	X409152	29-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.52	2.50	101	90 - 110	X409152	29-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X409152	29-Feb-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4B0429**
Reported: 26-Mar-24 13:27

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	X410224 - X4B0392-01	08-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	35.9	36.3	1.1	20	X410011 - X4B0392-02	04-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	35.9	36.3	1.1	20	X410011 - X4B0392-02	04-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X410011 - X4B0392-02	04-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X410011 - X4B0392-02	04-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	246	236	4.2	10	X409173 - X4B0429-01	04-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	258	242	6.4	10	X409173 - X4B0424-03	04-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	5.0	<5.0	<RL	10	X409172 - X4B0429-01	04-Mar-24	
SM 4500 H B	pH @18.2°C	pH Units	6.5	6.6	1.5	20	X410011 - X4B0392-02	04-Mar-24	

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	35.5	15.3	20.0	101	70 - 130	X410034 - X4B0419-02	08-Mar-24	
EPA 200.7	Calcium	mg/L	23.2	2.94	20.0	102	70 - 130	X410034 - X4B0424-05	08-Mar-24	
EPA 200.7	Magnesium	mg/L	26.0	4.94	20.0	105	70 - 130	X410034 - X4B0419-02	08-Mar-24	
EPA 200.7	Magnesium	mg/L	21.5	0.936	20.0	103	70 - 130	X410034 - X4B0424-05	08-Mar-24	
EPA 200.7	Potassium	mg/L	25.9	5.97	20.0	99.8	70 - 130	X410034 - X4B0419-02	08-Mar-24	
EPA 200.7	Potassium	mg/L	20.2	<0.50	20.0	99.9	70 - 130	X410034 - X4B0424-05	08-Mar-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.934	<0.080	1.00	93.4	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Aluminum	mg/L	3750	3660	1.00	0.30R>S	70 - 130	X410060 - X4B0429-04	11-Mar-24	D2,M4
EPA 200.7	Barium	mg/L	0.991	0.0525	1.00	93.8	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Barium	mg/L	0.850	<0.0200	1.00	85.0	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Beryllium	mg/L	0.974	<0.00200	1.00	97.4	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Beryllium	mg/L	1.61	0.684	1.00	92.1	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Boron	mg/L	0.975	<0.0400	1.00	96.4	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Boron	mg/L	0.858	<0.400	1.00	85.8	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Cadmium	mg/L	0.950	<0.0020	1.00	95.0	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Cadmium	mg/L	8.36	7.27	1.00	109	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Calcium	mg/L	57.2	37.4	20.0	99.4	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Calcium	mg/L	445	420	20.0	125	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Chromium	mg/L	0.962	<0.0060	1.00	96.2	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Chromium	mg/L	1.81	0.909	1.00	89.7	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Cobalt	mg/L	0.926	<0.0060	1.00	92.6	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Cobalt	mg/L	18.1	16.8	1.00	0.30R>S	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1,M4
EPA 200.7	Copper	mg/L	0.947	<0.0100	1.00	94.7	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Copper	mg/L	15.7	14.4	1.00	0.30R>S	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1,M4
EPA 200.7	Iron	mg/L	9.75	<0.100	10.0	97.5	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Iron	mg/L	175	163	10.0	122	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Lead	mg/L	0.941	<0.0075	1.00	94.1	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Lead	mg/L	0.819	<0.0750	1.00	81.9	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Lithium	mg/L	0.947	<0.040	1.00	94.7	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Lithium	mg/L	3.20	2.21	1.00	98.9	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Magnesium	mg/L	30.7	11.4	20.0	96.8	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Magnesium	mg/L	1650	1590	20.0	0.30R>S	70 - 130	X410060 - X4B0429-04	11-Mar-24	D2,M4
EPA 200.7	Manganese	mg/L	0.963	<0.0080	1.00	95.8	70 - 130	X410060 - X4B0429-01	11-Mar-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4B0429**
Reported: 26-Mar-24 13:27

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	1110	1110	1.00	0.30R>S	70 - 130	X410060 - X4B0429-04	13-Mar-24	D2,M4
EPA 200.7	Molybdenum	mg/L	0.966	<0.0080	1.00	96.6	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Molybdenum	mg/L	0.922	<0.0800	1.00	87.9	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Nickel	mg/L	0.937	<0.0100	1.00	93.1	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Nickel	mg/L	16.2	14.9	1.00	128	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Potassium	mg/L	21.2	1.78	20.0	96.9	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Potassium	mg/L	26.2	8.17	20.0	90.3	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Silver	mg/L	0.0500	<0.0050	0.0500	100	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Silver	mg/L	<0.0500	<0.0500	0.0500	80.6	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Sodium	mg/L	43.5	25.3	19.0	95.8	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Sodium	mg/L	31.1	13.8	19.0	91.4	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Vanadium	mg/L	0.974	<0.0050	1.00	97.4	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Vanadium	mg/L	0.912	<0.0500	1.00	88.3	70 - 130	X410060 - X4B0429-04	11-Mar-24	D1
EPA 200.7	Zinc	mg/L	0.966	<0.0100	1.00	96.6	70 - 130	X410060 - X4B0429-01	11-Mar-24	
EPA 200.7	Zinc	mg/L	290	289	1.00	0.30R>S	70 - 130	X410060 - X4B0429-04	13-Mar-24	D2,M4
EPA 200.8	Antimony	mg/L	0.0285	<0.00072	0.0250	114	70 - 130	X409167 - X4B0392-01	08-Mar-24	
EPA 200.8	Arsenic	mg/L	0.0285	<0.00100	0.0250	114	70 - 130	X409167 - X4B0392-01	08-Mar-24	
EPA 200.8	Selenium	mg/L	0.0286	<0.00100	0.0250	114	70 - 130	X409167 - X4B0392-01	08-Mar-24	
EPA 200.8	Thallium	mg/L	0.0266	<0.000200	0.0250	106	70 - 130	X409167 - X4B0392-01	08-Mar-24	
EPA 200.8	Uranium	mg/L	0.0298	0.00341	0.0250	105	70 - 130	X409167 - X4B0392-01	08-Mar-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00205	<0.000200	0.00200	102	70 - 130	X411001 - X4B0429-01	11-Mar-24	
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	102	70 - 130	X411001 - X4B0443-01	11-Mar-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	<0.0050	0.100	102	79 - 121	X410024 - X4B0274-01	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.0952	<0.0050	0.100	95.2	90 - 110	X410129 - X4C0028-04	07-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X410129 - X4C0028-05	07-Mar-24	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X410008 - X4B0392-01	06-Mar-24	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X410008 - X4B0392-02	06-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	<0.0050	0.100	92.0	82 - 118	X410025 - X4B0274-01	05-Mar-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.31	0.35	3.00	98.8	90 - 110	X409152 - X4B0424-01	29-Feb-24	
EPA 300.0	Chloride	mg/L	3.30	0.32	3.00	99.6	90 - 110	X409152 - X4B0424-05	29-Feb-24	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	99.8	90 - 110	X409152 - X4B0424-01	29-Feb-24	
EPA 300.0	Fluoride	mg/L	2.01	<0.100	2.00	101	90 - 110	X409152 - X4B0424-05	29-Feb-24	
EPA 300.0	Nitrate as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X409152 - X4B0424-01	29-Feb-24	
EPA 300.0	Nitrate as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X409152 - X4B0424-05	29-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.05	<0.100	4.00	101	90 - 110	X409152 - X4B0424-01	29-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	<0.100	4.00	102	90 - 110	X409152 - X4B0424-05	29-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	102	90 - 110	X409152 - X4B0424-01	29-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X409152 - X4B0424-05	29-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	12.4	2.26	10.0	101	90 - 110	X409152 - X4B0424-01	29-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	11.9	1.69	10.0	102	90 - 110	X409152 - X4B0424-05	29-Feb-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4B0429**
Reported: 26-Mar-24 13:27

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	35.3	35.5	20.0	0.5	20	100	X410034 - X4B0419-02	
EPA 200.7	Magnesium	mg/L	26.0	26.0	20.0	0.0	20	105	X410034 - X4B0419-02	
EPA 200.7	Potassium	mg/L	25.7	25.9	20.0	0.9	20	98.6	X410034 - X4B0419-02	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.978	0.934	1.00	4.6	20	97.8	X410060 - X4B0429-01	
EPA 200.7	Barium	mg/L	1.03	0.991	1.00	3.8	20	97.7	X410060 - X4B0429-01	
EPA 200.7	Beryllium	mg/L	1.01	0.974	1.00	3.2	20	101	X410060 - X4B0429-01	
EPA 200.7	Boron	mg/L	1.00	0.975	1.00	2.7	20	99.1	X410060 - X4B0429-01	
EPA 200.7	Cadmium	mg/L	0.976	0.950	1.00	2.7	20	97.6	X410060 - X4B0429-01	
EPA 200.7	Calcium	mg/L	57.2	57.2	20.0	0.2	20	98.9	X410060 - X4B0429-01	
EPA 200.7	Chromium	mg/L	0.997	0.962	1.00	3.6	20	99.7	X410060 - X4B0429-01	
EPA 200.7	Cobalt	mg/L	0.950	0.926	1.00	2.6	20	95.0	X410060 - X4B0429-01	
EPA 200.7	Copper	mg/L	0.981	0.947	1.00	3.5	20	98.1	X410060 - X4B0429-01	
EPA 200.7	Iron	mg/L	10.1	9.75	10.0	3.8	20	101	X410060 - X4B0429-01	
EPA 200.7	Lead	mg/L	0.970	0.941	1.00	3.0	20	97.0	X410060 - X4B0429-01	
EPA 200.7	Lithium	mg/L	0.982	0.947	1.00	3.6	20	98.2	X410060 - X4B0429-01	
EPA 200.7	Magnesium	mg/L	31.5	30.7	20.0	2.4	20	101	X410060 - X4B0429-01	
EPA 200.7	Manganese	mg/L	1.01	0.963	1.00	4.8	20	101	X410060 - X4B0429-01	
EPA 200.7	Molybdenum	mg/L	0.992	0.966	1.00	2.7	20	99.2	X410060 - X4B0429-01	
EPA 200.7	Nickel	mg/L	0.960	0.937	1.00	2.4	20	95.4	X410060 - X4B0429-01	
EPA 200.7	Potassium	mg/L	21.7	21.2	20.0	2.4	20	99.5	X410060 - X4B0429-01	
EPA 200.7	Silver	mg/L	0.0506	0.0500	0.0500	1.2	20	101	X410060 - X4B0429-01	
EPA 200.7	Sodium	mg/L	43.8	43.5	19.0	0.6	20	97.2	X410060 - X4B0429-01	
EPA 200.7	Vanadium	mg/L	1.01	0.974	1.00	3.3	20	101	X410060 - X4B0429-01	
EPA 200.7	Zinc	mg/L	0.991	0.966	1.00	2.6	20	99.1	X410060 - X4B0429-01	
EPA 200.8	Antimony	mg/L	0.0291	0.0285	0.0250	2.1	20	117	X409167 - X4B0392-01	
EPA 200.8	Arsenic	mg/L	0.0303	0.0285	0.0250	6.4	20	121	X409167 - X4B0392-01	
EPA 200.8	Selenium	mg/L	0.0296	0.0286	0.0250	3.5	20	118	X409167 - X4B0392-01	
EPA 200.8	Thallium	mg/L	0.0279	0.0266	0.0250	5.0	20	112	X409167 - X4B0392-01	
EPA 200.8	Uranium	mg/L	0.0307	0.0298	0.0250	3.1	20	109	X409167 - X4B0392-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00211	0.00205	0.00200	3.1	20	105	X411001 - X4B0429-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.102	0.100	4.0	11	98.0	X410024 - X4B0274-01	
EPA 335.4	Cyanide (total)	mg/L	0.0986	0.0952	0.100	3.5	20	98.6	X410129 - X4C0028-04	
EPA 350.1	Ammonia as N	mg/L	0.998	1.02	1.00	2.2	20	99.8	X410008 - X4B0392-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0980	0.0960	0.100	2.1	11	94.0	X410025 - X4B0274-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.31	3.31	3.00	0.2	20	98.6	X409152 - X4B0424-01	
EPA 300.0	Fluoride	mg/L	2.00	2.02	2.00	0.6	20	99.2	X409152 - X4B0424-01	
EPA 300.0	Nitrate as N	mg/L	1.99	2.01	2.00	1.0	20	99.4	X409152 - X4B0424-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	4.05	4.00	0.4	20	101	X409152 - X4B0424-01	
EPA 300.0	Nitrite as N	mg/L	2.05	2.05	2.00	0.2	20	103	X409152 - X4B0424-01	
EPA 300.0	Sulfate as SO4	mg/L	12.4	12.4	10.0	0.1	20	101	X409152 - X4B0424-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4B0429**
Victor, CO 80860	Reported: 26-Mar-24 13:27

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.
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.
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.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
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: **X4B0392**
Reported: 11-Mar-24 11:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-26A	X4B0392-01	Ground Water	26-Feb-24 10:54	PB	27-Feb-2024	
GVMW-26B	X4B0392-02	Ground Water	26-Feb-24 11:55	PB	27-Feb-2024	
GVMW-7A	X4B0392-03	Ground Water	26-Feb-24 14:33	PB	27-Feb-2024	

Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

Case Narrative: X4B0392

The state of origin only accredits for drinking water analyses.

Samples treated with CdCO3 before CN analysis for sulfide interference at client request.

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Work Order: **X4B0392**
Reported: 11-Mar-24 11:07

Client Sample ID: **GVMW-26A**
SVL Sample ID: **X4B0392-01 (Ground Water)**

Sampled: 26-Feb-24 10:54
Received: 27-Feb-24
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**	28.6	mg/L	0.100	0.069		X409205	NMS	03/05/24 14:06	
EPA 200.7	**Magnesium**	7.02	mg/L	0.500	0.090		X409205	NMS	03/05/24 14:06	
EPA 200.7	**Potassium**	0.89	mg/L	0.50	0.18		X409205	NMS	03/05/24 14:06	
sm 2340B	**Hardness (as CaCO3)**	100	mg/L	2.31	0.543		N/A		03/05/24 14:06	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X409182	NMS	03/04/24 16:44	
EPA 200.7	**Barium**	0.190	mg/L	0.0020	0.0019		X409182	NMS	03/04/24 16:44	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X409182	NMS	03/04/24 16:44	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X409182	NMS	03/04/24 16:44	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X409182	NMS	03/04/24 16:44	
EPA 200.7	**Calcium**	29.0	mg/L	0.100	0.069		X409182	NMS	03/04/24 16:44	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X409182	NMS	03/04/24 16:44	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X409182	NMS	03/04/24 16:44	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X409182	NMS	03/04/24 16:44	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X409182	NMS	03/04/24 16:44	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X409182	NMS	03/04/24 16:44	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X409182	NMS	03/04/24 16:44	
EPA 200.7	**Magnesium**	6.69	mg/L	0.500	0.090		X409182	NMS	03/04/24 16:44	
EPA 200.7	**Manganese**	0.0117	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 16:44	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 16:44	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X409182	NMS	03/04/24 16:44	
EPA 200.7	**Potassium**	0.90	mg/L	0.50	0.18		X409182	NMS	03/04/24 16:44	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 16:44	
EPA 200.7	**Sodium**	30.6	mg/L	0.50	0.12		X409182	NMS	03/04/24 16:44	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 16:44	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X409182	NMS	03/04/24 16:44	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X409167	SMU	03/08/24 15:13	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X409167	SMU	03/08/24 15:13	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X409167	SMU	03/08/24 15:13	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X409167	SMU	03/08/24 15:13	
EPA 200.8	**Uranium**	0.00341	mg/L	0.000100	0.000052		X409167	SMU	03/08/24 15:13	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X410054	MAC	03/06/24 13:05	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X410024	DD	03/04/24 14:05	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X409005	DD	03/07/24 13:32	H1
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X410008	DD	03/06/24 10:43	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X410025	DD	03/05/24 15:03	
SM 2310 B	**Acidity to pH 8.3**	-144	mg/L as CaCO3	10.0			X410224	MWD	03/08/24 11:04	
SM 2320 B	**Total Alkalinity**	157	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:05	
SM 2320 B	**Bicarbonate**	157	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:05	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:05	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:05	
SM 2540 C	**Total Diss. Solids**	173	mg/L	10			X409075	TJL	02/29/24 12:40	
SM 2540 D	**Total Susp. Solids**	40.0	mg/L	5.0			X409077	TJL	02/29/24 12:30	
SM 4500 H B	**pH @18.1°C**	7.8	pH Units				X410011	MWD	03/04/24 12:05	H5

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

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Work Order: **X4B0392**
Reported: 11-Mar-24 11:07

Client Sample ID: **GVMW-26A**
SVL Sample ID: **X4B0392-01 (Ground Water)**

Sampled: 26-Feb-24 10:54
Received: 27-Feb-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	6.04	mg/L	0.20	0.02		X409066	KAG	02/27/24 12:19	
EPA 300.0	**Fluoride**	1.84	mg/L	0.100	0.017		X409066	KAG	02/27/24 12:19	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X409066	KAG	02/27/24 12:19	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X409066	KAG	02/27/24 12:19	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X409066	KAG	02/27/24 12:19	
EPA 300.0	**Sulfate as SO4**	12.0	mg/L	0.30	0.18		X409066	KAG	02/27/24 12:19	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.35 meq/L Anion Sum: 3.66 meq/L C/A Balance: -4.42 % Calculated TDS: 181 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: **X4B0392**
Reported: 11-Mar-24 11:07

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X4B0392-02 (Ground Water)**

Sampled: 26-Feb-24 11:55
Received: 27-Feb-24
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**	11.1	mg/L	0.100	0.069		X409205	NMS	03/05/24 14:10	
EPA 200.7	**Magnesium**	2.42	mg/L	0.500	0.090		X409205	NMS	03/05/24 14:10	
EPA 200.7	**Potassium**	0.74	mg/L	0.50	0.18		X409205	NMS	03/05/24 14:10	
sm 2340B	**Hardness (as CaCO3)**	38.0	mg/L	2.31	0.543		N/A		03/04/24 16:47	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X409182	NMS	03/04/24 16:47	
EPA 200.7	**Barium**	0.117	mg/L	0.0020	0.0019		X409182	NMS	03/04/24 16:47	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X409182	NMS	03/04/24 16:47	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X409182	NMS	03/04/24 16:47	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X409182	NMS	03/04/24 16:47	
EPA 200.7	**Calcium**	11.2	mg/L	0.100	0.069		X409182	NMS	03/04/24 16:47	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X409182	NMS	03/04/24 16:47	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X409182	NMS	03/04/24 16:47	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X409182	NMS	03/04/24 16:47	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X409182	NMS	03/04/24 16:47	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X409182	NMS	03/04/24 16:47	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X409182	NMS	03/04/24 16:47	
EPA 200.7	**Magnesium**	2.42	mg/L	0.500	0.090		X409182	NMS	03/04/24 16:47	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 16:47	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 16:47	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X409182	NMS	03/04/24 16:47	
EPA 200.7	**Potassium**	0.80	mg/L	0.50	0.18		X409182	NMS	03/04/24 16:47	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 16:47	
EPA 200.7	**Sodium**	9.95	mg/L	0.50	0.12		X409182	NMS	03/04/24 16:47	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 16:47	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X409182	NMS	03/04/24 16:47	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X409167	SMU	03/08/24 15:20	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X409167	SMU	03/08/24 15:20	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X409167	SMU	03/08/24 15:20	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X409167	SMU	03/08/24 15:20	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X409167	SMU	03/08/24 15:20	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X410054	MAC	03/06/24 13:07	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X410024	DD	03/04/24 14:07	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X409005	DD	03/07/24 13:35	H1
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X410008	DD	03/06/24 10:46	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X410025	DD	03/05/24 15:05	
SM 2310 B	**Acidity to pH 8.3**	-48.9	mg/L as CaCO3	10.0			X410224	MWD	03/08/24 11:04	
SM 2320 B	**Total Alkalinity**	36.3	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:11	
SM 2320 B	**Bicarbonate**	36.3	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:11	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:11	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:11	
SM 2540 C	**Total Diss. Solids**	98	mg/L	10			X409075	TJL	02/29/24 12:40	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X409077	TJL	02/29/24 12:30	
SM 4500 H B	**pH @18.5°C**	6.6	pH Units				X410011	MWD	03/04/24 12:11	H5

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Work Order: **X4B0392**
Reported: 11-Mar-24 11:07

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X4B0392-02 (Ground Water)**

Sampled: 26-Feb-24 11:55
Received: 27-Feb-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.81	mg/L	0.20	0.02		X409066	KAG	02/27/24 12:55	
EPA 300.0	**Fluoride**	0.229	mg/L	0.100	0.017		X409066	KAG	02/27/24 12:55	
EPA 300.0	**Nitrate as N**	0.611	mg/L	0.050	0.013		X409066	KAG	02/27/24 12:55	
EPA 300.0	**Nitrate+Nitrite as N**	0.611	mg/L	0.100	0.044		X409066	KAG	02/27/24 12:55	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X409066	KAG	02/27/24 12:55	
EPA 300.0	**Sulfate as SO4**	21.6	mg/L	0.30	0.18		X409066	KAG	02/27/24 12:55	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.22 meq/L Anion Sum: 1.28 meq/L C/A Balance: -2.49 % Calculated TDS: 72 TDS/cTDS: 1.35

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

Kathryn Salter
Project Manager

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Work Order: **X4B0392**
Reported: 11-Mar-24 11:07

Client Sample ID: **GVMW-7A**
SVL Sample ID: **X4B0392-03 (Ground Water)**

Sampled: 26-Feb-24 14:33
Received: 27-Feb-24
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**	35.5	mg/L	0.100	0.069		X409205	NMS	03/05/24 14:14	
EPA 200.7	**Magnesium**	16.9	mg/L	0.500	0.090		X409205	NMS	03/05/24 14:14	
EPA 200.7	**Potassium**	0.81	mg/L	0.50	0.18		X409205	NMS	03/05/24 14:14	
sm 2340B	**Hardness (as CaCO3)**	153	mg/L	2.31	0.543		N/A		03/05/24 14:14	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X409182	NMS	03/04/24 16:51	
EPA 200.7	**Barium**	0.152	mg/L	0.0020	0.0019		X409182	NMS	03/04/24 16:51	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X409182	NMS	03/04/24 16:51	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X409182	NMS	03/04/24 16:51	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X409182	NMS	03/04/24 16:51	
EPA 200.7	**Calcium**	34.6	mg/L	0.100	0.069		X409182	NMS	03/04/24 16:51	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X409182	NMS	03/04/24 16:51	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X409182	NMS	03/04/24 16:51	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X409182	NMS	03/04/24 16:51	
EPA 200.7	**Iron**	1.13	mg/L	0.100	0.056		X409182	NMS	03/04/24 16:51	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X409182	NMS	03/04/24 16:51	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X409182	NMS	03/04/24 16:51	
EPA 200.7	**Magnesium**	16.1	mg/L	0.500	0.090		X409182	NMS	03/04/24 16:51	
EPA 200.7	**Manganese**	0.199	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 16:51	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 16:51	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X409182	NMS	03/04/24 16:51	
EPA 200.7	**Potassium**	0.83	mg/L	0.50	0.18		X409182	NMS	03/04/24 16:51	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 16:51	
EPA 200.7	**Sodium**	8.77	mg/L	0.50	0.12		X409182	NMS	03/04/24 16:51	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 16:51	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X409182	NMS	03/04/24 16:51	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X409167	SMU	03/08/24 15:23	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X409167	SMU	03/08/24 15:23	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X409167	SMU	03/08/24 15:23	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X409167	SMU	03/08/24 15:23	
EPA 200.8	**Uranium**	0.00361	mg/L	0.000100	0.000052		X409167	SMU	03/08/24 15:23	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X410054	MAC	03/06/24 13:09	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X410024	DD	03/04/24 14:09	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X409005	DD	03/07/24 13:37	H1
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X410008	DD	03/06/24 10:48	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X410025	DD	03/05/24 15:06	
SM 2310 B	**Acidity to pH 8.3**	-144	mg/L as CaCO3	10.0			X410224	MWD	03/08/24 11:04	
SM 2320 B	**Total Alkalinity**	153	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:16	
SM 2320 B	**Bicarbonate**	153	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:16	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:16	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X410011	MWD	03/04/24 12:16	
SM 2540 C	**Total Diss. Solids**	164	mg/L	10			X409075	TJL	02/29/24 12:40	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X409077	TJL	02/29/24 12:30	
SM 4500 H B	**pH @18.4°C**	7.4	pH Units				X410011	MWD	03/04/24 12:16	H5

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

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Post Office Box 191
Victor, CO 80860

Work Order: **X4B0392**
Reported: 11-Mar-24 11:07

Client Sample ID: **GVMW-7A**
SVL Sample ID: **X4B0392-03 (Ground Water)**

Sampled: 26-Feb-24 14:33
Received: 27-Feb-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	5.16	mg/L	0.20	0.02		X409066	KAG	02/27/24 13:49	
EPA 300.0	**Fluoride**	0.960	mg/L	0.100	0.017		X409066	KAG	02/27/24 13:49	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X409066	KAG	02/27/24 13:49	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X409066	KAG	02/27/24 13:49	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X409066	KAG	02/27/24 13:49	
EPA 300.0	**Sulfate as SO4**	17.3	mg/L	0.30	0.18		X409066	KAG	02/27/24 13:49	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.51 meq/L Anion Sum: 3.62 meq/L C/A Balance: -1.43 % Calculated TDS: 176 TDS/cTDS: 0.93

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: **X4B0392**
Reported: 11-Mar-24 11:07

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	X409205	05-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X409205	05-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X409205	05-Mar-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X409182	04-Mar-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X409182	04-Mar-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X409182	04-Mar-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X409182	04-Mar-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X409182	04-Mar-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X409182	04-Mar-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X409182	04-Mar-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X409182	04-Mar-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X409182	04-Mar-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X409182	04-Mar-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X409182	04-Mar-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X409182	04-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X409182	04-Mar-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X409182	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X409182	04-Mar-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X409182	04-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X409182	04-Mar-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X409182	04-Mar-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X409182	04-Mar-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X409182	04-Mar-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X409182	04-Mar-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X409167	08-Mar-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X409167	08-Mar-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X409167	08-Mar-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X409167	08-Mar-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X409167	08-Mar-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X410054	06-Mar-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X410024	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X409005	07-Mar-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X410008	06-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X410025	05-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X410224	08-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X410011	04-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X410011	04-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X410011	04-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X410011	04-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X409075	29-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X409077	29-Feb-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X409066	27-Feb-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X409066	27-Feb-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X409066	27-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X409066	27-Feb-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X409066	27-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X409066	27-Feb-24	

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Work Order: **X4B0392**
Reported: 11-Mar-24 11:07

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	19.6	20.0	98	85 - 115	X409205	05-Mar-24	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X409205	05-Mar-24	
EPA 200.7	Potassium	mg/L	19.9	20.0	99.3	85 - 115	X409205	05-Mar-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.966	1.00	96.6	85 - 115	X409182	04-Mar-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.06	1.00	106	85 - 115	X409182	04-Mar-24	
EPA 200.7	Boron	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Calcium	mg/L	20.2	20.0	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.02	1.00	102	85 - 115	X409182	04-Mar-24	
EPA 200.7	Cobalt	mg/L	0.995	1.00	99.5	85 - 115	X409182	04-Mar-24	
EPA 200.7	Copper	mg/L	1.02	1.00	102	85 - 115	X409182	04-Mar-24	
EPA 200.7	Iron	mg/L	10.3	10.0	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.00	1.00	100	85 - 115	X409182	04-Mar-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	99.8	85 - 115	X409182	04-Mar-24	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.03	1.00	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Nickel	mg/L	1.00	1.00	100	85 - 115	X409182	04-Mar-24	
EPA 200.7	Potassium	mg/L	20.7	20.0	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0492	0.0500	98.4	85 - 115	X409182	04-Mar-24	
EPA 200.7	Sodium	mg/L	19.2	19.0	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.04	1.00	104	85 - 115	X409182	04-Mar-24	
EPA 200.7	Zinc	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.8	Antimony	mg/L	0.0273	0.0250	109	85 - 115	X409167	08-Mar-24	
EPA 200.8	Arsenic	mg/L	0.0274	0.0250	110	85 - 115	X409167	08-Mar-24	
EPA 200.8	Selenium	mg/L	0.0274	0.0250	109	85 - 115	X409167	08-Mar-24	
EPA 200.8	Thallium	mg/L	0.0270	0.0250	108	85 - 115	X409167	08-Mar-24	
EPA 200.8	Uranium	mg/L	0.0267	0.0250	107	85 - 115	X409167	08-Mar-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00202	0.00200	101	85 - 115	X410054	06-Mar-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.100	97.0	90 - 110	X410024	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.0989	0.100	98.9	90 - 110	X409005	07-Mar-24	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X410008	06-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X410025	05-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1690	1640	103	95.4 - 104	X410224	08-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	96.4 - 105	X410011	04-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.2	99.3	99.9	96.4 - 105	X410011	04-Mar-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X409077	29-Feb-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.97	3.00	99.0	90 - 110	X409066	27-Feb-24	
EPA 300.0	Fluoride	mg/L	1.98	2.00	99.1	90 - 110	X409066	27-Feb-24	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	99.9	90 - 110	X409066	27-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.52	4.50	101	90 - 110	X409066	27-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X409066	27-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X409066	27-Feb-24	

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Post Office Box 191
Victor, CO 80860

Work Order: **X4B0392**
Reported: 11-Mar-24 11:07

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	X410224 - X4B0392-01	08-Mar-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	35.9	36.3	1.1	20	X410011 - X4B0392-02	04-Mar-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	35.9	36.3	1.1	20	X410011 - X4B0392-02	04-Mar-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X410011 - X4B0392-02	04-Mar-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X410011 - X4B0392-02	04-Mar-24	
SM 2540 C	Total Diss. Solids	mg/L	326	336	3.0	10	X409075 - X4B0403-01	29-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X409077 - X4B0403-01	29-Feb-24	
SM 4500 H B	pH @18.2°C	pH Units	6.5	6.6	1.5	20	X410011 - X4B0392-02	04-Mar-24	

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	28.6	8.70	20.0	100	70 - 130	X409205 - X4B0327-01	05-Mar-24	
EPA 200.7	Calcium	mg/L	556	524	20.0	0.30R>S	70 - 130	X409205 - X4B0372-01	05-Mar-24	D2,M4
EPA 200.7	Magnesium	mg/L	29.0	8.17	20.0	104	70 - 130	X409205 - X4B0327-01	05-Mar-24	
EPA 200.7	Magnesium	mg/L	215	199	20.0	80.1	70 - 130	X409205 - X4B0372-01	05-Mar-24	
EPA 200.7	Potassium	mg/L	21.3	1.54	20.0	98.9	70 - 130	X409205 - X4B0327-01	05-Mar-24	
EPA 200.7	Potassium	mg/L	103	83.8	20.0	96.6	70 - 130	X409205 - X4B0372-01	05-Mar-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.973	<0.080	1.00	97.3	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Aluminum	mg/L	2.27	1.23	1.00	104	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Barium	mg/L	1.03	<0.0020	1.00	103	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Barium	mg/L	1.04	0.0145	1.00	103	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.06	<0.00200	1.00	106	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.21	0.0674	1.00	114	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Boron	mg/L	1.08	<0.0400	1.00	107	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.01	<0.0020	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.09	0.0032	1.00	109	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Calcium	mg/L	20.5	0.164	20.0	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Calcium	mg/L	91.3	70.1	20.0	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.09	<0.0060	1.00	109	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Cobalt	mg/L	0.989	<0.0060	1.00	98.9	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Cobalt	mg/L	1.18	0.118	1.00	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Copper	mg/L	0.986	<0.0100	1.00	98.6	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Copper	mg/L	1.12	<0.0100	1.00	112	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Iron	mg/L	44.2	33.6	10.0	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Lead	mg/L	1.16	0.0816	1.00	108	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.11	<0.040	1.00	108	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Magnesium	mg/L	20.4	<0.500	20.0	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Magnesium	mg/L	58.2	37.3	20.0	105	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Manganese	mg/L	1.05	<0.0080	1.00	105	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Manganese	mg/L	3.38	2.22	1.00	117	70 - 130	X409182 - X4B0301-02	04-Mar-24	

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: **X4B0392**
Reported: 11-Mar-24 11:07

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	1.00	<0.0080	1.00	100	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.10	<0.0080	1.00	110	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Nickel	mg/L	0.999	<0.0100	1.00	99.3	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Nickel	mg/L	1.30	0.238	1.00	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Potassium	mg/L	21.2	<0.50	20.0	105	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Potassium	mg/L	24.0	2.59	20.0	107	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0506	<0.0050	0.0500	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0512	<0.0050	0.0500	102	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Sodium	mg/L	19.6	<0.50	19.0	103	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Sodium	mg/L	34.4	14.7	19.0	104	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.12	<0.0050	1.00	112	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Zinc	mg/L	1.02	<0.0100	1.00	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Zinc	mg/L	3.12	2.12	1.00	101	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.8	Antimony	mg/L	0.0285	<0.00100	0.0250	114	70 - 130	X409167 - X4B0392-01	08-Mar-24	
EPA 200.8	Arsenic	mg/L	0.0285	<0.00100	0.0250	114	70 - 130	X409167 - X4B0392-01	08-Mar-24	
EPA 200.8	Selenium	mg/L	0.0286	<0.00100	0.0250	114	70 - 130	X409167 - X4B0392-01	08-Mar-24	
EPA 200.8	Thallium	mg/L	0.0266	<0.000200	0.0250	106	70 - 130	X409167 - X4B0392-01	08-Mar-24	
EPA 200.8	Uranium	mg/L	0.0298	0.00341	0.0250	105	70 - 130	X409167 - X4B0392-01	08-Mar-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	99.9	70 - 130	X410054 - X4B0337-01	06-Mar-24	
EPA 245.1	Mercury	mg/L	0.00195	<0.000200	0.00200	97.4	70 - 130	X410054 - X4B0392-01	06-Mar-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	<0.0050	0.100	102	79 - 121	X410024 - X4B0274-01	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.0069	0.100	96.9	90 - 110	X409005 - X4B0291-01	07-Mar-24	H1
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X410008 - X4B0392-01	06-Mar-24	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X410008 - X4B0392-02	06-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	<0.0050	0.100	92.0	82 - 118	X410025 - X4B0274-01	05-Mar-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.82	1.81	3.00	100	90 - 110	X409066 - X4B0392-02	27-Feb-24	
EPA 300.0	Fluoride	mg/L	2.22	0.229	2.00	99.5	90 - 110	X409066 - X4B0392-02	27-Feb-24	
EPA 300.0	Nitrate as N	mg/L	2.61	0.611	2.00	100	90 - 110	X409066 - X4B0392-02	27-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.67	0.611	4.00	101	90 - 110	X409066 - X4B0392-02	27-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	103	90 - 110	X409066 - X4B0392-02	27-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	31.6	21.6	10.0	99.7	90 - 110	X409066 - X4B0392-02	27-Feb-24	

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	28.8	28.6	20.0	0.6	20	100	X409205 - X4B0327-01	
EPA 200.7	Magnesium	mg/L	28.9	29.0	20.0	0.0	20	104	X409205 - X4B0327-01	
EPA 200.7	Potassium	mg/L	21.5	21.3	20.0	0.8	20	99.8	X409205 - X4B0327-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	0.973	1.00	4.2	20	101	X409182 - X4B0301-01	

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Work Order: **X4B0392**
Reported: 11-Mar-24 11:07

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	1.06	1.03	1.00	2.8	20	106	X409182 - X4B0301-01	
EPA 200.7	Beryllium	mg/L	1.06	1.06	1.00	0.6	20	106	X409182 - X4B0301-01	
EPA 200.7	Boron	mg/L	1.06	1.02	1.00	3.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Cadmium	mg/L	1.04	1.01	1.00	2.9	20	104	X409182 - X4B0301-01	
EPA 200.7	Calcium	mg/L	20.8	20.5	20.0	1.6	20	103	X409182 - X4B0301-01	
EPA 200.7	Chromium	mg/L	1.05	1.01	1.00	4.2	20	105	X409182 - X4B0301-01	
EPA 200.7	Cobalt	mg/L	1.02	0.989	1.00	2.9	20	102	X409182 - X4B0301-01	
EPA 200.7	Copper	mg/L	1.02	0.986	1.00	3.5	20	102	X409182 - X4B0301-01	
EPA 200.7	Iron	mg/L	10.5	10.4	10.0	1.2	20	105	X409182 - X4B0301-01	
EPA 200.7	Lead	mg/L	1.03	1.00	1.00	2.6	20	103	X409182 - X4B0301-01	
EPA 200.7	Lithium	mg/L	1.04	1.04	1.00	0.2	20	104	X409182 - X4B0301-01	
EPA 200.7	Magnesium	mg/L	21.0	20.4	20.0	2.9	20	105	X409182 - X4B0301-01	
EPA 200.7	Manganese	mg/L	1.06	1.05	1.00	0.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Molybdenum	mg/L	1.04	1.00	1.00	3.2	20	104	X409182 - X4B0301-01	
EPA 200.7	Nickel	mg/L	1.03	0.999	1.00	2.9	20	102	X409182 - X4B0301-01	
EPA 200.7	Potassium	mg/L	21.5	21.2	20.0	1.2	20	106	X409182 - X4B0301-01	
EPA 200.7	Silver	mg/L	0.0512	0.0506	0.0500	1.2	20	102	X409182 - X4B0301-01	
EPA 200.7	Sodium	mg/L	19.9	19.6	19.0	1.4	20	105	X409182 - X4B0301-01	
EPA 200.7	Vanadium	mg/L	1.06	1.01	1.00	4.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Zinc	mg/L	1.05	1.02	1.00	2.9	20	105	X409182 - X4B0301-01	
EPA 200.8	Antimony	mg/L	0.0291	0.0285	0.0250	2.1	20	117	X409167 - X4B0392-01	
EPA 200.8	Arsenic	mg/L	0.0303	0.0285	0.0250	6.4	20	121	X409167 - X4B0392-01	
EPA 200.8	Selenium	mg/L	0.0296	0.0286	0.0250	3.5	20	118	X409167 - X4B0392-01	
EPA 200.8	Thallium	mg/L	0.0279	0.0266	0.0250	5.0	20	112	X409167 - X4B0392-01	
EPA 200.8	Uranium	mg/L	0.0307	0.0298	0.0250	3.1	20	109	X409167 - X4B0392-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00199	0.00200	0.00200	0.2	20	99.7	X410054 - X4B0337-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.102	0.100	4.0	11	98.0	X410024 - X4B0274-01	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.104	0.100	2.5	20	94.3	X409005 - X4B0291-01	H1
EPA 350.1	Ammonia as N	mg/L	0.998	1.02	1.00	2.2	20	99.8	X410008 - X4B0392-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0980	0.0960	0.100	2.1	11	94.0	X410025 - X4B0274-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.90	4.82	3.00	1.6	20	103	X409066 - X4B0392-02	
EPA 300.0	Fluoride	mg/L	2.27	2.22	2.00	2.1	20	102	X409066 - X4B0392-02	
EPA 300.0	Nitrate as N	mg/L	2.65	2.61	2.00	1.3	20	102	X409066 - X4B0392-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.74	4.67	4.00	1.6	20	103	X409066 - X4B0392-02	
EPA 300.0	Nitrite as N	mg/L	2.10	2.05	2.00	2.1	20	105	X409066 - X4B0392-02	
EPA 300.0	Sulfate as SO4	mg/L	31.8	31.6	10.0	0.7	20	102	X409066 - X4B0392-02	

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Work Order: **X4B0392**
Reported: 11-Mar-24 11:07

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.
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

Newmont
NORTH AMERICA

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QA/QC

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Victor, CO 80860

Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

Client Sample ID: **RB-0220**
SVL Sample ID: **X4B0301-01 (Ground Water)**

Sampled: 20-Feb-24 11:08
Received: 21-Feb-24
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**	0.399	mg/L	0.100	0.069		X409124	NMS	03/01/24 12:53	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X409124	NMS	03/01/24 12:53	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X409124	NMS	03/04/24 11:25	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		03/04/24 12:55	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X409182	NMS	03/04/24 12:55	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X409182	NMS	03/04/24 12:55	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X409182	NMS	03/04/24 12:55	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X409182	NMS	03/04/24 12:55	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X409182	NMS	03/04/24 12:55	
EPA 200.7	**Calcium**	0.164	mg/L	0.100	0.069		X409182	NMS	03/04/24 12:55	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X409182	NMS	03/04/24 12:55	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X409182	NMS	03/04/24 12:55	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X409182	NMS	03/04/24 12:55	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X409182	NMS	03/04/24 12:55	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X409182	NMS	03/04/24 12:55	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X409182	NMS	03/04/24 12:55	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X409182	NMS	03/04/24 12:55	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 12:55	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 12:55	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X409182	NMS	03/04/24 12:55	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X409182	NMS	03/04/24 12:55	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 12:55	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X409182	NMS	03/04/24 12:55	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 12:55	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X409182	NMS	03/04/24 12:55	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X408194	SMU	02/26/24 15:57	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X408194	SMU	02/26/24 15:57	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X408194	SMU	02/26/24 15:57	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X408194	SMU	02/26/24 15:57	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X408194	SMU	02/26/24 15:57	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X409062	MAC	03/01/24 20:42	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X410024	DD	03/04/24 13:45	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X409004	DD	02/29/24 13:04	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X409163	DD	03/01/24 11:42	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X410025	DD	03/05/24 14:57	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X408182	MWD	02/23/24 11:14	
SM 2320 B	**Total Alkalinity**	7.6	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 16:54	
SM 2320 B	**Bicarbonate**	7.6	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 16:54	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 16:54	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 16:54	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X408140	TJL	02/23/24 14:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X408141	TJL	02/27/24 14:50	
SM 4500 H B	**pH @19.3°C**	7.3	pH Units				X408158	MWD	02/22/24 16:54	H5

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

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

Client Sample ID: **RB-0220**
SVL Sample ID: **X4B0301-01 (Ground Water)**

Sampled: 20-Feb-24 11:08
Received: 21-Feb-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.33	mg/L	0.20	0.02		X408135	RS	02/21/24 15:06	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X408135	RS	02/21/24 15:06	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X408135	RS	02/21/24 15:06	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X408135	RS	02/21/24 15:06	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X408135	RS	02/21/24 15:06	
EPA 300.0	**Sulfate as SO4**	1.10	mg/L	0.30	0.18		X408135	RS	02/21/24 15:06	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.04 meq/L Anion Sum: 0.19 meq/L C/A Balance: -66.05 % Calculated TDS: 6 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: **X4B0301**
Reported: 06-Mar-24 11:16

Client Sample ID: **GVMW-115G**
SVL Sample ID: **X4B0301-03 (Ground Water)**

Sampled: 20-Feb-24 10:31
Received: 21-Feb-24
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**	64.2	mg/L	0.100	0.069		X409124	NMS	03/01/24 13:07	
EPA 200.7	**Magnesium**	34.9	mg/L	0.500	0.090		X409124	NMS	03/01/24 13:07	
EPA 200.7	**Potassium**	2.47	mg/L	0.50	0.18		X409124	NMS	03/04/24 11:33	
SM 2340 B	**Hardness (as CaCO3)**	327	mg/L	2.31	0.543		N/A		03/01/24 13:07	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	1.24	mg/L	0.080	0.054		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Barium**	0.0148	mg/L	0.0020	0.0019		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Beryllium**	0.0681	mg/L	0.00200	0.00080		X409182	NMS	03/04/24 13:02	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Cadmium**	0.0033	mg/L	0.0020	0.0016		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Calcium**	70.0	mg/L	0.100	0.069		X409182	NMS	03/04/24 13:02	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Cobalt**	0.116	mg/L	0.0060	0.0046		X409182	NMS	03/04/24 13:02	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Iron**	33.5	mg/L	0.100	0.056		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Lead**	0.0807	mg/L	0.0075	0.0049		X409182	NMS	03/04/24 13:02	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Magnesium**	36.9	mg/L	0.500	0.090		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Manganese**	2.22	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 13:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Nickel**	0.235	mg/L	0.0100	0.0048		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Potassium**	2.65	mg/L	0.50	0.18		X409182	NMS	03/04/24 13:02	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Sodium**	14.7	mg/L	0.50	0.12		X409182	NMS	03/04/24 13:02	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X409182	NMS	03/04/24 13:02	
EPA 200.7	**Zinc**	2.10	mg/L	0.0100	0.0054		X409182	NMS	03/04/24 13:02	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X408194	SMU	02/26/24 16:07	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X408194	SMU	02/26/24 16:07	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X408194	SMU	02/26/24 16:07	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X408194	SMU	02/26/24 16:07	
EPA 200.8	**Uranium**	0.00829	mg/L	0.000100	0.000052		X408194	SMU	02/26/24 16:07	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X409062	MAC	03/01/24 20:46	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X410024	DD	03/04/24 13:49	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X409004	DD	02/29/24 13:10	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X409163	DD	03/01/24 11:46	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X410025	DD	03/05/24 15:00	
SM 2310 B	**Acidity to pH 8.3**	63.2	mg/L as CaCO3	10.0			X408182	MWD	02/23/24 11:14	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 17:05	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 17:05	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 17:05	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X408158	MWD	02/22/24 17:05	
SM 2540 C	**Total Diss. Solids**	698	mg/L	10			X408140	TJL	02/23/24 14:30	
SM 2540 D	**Total Susp. Solids**	10.0	mg/L	5.0			X408141	TJL	02/27/24 14:50	
SM 4500 H B	**pH @19.4°C**	3.7	pH Units				X408158	MWD	02/22/24 17:05	H5,R2B

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

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Post Office Box 191
Victor, CO 80860

Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

Client Sample ID: **GVMW-115G**
SVL Sample ID: **X4B0301-03 (Ground Water)**

Sampled: 20-Feb-24 10:31
Received: 21-Feb-24
Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.67	mg/L	0.20	0.02		X408135	RS	02/21/24 16:36	
EPA 300.0	**Fluoride**	0.721	mg/L	0.100	0.017		X408135	RS	02/21/24 16:36	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X408135	RS	02/21/24 16:36	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X408135	RS	02/21/24 16:36	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X408135	RS	02/21/24 16:36	
EPA 300.0	**Sulfate as SO4**	417	mg/L	3.00	1.80	10	X408135	RS	02/21/24 16:54	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 8.27 meq/L Anion Sum: 8.76 meq/L C/A Balance: -2.91 % Calculated TDS: 539 TDS/cTDS: 1.30

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

Kathryn Salter
Project Manager

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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	X409124	01-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X409124	01-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X409124	04-Mar-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X409182	04-Mar-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X409182	04-Mar-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X409182	04-Mar-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X409182	04-Mar-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X409182	04-Mar-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X409182	04-Mar-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X409182	04-Mar-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X409182	04-Mar-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X409182	04-Mar-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X409182	04-Mar-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X409182	04-Mar-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X409182	04-Mar-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X409182	04-Mar-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X409182	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X409182	04-Mar-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X409182	04-Mar-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X409182	04-Mar-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X409182	04-Mar-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X409182	04-Mar-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X409182	04-Mar-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X409182	04-Mar-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X408194	26-Feb-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X408194	26-Feb-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X408194	26-Feb-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X408194	26-Feb-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X408194	26-Feb-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X409062	01-Mar-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X410024	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X409004	29-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X409004	29-Feb-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X409163	01-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X410025	05-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X408182	23-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X408158	22-Feb-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X408158	22-Feb-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X408158	22-Feb-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X408158	22-Feb-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X408140	23-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X408141	27-Feb-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X408135	21-Feb-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X408135	21-Feb-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X408135	21-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X408135	21-Feb-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X408135	21-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X408135	21-Feb-24	

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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	98	85 - 115	X409124	01-Mar-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.7	85 - 115	X409124	01-Mar-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	101	85 - 115	X409124	04-Mar-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.966	1.00	96.6	85 - 115	X409182	04-Mar-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.06	1.00	106	85 - 115	X409182	04-Mar-24	
EPA 200.7	Boron	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Calcium	mg/L	20.2	20.0	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.02	1.00	102	85 - 115	X409182	04-Mar-24	
EPA 200.7	Cobalt	mg/L	0.995	1.00	99.5	85 - 115	X409182	04-Mar-24	
EPA 200.7	Copper	mg/L	1.02	1.00	102	85 - 115	X409182	04-Mar-24	
EPA 200.7	Iron	mg/L	10.3	10.0	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Lead	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.00	1.00	100	85 - 115	X409182	04-Mar-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	99.8	85 - 115	X409182	04-Mar-24	
EPA 200.7	Manganese	mg/L	1.03	1.00	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.03	1.00	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Nickel	mg/L	1.00	1.00	100	85 - 115	X409182	04-Mar-24	
EPA 200.7	Potassium	mg/L	20.7	20.0	103	85 - 115	X409182	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0492	0.0500	98.4	85 - 115	X409182	04-Mar-24	
EPA 200.7	Sodium	mg/L	19.2	19.0	101	85 - 115	X409182	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.04	1.00	104	85 - 115	X409182	04-Mar-24	
EPA 200.7	Zinc	mg/L	1.01	1.00	101	85 - 115	X409182	04-Mar-24	
EPA 200.8	Antimony	mg/L	0.0243	0.0250	97.2	85 - 115	X408194	26-Feb-24	
EPA 200.8	Arsenic	mg/L	0.0245	0.0250	97.9	85 - 115	X408194	26-Feb-24	
EPA 200.8	Selenium	mg/L	0.0238	0.0250	95.1	85 - 115	X408194	26-Feb-24	
EPA 200.8	Thallium	mg/L	0.0247	0.0250	98.8	85 - 115	X408194	26-Feb-24	
EPA 200.8	Uranium	mg/L	0.0244	0.0250	97.7	85 - 115	X408194	26-Feb-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00189	0.00200	94.3	85 - 115	X409062	01-Mar-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.100	97.0	90 - 110	X410024	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X409004	29-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	0.0950	0.100	95.0	90 - 110	X409004	29-Feb-24	
EPA 350.1	Ammonia as N	mg/L	0.979	1.00	97.9	90 - 110	X409163	01-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0910	0.100	91.0	90 - 110	X410025	05-Mar-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1630	1640	99.1	95.4 - 104	X408182	23-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X408158	22-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.1	99.3	99.8	96.4 - 105	X408158	22-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X408141	27-Feb-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.98	3.00	99.3	90 - 110	X408135	21-Feb-24	
EPA 300.0	Fluoride	mg/L	1.99	2.00	99.4	90 - 110	X408135	21-Feb-24	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	100	90 - 110	X408135	21-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.51	4.50	100	90 - 110	X408135	21-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	100	90 - 110	X408135	21-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X408135	21-Feb-24	

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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	X408182 - X4B0224-01	23-Feb-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X408158 - X4B0301-03	22-Feb-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X408158 - X4B0301-03	22-Feb-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X408158 - X4B0301-03	22-Feb-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X408158 - X4B0301-03	22-Feb-24	
SM 2540 C	Total Diss. Solids	mg/L	265	280	5.5	10	X408140 - X4B0300-02	23-Feb-24	
SM 2540 C	Total Diss. Solids	mg/L	631	641	1.6	10	X408140 - X4B0301-02	23-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	7.0	7.0	0.0	10	X408141 - X4B0301-02	27-Feb-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X408141 - X4B0300-02	27-Feb-24	
SM 4500 H B	pH @19.4°C	pH Units	3.5	3.7	5.0	20	X408158 - X4B0301-03	22-Feb-24	R2B

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	70.4	50.4	20.0	100	70 - 130	X409124 - X4B0284-01	01-Mar-24	
EPA 200.7	Calcium	mg/L	57.8	38.1	20.0	98	70 - 130	X409124 - X4B0322-02	01-Mar-24	
EPA 200.7	Magnesium	mg/L	26.0	5.91	20.0	101	70 - 130	X409124 - X4B0284-01	01-Mar-24	
EPA 200.7	Magnesium	mg/L	24.0	4.46	20.0	97.9	70 - 130	X409124 - X4B0322-02	01-Mar-24	
EPA 200.7	Potassium	mg/L	38.2	18.3	20.0	99.3	70 - 130	X409124 - X4B0284-01	04-Mar-24	
EPA 200.7	Potassium	mg/L	32.8	13.3	20.0	97.4	70 - 130	X409124 - X4B0322-02	04-Mar-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.973	<0.080	1.00	97.3	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Aluminum	mg/L	2.27	1.23	1.00	104	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Barium	mg/L	1.03	<0.0020	1.00	103	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Barium	mg/L	1.04	0.0145	1.00	103	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.06	<0.00200	1.00	106	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Beryllium	mg/L	1.21	0.0674	1.00	114	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Boron	mg/L	1.08	<0.0400	1.00	107	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.01	<0.0020	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Cadmium	mg/L	1.09	0.0032	1.00	109	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Calcium	mg/L	20.5	0.164	20.0	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Calcium	mg/L	91.3	70.1	20.0	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Chromium	mg/L	1.09	<0.0060	1.00	109	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Cobalt	mg/L	0.989	<0.0060	1.00	98.9	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Cobalt	mg/L	1.18	0.118	1.00	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Copper	mg/L	0.986	<0.0100	1.00	98.6	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Copper	mg/L	1.12	<0.0100	1.00	112	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Iron	mg/L	44.2	33.6	10.0	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Lead	mg/L	1.00	<0.0075	1.00	100	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Lead	mg/L	1.16	0.0816	1.00	108	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Lithium	mg/L	1.11	<0.040	1.00	108	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Magnesium	mg/L	20.4	<0.500	20.0	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Magnesium	mg/L	58.2	37.3	20.0	105	70 - 130	X409182 - X4B0301-02	04-Mar-24	

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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	1.05	<0.0080	1.00	105	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Manganese	mg/L	3.38	2.22	1.00	117	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Molybdenum	mg/L	1.10	<0.0080	1.00	110	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Nickel	mg/L	0.999	<0.0100	1.00	99.3	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Nickel	mg/L	1.30	0.238	1.00	106	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Potassium	mg/L	21.2	<0.50	20.0	105	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Potassium	mg/L	24.0	2.59	20.0	107	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0506	<0.0050	0.0500	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Silver	mg/L	0.0512	<0.0050	0.0500	102	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Sodium	mg/L	19.6	<0.50	19.0	103	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Sodium	mg/L	34.4	14.7	19.0	104	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Vanadium	mg/L	1.12	<0.0050	1.00	112	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.7	Zinc	mg/L	1.02	<0.0100	1.00	102	70 - 130	X409182 - X4B0301-01	04-Mar-24	
EPA 200.7	Zinc	mg/L	3.12	2.12	1.00	101	70 - 130	X409182 - X4B0301-02	04-Mar-24	
EPA 200.8	Antimony	mg/L	0.0238	<0.00100	0.0250	95.3	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Antimony	mg/L	0.0283	<0.00100	0.0250	113	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Arsenic	mg/L	0.0240	<0.00100	0.0250	96.2	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Arsenic	mg/L	0.0289	<0.00100	0.0250	114	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Selenium	mg/L	0.0241	<0.00100	0.0250	96.3	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Selenium	mg/L	0.0291	<0.00100	0.0250	113	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Thallium	mg/L	0.0245	<0.000200	0.0250	98.0	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Thallium	mg/L	0.0262	<0.000200	0.0250	105	70 - 130	X408194 - X4B0310-10	26-Feb-24	
EPA 200.8	Uranium	mg/L	0.0245	<0.000100	0.0250	98.0	70 - 130	X408194 - X4B0301-01	26-Feb-24	
EPA 200.8	Uranium	mg/L	0.0384	0.0114	0.0250	108	70 - 130	X408194 - X4B0310-10	26-Feb-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00189	<0.000200	0.00200	94.3	70 - 130	X409062 - X4B0268-01	01-Mar-24	
EPA 245.1	Mercury	mg/L	0.00199	<0.000200	0.00200	99.2	70 - 130	X409062 - X4B0301-01	01-Mar-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.102	<0.0050	0.100	102	79 - 121	X410024 - X4B0274-01	04-Mar-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	100	90 - 110	X409004 - X4B0274-01	29-Feb-24	
EPA 335.4	Cyanide (total)	mg/L	0.0988	<0.0050	0.100	98.8	90 - 110	X409004 - X4B0229-02	29-Feb-24	
EPA 350.1	Ammonia as N	mg/L	1.09	<0.030	1.00	109	90 - 110	X409163 - X4B0301-01	01-Mar-24	
EPA 350.1	Ammonia as N	mg/L	1.04	<0.030	1.00	101	90 - 110	X409163 - X4B0301-02	01-Mar-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	<0.0050	0.100	92.0	82 - 118	X410025 - X4B0274-01	05-Mar-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.34	0.33	3.00	100	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Chloride	mg/L	4.27	1.30	3.00	99.2	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Fluoride	mg/L	2.04	<0.100	2.00	101	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Fluoride	mg/L	2.00	<0.100	2.00	98.7	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	102	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Nitrate as N	mg/L	2.23	0.244	2.00	99.5	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.09	<0.100	4.00	102	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.26	0.244	4.00	100	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X408135 - X4B0301-01	21-Feb-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X408135 - X4B0322-01	21-Feb-24	
EPA 300.0	Sulfate as SO4	mg/L	11.5	1.10	10.0	104	90 - 110	X408135 - X4B0301-01	21-Feb-24	

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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	Sulfate as SO4	mg/L	19.5	9.47	10.0	100	90 - 110	X408135 - X4B0322-01	21-Feb-24	

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	71.9	70.4	20.0	2.0	20	107	X409124 - X4B0284-01	
EPA 200.7	Magnesium	mg/L	26.6	26.0	20.0	2.4	20	104	X409124 - X4B0284-01	
EPA 200.7	Potassium	mg/L	38.8	38.2	20.0	1.6	20	102	X409124 - X4B0284-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	0.973	1.00	4.2	20	101	X409182 - X4B0301-01	
EPA 200.7	Barium	mg/L	1.06	1.03	1.00	2.8	20	106	X409182 - X4B0301-01	
EPA 200.7	Beryllium	mg/L	1.06	1.06	1.00	0.6	20	106	X409182 - X4B0301-01	
EPA 200.7	Boron	mg/L	1.06	1.02	1.00	3.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Cadmium	mg/L	1.04	1.01	1.00	2.9	20	104	X409182 - X4B0301-01	
EPA 200.7	Calcium	mg/L	20.8	20.5	20.0	1.6	20	103	X409182 - X4B0301-01	
EPA 200.7	Chromium	mg/L	1.05	1.01	1.00	4.2	20	105	X409182 - X4B0301-01	
EPA 200.7	Cobalt	mg/L	1.02	0.989	1.00	2.9	20	102	X409182 - X4B0301-01	
EPA 200.7	Copper	mg/L	1.02	0.986	1.00	3.5	20	102	X409182 - X4B0301-01	
EPA 200.7	Iron	mg/L	10.5	10.4	10.0	1.2	20	105	X409182 - X4B0301-01	
EPA 200.7	Lead	mg/L	1.03	1.00	1.00	2.6	20	103	X409182 - X4B0301-01	
EPA 200.7	Lithium	mg/L	1.04	1.04	1.00	0.2	20	104	X409182 - X4B0301-01	
EPA 200.7	Magnesium	mg/L	21.0	20.4	20.0	2.9	20	105	X409182 - X4B0301-01	
EPA 200.7	Manganese	mg/L	1.06	1.05	1.00	0.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Molybdenum	mg/L	1.04	1.00	1.00	3.2	20	104	X409182 - X4B0301-01	
EPA 200.7	Nickel	mg/L	1.03	0.999	1.00	2.9	20	102	X409182 - X4B0301-01	
EPA 200.7	Potassium	mg/L	21.5	21.2	20.0	1.2	20	106	X409182 - X4B0301-01	
EPA 200.7	Silver	mg/L	0.0512	0.0506	0.0500	1.2	20	102	X409182 - X4B0301-01	
EPA 200.7	Sodium	mg/L	19.9	19.6	19.0	1.4	20	105	X409182 - X4B0301-01	
EPA 200.7	Vanadium	mg/L	1.06	1.01	1.00	4.5	20	106	X409182 - X4B0301-01	
EPA 200.7	Zinc	mg/L	1.05	1.02	1.00	2.9	20	105	X409182 - X4B0301-01	
EPA 200.8	Antimony	mg/L	0.0238	0.0238	0.0250	0.1	20	95.2	X408194 - X4B0301-01	
EPA 200.8	Arsenic	mg/L	0.0245	0.0240	0.0250	1.8	20	97.9	X408194 - X4B0301-01	
EPA 200.8	Selenium	mg/L	0.0237	0.0241	0.0250	1.5	20	94.8	X408194 - X4B0301-01	
EPA 200.8	Thallium	mg/L	0.0246	0.0245	0.0250	0.5	20	98.5	X408194 - X4B0301-01	
EPA 200.8	Uranium	mg/L	0.0244	0.0245	0.0250	0.4	20	97.5	X408194 - X4B0301-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00171	0.00189	0.00200	10.1	20	85.2	X409062 - X4B0268-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.102	0.100	4.0	11	98.0	X410024 - X4B0274-01	
EPA 335.4	Cyanide (total)	mg/L	0.0978	0.100	0.100	2.6	20	97.8	X409004 - X4B0274-01	
EPA 350.1	Ammonia as N	mg/L	1.03	1.09	1.00	5.4	20	103	X409163 - X4B0301-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0980	0.0960	0.100	2.1	11	94.0	X410025 - X4B0274-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.31	3.34	3.00	0.9	20	99.2	X408135 - X4B0301-01	
EPA 300.0	Fluoride	mg/L	2.02	2.04	2.00	0.8	20	99.8	X408135 - X4B0301-01	
EPA 300.0	Nitrate as N	mg/L	2.01	2.03	2.00	1.4	20	100	X408135 - X4B0301-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.06	4.09	4.00	0.8	20	101	X408135 - X4B0301-01	
EPA 300.0	Nitrite as N	mg/L	2.05	2.06	2.00	0.3	20	103	X408135 - X4B0301-01	

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Work Order: **X4B0301**
Reported: 06-Mar-24 11:16

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
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	11.4	11.5	10.0	0.6	20	103	X408135 - X4B0301-01	

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Work Order: **X4B0301**
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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.
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

Sampling Logs

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley
Technician: P. Barela
Static Water Level (DTW): —
Date: 2/29/24
Quarter: 1
Well ID: GVMW-4A
Well Depth (TD): 480 feet
Is well Dry? —
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
3:00								

NO SAMPLE

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 (deg C)		3%	Y / N	
Dissolved Oxyge		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Red uction		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N
** See Field Volume Guide*
If yes, required pump vol (gal): ____ Actual vol. pumped (gal) ____ following stabilization

O/G visible: ~~Y / N~~
Turbid? Y / N
Equipment Decontaminated: Y / N
~~Decontamination procedure used:~~ Inaccessible. Too much snow to access well

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: Grassy Valley
Technician: P. Birtig
Static Water Level (DTW): 49.1
Date: 2/26/24
Quarter: 1
Well ID: GvMW-7A
Well Depth (TD): 200

Is well Dry? NO
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
2:08			7.42	422.9	4.8	2.61	26.2	
2:13	49.3	0.2	7.42	431.5	4.3	2.57	-15.0	
2:18	49.4	0.1	7.42	431.3	4.6	2.08	-33.7	0.3 YM (39)
2:23	49.4	0	7.41	430.0	4.5	2.27	-34.3	
2:28	49.4	0	7.41	430.8	4.5	2.20	-36.1	
2:33	49.4	0	7.41	430.8	4.5	2.24	-37.3	
	Total drawdown	0.3'						

Stabilization ↓ *

Sample Method: Low Flow
Rate (gpm): ~0.07 * Flow rate at stabilization (during sample collection)
Time Start: 2:08 Time End: 2:33

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.41	±0.1	(Y) / N	
Conductivity	430.8	3%	(Y) / N	
Temp (deg C)	4.5	3%	(Y) / N	
Dissolved Oxyger	2.24	10%	(Y) / N	
Turbidity	clear	10%	(Y) / N	
Oxidation/Reduction	-37.3	±10	(Y) / N	
DTW Stabilized	49.4	feet	(Y) / N	
Final H2O level	49.4	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N)
* See Field Volume Guide
If yes, required pump vol (gal): 1.14 Actual vol. pumped (gal) ~1.5 gal following stabilization

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse w/ liquinox before sampling

Weather: 38° cold, 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:
0.3 = 0.0 + 1.14 = 1.14
draw down

Use 5gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley
Technician: P. Barela
Static Water Level (DTW): 47.6
Date: 2.26.24
Quarter: 1
Well ID: GVMW-7B
Well Depth (TD): 49 feet
Is well Dry? —
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1:40								INSUFFICIENT NO SAMPLE

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 (deg C)		3%	Y / N	
Dissolved Oxyger		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N
* See Field Volume Guide
If yes, required pump vol (gal): —
Actual vol. pumped (gal) —
following stabilization

O/G visible: Y / N
Equipment Decontaminated: Y / N
Turbid? Y / N

Decontamination procedure used: use sander

Weather: 38°, cold, 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: Grassy valley
Technician: P. Barela
Static Water Level (DTW): 144.5
Date: 2/28/24
Quarter: 1
Well ID: GVMW-8A
Well Depth (TD): 250 feet
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:04			6.74	399.6	6.2	3.05	306.4	
12:09	144.6	0.1	6.67	348.4	6.4	3.23	297.6	
12:14	144.6	0	6.68	347.8	6.5	3.23	280.7	0.46 4m
12:19	144.6	0	6.69	349.0	6.5	3.35	261.8	
12:24	144.6	0	6.64	396.4	6.6	3.34	263.2	

Stabilization * (277)

Total draw down = 0.1'

Sample Method: Low Flow
Rate (gpm): ~0.12 * Flow rate at stabilization (during sample collection)
Time Start: 12:04 Time End: 12:24

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.64	±0.1	(Y) / N	
Conductivity	346.4	3%	Y / N	
Temp (deg C)	6.6	3%	Y / N	
Dissolved Oxyger	3.34	10%	Y / N	
Turbidity	clear	10%	Y / N	
Oxidation/Reduction	263.2	±10	Y / N	
DTW Stabilized	144.6	feet	Y / N	
Final H2O level	144.6	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) * See Field Volume Guide
If yes, required pump vol (gal): 1.43 following stabilization
Actual vol. pumped (gal) ~3.5

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Dedicated Pump

Weather: 32° 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:
0.0 + 1.43 = 1.43
ref. Groundwater well sheet

Use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: P. Barela
Static Water Level (DTW): 46.3
Date: 2/28/24
Quarter: 1
Well ID: GVMW-8B
Well Depth (TD): 417 feet
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:44								

Insufficient
NO Sample Collected.

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 (deg C)		3%	Y / N	
Dissolved Oxygen		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N
* See Field Volume Guide
If yes, required pump vol (gal): — following stabilization
Actual vol. pumped (gal)

O/G visible: Y / N
Turbid? Y / N
Equipment Decontaminated: Y / N
Decontamination procedure used: use sounder
Weather: 32° 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: Grassy valley
Technician: P. Barela
Static Water Level (DTW): —
Is well Dry? Yes
If so Dry at: 245.5 feet

Date: 2/29/24
Quarter: 1
Well ID: GVMW-10
Well Depth (TD): 245.5

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:10								

NO SAMPLE

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 (deg C)		3%	Y / N	
Dissolved Oxyger		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Met 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: 38° Clear, windy, 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: Grassy Valley
Date: 2-21-24
Technician: P. Barela
Quarter: 1
Static Water Level (DTW): 94.7
Well ID: GVMW-15A
Depth To water post-pump insert 95.55
Well Depth (TD): 820 feet
Is well Dry? ~~[struck]~~ NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:59			6.98	373.3	5.5	0.41	-38.8	Started pumping
11:04	97.4	2.7	7.04	350.3	5.6	0.63	-64.9	
11:09	97.6	0.2	7.02	350.2	5.7	2.3	-86.9	
11:14	97.7	0.1	7.00	347.1	6.2	0.17	-94.9	0.65 M/L (227)
11:19	98.0	0.3	7.01	344.9	6.7	0.12	-103.3	
11:24	98.3	0.3	6.98	343.0	6.9	0.12	-106.6	
11:29	98.4	0.1	6.97	341.0	6.9	0.09	-107.9	
	total draw down	3.7'						

Sample Method: Low Flow
Rate (gpm): ~0.17
Flow rate at stabilization (during sample collection)
Time Start: 10:59
Time End: 11:29

Started at .3 then reduce to 0.17

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.97	±0.1	(Y) / N	
Conductivity	341.0	3%	(Y) / N	
Temp (deg C)	6.9	3%	(Y) / N	
Dissolved Oxygen	0.09	10%	(Y) / N	
Turbidity	—	10%	(Y) / N	
Oxidation/Reduction	-107.9	±10	(Y) / N	
DTW Stabilized	98.4	feet	(Y) / N	
Final H2O level	98.4	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N
** See Field Volume Guide*
If yes, required pump vol (gal): following stabilization
Actual vol. pumped (gal): 7 gal

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N
Turbid? (Y) / (N) slight

~~Decontamination procedure used:~~ Grab sample due to suspected broken casing. water level did not stabalize. Purged ~105g after sample collection.

Weather: Clear, wind,

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:
$1 ft^3 = 7.48\ gal$
$1 gal = 3.785\ L$

Show Calculations:
use 5gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: P. Barela
Static Water Level (DTW): 82.5
Date: 2-20-24
Quarter: 1
Well ID: GVMW-15B
Well Depth (TD): 102 feet
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:43			3.64	121.9	5.6	4.71	162.4	Started Pumping.
10:11	86.7	4.2	4.20	120.4	5.6	0.05	255.5	4.04 4m (121)
10:16	87.1	0.4	4.20	219.8	5.6	0.06	252.8	
10:21	87.1	0	4.20	233.4	5.7	0.09	237.2	
10:26	87.1	0	4.21	234.2	5.6	0.10	236.2	
10:31	87.1	0	4.21	235.5	5.7	0.12	234.7	
	Total drawdown	4.6'						

Sample Method: 3 well volume
Rate (gpm): ~1.06 * Flow rate at stabilization (during sample collection)
Time Start: 9:43 Time End: 10:31

Final Parameters	Stabilization Guidance		Met?	Comments
pH	4.21	±0.1	Y / N	
Conductivity	235.5	3%	Y / N	
Temp (deg C)	5.7	3%	Y / N	
Dissolved Oxyger	0.12	10%	Y / N	.5 mg/L for volumetric purge
Turbidity	clear	10%	Y / N	
Oxidation/Reduction	~~ORP~~ 234.7	±10	Y / N	
DTW Stabilized	87.1	feet	Y / N	
Final H2O level	87.1	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N
* See Field Volume Guide
If yes, required pump vol (gal) following stabilization: 38.16
Actual vol. pumped (gal) ~48 gal

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N

Decontamination procedure used: Triple rinse all equipment w/liquinox
collected duplicate.

Weather: 41° windy, 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:
102 - 82.5 = 19.5
0.6528 x 19.5 = 12.72
3 x 12.72 = 38.16

* use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley
Technician: P. Barela
Static Water Level (DTW): 82.5
Date: 2-20-24
Quarter: 1
Well ID: GVMW-115G
Well Depth (TD): 102 feet
Is well Dry? _____ **If so Dry at:** _____

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:31	87.1	0	4.21	235.5	5.7	0.12	234.7	Duplicate of GVMW-15B

Sample Method: 3 well volume **Rate (gpm):** ~1.06 * Flow rate at stabilization (during sample collection) **Time Start:** 9:43 **Time End:** 10:31

Final Parameters	Stabilization Guidance		Met?	Comments
pH		±0.1	Y / N	
Conductivity		3%	Y / N	
Temp (deg C)		3%	Y / N	
Dissolved Oxyger		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N * See Field Volume Guide
If yes, required pump vol (gal): _____ following stabilization
Actual vol. pumped (gal) ~48 gal.

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse all equipment w/ liquinox. Collected duplicate after collecting GVMW-15B
Weather: 41° windy, cold, 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

Surface Water Sampling Log

Date: 2-20-24

Location: BB-0220

Quarter: 1

Technician: P. Barclay

Time	pH (S.U.)	Cond (uS/cm)	Temp. (°C)	Notes	
				ORP	DO
11:08	7.67	49.5	5.7	120.4	6.82

Sample Method: Grab

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: clear 41°

Signature:

Comments:

Collected BB after collecting GVMW-15B

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: P. Barela
Static Water Level (DTW): —
Date: 2-20-24
Quarter: 1
Well ID: GVMW-15C
Well Depth (TD): 1000 feet
Is well Dry? —
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:45								

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 (deg C)		3%	Y / N	
Dissolved Oxyger		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Red uction		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N
** See Field Volume Guide*
If yes, required pump vol (gal): — following stabilization
Actual vol. pumped (gal) —

O/G visible: Y / N
Turbid? Y / N
Equipment Decontaminated: Y / N
~~Decontamination procedure used~~ Gaged to 800 ft, NO water detected. Potentially blocked at 600 ft beyond gaging & Pumping Capabilities.
~~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

Groundwater Sampling Log

Location: Grassy valley
Technician: P. Burella
Static Water Level (DTW): ~~3.9~~
Is well Dry? NO

Date: 2/28/24
Quarter: 1
Well ID: GVMW-22A
Well Depth (TD): 70
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:20								

Frozen

NO sample collected

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 (deg C)		3%	Y / N	
Dissolved Oxyger		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N
* See Field Volume Guide
If yes, required pump vol (gal): following stabilization
Actual vol. pumped (gal) —

O/G visible: Y / N
Equipment Decontaminated: Y / N
Turbid? Y / N

Decontamination procedure used:

Weather: 32° 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: Grassy Valley
Technician: P. Barela
Static Water Level (DTW): 3.95
Date: 2/28/24
Quarter: 1
Well ID: GVMW-22B
Well Depth (TD): 30 feet

Is well Dry? NO **If so Dry at:** —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:32			6.63	442.6	5.5	1.15	168.2	
9:37	4.35	0.4	6.57	399.9	5.6	0.62	158.4	
9:42	4.4	0.05	6.58	380.5	5.5	0.30	140.6	
9:47	4.45	0.05	6.57	379.6	5.5	0.25	130.8	1.03 L/m (7)
9:52	4.45	0	6.57	380.4	5.5	0.23	127.5	
9:57	4.45	0	6.57	379.8	5.5	0.24	125.9	
	Total drawdown	0.5'						

Stabilization *

Sample Method: Low flow **Rate (gpm):** ~0.27 **Time Start:** 9:32 **Time End:** 9:57
* Flow rate at stabilization (during sample collection)

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.57	±0.1	(Y) / N	
Conductivity	379.8	3%	(Y) / N	
Temp (deg C)	5.5	3%	(Y) / N	
Dissolved Oxygen	0.24	10%	(Y) / N	
Turbidity	clear	10%	(Y) / N	
Oxidation/Reduction	125.9	±10	(Y) / N	
DTW Stabilized	4.45	feet	(Y) / N	
Final H2O level	4.45	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N If yes, required pump vol (gal): 0.47 Actual vol. pumped (gal) ~5 gal total
* See Field Volume Guide
following stabilization

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N
Turbid? Y / (N)

Decontamination procedure used: Triple rinse w/ liquinox before sampling

Weather: 32° 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:
0.3 + 0.17 = 0.47
ref. Ground water well sheet

use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Brassy Valley
Technician: D. Barela
Static Water Level (DTW): 216.7

Date: 2/29/24
Quarter: 1
Well ID: GVMW-24A
Well Depth (TD): 250 feet

Is well Dry? _____ If so Dry at: _____

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1:20								

NO SAMPLE

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 (deg C)		3%	Y / N	
Dissolved Oxyger		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N
* See Field Volume Guide
If yes, required pump vol (gal): _____ following stabilization
Actual vol. pumped (gal) _____

O/G visible: Y / N
Turbid? Y / N
Equipment Decontaminated: Y / N

Decontamination procedure used: Road was under construction. unable to sample but was able to gage.

Weather: 38° 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: Grassy valley
Technician: P. Barela
Static Water Level (DTW): —
Is well Dry? Yes
If so Dry at: 100 feet

Date: 2-26-24
Quarter: 1
Well ID: GVMW-24B
Well Depth (TD): 100

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:24								NO SAMPLE collected

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 (deg C)		3%	Y / N	
Dissolved Oxyger		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N
* See Field Volume Guide
If yes, required pump vol (gal) following stabilization: —
Actual vol. pumped (gal): —

O/G visible: Y / N
Equipment Decontaminated: Y / N
Turbid? Y / N

Decontamination procedure used: use sounder

Weather: 36° cold, 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: Grassy Valley
Technician: R. Barela
Static Water Level (DTW): 63.6
Date: 2/28/24
Quarter: 1
Well ID: GvMW-25
Well Depth (TD): 79
Is well Dry? NO
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:50			3.92	4607	4.5	2.60	363.6	
10:55	63.7	0.1	3.95	4645	5.0	1.51	407.4	
11:00	63.7	0	3.95	4514	5.9	1.61	429.3	0.23 4m
11:05	63.7	0	3.95	4477	6.0	1.59	438.3	
11:10	63.7	0	3.95	4317	6.1	1.55	443.5	
11:15	63.7	0	3.95	4340	6.1	1.52	445.1	
	Total draw down	0.1'						

Stabilization * 1

50

Sample Method: Low Flow
Rate (gpm): ~0.06 * Flow rate at stabilization (during sample collection)
Time Start: 10:50 Time End: 11:15

Final Parameters	Stabilization Guidance		Met?	Comments
pH	3.95	±0.1	Y / N	
Conductivity	4340	3%	Y / N	
Temp (deg C)	6.1	3%	Y / N	
Dissolved Oxyge	1.52	10%	Y / N	
Turbidity	clear	10%	Y / N	
Oxidation/Reduction	445.1	±10	Y / N	
DTW Stabilized	63.7	feet	Y / N	
Final H2O level	63.7	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N * See Field Volume Guide
If yes, required pump vol (gal): 0.55 following stabilization
Actual vol. pumped (gal) ~2 gal total

O/G visible: Y / N
Turbid? Y / N
Equipment Decontaminated: Y / N
Decontamination procedure used: Triple rinse w/ liquinox before sampling

Weather: 32° 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:

0.1 * 0.1 + 0.45 = 0.55

draw down

use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: P. Barela
Static Water Level (DTW): 6.25
Is well Dry? NO
If so Dry at: —
Date: 2/26/24
Quarter: 1
Well ID: GVMW-26A
Well Depth (TD): 70 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:19			7.74	611.0	4.7	0.85	265.9	
10:24	6.43	0.18	7.85	468.0	5.3	0.22	244.6	
10:29	6.42	+0.01	7.87	457.3	5.1	0.16	235.2	0.16 4m (8)
10:34	6.42	0	7.87	451.0	5.0	0.18	225.1	
10:39	6.42	0	7.85	451.4	4.9	0.14	215.2	
10:44	6.42	0	7.85	446.9	5.2	0.12	206.1	
10:49	6.42	0	7.85	447.1	5.2	0.13	205.8	
10:54	6.42	0	7.85	445.4	5.2	0.12	119.4	
	total draw down	=0.17						

stabilize

Sample Method: Low Flow
Rate (gpm): ~0.04 * Flow rate at stabilization (during sample collection)
Time Start: 10:19 Time End: 10:54

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.85	±0.1	Y / N	
Conductivity	445.4	3%	Y / N	
Temp (deg C)	5.2	3%	Y / N	
Dissolved Oxyger	0.12	10%	Y / N	
Turbidity	clear	10%	Y / N	
Oxidation/Red uction	119.4	±10	Y / N	
DTW Stabilized	6.42	feet	Y / N	
Final H2O level	6.42	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) * See Field Volume Guide
If yes, required pump vol (gal): ~~0.67~~ 1.11 following stabilization
Actual vol. pumped (gal) ~4 gal

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple rinse w/ Liquinox before sampling

Weather: 35° cold, 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:
1.1 = 0.7 + 0.41 = 1.11
V
~ draw down

ref. groundwater well Field Vo. Guide

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: P. Barela
Static Water Level (DTW): 5.90
Date: 2-26-24
Quarter: 1
Well ID: GVMW-26B
Well Depth (TD): 25 feet
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:25			6.62	253.8	3.8	6.97	212.6	
11:30	5.95	0.05	6.30	246.5	4.3	6.33	195.1	
11:35	5.97	0.02	6.33	223.6	4.8	6.95	195.5	
11:40	5.98	0.01	6.33	218.3	4.8	6.12	199.6	0.29 L/m
11:45	5.99	0.01	6.34	212.0	5.0	5.93	203.5	
11:50	5.99	0	6.35	210.3	5.0	5.85	205.8	
11:55	5.99	0	6.35	210.0	5.0	5.88	207.0	
	Total draw down	~0.9"						

Stabilization * (margin note); (8)

Sample Method: Low Flow
Rate (gpm): ~0.07
* Flow rate at stabilization (during sample collection)
Time Start: 11:25
Time End: 11:55

Final Parameter		Stabilization Guidance	Met?	Comments
pH	6.35	±0.1	Y	
Conductivity	210.0	3%	Y	
Temp (deg C)	5.0	3%	Y	
Dissolved Oxygen	5.88	10%	Y	
Turbidity	clear	10%	Y	
Oxidation/Reduction	207.0	±10	Y	
DTW Stabilized	5.99	feet	Y	
Final H2O level	5.99	feet		

If Low Flow Met Drawdown greater than 0.33 ft? **(Y)** / N
* See Field Volume Guide

If yes, required pump vol (gal): ~~0.74~~ 0.74 following stabilization
Actual vol. pumped (gal) ~1.5 gal

O/G visible: Y / **(N)**
Turbid? Y / **(N)**
Equipment Decontaminated: **(Y)** / N
Decontamination procedure used: Triple rinse w/ liquinox before sampling

Weather: 36° windy, cold
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:
$1 ft^3 = 7.48\ gal$
$1 gal = 3.785\ L$

Show Calculations:
0.9 (draw down) = 0.6 + 0.14 = 0.74

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location : SEEP - 1

Date: 2.5.24

Technician: B. Barela

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
1:58	—	—	—	—

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: Clear, Sunny

Signature:

Comments:

Frozen, NO Flow, Packed w/ Snow

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location : Seep -2

Date: 2.5.24

Technician: P. Barela

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
1:50	—	—	—	—

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: clear, sunny

Signature:

Comments:

Frozen, Packed w/ Snow

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location : GV-02

Date: 2.5.24

Technician: J. Barela

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
2:17	/	/	/	/

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: Clear, sunny

Signature:

Comments:

NO Flow, Packed w/snow

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: GV-03

Date: 2-5-24

Technician: T. Barela

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
9:43	/	/	/	/

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: clear, sunny

Signature:

Comments:

Snow Packed. NO FLOW

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: GV-06

Date: 2-5-24

Technician: P. Barela

Quarter: 1

Time	pH (S.U.)	Cond (uS/cm)	Temp. (°C)	Notes
9:47	/	/	/	/

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: Clear, Sunny

Signature:

Comments:

Snow Packed. NO Flow
Frozen

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location : EMP - 16

Date: 2-5-24

Technician: P. Barela

Quarter: 1

Time	pH (S.U.)	Cond (uS/cm)	Temp. (°C)	Notes
1:43	—	—	—	—

Sample Method: _____

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: Clear, sunny

Signature: _____

Comments:

NO Flow. Packed w/ snow

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: EMP-17

Date: 2-5-24

Technician: R. Barela

Quarter: 1

Time	pH (S.U.)	Cond (uS/cm)	Temp. (°C)	Notes
1:49	/	/	/	/

Sample Method: ———

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: clear, sunny

Signature:

Comments:

NO FLOW / Packed w/ snow

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location : EMP-MA

Date: 2-5-24

Technician: Q. Barela

Quarter: 1

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
1:47	/	/	/	/

Sample Method: _____

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: Clear, Sunny

Signature: _____

Comments:

NO Flow. Packed w/ Snow

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Date: 2.5.24

Location: EMP-20

Quarter: 1

Technician: R. Barela

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
1:56	—	—	—	—

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: Clear, Sunny

Signature:

Comments:

No Flow Packed w/ snow

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Date: 2.5.24

Location: EMP-173

Quarter: 1

Technician: J. Bareld

Time	pH (S.U.)	Cond. (uS/cm)	Temp. °C	Notes
1:49	/	/	/	/

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: clear, sunny

Signature:

Comments:

NO FLOW, Packed w/ snow

Newmont
NORTH AMERICA

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

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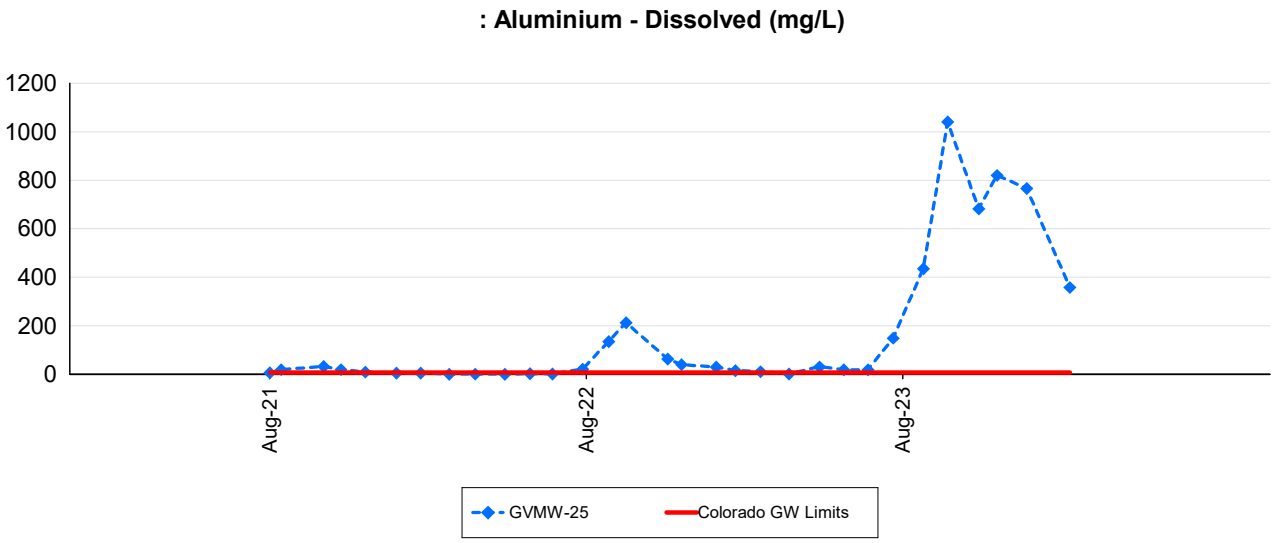
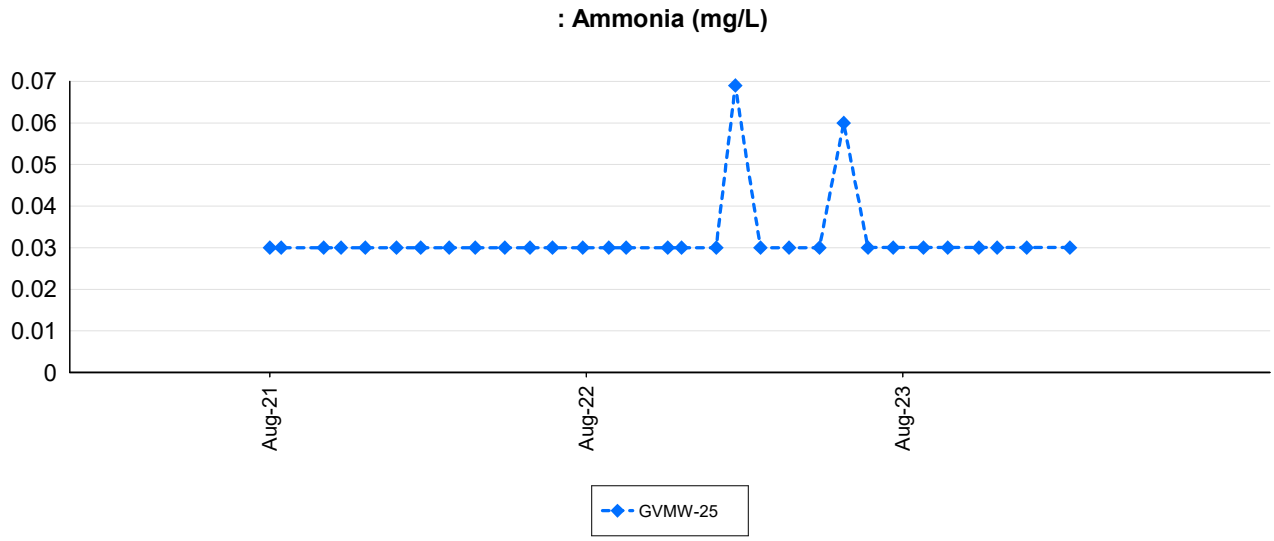
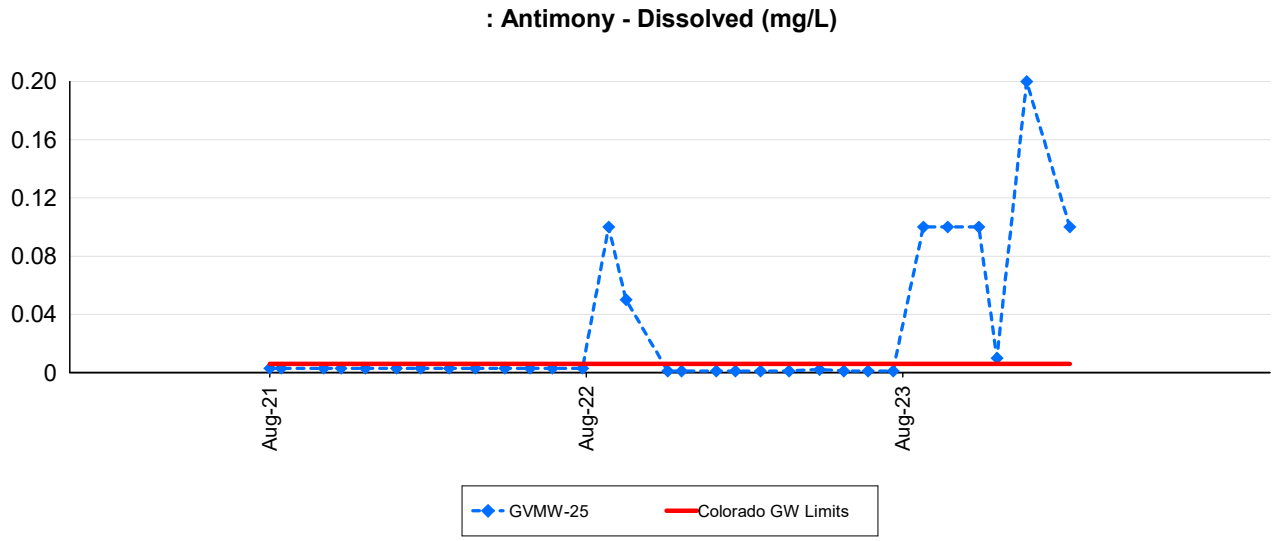
newmont.com

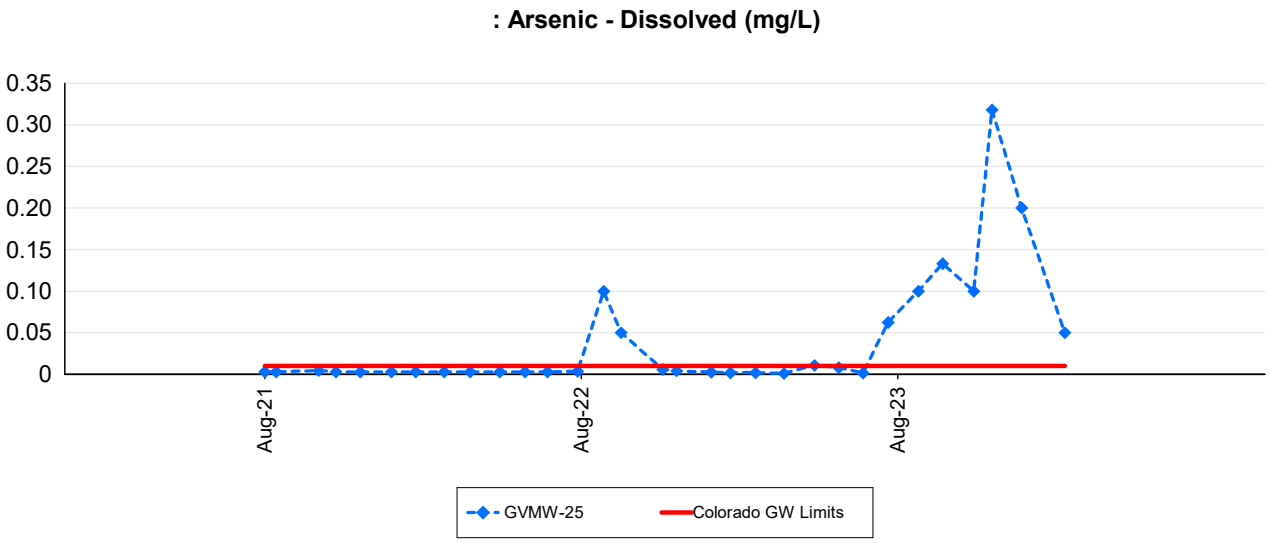
Attachment 3

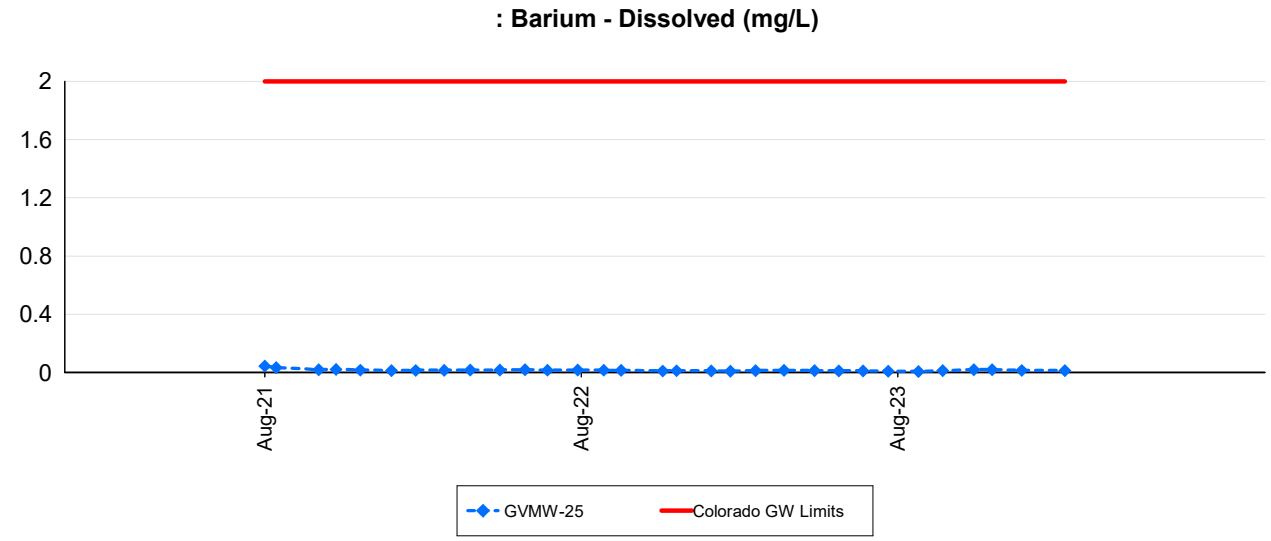
GVMW-25 Historical Graphs

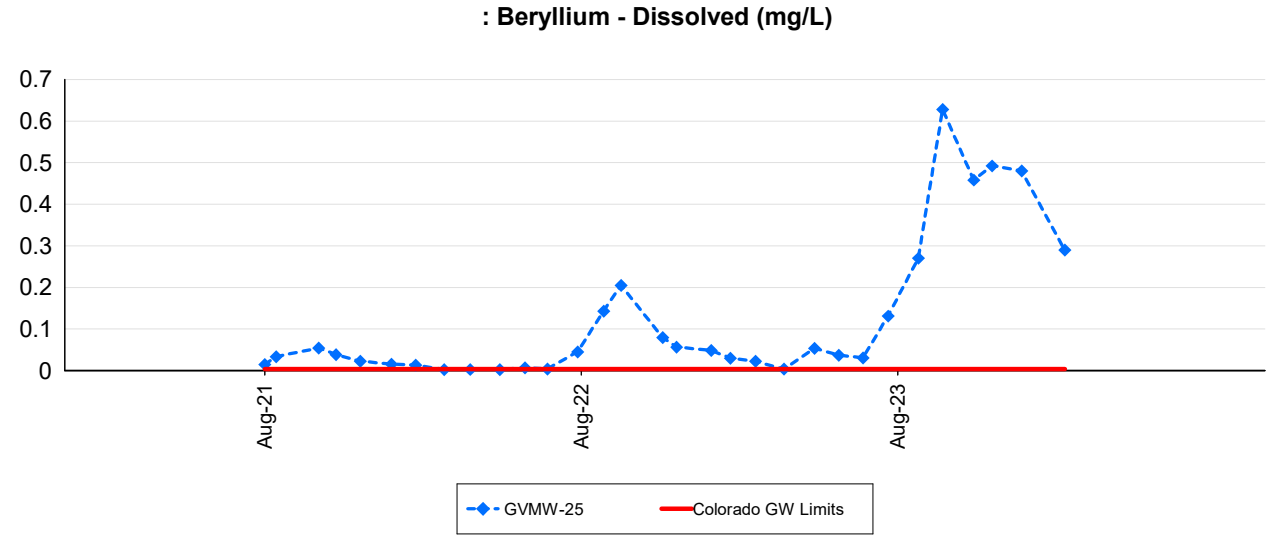




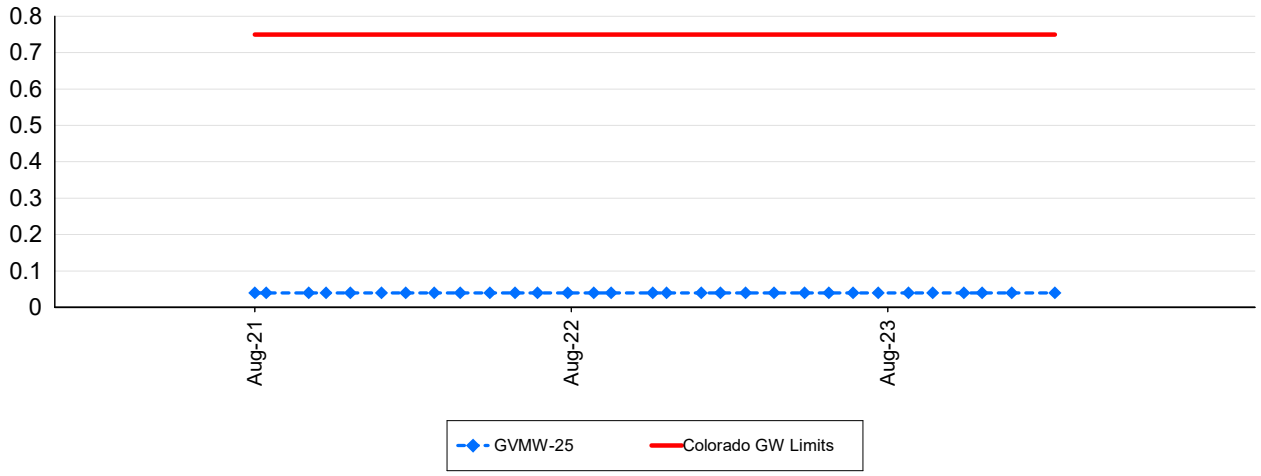




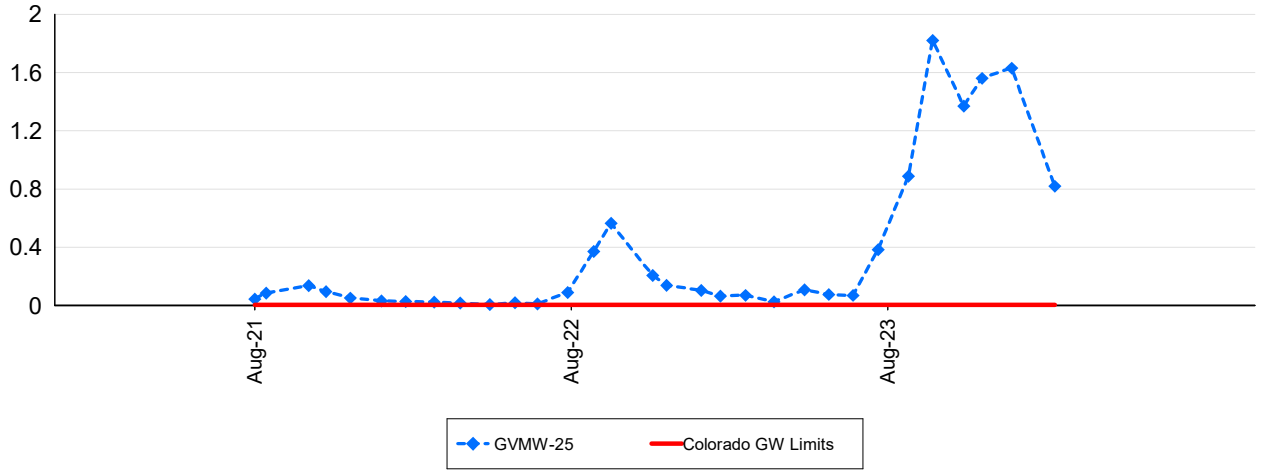




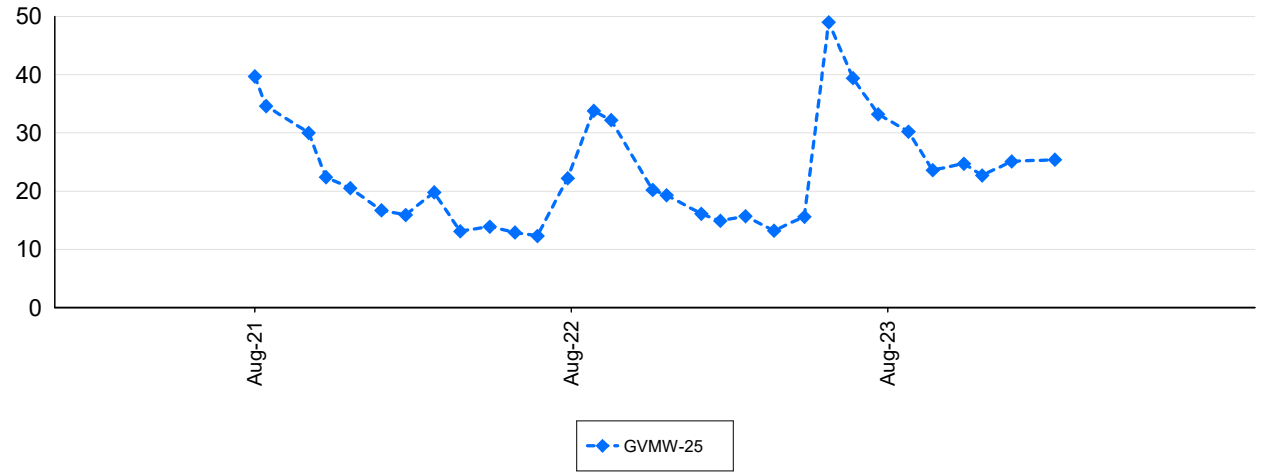
: Boron - Dissolved (mg/L)

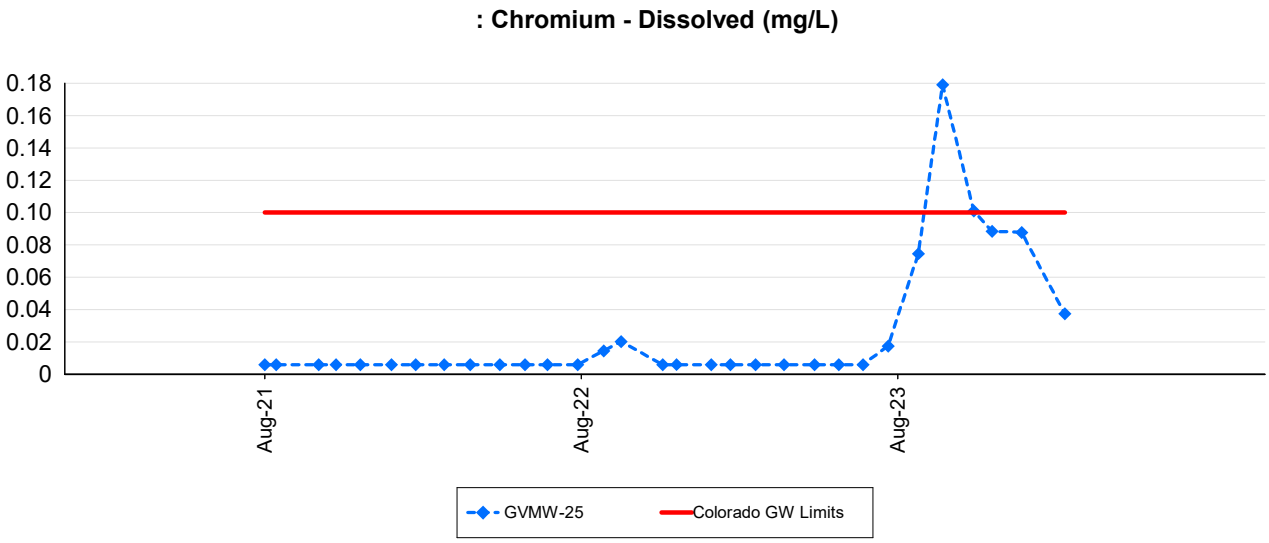


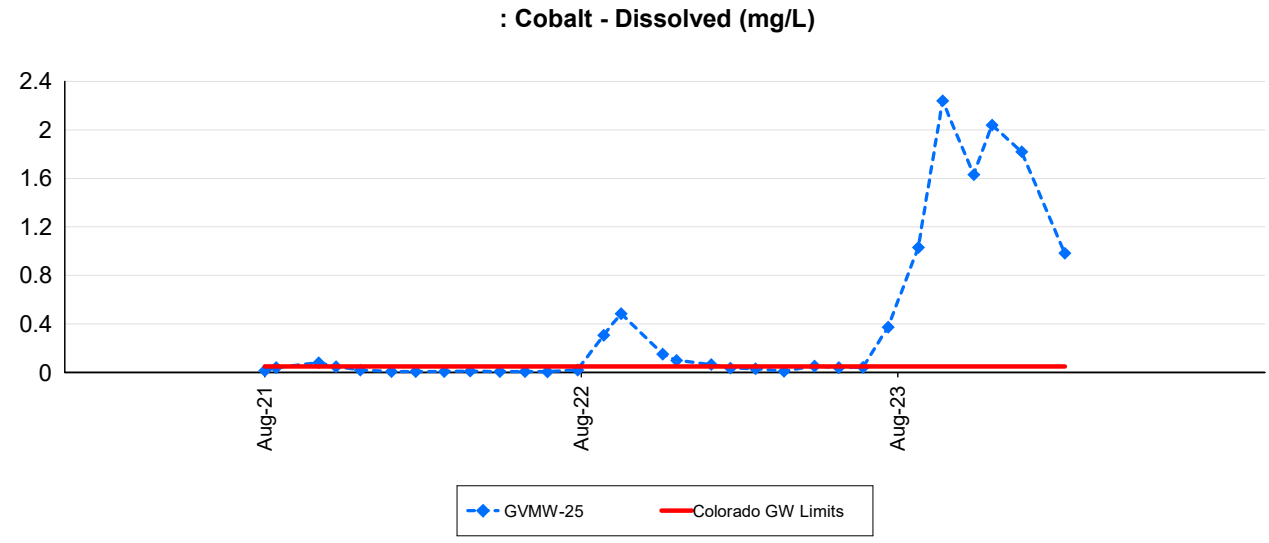
: Cadmium - Dissolved (mg/L)

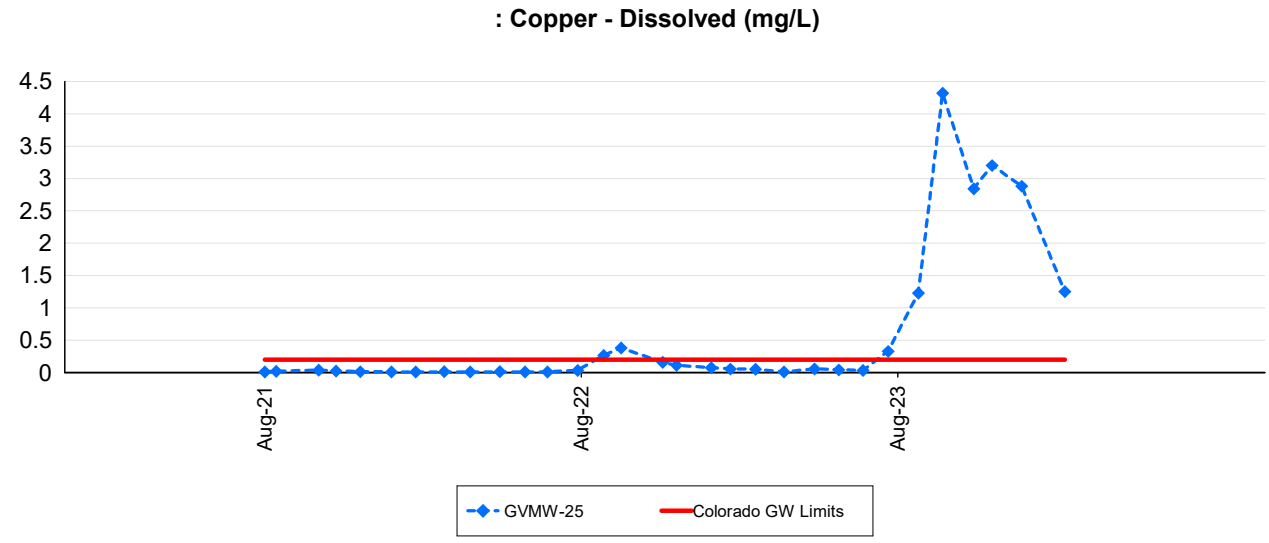


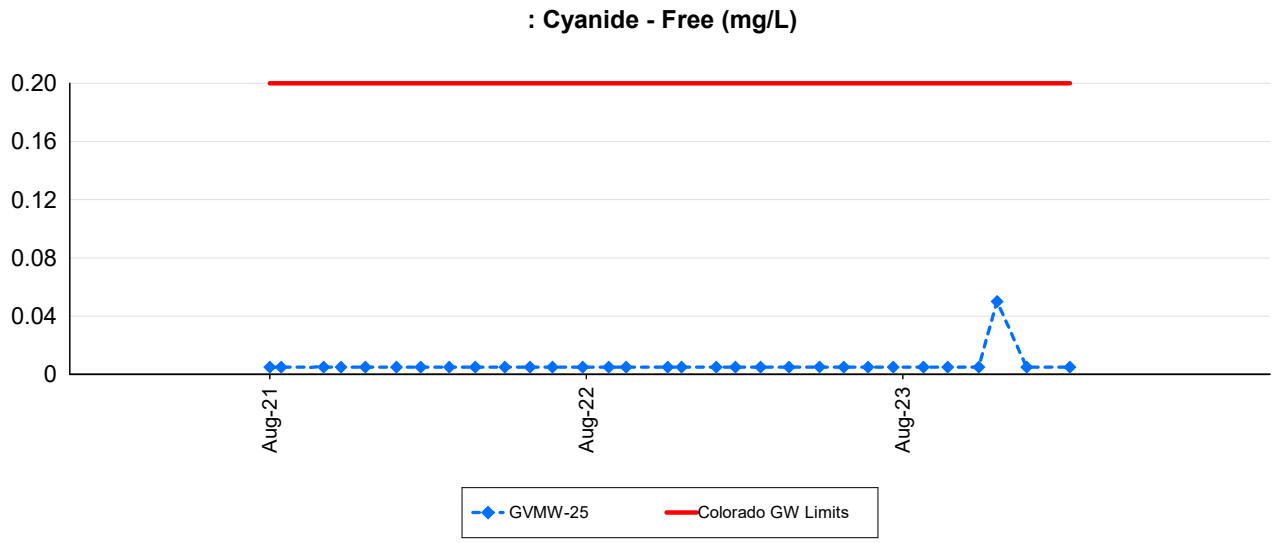
: Chloride - Total (mg/L)

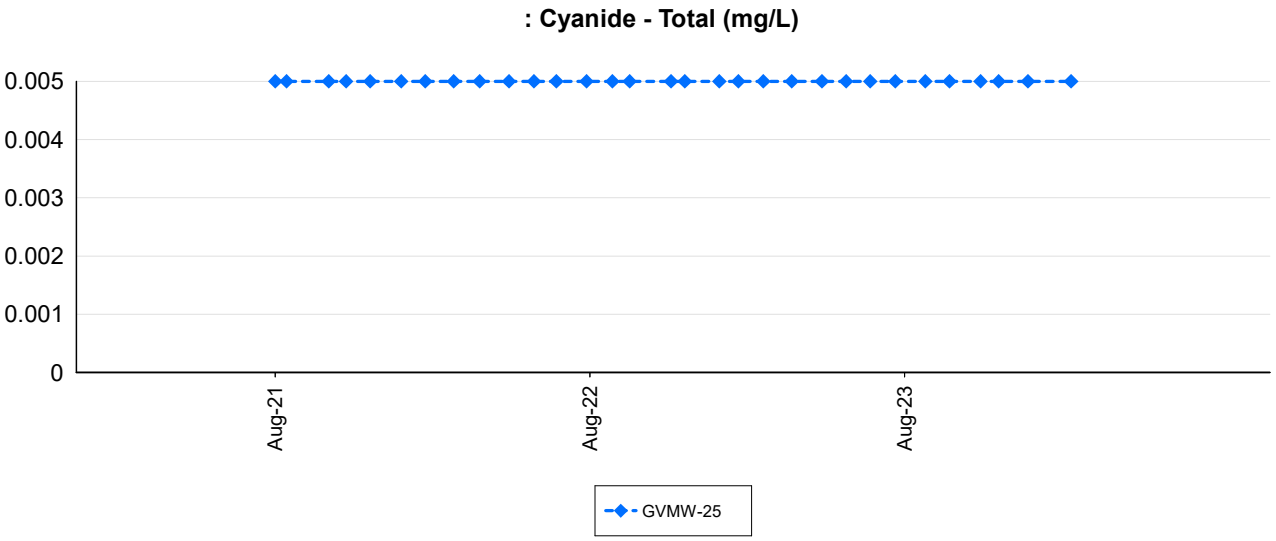


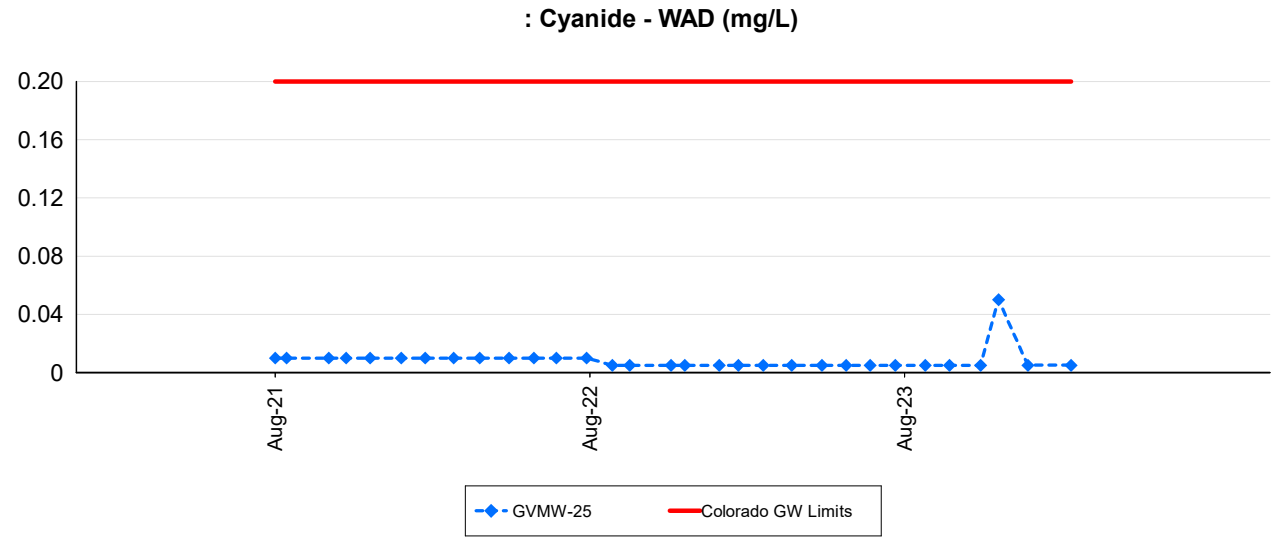


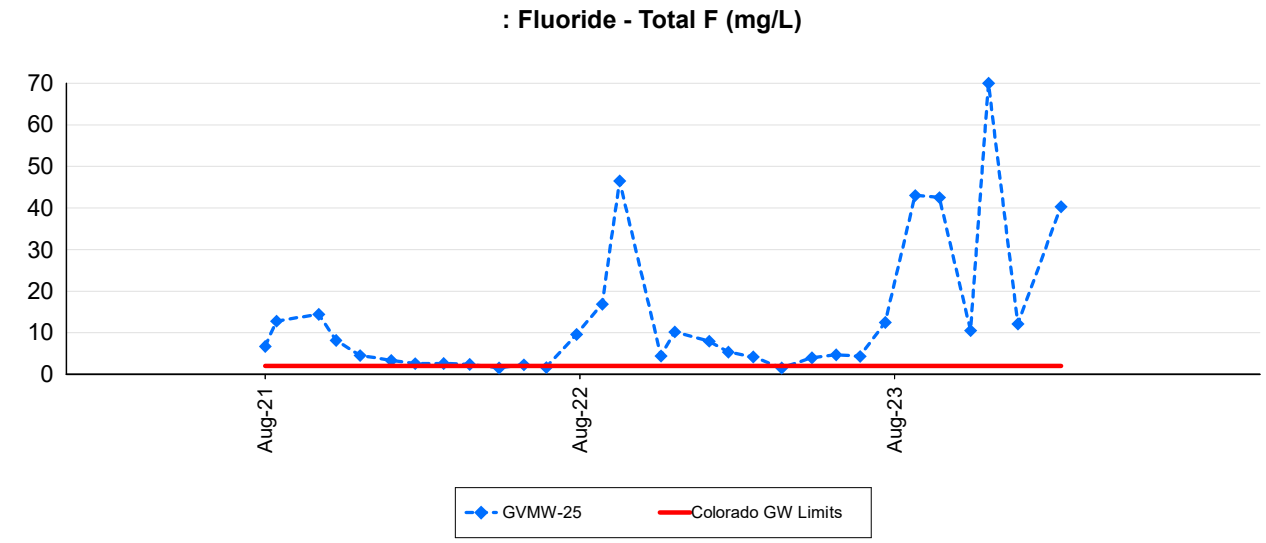


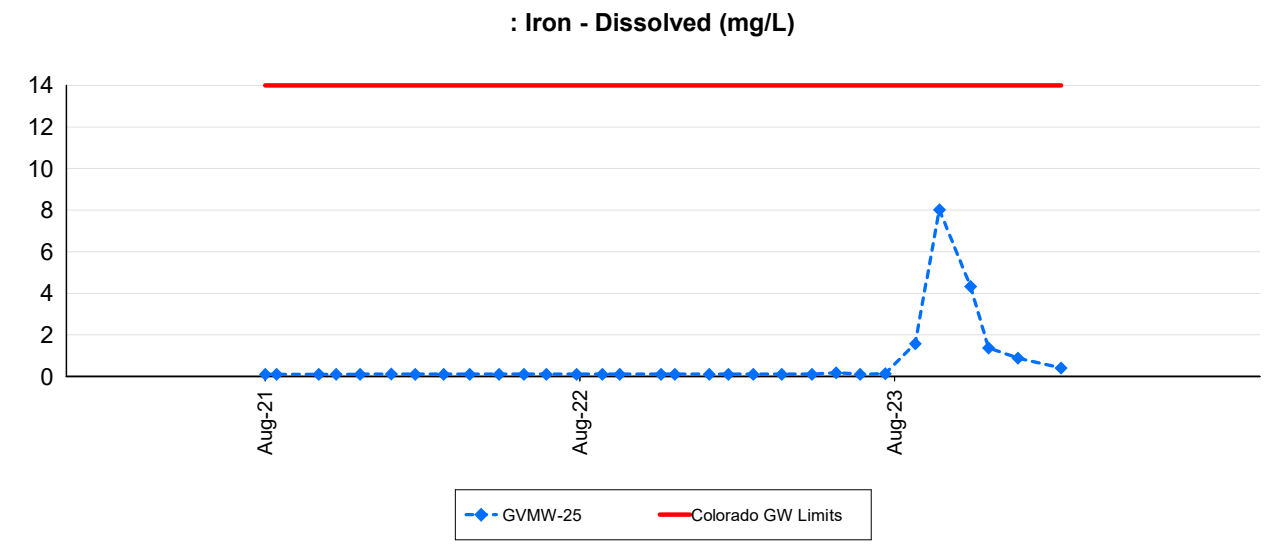


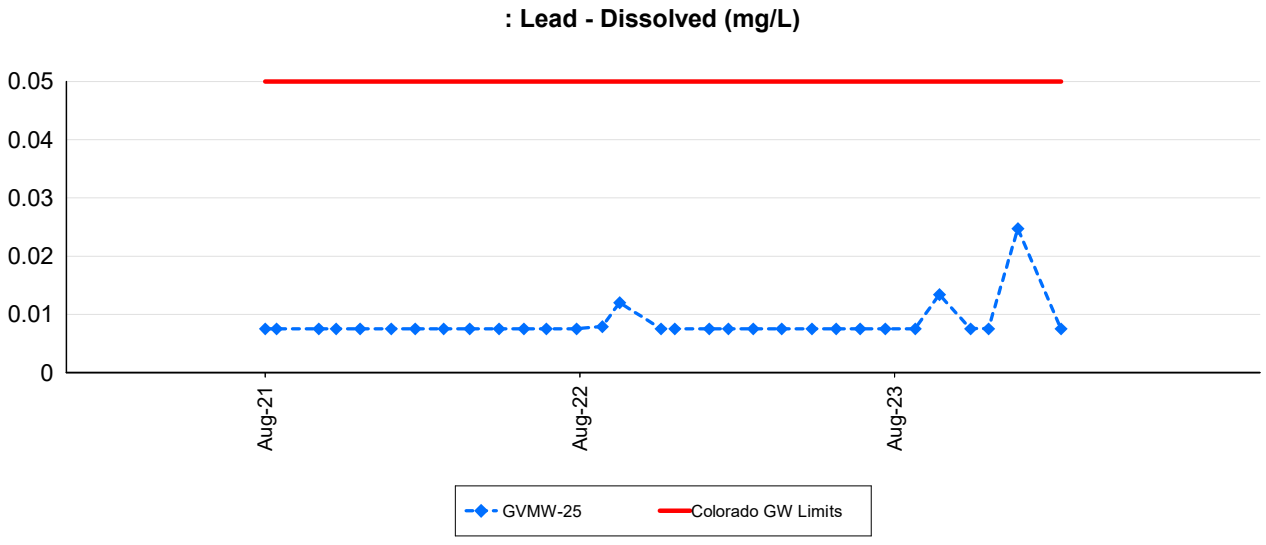


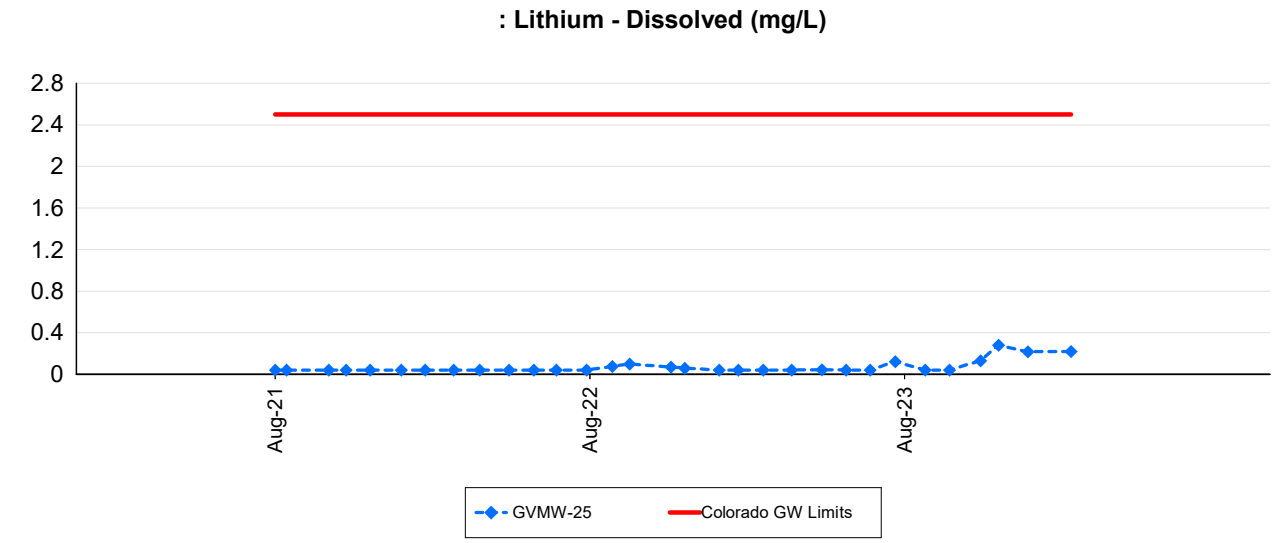


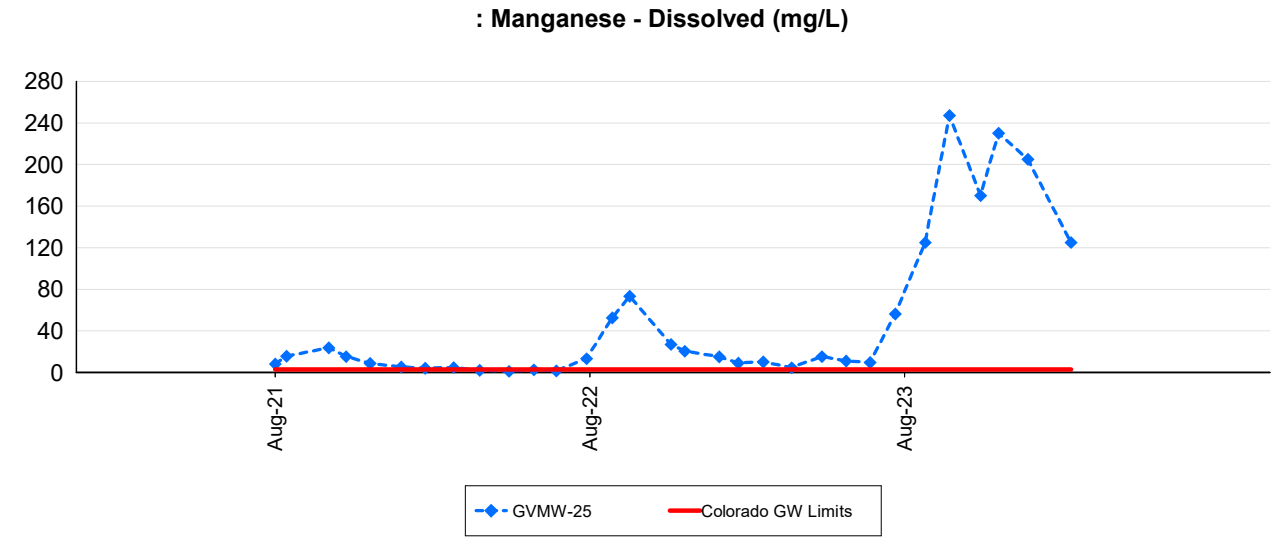


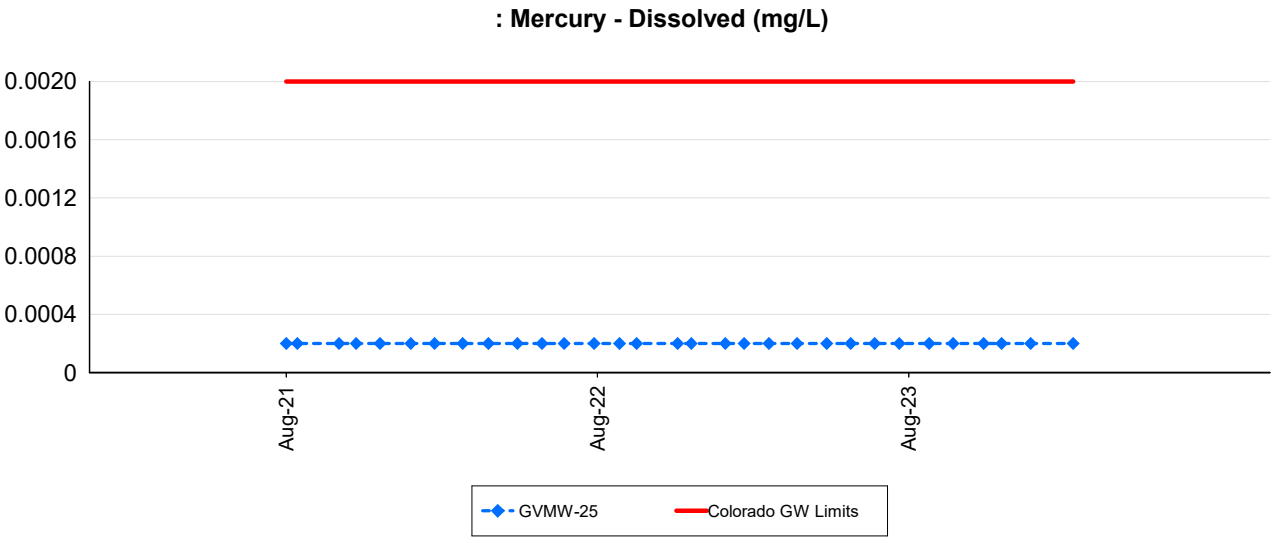


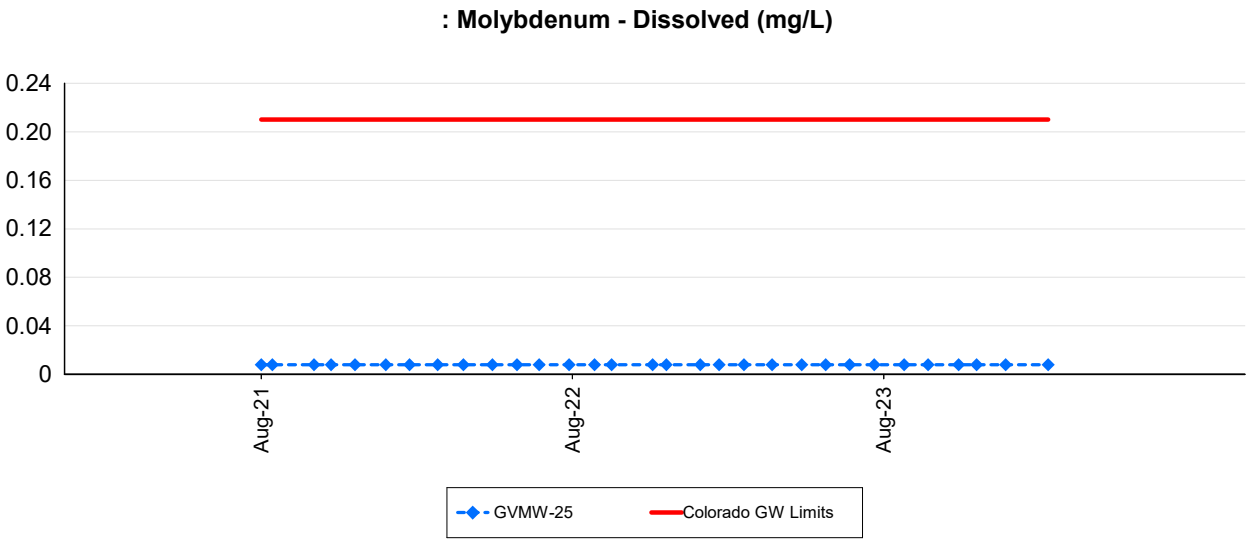


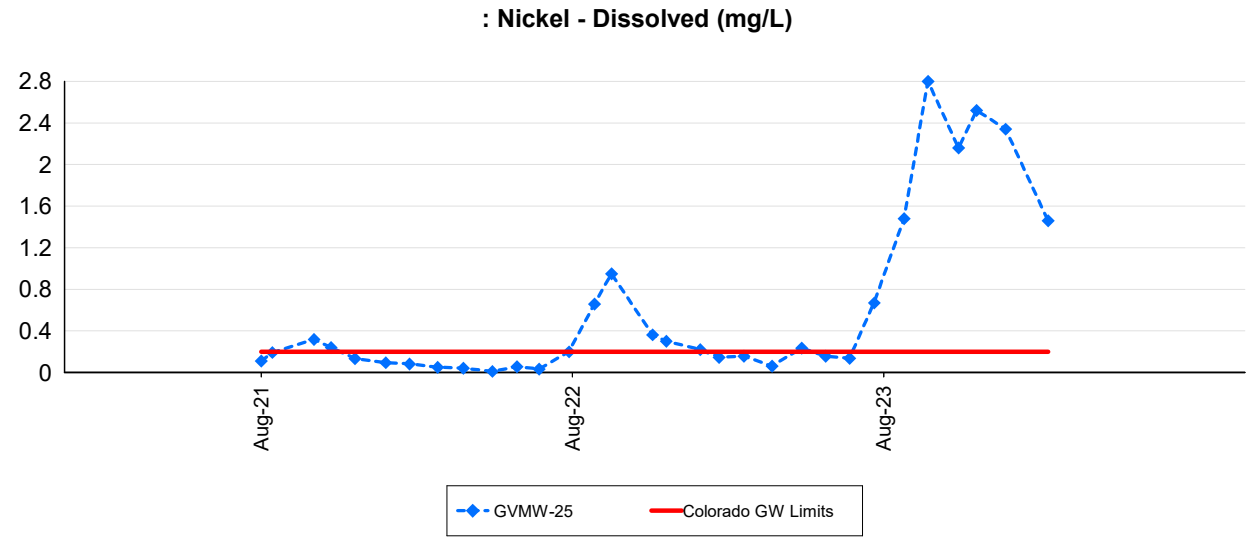


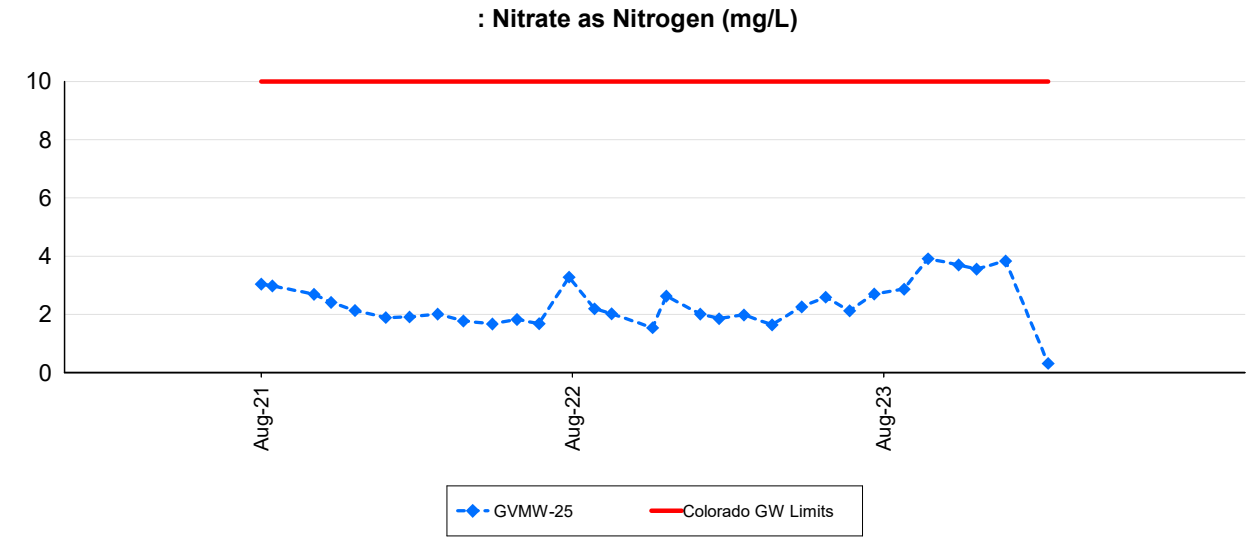




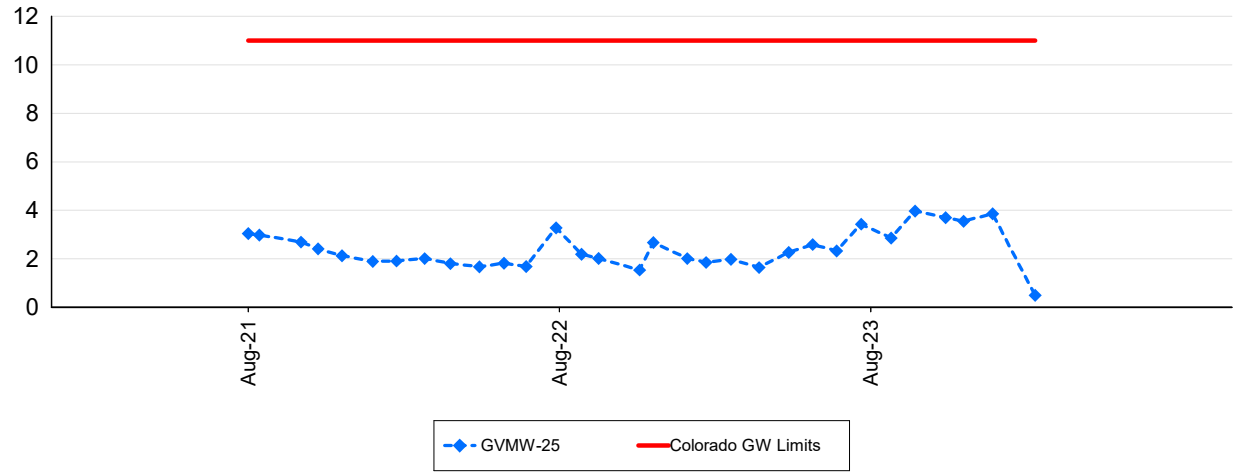




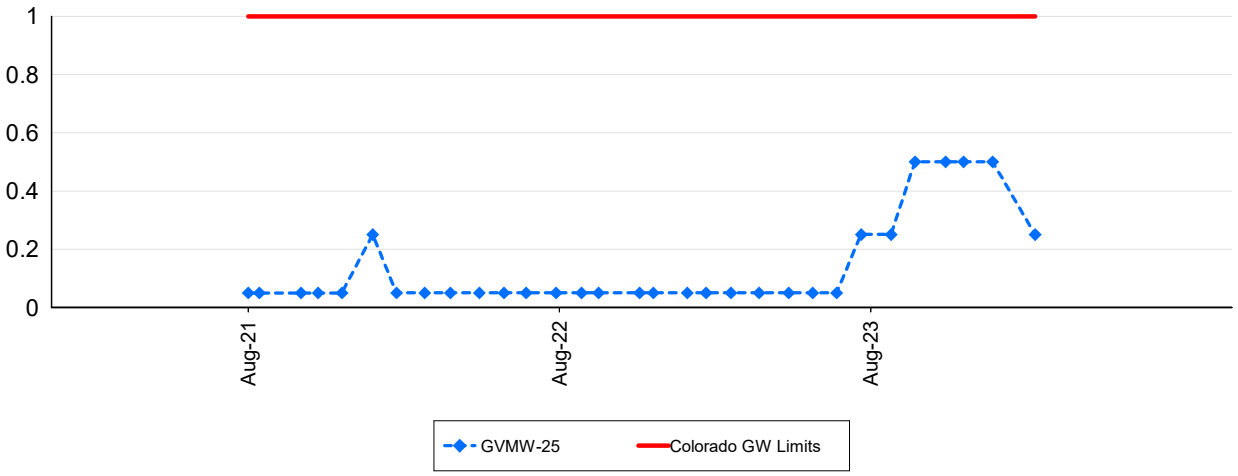




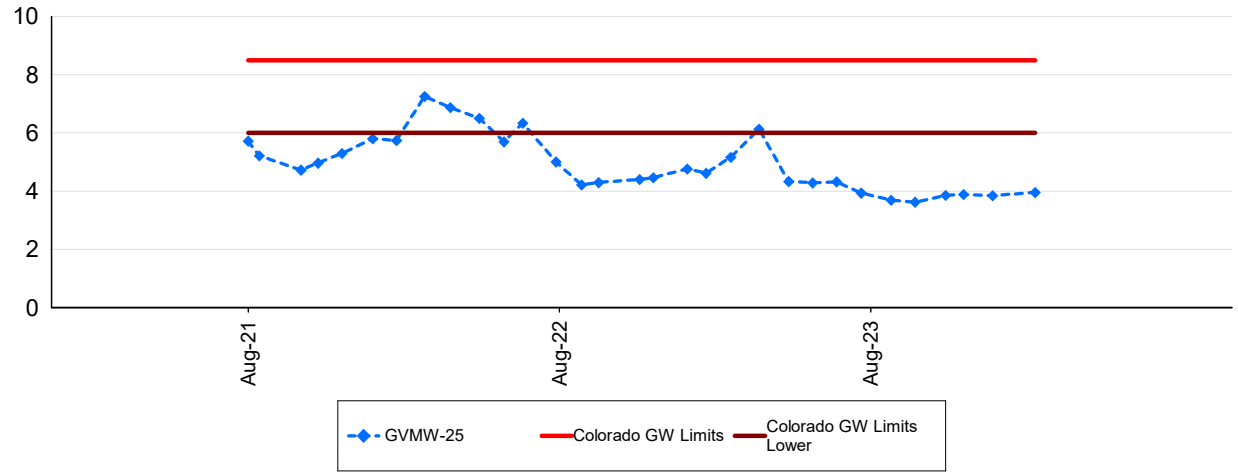
: Nitrite + Nitrate as Nitrogen (mg/L)

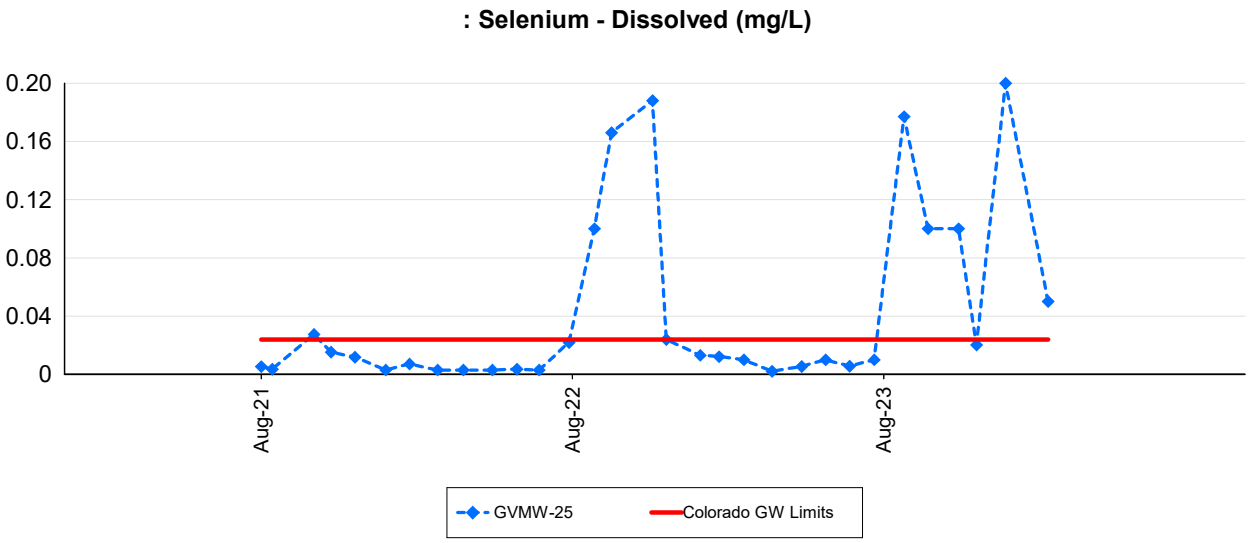


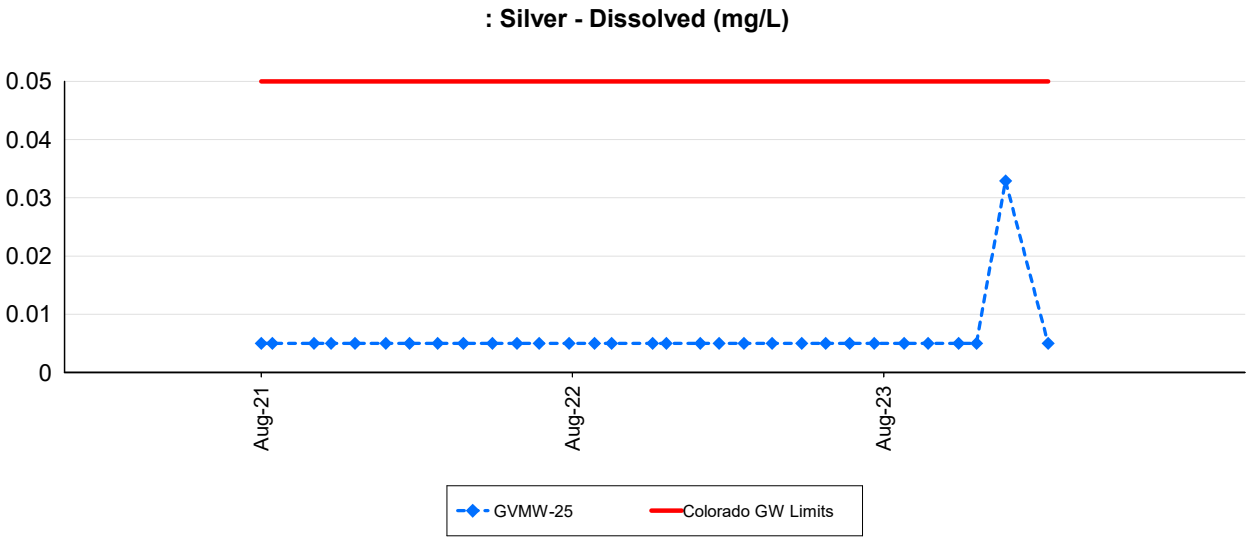
: Nitrite as Nitrogen (mg/L)

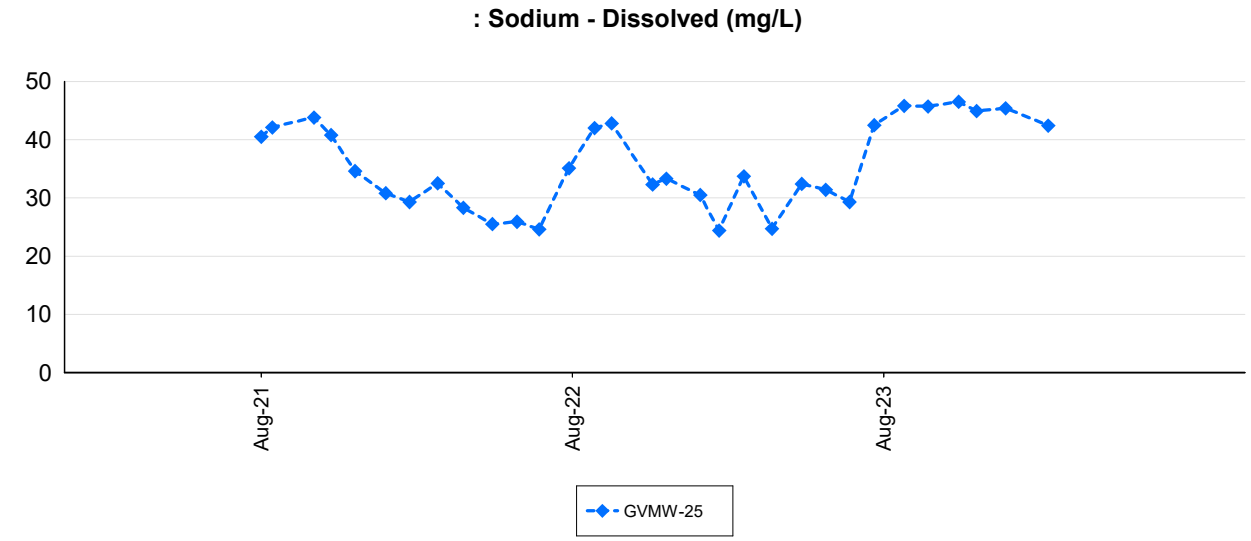


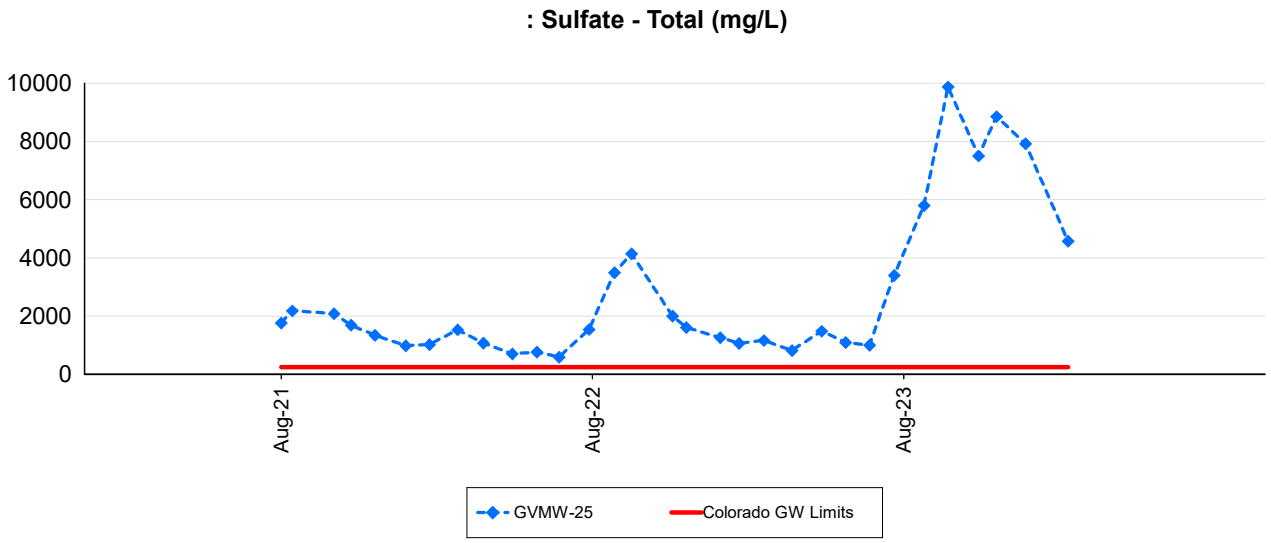
: pH Field (pH unit)

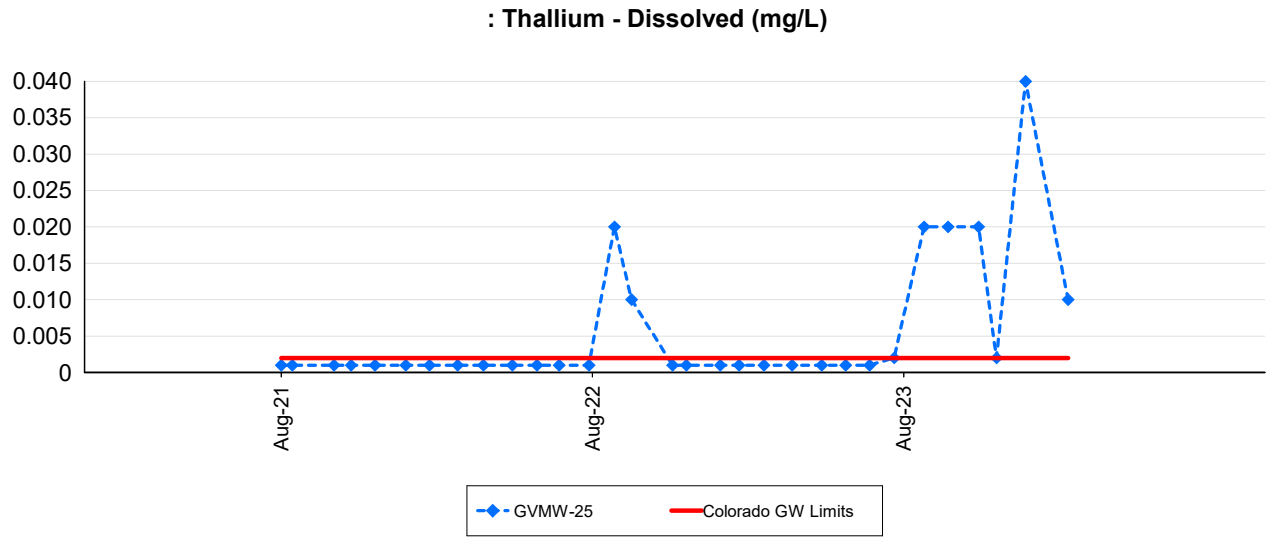


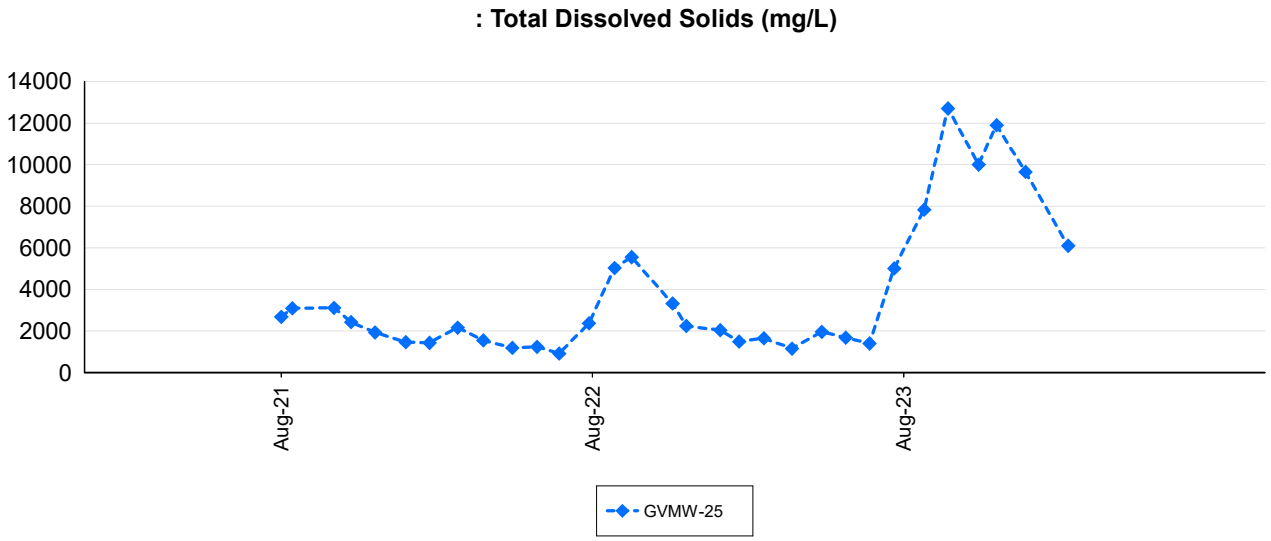


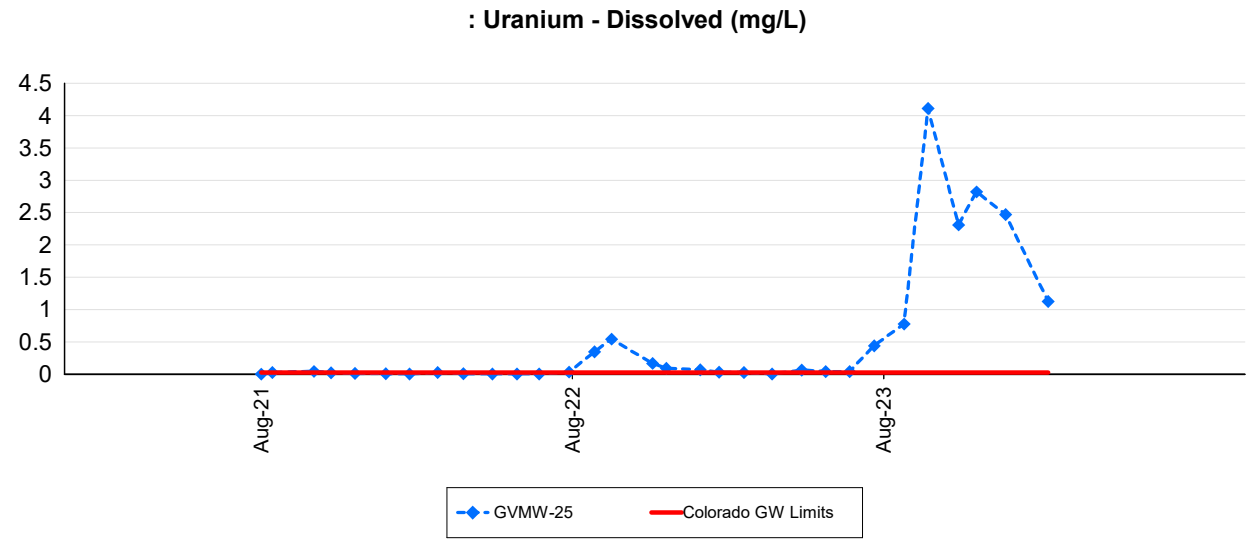


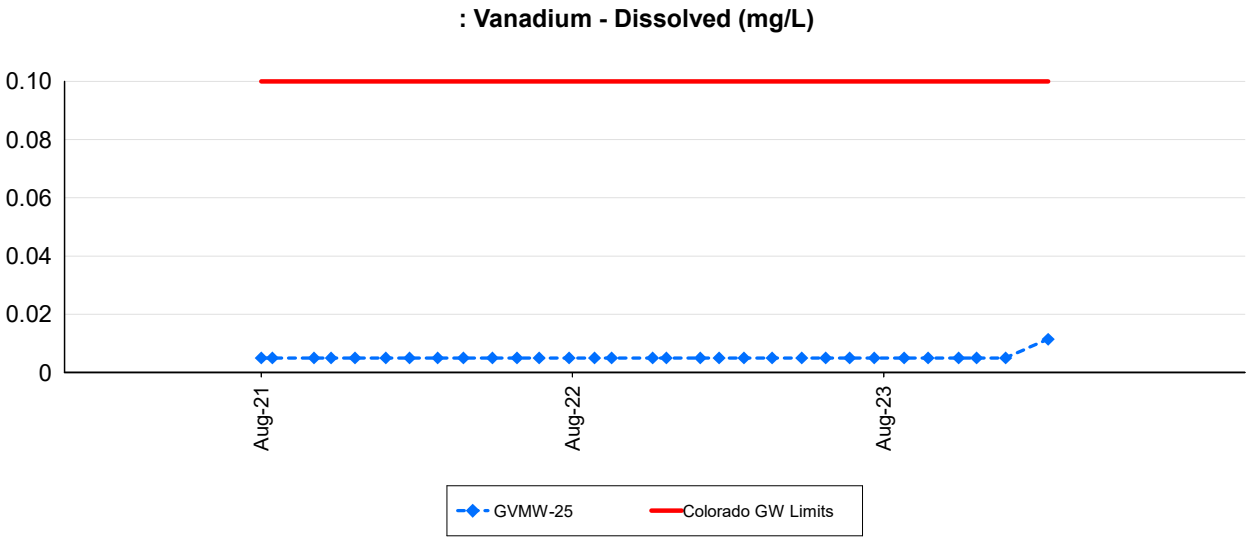


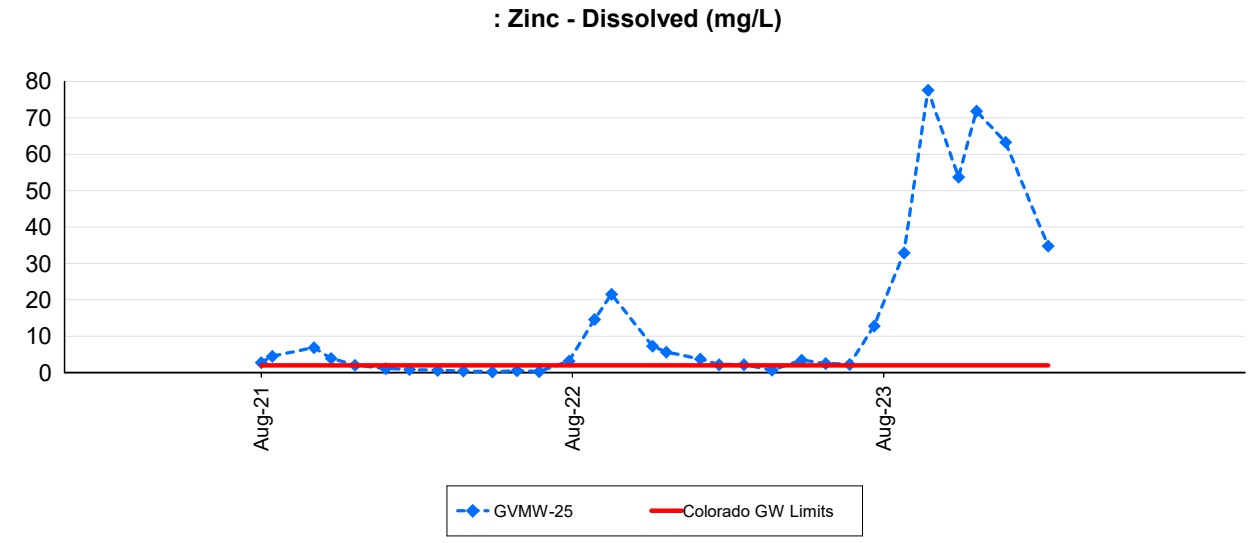












DocuSign

Certificate Of Completion

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Status: Completed
Subject: Complete with DocuSign: Monthly Grassy Valley Report - February 2024 (1).pdf
Source Envelope:
Document Pages: 108
Signatures: 1
Certificate Pages: 1
Initials: 0
AutoNav: Enabled
EnvelopeId Stamping: Enabled
Time Zone: (UTC-08:00) Pacific Time (US & Canada)

Envelope Originator:
Joshua Adams
666 Burrard Street
Suite 3400
Vancouver, BC V6C 2X8
Joshua.Adams@newmont.com
IP Address: 4.1.26.180

Record Tracking

Status: Original
3/28/2024 2:30:41 PM
Holder: Joshua Adams
Joshua.Adams@newmont.com
Location: DocuSign

Signer Events	Signature	Timestamp
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Electronic Record and Signature Disclosure:
Not Offered via DocuSign

In Person Signer Events	Signature	Timestamp

Editor Delivery Events	Status	Timestamp

Agent Delivery Events	Status	Timestamp

Intermediary Delivery Events	Status	Timestamp

Certified Delivery Events	Status	Timestamp

Carbon Copy Events	Status	Timestamp

Witness Events	Signature	Timestamp

Notary Events	Signature	Timestamp

Envelope Summary Events	Status	Timestamps
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Signing Complete	Security Checked	3/28/2024 2:37:34 PM
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Payment Events	Status	Timestamps