Newmont
NORTH AMERICA

Cripple Creek & Victor
Gold Mining Company
P.O. Box 191
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Victor, Colorado 80860

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January 23, 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 December 2024 Report Submission, January 23, 2024

Dear Mr. Russell,

Newmont Corporation's Cripple Creek & Victor Gold Mining Company (CC&V) hereby provides the Grassy Valley Monthly Monitoring Report, as requested 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.

## METHODOLOGY

In December 2024, CC&V monitored all accessible and applicable groundwater and surface water locations and collected all possible samples as part of the Grassy Valley monitoring program.

Monitoring locations are displayed on the Location Maps (Figures) and a summary of the status of each (groundwater and surface water) is provided in Table 1.

During the December monitoring period, CC&V was unable to collect water samples from the following monitoring locations for the respective reasons:

- GVMW-15C, GVMW-29, GVMW-31, GVMW-32, OSABH12, OSABH14, and OSABH-18 were dry;
- GVMW-24A had sediment-laden water that caused the pump to overheat and malfunction;
- GVMW-30 and OSABH-16 had insufficient water to sample;
- GVMW-35A was not sampled due to the tubing being frozen;
- EMP-16, EMP-17, EMP-17A, EMP-17C, and EMP-020 were frozen/snow covered; and
- GV-06, GV-4.5, GV-05, GV-02 and GV-03 were frozen/dry with no flowing 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

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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.

**Surface Water Sampling**

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

**QA/QC Samples**

CC&V collected two quality assurance/quality control (QA/QC) samples in December 2024 (included in Attachment 1). 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 for groundwater samples. Complete laboratory analytical reports from the December 2024 sampling event are included in Attachment 1 and field-collected data is presented on the sampling logs in Attachment 2.

## DISCUSSION

**Groundwater**

Observed groundwater quality data typically shows a trend of peak concentrations around October, then declining until the following fall. Over the past 2 years in the month of December there seems to be a rebound in constituent concentrations after showing a decrease in the month of November. This December rebound is more pronounced this year than in 2023, leading to the identification of a trend outside of the previously observed norm. Constituent trends seem to mirror seasonal fluctuations in precipitation. This newly identified trend is likely due to November snowfall followed by a warming event and increase throughflow into the groundwater system.

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Trend graphs of various constituents from the GVMW-25 monitoring location, within the property boundaries, are presented in Attachment 3. In general, results at the GVMW-25 location show an increasing trend in concentrations as compared to the November 2024 data. Aluminum, arsenic, beryllium, cadmium, chromium, cobalt, copper, fluoride, lead, lithium, manganese, nickel, nitrate, sulfate, uranium, and zinc concentrations have increased compared to November 2024. Chloride, iron, and sodium concentrations decreased slightly compared to November 2024. All other constituents remained consistent with the November 2024 results. Ammonia, antimony, cyanide, mercury, molybdenum, silver, thallium, and vanadium concentrations were not detected in the December 2024 samples.

Water quality at the GVMW-15B and OSABH-17 monitoring locations is consistent with previously recorded results. Shallow groundwater at these locations appears to be impacted by seepage and constituent concentrations fluctuate seasonally similar to GVMW-25.

Other notable results include:

- Elevated fluoride at the GVMW-8B and GVMW-22A locations;
- Elevated sulfate and uranium concentrations at the GVMW-10 location;
- Elevated sulfate concentrations at GVMW-24B; and
- Elevated iron concentrations in GVMW-15A;

The results observed in these monitoring wells are consistent with previous observations.

It should be noted that, due to suspected casing issues, the low-flow sampling procedure could not be followed precisely for GVMW-4A and GVMW-15A, but substantial effort was made to follow the procedure as closely as possible. CC&V elected to collect the sample from this well despite the deviation from the procedure to provide more data on the water quality at this historic well location.

Analytical results from the point-of-compliance wells (GVMW-26A and GVMW-26B) are compliant with all applicable standards.

***Newly Constructed Monitoring Wells***

During the December monitoring event, samples were collected from the newly installed monitoring wells in Grassy Valley. Water quality for these wells is included in Table 2 as compared to the existing NPL's and TVS. It should be noted that baseline conditions have not yet been established.

Seepage appears to be affecting water quality at GVMW-27, GVMW-28, GVMW-33, GVMW-34, and GVMW-36. Other notable results include:

- Elevated nitrate and sulfate as well as a low pH a the GVMW-35B location; and
- Elevated pH at the GVMW-37A location.

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**Surface water**

Flowing water was not observed at any of the surface water monitoring locations during the December 2024 sampling event and therefore, no samples were collected.

**Stormwater Detention Ponds**

All EMP's were frozen and/or dry during the December 2024 monitoring period and therefore no samples were collected.

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,

p.p. DocuSigned by: Antonio Matarrese FD42D9E12B1147D...

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

EC: P. Lennberg
E. Russell
Z. Trujillo
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|12 – December\Final"*

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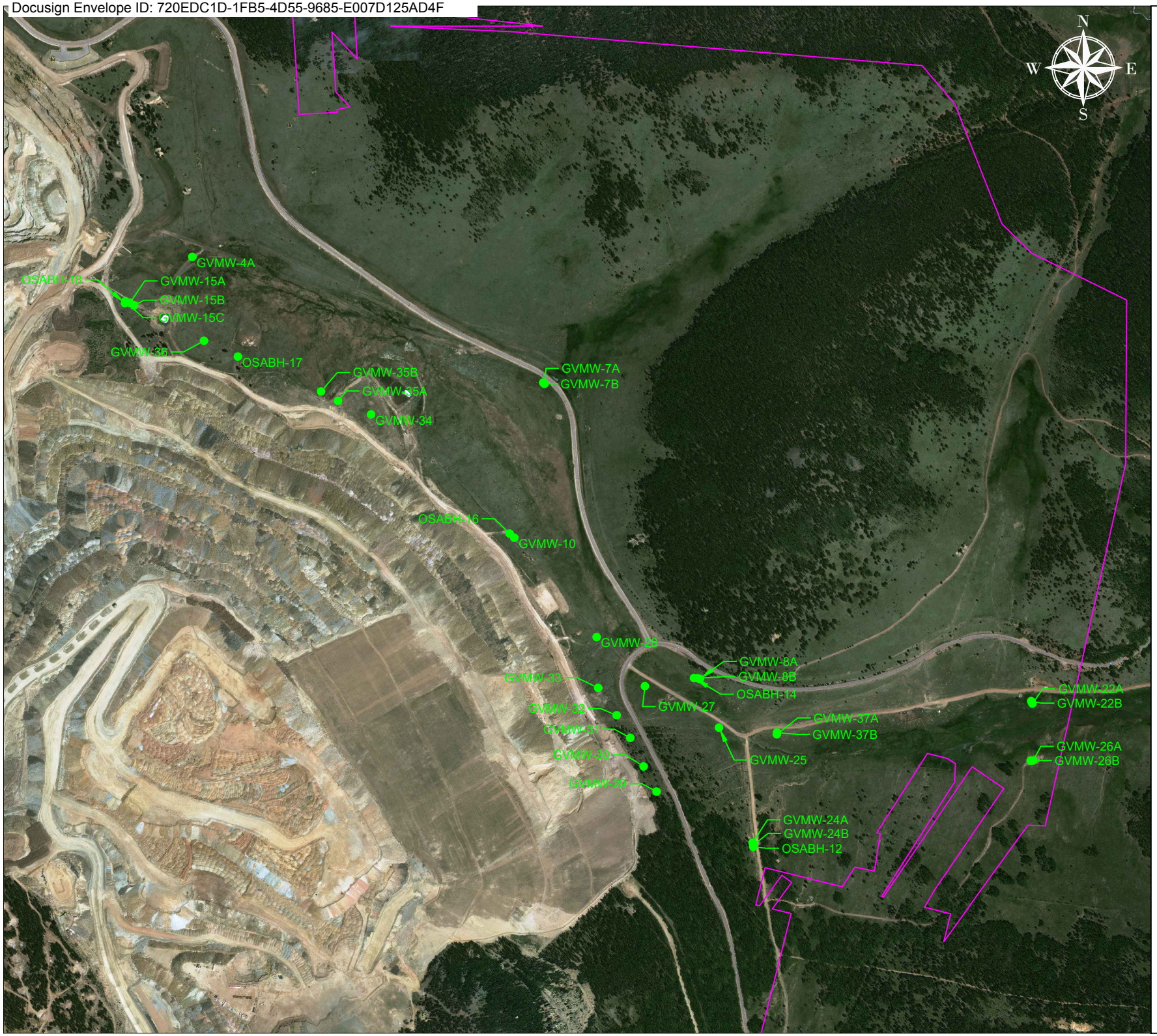
# Figures




**LEGEND**

- MONITORING WELL
- PERMIT BOUNDARY

**General Notes**

| No. | Revision/Issue | Date |
|---|---|---|
| | | |
| | | |

Firm Name and Address

Newmont
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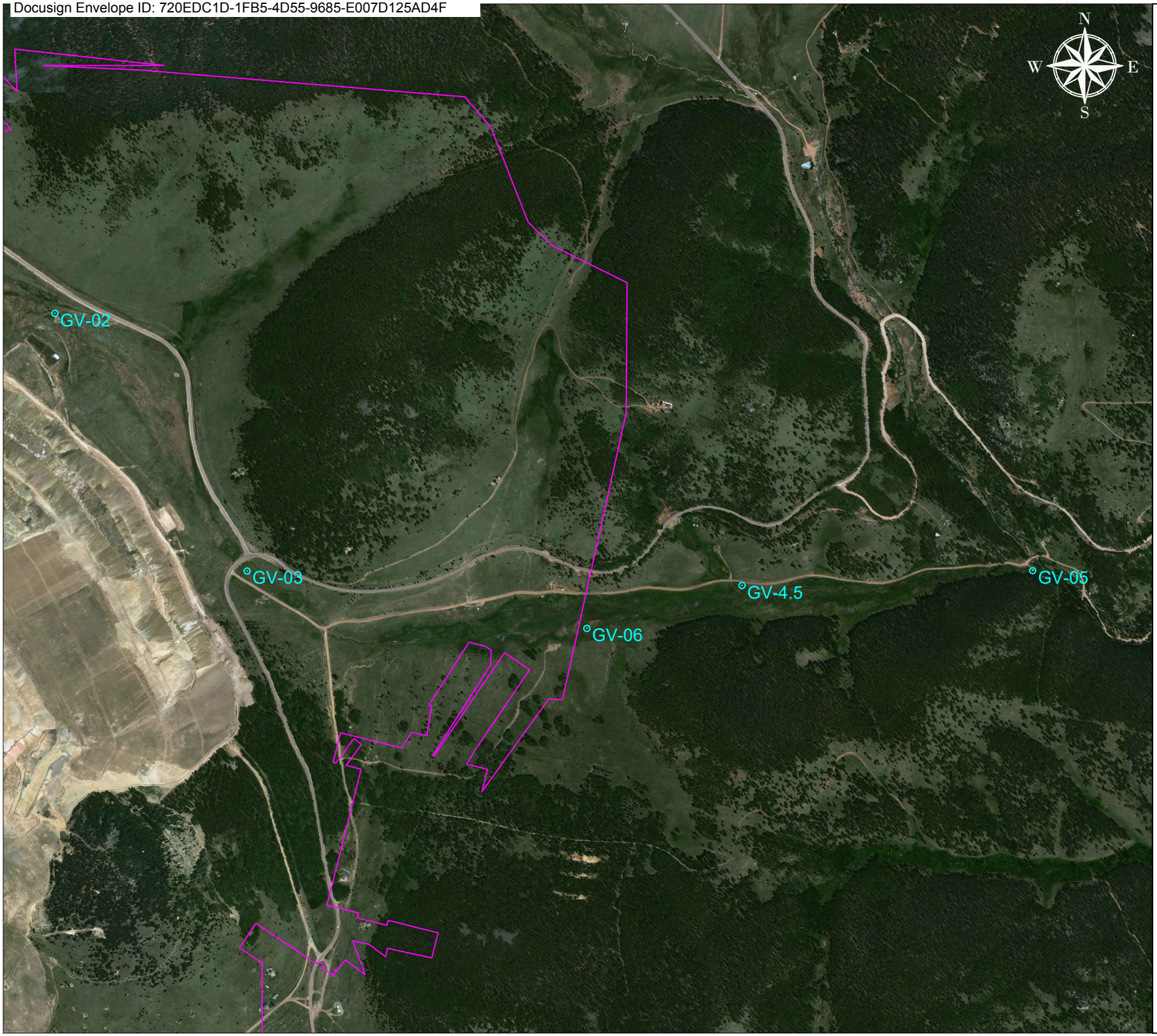
Drawing Name

GRASSY VALLEY
MONITORING WELLS

| Project | Sheet |
|---|---|
| GRASSY VALLEY CAPP | G1 |
| Date: 10/8/2024 | |

Scale: 0 500 1000 Feet




**LEGEND**

- SURFACE WATER LOCATION
- PERMIT BOUNDARY

**General Notes**

| No. | Revision/Issue | Date |
|---|---|---|
| | | |
| | | |

Firm Name and Address

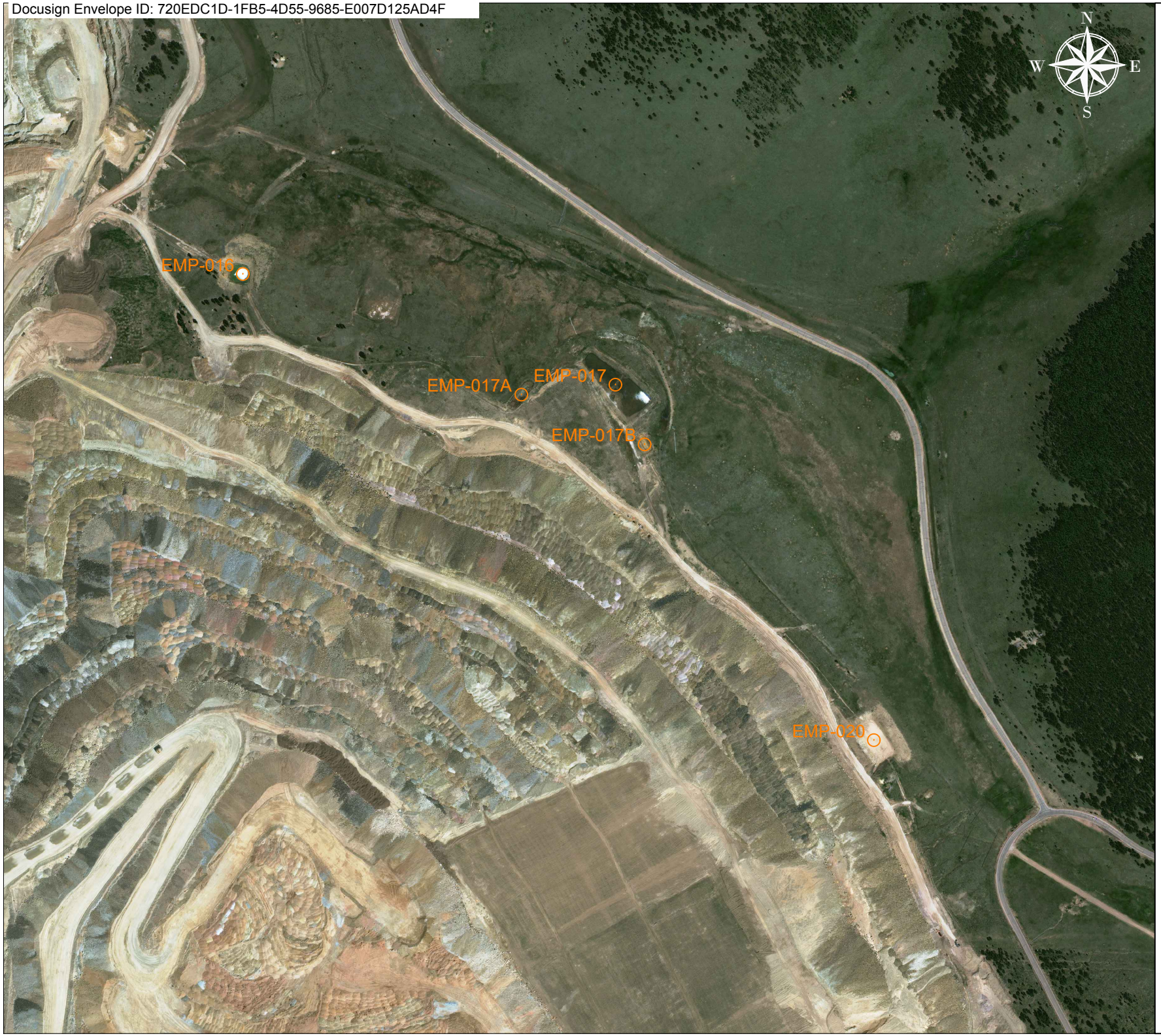
Newmont
CRIPPLE CREEK & VICTOR

Drawing Name

GRASSY VALLEY
SURFACE WATER MONITORING

| Project | Sheet |
|---|---|
| GRASSY VALLEY CAPP | G2 |
| Date: 10/8/2024 | |

Scale: 0 700 1400 Feet




**LEGEND**

- EMP
- PERMIT BOUNDARY

**General Notes**

| No. | Revision/Issue | Date |
|---|---|---|
| | | |
| | | |

Firm Name and Address

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CRIPPLE CREEK & VICTOR

Drawing Name

GRASSY VALLEY
EMP MONITORING

| Project | Sheet |
|---|---|
| GRASSY VALLEY CAPP | G3 |
| Date: 10/8/2024 | |

Scale: 0 300 600 Feet


**LEGEND**

- SEEP LOCATION
- PERMIT BOUNDARY

**General Notes**

| No. | Revision/Issue | Date |
|---|---|---|
| | | |
| | | |

Firm Name and Address

Newmont
CRIPPLE CREEK & VICTOR

Drawing Name

GRASSY VALLEY
ECOSA SEEP MONITORING

| Project | Sheet |
|---|---|
| GRASSY VALLEY CAPP | G4 |
| Date: 10/8/2024 | |

Scale: 200 400 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 | 12/12/2024 | Sampled |
| GVMW-7A | 12/9/2024 | Sampled |
| GVMW-7B | 12/10/2024 | Sampled |
| GVMW-8A | 12/10/2024 | Sampled |
| GVMW-8B | 12/10/2024 | Sampled |
| GVMW-10 | 12/12/2024 | Sampled |
| GVMW-15A | 12/12/2024 | Sampled |
| GVMW-15B | 12/12/2024 | Sampled |
| GVMW-15C | 12/12/2024 | Dry at 419' BTOC |
| GVMW-22A | 12/9/2024 | Sampled |
| GVMW-22B | 12/9/2024 | Sampled |
| GVMW-24A | 12/9/2024 | Not sampled due to sediment laden water causing the pump to overheat; unable to pump well |
| GVMW-24B | 12/9/2024 | Sampled |
| GVMW-25 | 12/17/2024 | Sampled |
| GMVW-26A | 12/9/2024 | Sampled |
| GVMW-26B | 12/9/2024 | Sampled |
| GVMW-27 | 12/17/2024 | Sampled |
| GVMW-28 | 12/16/2024 | Sampled |
| GVMW-29 | 12/16/2024 | Dry at 38.38' BTOC |
| GVMW-30 | 12/16/2024 | NS-IW |
| GVMW-31 | 12/16/2024 | Dry at 61.82' BTOC |
| GVMW-32 | 12/16/2024 | Dry at 67.32' BTOC |
| GVMW-33 | 12/17/2024 | Sampled |
| GVMW-34 | 12/17/2024 | Sampled |
| GVMW-35A | 12/17/2024 | Not sampled, well/tubing frozen |
| GVMW-35B | 12/17/2024 | Sampled |
| GVMW-36 | 12/17/2024 | Sampled |
| GVMW-37A | 12/12/2024 | Sampled |
| GVMW-37B | 12/12/2024 | Sampled |
| OSABH-12 | 12/9/2024 | Dry at 39' bgs |
| OSABH-14 | 12/10/2024 | Dry at 29' bgs |
| OSABH-16 | 12/12/2024 | NS-IW |
| OSABH-17 | 12/16/2024 | Sampled |
| OSABH-18 | 12/12/2024 | Dry at 52' BTOC |
| Ecosa Seep-1 | 12/10/2024 | Not sampled; location frozen |
| Ecosa Seep-2 | 12/10/2024 | Not sampled; location frozen |
| GV-02 | 12/10/2024 | Not sampled; location frozen |
| GV-03 | 12/10/2024 | Not sampled; location frozen |
| GV-06 | 12/10/2024 | Not sampled; location frozen |
| GV-4.5 | 12/10/2024 | Not sampled; location frozen |
| GV-05 | 12/10/2024 | Not sampled; location frozen |
| EMP-016 | 12/10/2024 | Not sampled; location frozen/snow covered |
| EMP-017 | 12/10/2024 | Not sampled; location frozen/snow covered |
| EMP-017A | 12/10/2024 | Not sampled; location frozen/snow covered |
| EMP-17B | 12/10/2024 | Not sampled; location frozen/snow covered |
| EMP-17C | 12/10/2024 | Not sampled; location frozen/snow covered |
| EMP-020 | 12//10/2024 | Not sampled; location frozen/snow covered |

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 - December 2024
Cripple Creek and Victor Gold Mining Company

| ANALYTE | Reg 41 TVS | Site Wide NPL | UNIT | Well I.D. | GVMW-4A | GVMW-7A | GVMW-7B | GVMW-8A* | GVMW-8B | GVMW-10 | GVMW-15A | GVMW-15B | GVMW-22A | GVMW-22B | GVMW-24B | GVMW-25 | GMVW-26A | GVMW-26B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Date | 12/12/2024 | 12/9/2024 | 12/10/2024 | 12/10/2024 | 12/10/2024 | 12/12/2024 | 12/12/2024 | 12/12/2024 | 12/9/2024 | 12/9/2024 | 12/9/2024 | 12/17/2024 | 12/9/2024 | 12/9/2024 |
| Aluminum - Dissolved | 5 | **7** | mg/L | | <0.080 | <0.080 | <0.080 | <0.080 | <0.080 | <0.080 | <0.080 | 2.27 | <0.080 | <0.080 | 0.219 | **995** | <0.080 | <0.080 |
| Ammonia | NA | NA | mg/L | | <0.030 | 0.064 | <0.030 | <0.030 | <0.030 | <0.030 | 0.09 | 0.064 | <0.030 | <0.030 | <0.030 | <0.030 | <0.030 | <0.030 |
| Antimony - Dissolved | **0.006** | NA | mg/L | | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 |
| Arsenic - Dissolved | **0.01** | NA | mg/L | | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | **0.185** | <0.00100 | <0.00100 |
| Barium - Dissolved | **2** | NA | mg/L | | 0.169 | 0.177 | 0.0315 | <0.0020 | 0.0082 | 0.0155 | 0.0516 | 0.0147 | 0.105 | 0.0506 | 0.0118 | 0.0166 | 0.196 | 0.109 |
| Beryllium - Dissolved | **0.004** | NA | mg/L | | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | **0.0277** | <0.00200 | <0.00200 | <0.00200 | **0.615** | <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 | <0.0400 | <0.0400 | <0.0400 | 0.0443 | <0.0400 | <0.0400 |
| Cadmium - Dissolved | **0.005** | **0.005** | mg/L | | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0048 | <0.0020 | <0.0020 | <0.0020 | **1.76** | <0.0020 | <0.0020 |
| Chloride - Total | **250** | NA | mg/L | | 5.04 | 13.8 | 22.7 | 59.9 | 38.2 | 4.93 | 1.66 | 1.4 | 3.85 | 9.81 | <20.0 | 19.8 | 1.26 | 1.84 |
| Chromium - Dissolved | **0.1** | NA | mg/L | | <0.0060 | <0.0060 | <0.0060 | <0.0060 | <0.0060 | <0.0060 | <0.0060 | <0.0060 | <0.0060 | <0.0060 | <0.0060 | 0.0484 | <0.0060 | <0.0060 |
| Cobalt - Dissolved | **0.05** | NA | mg/L | | <0.0060 | <0.0060 | <0.0060 | <0.0060 | <0.0060 | <0.0060 | 0.0286 | **0.0635** | <0.0060 | <0.0060 | <0.0060 | **2.1** | <0.0060 | <0.0060 |
| Copper - Dissolved | **0.2** | **0.2** | mg/L | | <0.0100 | <0.0100 | <0.0100 | <0.0100 | 0.0127 | 0.0104 | <0.0100 | 0.0122 | <0.0100 | <0.0100 | <0.0100 | **4.01** | <0.0100 | <0.0100 |
| Cyanide - Free | **0.2** | NA | mg/L | | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <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 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Cyanide - WAD | NA | **0.2** | mg/L | | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Fluoride - Total F | **2** | **2** | mg/L | | 0.137 | 0.845 | 0.36 | 1.9 | **2.19** | 0.572 | 0.343 | 0.411 | **2.17** | 0.384 | 1.18 | **96.9** | 1.9 | 0.245 |
| Iron - Dissolved | 0.3 | **14** | mg/L | | 7.14 | 1.19 | <0.100 | <0.100 | <0.100 | <0.100 | **29.5** | **20** | 0.129 | <0.100 | <0.100 | 6.9 | <0.100 | <0.100 |
| Lead - Dissolved | **0.05** | NA | mg/L | | <0.0075 | <0.0075 | <0.0075 | <0.0075 | <0.0075 | <0.0075 | <0.0075 | **0.0518** | <0.0075 | <0.0075 | <0.0075 | **0.0521** | <0.0075 | <0.0075 |
| Lithium - Dissolved | **2.5** | NA | mg/L | | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | 0.191 | <0.040 | <0.040 |
| Manganese - Dissolved | 0.05 | **3** | mg/L | | 1.98 | 0.222 | 0.0088 | <0.0080 | <0.0080 | 1.02 | 1.84 | 1.65 | 0.166 | <0.0080 | 1.13 | **254** | 0.0082 | <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 | <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 | 0.0209 | <0.0080 | <0.0080 | 0.0087 | <0.0080 | <0.0080 | <0.0080 | <0.0080 | <0.0080 |
| Nickel - Dissolved | **0.1** | NA | mg/L | | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | 0.0338 | 0.074 | <0.0100 | <0.0100 | 0.0308 | **2.72** | <0.0100 | <0.0100 |
| Nitrate as Nitrogen | **10** | **10** | mg/L | | <0.050 | <0.050 | 0.742 | 1.11 | 2.16 | 0.114 | <0.050 | <0.050 | <0.050 | 0.699 | 1.81 | 3.93 | <0.050 | 0.645 |
| Nitrite + Nitrate as Nitrogen | 10 | **11** | mg/L | | <0.100 | <0.100 | 0.742 | 1.11 | 2.16 | 0.125 | <0.100 | <0.100 | <0.100 | 0.699 | 1.81 | 3.93 | <0.100 | 0.645 |
| Nitrite as Nitrogen | **1** | **1** | mg/L | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.500 | <0.050 | <0.050 |
| pH Field | 6.5-8.5 | **6.0-8.5** | pH units | | 6.45 | 7.46 | 6.4 | 6.95 | 6.77 | 7.1 | 6.4 | **4.75** | 7.9 | 6.71 | 6.8 | **3.85** | 7.76 | 6.45 |
| Selenium - Dissolved | 0.02 | **0.024** | mg/L | | <0.00100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | 0.00137 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | 0.00206 | 0.0151 | <0.00100 | <0.00100 |
| Silver - Dissolved | **0.05** | NA | mg/L | | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Sodium - Dissolved | NA | NA | mg/L | | 9.43 | 9.86 | 13.7 | 24.3 | 25.4 | 41.4 | 14.2 | 12.8 | 36.4 | 17.5 | 22.2 | 40.8 | 31 | 10.1 |
| Sulfate - Total | **250** | NA | mg/L | | 63.9 | 22.9 | 124 | 61.8 | 90.6 | **1,590** | 183 | **251** | 31.4 | 69.5 | **1,860** | **9,430** | 15.2 | 20.9 |
| Thallium - Dissolved | **0.002** | NA | mg/L | | <0.000200 | <0.000200 | <0.000200 | <0.000200 | <0.000200 | <0.000200 | <0.000200 | <0.000200 | <0.000200 | <0.000200 | <0.000200 | <0.00200 | <0.000200 | <0.000200 |
| Total Dissolved Solids | NA | NA | mg/L | | 189 | 192 | 280 | 278 | 280 | 2,480 | 292 | 404 | 215 | 191 | 2,560 | 12,300 | 187 | 90 |
| Uranium - Dissolved | **0.03** | NA | mg/L | | 0.000113 | 0.00477 | 0.000344 | 0.00492 | 0.00262 | **0.0788** | <0.000100 | 0.00882 | 0.00371 | 0.000713 | 0.0151 | **3.57** | 0.00346 | 0.000126 |
| Vanadium - Dissolved | **0.1** | NA | mg/L | | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Zinc - Dissolved | **2** | **2** | mg/L | | 0.0137 | <0.0100 | <0.0100 | <0.0100 | <0.0100 | 0.12 | 0.3 | 1.35 | <0.0100 | <0.0100 | 0.0514 | **72.9** | <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** - greater than applicable standard
< - less than
mg/L - milligrams per liter
NPL - Numeric Protection Limit
NS- Not sampled
TVS - table value standard

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

| ANALYTE | Reg 41 TVS | Site Wide NPL | UNIT | Well I.D. | GVMW-27 | GVMW-28 | GVMW-33 | GVMW-34 | GVMW-35B | GVMW-36 | GVMW-37A | GVMW-37B | OSABH-17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample Date | 12/17/2024 | 12/16/2024 | 12/17/2024 | 12/17/2024 | 12/17/2024 | 12/17/2024 | 12/12/2024 | 12/12/2024 | 12/16/2024 |
| Aluminum - Dissolved | 5 | **7** | mg/L | | **190** | **1,890** | **709** | **11** | <0.080 | **1,050** | <0.080 | <0.080 | **4,580** |
| Ammonia | NA | NA | mg/L | | <0.030 | <0.030 | 0.339 | <0.030 | <0.030 | 0.122 | <0.030 | <0.030 | <0.030 |
| Antimony - Dissolved | **0.006** | NA | mg/L | | <0.00100 | <0.0100 | <0.00100 | <0.00100 | <0.00100 | <0.00100 | 0.00214 | <0.00100 | <0.100 |
| Arsenic - Dissolved | **0.01** | NA | mg/L | | **0.0458** | **0.612** | **0.241** | <0.00100 | <0.00100 | **0.0883** | 0.00177 | <0.00100 | **1.04** |
| Barium - Dissolved | **2** | NA | mg/L | | 0.013 | 0.012 | 0.0194 | 0.0303 | 0.0138 | 0.016 | 0.0897 | 0.0807 | <0.0200 |
| Beryllium - Dissolved | **0.004** | NA | mg/L | | **0.147** | **0.974** | **0.706** | **0.0115** | <0.00200 | **0.245** | <0.00200 | <0.00200 | **0.811** |
| Boron - Total | **0.75** | NA | mg/L | | <0.0400 | 0.101 | 0.0505 | 0.0477 | <0.0400 | 0.0515 | <0.0400 | <0.0400 | <0.400 |
| Cadmium - Dissolved | **0.005** | **0.005** | mg/L | | **0.419** | **3.46** | **1.49** | **0.0466** | <0.0020 | **2.16** | <0.0020 | <0.0020 | **10** |
| Chloride - Total | **250** | NA | mg/L | | 29 | 5.85 | 6.5 | 28.7 | 82.9 | 10.7 | 4.07 | 3.91 | 18.3 |
| Chromium - Dissolved | **0.1** | NA | mg/L | | <0.0060 | **0.389** | <0.0060 | <0.0060 | <0.0060 | **0.196** | <0.0060 | <0.0060 | **0.66** |
| Cobalt - Dissolved | **0.05** | NA | mg/L | | **0.413** | **3.89** | **1.2** | 0.0412 | <0.0060 | **4.52** | <0.0060 | <0.0060 | **21** |
| Copper - Dissolved | **0.2** | **0.2** | mg/L | | **0.521** | **11.4** | **2.25** | <0.0100 | <0.0100 | **5.20** | <0.0100 | <0.0100 | **19.7** |
| Cyanide - Free | **0.2** | NA | mg/L | | <0.0050 | <0.0500 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0500 |
| Cyanide - Total | NA | NA | mg/L | | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | 0.0061 |
| Cyanide - WAD | NA | **0.2** | mg/L | | <0.0050 | <0.0050 | <0.0050 | 0.008 | 0.008 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Fluoride - Total F | **2** | **2** | mg/L | | **7.59** | **43.6** | **34.4** | **20.4** | <0.100 | **136** | 1.31 | 1.88 | **350** |
| Iron - Dissolved | 0.3 | **14** | mg/L | | 6.69 | **328** | 12 | <0.100 | <0.100 | **25.8** | <0.100 | <0.100 | **392** |
| Lead - Dissolved | **0.05** | NA | mg/L | | 0.0141 | **0.121** | **0.0818** | <0.0075 | <0.0075 | **0.175** | <0.0075 | <0.0075 | **0.195** |
| Lithium - Dissolved | **2.5** | NA | mg/L | | <0.040 | 0.437 | 0.163 | 0.088 | <0.040 | 0.39 | <0.040 | <0.040 | 1.49 |
| Manganese - Dissolved | 0.05 | **3** | mg/L | | **68.9** | **433** | **236** | **59.5** | 0.742 | **256** | 0.115 | 0.083 | **1,580** |
| Mercury - Dissolved | **0.002** | **0.002** | mg/L | | <0.000200 | <0.000200 | <0.000200 | <0.000200 | <0.000200 | <0.000200 | <0.000200 | <0.000200 | <0.000200 |
| Molybdenum - Dissolved | **0.21** | NA | mg/L | | <0.0080 | <0.0160 | <0.0080 | <0.0080 | <0.0080 | <0.0080 | 0.0208 | <0.0080 | <0.0800 |
| Nickel - Dissolved | **0.1** | NA | mg/L | | **0.653** | **4.94** | **2.03** | **0.244** | <0.0100 | **3.87** | <0.0100 | <0.0100 | **15.6** |
| Nitrate as Nitrogen | **10** | **10** | mg/L | | 1.56 | 6.07 | 5.14 | **10.5** | **11** | 3.05 | <0.050 | 1.05 | 4.96 |
| Nitrite + Nitrate as Nitrogen | 10 | **11** | mg/L | | 1.56 | 6.07 | 5.14 | 10.5 | **11.1** | 3.05 | <0.100 | 1.08 | <5.00 |
| Nitrite as Nitrogen | **1** | **1** | mg/L | | <0.250 | <1.25 | <0.500 | <0.250 | 0.073 | <0.500 | <0.050 | <0.050 | <2.50 |
| pH Field | 6.5-8.5 | **6.0-8.5** | pH units | | **4.45** | **3.06** | **3.58** | 6.04 | **5.65** | **3.19** | **8.73** | 7.62 | **3.02** |
| Selenium - Dissolved | 0.02 | **0.024** | mg/L | | 0.00431 | **0.0245** | **0.028** | 0.0133 | 0.00432 | 0.018 | <0.00100 | 0.00129 | <0.100 |
| Silver - Dissolved | **0.05** | NA | mg/L | | <0.0050 | <0.0100 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0500 |
| Sodium - Dissolved | NA | NA | mg/L | | 48.2 | 39.3 | 140 | 43.7 | 15.1 | 59.6 | 36.8 | 28.9 | 11.3 |
| Sulfate - Total | **250** | NA | mg/L | | **2,970** | **17,100** | **7,430** | **2,670** | **1,250** | **10,100** | 225 | 114 | **36,700** |
| Thallium - Dissolved | **0.002** | NA | mg/L | | <0.000200 | <0.00200 | <0.00100 | <0.000200 | <0.000200 | <0.00200 | <0.000200 | <0.000200 | <0.0200 |
| Total Dissolved Solids | NA | NA | mg/L | | 4,290 | 22,900 | 10,600 | 4,510 | 2,030 | 14,500 | 491 | 331 | 55,200 |
| Uranium - Dissolved | **0.03** | NA | mg/L | | **0.719** | **6.67** | **2.9** | 0.0273 | 0.00574 | **5.45** | 0.00434 | 0.00269 | **19.1** |
| Vanadium - Dissolved | **0.1** | NA | mg/L | | <0.0050 | 0.0332 | 0.0218 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0500 |
| Zinc - Dissolved | **2** | **2** | mg/L | | **17.1** | **158** | **36.2** | **6.45** | <0.0100 | **99.2** | <0.0100 | <0.0100 | **361** |

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** - greater than applicable standard
< - less than
mg/L - milligrams per liter
NPL - Numeric Protection Limit
NS- Not sampled
TVS - table value standard

Newmont
NORTH AMERICA

Cripple Creek & Victor
Gold Mining Company
P.O. Box 191
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# Attachment 1

## Laboratory Analytical Reports

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

| | |
|---|---|
| **Newmont - Cripple Creek & Victor** | **Project Name: Cripple Creek/Victor Water and Soil 2024** |
| Post Office Box 191 | Work Order: **X4L0212** |
| Victor, CO 80860 | Reported: 26-Dec-24 15:48 |

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled | Sampled By | Date Received | Notes |
|---|---|---|---|---|---|---|
| GVMW-26 A | X4L0212-01 | Ground Water | 09-Dec-24 09:10 | JC | 12-Dec-2024 | |
| GVMW-26B | X4L0212-02 | Ground Water | 09-Dec-24 10:05 | JC | 12-Dec-2024 | |
| GVMW-24B | X4L0212-03 | Ground Water | 09-Dec-24 11:05 | JC | 12-Dec-2024 | |
| GVMW-22B | X4L0212-04 | Ground Water | 09-Dec-24 12:15 | JC | 12-Dec-2024 | |
| GVMW-22A | X4L0212-05 | Ground Water | 09-Dec-24 13:05 | JC | 12-Dec-2024 | |
| GVMW-7A | X4L0212-06 | Ground Water | 09-Dec-24 14:25 | JC | 12-Dec-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: X4L0212

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

Client Sample ID: **GVMW-26 A**
SVL Sample ID: **X4L0212-01 (Ground Water)**



Sampled: 09-Dec-24 09:10
Received: 12-Dec-24
Sampled By: JC

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Metals (Total Recoverable--reportable as Total per 40 CFR 136)** | | | | | | | | | | |
| EPA 200.7 | **Calcium** | 29.5 | mg/L | 0.100 | 0.069 | | X451041 | NMS | 12/19/24 09:03 | |
| EPA 200.7 | **Magnesium** | 6.78 | mg/L | 0.500 | 0.090 | | X451041 | NMS | 12/19/24 09:03 | |
| EPA 200.7 | **Potassium** | 1.01 | mg/L | 0.50 | 0.18 | | X451041 | NMS | 12/19/24 09:03 | |
| SM 2340 B | **Hardness (as CaCO3)** | 99.6 | mg/L | 2.31 | 0.543 | | N/A | | 12/19/24 09:03 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | **Barium** | 0.196 | mg/L | 0.0020 | 0.0019 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | **Calcium** | 29.2 | mg/L | 0.100 | 0.069 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | Iron | < 0.100 | mg/L | 0.100 | 0.056 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | **Magnesium** | 6.47 | mg/L | 0.500 | 0.090 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | **Manganese** | 0.0082 | mg/L | 0.0080 | 0.0034 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | **Potassium** | 0.83 | mg/L | 0.50 | 0.18 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | **Sodium** | 31.0 | mg/L | 0.50 | 0.12 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.7 | Zinc | < 0.0100 | mg/L | 0.0100 | 0.0054 | | X451016 | NMS | 12/22/24 13:02 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451076 | JRR | 12/26/24 11:05 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451076 | JRR | 12/26/24 11:05 | |
| EPA 200.8 | Selenium | < 0.00100 | mg/L | 0.00100 | 0.00024 | | X451076 | JRR | 12/26/24 11:05 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451076 | JRR | 12/26/24 11:05 | |
| EPA 200.8 | **Uranium** | 0.00346 | mg/L | 0.000100 | 0.000052 | | X451076 | JRR | 12/26/24 11:05 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X450177 | MAC | 12/17/24 17:12 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 @22.0°C | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451164 | DD | 12/24/24 14:18 | H1 |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451005 | DD | 12/17/24 12:06 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451033 | DD | 12/20/24 17:35 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:13 | |
| SM 2310 B | **Acidity to pH 8.3** | -161 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | **Total Alkalinity** | 156 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:27 | |
| SM 2320 B | **Bicarbonate** | 156 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:27 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:27 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:27 | |
| SM 2540 C | **Total Diss. Solids** | 187 | mg/L | 10 | | | X450184 | TJL | 12/16/24 13:55 | |
| SM 2540 D | Total Susp. Solids | < 5.0 | mg/L | 5.0 | | | X450186 | TJL | 12/17/24 08:15 | |
| SM 4500 H B | **pH @18.8°C** | 8.0 | pH Units | | | | X451053 | MWD | 12/17/24 18:27 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

Client Sample ID: **GVMW-26 A**
SVL Sample ID: **X4L0212-01 (Ground Water)**



Sampled: 09-Dec-24 09:10
Received: 12-Dec-24
Sampled By: JC

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 1.26 | mg/L | 0.20 | 0.02 | | X450185 | RS | 12/13/24 17:11 | |
| EPA 300.0 | **Fluoride** | 1.90 | mg/L | 0.100 | 0.017 | | X450185 | RS | 12/13/24 17:11 | |
| EPA 300.0 | Nitrate as N | < 0.050 | mg/L | 0.050 | 0.013 | | X450185 | RS | 12/13/24 17:11 | H3 |
| EPA 300.0 | Nitrate+Nitrite as N | < 0.100 | mg/L | 0.100 | 0.044 | | X450185 | RS | 12/13/24 17:11 | H3 |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450185 | RS | 12/13/24 17:11 | H3 |
| EPA 300.0 | **Sulfate as SO4** | 15.2 | mg/L | 0.30 | 0.18 | | X450185 | RS | 12/13/24 17:11 | |
| **Cation/Anion Balance and TDS Ratios** | | | | | | | | | | |

Cation Sum: 3.38 meq/L  Anion Sum: 3.57 meq/L  C/A Balance: -2.83 %  Calculated TDS: 180  TDS/cTDS: 1.04

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X4L0212-02 (Ground Water)**



Sampled: 09-Dec-24 10:05
Received: 12-Dec-24
Sampled By: JC

| 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** | 11.0 | mg/L | 0.100 | 0.069 | | X451041 | NMS | 12/19/24 09:06 | |
| EPA 200.7 | **Magnesium** | 2.33 | mg/L | 0.500 | 0.090 | | X451041 | NMS | 12/19/24 09:06 | |
| EPA 200.7 | **Potassium** | 0.83 | mg/L | 0.50 | 0.18 | | X451041 | NMS | 12/19/24 09:06 | |
| SM 2340 B | **Hardness (as CaCO3)** | 37.1 | mg/L | 2.31 | 0.543 | | N/A | | 12/22/24 13:15 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | **Barium** | 0.109 | mg/L | 0.0020 | 0.0019 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | **Calcium** | 10.9 | mg/L | 0.100 | 0.069 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Iron | < 0.100 | mg/L | 0.100 | 0.056 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | **Magnesium** | 2.10 | mg/L | 0.500 | 0.090 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Manganese | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | **Potassium** | 0.80 | mg/L | 0.50 | 0.18 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | **Sodium** | 10.1 | mg/L | 0.50 | 0.12 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.7 | Zinc | < 0.0100 | mg/L | 0.0100 | 0.0054 | | X451016 | NMS | 12/22/24 13:15 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451076 | JRR | 12/26/24 11:08 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451076 | JRR | 12/26/24 11:08 | |
| EPA 200.8 | Selenium | < 0.00100 | mg/L | 0.00100 | 0.00024 | | X451076 | JRR | 12/26/24 11:08 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451076 | JRR | 12/26/24 11:08 | |
| EPA 200.8 | **Uranium** | 0.000126 | mg/L | 0.000100 | 0.000052 | | X451076 | JRR | 12/26/24 11:08 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X450177 | MAC | 12/17/24 17:14 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 @22.0°C | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451164 | DD | 12/24/24 14:20 | H1 |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451005 | DD | 12/17/24 12:09 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451033 | DD | 12/20/24 17:37 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:14 | |
| SM 2310 B | **Acidity to pH 8.3** | -41.6 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | **Total Alkalinity** | 36.6 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:33 | |
| SM 2320 B | **Bicarbonate** | 36.6 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:33 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:33 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:33 | |
| SM 2540 C | **Total Diss. Solids** | 90 | mg/L | 10 | | | X450184 | TJL | 12/16/24 13:55 | |
| SM 2540 D | Total Susp. Solids | < 5.0 | mg/L | 5.0 | | | X450186 | TJL | 12/17/24 08:15 | |
| SM 4500 H B | **pH @18.6°C** | 6.8 | pH Units | | | | X451053 | MWD | 12/17/24 18:33 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X4L0212-02 (Ground Water)**



Sampled: 09-Dec-24 10:05
Received: 12-Dec-24
Sampled By: JC

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 1.84 | mg/L | 0.20 | 0.02 | | X450185 | RS | 12/13/24 17:48 | |
| EPA 300.0 | **Fluoride** | 0.245 | mg/L | 0.100 | 0.017 | | X450185 | RS | 12/13/24 17:48 | |
| EPA 300.0 | **Nitrate as N** | 0.645 | mg/L | 0.050 | 0.013 | | X450185 | RS | 12/13/24 17:48 | H3 |
| EPA 300.0 | **Nitrate+Nitrite as N** | 0.645 | mg/L | 0.100 | 0.044 | | X450185 | RS | 12/13/24 17:48 | H3 |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450185 | RS | 12/13/24 17:48 | H3 |
| EPA 300.0 | **Sulfate as SO4** | 20.9 | mg/L | 0.30 | 0.18 | | X450185 | RS | 12/13/24 17:48 | |
| **Cation/Anion Balance and TDS Ratios** | | | | | | | | | | |

Cation Sum: 1.19 meq/L  Anion Sum: 1.28 meq/L  C/A Balance: -3.49 %  Calculated TDS: 72  TDS/cTDS: 1.25

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

Kristi A. Groth

Kristi A. Groth
Project Manager

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
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**Newmont - Cripple Creek & Victor**
Post Office Box 191
Victor, CO 80860

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

Client Sample ID: **GVMW-24B**
SVL Sample ID: **X4L0212-03 (Ground Water)**



Sampled: 09-Dec-24 11:05
Received: 12-Dec-24
Sampled By: JC

| 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** | 505 | mg/L | 1.00 | 0.690 | 10 | X451041 | NMS | 12/19/24 09:46 | |
| EPA 200.7 | **Magnesium** | 135 | mg/L | 5.00 | 0.900 | 10 | X451041 | NMS | 12/19/24 09:46 | |
| EPA 200.7 | **Potassium** | 2.57 | mg/L | 0.50 | 0.18 | | X451041 | NMS | 12/19/24 09:10 | |
| SM 2340 B | **Hardness (as CaCO3)** | 1820 | mg/L | 23.1 | 5.43 | | N/A | | 12/22/24 13:18 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | **Aluminum** | 0.219 | mg/L | 0.080 | 0.054 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | **Barium** | 0.0118 | mg/L | 0.0020 | 0.0019 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | **Calcium** | 526 | mg/L | 0.100 | 0.069 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | Iron | < 0.100 | mg/L | 0.100 | 0.056 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | **Magnesium** | 147 | mg/L | 0.500 | 0.090 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | **Manganese** | 1.13 | mg/L | 0.0080 | 0.0034 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | **Nickel** | 0.0308 | mg/L | 0.0100 | 0.0048 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | **Potassium** | 2.42 | mg/L | 0.50 | 0.18 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | **Sodium** | 22.2 | mg/L | 0.50 | 0.12 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.7 | **Zinc** | 0.0514 | mg/L | 0.0100 | 0.0054 | | X451016 | NMS | 12/22/24 13:18 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451076 | JRR | 12/26/24 11:11 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451076 | JRR | 12/26/24 11:11 | |
| EPA 200.8 | **Selenium** | 0.00206 | mg/L | 0.00100 | 0.00024 | | X451076 | JRR | 12/26/24 11:11 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451076 | JRR | 12/26/24 11:11 | |
| EPA 200.8 | **Uranium** | 0.0151 | mg/L | 0.000100 | 0.000052 | | X451076 | JRR | 12/26/24 11:11 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X450177 | MAC | 12/17/24 17:17 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 @22.0°C | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451164 | DD | 12/24/24 14:22 | H1 |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451005 | DD | 12/17/24 12:11 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451033 | DD | 12/20/24 17:40 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:20 | |
| SM 2310 B | **Acidity to pH 8.3** | -71.4 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | **Total Alkalinity** | 74.9 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:39 | |
| SM 2320 B | **Bicarbonate** | 74.9 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:39 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:39 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:39 | |
| SM 2540 C | **Total Diss. Solids** | 2560 | mg/L | 40 | | | X450184 | TJL | 12/16/24 13:55 | |
| SM 2540 D | **Total Susp. Solids** | 9.0 | mg/L | 5.0 | | | X450186 | TJL | 12/17/24 08:15 | |
| SM 4500 H B | **pH @18.7°C** | 6.7 | pH Units | | | | X451053 | MWD | 12/17/24 18:39 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

Client Sample ID: **GVMW-24B**
SVL Sample ID: **X4L0212-03 (Ground Water)**



Sampled: 09-Dec-24 11:05
Received: 12-Dec-24
Sampled By: JC

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | Chloride | < 20.0 | mg/L | 20.0 | 2.20 | 100 | X450185 | RS | 12/16/24 14:15 | |
| EPA 300.0 | **Fluoride** | 1.18 | mg/L | 0.100 | 0.017 | | X450185 | RS | 12/13/24 18:03 | |
| EPA 300.0 | **Nitrate as N** | 1.81 | mg/L | 0.050 | 0.013 | | X450185 | RS | 12/13/24 18:03 | H3 |
| EPA 300.0 | **Nitrate+Nitrite as N** | 1.81 | mg/L | 0.100 | 0.044 | | X450185 | RS | 12/13/24 18:03 | H3 |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450185 | RS | 12/13/24 18:03 | H3 |
| EPA 300.0 | **Sulfate as SO4** | 1860 | mg/L | 30.0 | 18.0 | 100 | X450185 | RS | 12/16/24 14:15 | |
| **Cation/Anion Balance and TDS Ratios** | | | | | | | | | | |

Cation Sum: 37.4 meq/L  Anion Sum: 40.5 meq/L  C/A Balance: -3.93 %  Calculated TDS: 2595  TDS/cTDS: 0.99

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X4L0212-04 (Ground Water)**



Sampled: 09-Dec-24 12:15
Received: 12-Dec-24
Sampled By: JC

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Metals (Total Recoverable--reportable as Total per 40 CFR 136)** | | | | | | | | | | |
| EPA 200.7 | **Calcium** | 30.5 | mg/L | 0.100 | 0.069 | | X451041 | NMS | 12/19/24 09:14 | |
| EPA 200.7 | **Magnesium** | 8.35 | mg/L | 0.500 | 0.090 | | X451041 | NMS | 12/19/24 09:14 | |
| EPA 200.7 | **Potassium** | 1.54 | mg/L | 0.50 | 0.18 | | X451041 | NMS | 12/19/24 09:14 | |
| SM 2340 B | **Hardness (as CaCO3)** | 110 | mg/L | 2.31 | 0.543 | | N/A | | 12/22/24 13:22 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | **Barium** | 0.0506 | mg/L | 0.0020 | 0.0019 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | **Calcium** | 30.2 | mg/L | 0.100 | 0.069 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Iron | < 0.100 | mg/L | 0.100 | 0.056 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | **Magnesium** | 7.82 | mg/L | 0.500 | 0.090 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Manganese | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | **Potassium** | 1.36 | mg/L | 0.50 | 0.18 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | **Sodium** | 17.5 | mg/L | 0.50 | 0.12 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.7 | Zinc | < 0.0100 | mg/L | 0.0100 | 0.0054 | | X451016 | NMS | 12/22/24 13:22 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451076 | JRR | 12/26/24 11:14 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451076 | JRR | 12/26/24 11:14 | |
| EPA 200.8 | Selenium | < 0.00100 | mg/L | 0.00100 | 0.00024 | | X451076 | JRR | 12/26/24 11:14 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451076 | JRR | 12/26/24 11:14 | |
| EPA 200.8 | **Uranium** | 0.000713 | mg/L | 0.000100 | 0.000052 | | X451076 | JRR | 12/26/24 11:14 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X450177 | MAC | 12/17/24 17:19 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 @22.0°C | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451164 | DD | 12/24/24 14:24 | H1 |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451005 | DD | 12/17/24 12:14 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451033 | DD | 12/20/24 17:42 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:22 | |
| SM 2310 B | **Acidity to pH 8.3** | -71.4 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | **Total Alkalinity** | 65.8 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:44 | |
| SM 2320 B | **Bicarbonate** | 65.8 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:44 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:44 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:44 | |
| SM 2540 C | **Total Diss. Solids** | 191 | mg/L | 10 | | | X450184 | TJL | 12/16/24 13:55 | |
| SM 2540 D | Total Susp. Solids | < 5.0 | mg/L | 5.0 | | | X450186 | TJL | 12/17/24 08:15 | |
| SM 4500 H B | **pH @18.8°C** | 6.9 | pH Units | | | | X451053 | MWD | 12/17/24 18:44 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X4L0212-04 (Ground Water)**



Sampled: 09-Dec-24 12:15
Received: 12-Dec-24
Sampled By: JC

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 9.81 | mg/L | 0.20 | 0.02 | | X450185 | RS | 12/13/24 19:22 | |
| EPA 300.0 | **Fluoride** | 0.384 | mg/L | 0.100 | 0.017 | | X450185 | RS | 12/13/24 19:22 | |
| EPA 300.0 | **Nitrate as N** | 0.699 | mg/L | 0.050 | 0.013 | | X450185 | RS | 12/13/24 19:22 | H3 |
| EPA 300.0 | **Nitrate+Nitrite as N** | 0.699 | mg/L | 0.100 | 0.044 | | X450185 | RS | 12/13/24 19:22 | H3 |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450185 | RS | 12/13/24 19:22 | H3 |
| EPA 300.0 | **Sulfate as SO4** | 69.5 | mg/L | 3.00 | 1.80 | 10 | X450185 | RS | 12/13/24 19:38 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 2.96 meq/L  Anion Sum: 3.11 meq/L  C/A Balance: -2.44 %  Calculated TDS: 180  TDS/cTDS: 1.06

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

Client Sample ID: **GVMW-22A**
SVL Sample ID: **X4L0212-05 (Ground Water)**



Sampled: 09-Dec-24 13:05
Received: 12-Dec-24
Sampled By: JC

| 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** | 28.9 | mg/L | 0.100 | 0.069 | | X451041 | NMS | 12/19/24 09:18 | |
| EPA 200.7 | **Magnesium** | 11.8 | mg/L | 0.500 | 0.090 | | X451041 | NMS | 12/19/24 09:18 | |
| EPA 200.7 | **Potassium** | 1.26 | mg/L | 0.50 | 0.18 | | X451041 | NMS | 12/19/24 09:18 | |
| SM 2340 B | **Hardness (as CaCO3)** | 116 | mg/L | 2.31 | 0.543 | | N/A | | 12/19/24 09:18 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | **Barium** | 0.105 | mg/L | 0.0020 | 0.0019 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | **Calcium** | 28.3 | mg/L | 0.100 | 0.069 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | **Iron** | 0.129 | mg/L | 0.100 | 0.056 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | **Magnesium** | 11.0 | mg/L | 0.500 | 0.090 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | **Manganese** | 0.166 | mg/L | 0.0080 | 0.0034 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | **Molybdenum** | 0.0087 | mg/L | 0.0080 | 0.0034 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | **Potassium** | 1.07 | mg/L | 0.50 | 0.18 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | **Sodium** | 36.4 | mg/L | 0.50 | 0.12 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.7 | Zinc | < 0.0100 | mg/L | 0.0100 | 0.0054 | | X451016 | NMS | 12/22/24 13:26 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451076 | JRR | 12/26/24 11:20 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451076 | JRR | 12/26/24 11:20 | |
| EPA 200.8 | Selenium | < 0.00100 | mg/L | 0.00100 | 0.00024 | | X451076 | JRR | 12/26/24 11:20 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451076 | JRR | 12/26/24 11:20 | |
| EPA 200.8 | **Uranium** | 0.00371 | mg/L | 0.000100 | 0.000052 | | X451076 | JRR | 12/26/24 11:20 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X450177 | MAC | 12/17/24 17:21 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 @22.0°C | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451164 | DD | 12/24/24 14:26 | H1 |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451005 | DD | 12/17/24 12:17 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451033 | DD | 12/20/24 17:44 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:23 | |
| SM 2310 B | **Acidity to pH 8.3** | -161 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | **Total Alkalinity** | 166 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:49 | |
| SM 2320 B | **Bicarbonate** | 166 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:49 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:49 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:49 | |
| SM 2540 C | **Total Diss. Solids** | 215 | mg/L | 10 | | | X450184 | TJL | 12/16/24 13:55 | |
| SM 2540 D | Total Susp. Solids | < 5.0 | mg/L | 5.0 | | | X450186 | TJL | 12/17/24 08:15 | |
| SM 4500 H B | **pH @19.1°C** | 7.9 | pH Units | | | | X451053 | MWD | 12/17/24 18:49 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

Client Sample ID: **GVMW-22A**
SVL Sample ID: **X4L0212-05 (Ground Water)**



Sampled: 09-Dec-24 13:05
Received: 12-Dec-24
Sampled By: JC

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 3.85 | mg/L | 0.20 | 0.02 | | X450185 | RS | 12/13/24 19:54 | |
| EPA 300.0 | **Fluoride** | 2.17 | mg/L | 0.100 | 0.017 | | X450185 | RS | 12/13/24 19:54 | |
| EPA 300.0 | Nitrate as N | < 0.050 | mg/L | 0.050 | 0.013 | | X450185 | RS | 12/13/24 19:54 | H3 |
| EPA 300.0 | Nitrate+Nitrite as N | < 0.100 | mg/L | 0.100 | 0.044 | | X450185 | RS | 12/13/24 19:54 | H3 |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450185 | RS | 12/13/24 19:54 | H3 |
| EPA 300.0 | **Sulfate as SO4** | 31.4 | mg/L | 0.30 | 0.18 | | X450185 | RS | 12/13/24 19:54 | |
| **Cation/Anion Balance and TDS Ratios** | | | | | | | | | | |

Cation Sum: 3.95 meq/L  Anion Sum: 4.20 meq/L  C/A Balance: -3.01 %  Calculated TDS: 215  TDS/cTDS: 1.00

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

Kristi A. Groth

Kristi A. Groth
Project Manager

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
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**Newmont - Cripple Creek & Victor**
Post Office Box 191
Victor, CO 80860

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

Client Sample ID: **GVMW-7A**
SVL Sample ID: **X4L0212-06 (Ground Water)**



Sampled: 09-Dec-24 14:25
Received: 12-Dec-24
Sampled By: JC

| 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** | 41.8 | mg/L | 0.100 | 0.069 | | X451041 | NMS | 12/19/24 09:32 | |
| EPA 200.7 | **Magnesium** | 19.1 | mg/L | 0.500 | 0.090 | | X451041 | NMS | 12/19/24 09:32 | |
| EPA 200.7 | **Potassium** | 1.05 | mg/L | 0.50 | 0.18 | | X451041 | NMS | 12/19/24 09:32 | |
| SM 2340 B | **Hardness (as CaCO3)** | 183 | mg/L | 2.31 | 0.543 | | N/A | | 12/22/24 13:29 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | **Barium** | 0.177 | mg/L | 0.0020 | 0.0019 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | **Calcium** | 41.8 | mg/L | 0.100 | 0.069 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | **Iron** | 1.19 | mg/L | 0.100 | 0.056 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | **Magnesium** | 18.3 | mg/L | 0.500 | 0.090 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | **Manganese** | 0.222 | mg/L | 0.0080 | 0.0034 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | **Potassium** | 0.99 | mg/L | 0.50 | 0.18 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | **Sodium** | 9.86 | mg/L | 0.50 | 0.12 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.7 | Zinc | < 0.0100 | mg/L | 0.0100 | 0.0054 | | X451016 | NMS | 12/22/24 13:29 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451076 | JRR | 12/26/24 11:45 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451076 | JRR | 12/26/24 11:45 | |
| EPA 200.8 | Selenium | < 0.00100 | mg/L | 0.00100 | 0.00024 | | X451076 | JRR | 12/26/24 11:45 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451076 | JRR | 12/26/24 11:45 | |
| EPA 200.8 | **Uranium** | 0.00477 | mg/L | 0.000100 | 0.000052 | | X451076 | JRR | 12/26/24 11:45 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X450177 | MAC | 12/17/24 17:23 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 @22.0°C | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451164 | DD | 12/24/24 14:28 | H1 |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451005 | DD | 12/17/24 12:20 | |
| EPA 350.1 | **Ammonia as N** | 0.064 | mg/L | 0.030 | 0.013 | | X451033 | DD | 12/20/24 17:46 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:25 | |
| SM 2310 B | **Acidity to pH 8.3** | -161 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | **Total Alkalinity** | 174 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:55 | |
| SM 2320 B | **Bicarbonate** | 174 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:55 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:55 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:55 | |
| SM 2540 C | **Total Diss. Solids** | 192 | mg/L | 10 | | | X450184 | TJL | 12/16/24 13:55 | |
| SM 2540 D | **Total Susp. Solids** | 5.0 | mg/L | 5.0 | | | X450186 | TJL | 12/17/24 08:15 | |
| SM 4500 H B | **pH @19.2°C** | 7.6 | pH Units | | | | X451053 | MWD | 12/17/24 18:55 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

Client Sample ID: **GVMW-7A**
SVL Sample ID: **X4L0212-06 (Ground Water)**



Sampled: 09-Dec-24 14:25
Received: 12-Dec-24
Sampled By: JC

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 13.8 | mg/L | 2.00 | 0.22 | 10 | X450185 | RS | 12/13/24 20:42 | |
| EPA 300.0 | **Fluoride** | 0.845 | mg/L | 0.100 | 0.017 | | X450185 | RS | 12/13/24 20:26 | |
| EPA 300.0 | Nitrate as N | < 0.050 | mg/L | 0.050 | 0.013 | | X450185 | RS | 12/13/24 20:26 | H3 |
| EPA 300.0 | Nitrate+Nitrite as N | < 0.100 | mg/L | 0.100 | 0.044 | | X450185 | RS | 12/13/24 20:26 | H3 |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450185 | RS | 12/13/24 20:26 | H3 |
| EPA 300.0 | **Sulfate as SO4** | 22.9 | mg/L | 0.30 | 0.18 | | X450185 | RS | 12/13/24 20:26 | |
| **Cation/Anion Balance and TDS Ratios** | | | | | | | | | | |

Cation Sum: 4.11 meq/L  Anion Sum: 4.39 meq/L  C/A Balance: -3.25 %  Calculated TDS: 213  TDS/cTDS: 0.90

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

## 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 | X451041 | 19-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | <0.500 | 0.090 | 0.500 | X451041 | 19-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | <0.50 | 0.18 | 0.50 | X451041 | 19-Dec-24 | |
| **Metals (Dissolved)** | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | <0.080 | 0.054 | 0.080 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Barium | mg/L | <0.0020 | 0.0019 | 0.0020 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | <0.00200 | 0.00080 | 0.00200 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Boron | mg/L | <0.0400 | 0.0078 | 0.0400 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | <0.0020 | 0.0016 | 0.0020 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | <0.100 | 0.069 | 0.100 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | <0.0060 | 0.0020 | 0.0060 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | <0.0060 | 0.0046 | 0.0060 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Copper | mg/L | <0.0100 | 0.0027 | 0.0100 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Iron | mg/L | <0.100 | 0.056 | 0.100 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Lead | mg/L | <0.0075 | 0.0049 | 0.0075 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | <0.040 | 0.025 | 0.040 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | <0.500 | 0.090 | 0.500 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | <0.0080 | 0.0034 | 0.0080 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | <0.0080 | 0.0034 | 0.0080 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | <0.0100 | 0.0048 | 0.0100 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | <0.50 | 0.18 | 0.50 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Silver | mg/L | <0.0050 | 0.0019 | 0.0050 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | <0.50 | 0.12 | 0.50 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | <0.0050 | 0.0019 | 0.0050 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | <0.0100 | 0.0054 | 0.0100 | X451016 | 22-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | <0.00100 | 0.00072 | 0.00100 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | <0.00100 | 0.00021 | 0.00100 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | <0.00100 | 0.00024 | 0.00100 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | <0.000200 | 0.00008 | 0.000200 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | <0.000100 | 0.000052 | 0.000100 | X451076 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | <0.000200 | 0.000093 | 0.000200 | X450177 | 17-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | <0.0050 | 0.0048 | 0.0050 | X451164 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | <0.0050 | 0.0038 | 0.0050 | X451005 | 17-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | <0.030 | 0.013 | 0.030 | X451033 | 20-Dec-24 | |
| OIA 1677 | Cyanide (WAD) | mg/L | <0.0050 | 0.0010 | 0.0050 | X451065 | 18-Dec-24 | |
| SM 2310 B | Acidity to pH 8.3 | mg/L as CaCO3 | <10.0 | | 10.0 | X451190 | 21-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | <1.0 | | 1.0 | X451053 | 17-Dec-24 | |
| SM 2320 B | Bicarbonate | mg/L as CaCO3 | <1.0 | | 1.0 | X451053 | 17-Dec-24 | |
| SM 2320 B | Carbonate | mg/L as CaCO3 | <1.0 | | 1.0 | X451053 | 17-Dec-24 | |
| SM 2320 B | Hydroxide | mg/L as CaCO3 | <1.0 | | 1.0 | X451053 | 17-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | <10 | | 10 | X450184 | 16-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | <5.0 | | 5.0 | X450186 | 17-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | <0.20 | 0.02 | 0.20 | X450185 | 13-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | <0.100 | 0.017 | 0.100 | X450185 | 13-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | <0.050 | 0.013 | 0.050 | X450185 | 13-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | <0.100 | 0.044 | 0.100 | X450185 | 13-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | <0.050 | 0.031 | 0.050 | X450185 | 13-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | <0.30 | 0.18 | 0.30 | X450185 | 13-Dec-24 | |

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**Newmont - Cripple Creek & Victor**
Post Office Box 191
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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

## 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 | 19.7 | 20.0 | 98 | 85 - 115 | X451041 | 19-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 20.0 | 20.0 | 99.8 | 85 - 115 | X451041 | 19-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 19.9 | 20.0 | 99.6 | 85 - 115 | X451041 | 19-Dec-24 | |
| **Metals (Dissolved)** | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 0.984 | 1.00 | 98.4 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 0.976 | 1.00 | 97.6 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.983 | 1.00 | 98.3 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 0.979 | 1.00 | 97.9 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 0.964 | 1.00 | 96.4 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 19.2 | 20.0 | 95.9 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | 0.975 | 1.00 | 97.5 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.951 | 1.00 | 95.1 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 0.952 | 1.00 | 95.2 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 9.76 | 10.0 | 97.6 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 0.965 | 1.00 | 96.5 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 0.952 | 1.00 | 95.2 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 18.6 | 20.0 | 93.2 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | 0.973 | 1.00 | 97.3 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 0.982 | 1.00 | 98.2 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 0.942 | 1.00 | 94.2 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 19.6 | 20.0 | 97.9 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0500 | 0.0500 | 99.9 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 18.4 | 19.0 | 96.6 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 0.989 | 1.00 | 98.9 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 0.963 | 1.00 | 96.3 | 85 - 115 | X451016 | 22-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0271 | 0.0250 | 108 | 85 - 115 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | 0.0237 | 0.0250 | 95.0 | 85 - 115 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | 0.0220 | 0.0250 | 87.8 | 85 - 115 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | 0.0249 | 0.0250 | 99.8 | 85 - 115 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | 0.0260 | 0.0250 | 104 | 85 - 115 | X451076 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00197 | 0.00200 | 98.6 | 85 - 115 | X450177 | 17-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0970 | 0.100 | 97.0 | 90 - 110 | X451164 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.101 | 0.100 | 101 | 90 - 110 | X451005 | 17-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 0.974 | 1.00 | 97.4 | 90 - 110 | X451033 | 20-Dec-24 | |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.107 | 0.100 | 107 | 90 - 110 | X451065 | 18-Dec-24 | |
| SM 2310 B | Acidity to pH 8.3 | mg/L as CaCO3 | 720 | 706 | 102 | 95.4 - 104 | X451190 | 21-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 9.90 | 9.93 | 99.7 | 96.4 - 105 | X451053 | 17-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 100 | 99.3 | 101 | 96.4 - 105 | X451053 | 17-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 411 | 397 | 104 | 96.4 - 105 | X451053 | 17-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | 9.0 | 10.0 | 90.0 | 85 - 115 | X450186 | 17-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 2.88 | 3.00 | 95.9 | 90 - 110 | X450185 | 13-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 1.94 | 2.00 | 96.8 | 90 - 110 | X450185 | 13-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.90 | 2.00 | 94.8 | 90 - 110 | X450185 | 13-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.38 | 4.50 | 97.4 | 90 - 110 | X450185 | 13-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 2.49 | 2.50 | 99.4 | 90 - 110 | X450185 | 13-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 10.1 | 10.0 | 101 | 90 - 110 | X450185 | 13-Dec-24 | |

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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

## 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 | X451190 - X4L0191-01 | 21-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 448 | 448 | 0.1 | 20 | X451053 - X4L0155-02 | 17-Dec-24 | |
| SM 2320 B | Bicarbonate | mg/L as CaCO3 | 448 | 448 | 0.1 | 20 | X451053 - X4L0155-02 | 17-Dec-24 | |
| SM 2320 B | Carbonate | mg/L as CaCO3 | <1.0 | <1.0 | UDL | 20 | X451053 - X4L0155-02 | 17-Dec-24 | |
| SM 2320 B | Hydroxide | mg/L as CaCO3 | <1.0 | <1.0 | UDL | 20 | X451053 - X4L0155-02 | 17-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | 144 | 138 | 4.3 | 10 | X450184 - X4L0157-02 | 16-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | 190 | 192 | 1.1 | 10 | X450184 - X4L0212-06 | 16-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | <5.0 | <5.0 | <RL | 10 | X450186 - X4L0157-02 | 17-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | 5.0 | 5.0 | 0.0 | 10 | X450186 - X4L0212-06 | 17-Dec-24 | |
| SM 4500 H B | pH @18.9°C | pH Units | 6.9 | 7.0 | 1.0 | 20 | X451053 - X4L0155-02 | 17-Dec-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 | 27.1 | 8.17 | 20.0 | 95 | 70 - 130 | X451041 - X4L0198-02 | 19-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 48.4 | 29.5 | 20.0 | 94 | 70 - 130 | X451041 - X4L0212-01 | 19-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 20.3 | 0.820 | 20.0 | 97.3 | 70 - 130 | X451041 - X4L0198-02 | 19-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 26.5 | 6.78 | 20.0 | 98.6 | 70 - 130 | X451041 - X4L0212-01 | 19-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 19.6 | <0.50 | 20.0 | 98.1 | 70 - 130 | X451041 - X4L0198-02 | 19-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 20.3 | 1.01 | 20.0 | 96.6 | 70 - 130 | X451041 - X4L0212-01 | 19-Dec-24 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 0.999 | <0.080 | 1.00 | 99.9 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Aluminum | mg/L | 0.989 | <0.080 | 1.00 | 93.0 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 1.16 | 0.196 | 1.00 | 96.9 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 1.14 | 0.177 | 1.00 | 96.8 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.979 | <0.00200 | 1.00 | 97.9 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.969 | <0.00200 | 1.00 | 96.9 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 1.01 | <0.0400 | 1.00 | 99.6 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 0.985 | <0.0400 | 1.00 | 98.5 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 0.964 | <0.0020 | 1.00 | 96.4 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 0.966 | <0.0020 | 1.00 | 96.6 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 48.3 | 29.2 | 20.0 | 95.7 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 60.9 | 41.8 | 20.0 | 95.6 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | 0.978 | <0.0060 | 1.00 | 97.8 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | 0.967 | <0.0060 | 1.00 | 96.7 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.944 | <0.0060 | 1.00 | 94.4 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.941 | <0.0060 | 1.00 | 94.1 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 0.939 | <0.0100 | 1.00 | 93.9 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 0.932 | <0.0100 | 1.00 | 93.2 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 9.77 | <0.100 | 10.0 | 97.7 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 10.8 | 1.19 | 10.0 | 96.0 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 0.964 | <0.0075 | 1.00 | 96.4 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 0.965 | <0.0075 | 1.00 | 96.5 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 0.984 | <0.040 | 1.00 | 98.4 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 0.965 | <0.040 | 1.00 | 96.5 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 25.7 | 6.47 | 20.0 | 96.2 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 38.0 | 18.3 | 20.0 | 98.1 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |

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

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Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

## 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 | 0.974 | 0.0082 | 1.00 | 96.6 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | 1.18 | 0.222 | 1.00 | 95.9 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 0.983 | <0.0080 | 1.00 | 98.3 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 0.985 | <0.0080 | 1.00 | 98.5 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 0.923 | <0.0100 | 1.00 | 92.3 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 0.919 | <0.0100 | 1.00 | 91.9 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 20.3 | 0.83 | 20.0 | 97.4 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 20.3 | 0.99 | 20.0 | 96.6 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0489 | <0.0050 | 0.0500 | 97.7 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0497 | <0.0050 | 0.0500 | 99.3 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 48.9 | 31.0 | 19.0 | 93.9 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 27.7 | 9.86 | 19.0 | 94.1 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 0.996 | <0.0050 | 1.00 | 99.6 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 0.983 | <0.0050 | 1.00 | 98.3 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 0.976 | <0.0100 | 1.00 | 97.6 | 70 - 130 | X451016 - X4L0212-01 | 22-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 0.976 | <0.0100 | 1.00 | 97.6 | 70 - 130 | X451016 - X4L0212-06 | 22-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0255 | <0.00100 | 0.0250 | 102 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0274 | <0.00100 | 0.0250 | 110 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | 0.0326 | 0.00319 | 0.0250 | 118 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | 0.0267 | <0.00100 | 0.0250 | 107 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | 0.0280 | <0.00100 | 0.0250 | 109 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | 0.0283 | <0.00100 | 0.0250 | 111 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | 0.0256 | <0.000200 | 0.0250 | 102 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | 0.0230 | <0.000200 | 0.0250 | 92.1 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | 0.0387 | 0.00798 | 0.0250 | 123 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | 0.0291 | 0.000713 | 0.0250 | 113 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00192 | <0.000200 | 0.00200 | 96.1 | 70 - 130 | X450177 - X4L0160-01 | 17-Dec-24 | |
| EPA 245.1 | Mercury | mg/L | 0.00198 | <0.000200 | 0.00200 | 98.9 | 70 - 130 | X450177 - X4L0165-03 | 17-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0940 | <0.0050 | 0.100 | 94.0 | 79 - 121 | X451164 - X4L0160-02 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.0725 | <0.0050 | 0.100 | 72.5 | 90 - 110 | X451005 - X4L0114-01 | 17-Dec-24 | M2,R2B |
| EPA 335.4 | Cyanide (total) | mg/L | 0.0972 | <0.0050 | 0.100 | 97.2 | 90 - 110 | X451005 - X4L0191-02 | 17-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 1.15 | <0.030 | 1.00 | 115 | 90 - 110 | X451033 - X4L0157-04 | 20-Dec-24 | M1 |
| EPA 350.1 | Ammonia as N | mg/L | 1.66 | 0.941 | 1.00 | 71.8 | 90 - 110 | X451033 - X4L0157-02 | 20-Dec-24 | M4 |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.110 | <0.0050 | 0.100 | 109 | 82 - 118 | X451065 - X4L0191-01 | 18-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 4.03 | 1.14 | 3.00 | 96.3 | 90 - 110 | X450185 - X4L0198-02 | 13-Dec-24 | |
| EPA 300.0 | Chloride | mg/L | 3.94 | 1.03 | 3.00 | 97.3 | 90 - 110 | X450185 - X4L0198-01 | 13-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 1.94 | <0.100 | 2.00 | 96.9 | 90 - 110 | X450185 - X4L0198-02 | 13-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 1.96 | <0.100 | 2.00 | 97.1 | 90 - 110 | X450185 - X4L0198-01 | 13-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 2.04 | 0.144 | 2.00 | 95.1 | 90 - 110 | X450185 - X4L0198-02 | 13-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 2.20 | 0.278 | 2.00 | 96.0 | 90 - 110 | X450185 - X4L0198-01 | 13-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.01 | 0.144 | 4.00 | 96.6 | 90 - 110 | X450185 - X4L0198-02 | 13-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.18 | 0.278 | 4.00 | 97.5 | 90 - 110 | X450185 - X4L0198-01 | 13-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 1.96 | <0.050 | 2.00 | 98.2 | 90 - 110 | X450185 - X4L0198-02 | 13-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 1.98 | <0.050 | 2.00 | 99.0 | 90 - 110 | X450185 - X4L0198-01 | 13-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 12.8 | 2.67 | 10.0 | 101 | 90 - 110 | X450185 - X4L0198-02 | 13-Dec-24 | |

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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

## 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 | 31.8 | 21.7 | 10.0 | 101 | 90 - 110 | X450185 - X4L0198-01 | 13-Dec-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 | 27.8 | 27.1 | 20.0 | 2.0 | 20 | 98 | X451041 - X4L0198-02 | |
| EPA 200.7 | Magnesium | mg/L | 20.7 | 20.3 | 20.0 | 2.1 | 20 | 99.5 | X451041 - X4L0198-02 | |
| EPA 200.7 | Potassium | mg/L | 20.0 | 19.6 | 20.0 | 2.0 | 20 | 100 | X451041 - X4L0198-02 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 1.01 | 0.999 | 1.00 | 0.8 | 20 | 101 | X451016 - X4L0212-01 | |
| EPA 200.7 | Barium | mg/L | 1.16 | 1.16 | 1.00 | 0.0 | 20 | 96.9 | X451016 - X4L0212-01 | |
| EPA 200.7 | Beryllium | mg/L | 0.983 | 0.979 | 1.00 | 0.4 | 20 | 98.3 | X451016 - X4L0212-01 | |
| EPA 200.7 | Boron | mg/L | 1.00 | 1.01 | 1.00 | 0.7 | 20 | 98.9 | X451016 - X4L0212-01 | |
| EPA 200.7 | Cadmium | mg/L | 0.956 | 0.964 | 1.00 | 0.8 | 20 | 95.6 | X451016 - X4L0212-01 | |
| EPA 200.7 | Calcium | mg/L | 48.4 | 48.3 | 20.0 | 0.1 | 20 | 95.9 | X451016 - X4L0212-01 | |
| EPA 200.7 | Chromium | mg/L | 0.974 | 0.978 | 1.00 | 0.4 | 20 | 97.4 | X451016 - X4L0212-01 | |
| EPA 200.7 | Cobalt | mg/L | 0.936 | 0.944 | 1.00 | 0.9 | 20 | 93.6 | X451016 - X4L0212-01 | |
| EPA 200.7 | Copper | mg/L | 0.937 | 0.939 | 1.00 | 0.2 | 20 | 93.7 | X451016 - X4L0212-01 | |
| EPA 200.7 | Iron | mg/L | 9.73 | 9.77 | 10.0 | 0.4 | 20 | 97.3 | X451016 - X4L0212-01 | |
| EPA 200.7 | Lead | mg/L | 0.951 | 0.964 | 1.00 | 1.3 | 20 | 95.1 | X451016 - X4L0212-01 | |
| EPA 200.7 | Lithium | mg/L | 0.989 | 0.984 | 1.00 | 0.6 | 20 | 98.9 | X451016 - X4L0212-01 | |
| EPA 200.7 | Magnesium | mg/L | 25.7 | 25.7 | 20.0 | 0.1 | 20 | 96.4 | X451016 - X4L0212-01 | |
| EPA 200.7 | Manganese | mg/L | 0.975 | 0.974 | 1.00 | 0.1 | 20 | 96.6 | X451016 - X4L0212-01 | |
| EPA 200.7 | Molybdenum | mg/L | 0.976 | 0.983 | 1.00 | 0.7 | 20 | 97.6 | X451016 - X4L0212-01 | |
| EPA 200.7 | Nickel | mg/L | 0.917 | 0.923 | 1.00 | 0.7 | 20 | 91.7 | X451016 - X4L0212-01 | |
| EPA 200.7 | Potassium | mg/L | 20.3 | 20.3 | 20.0 | 0.2 | 20 | 97.6 | X451016 - X4L0212-01 | |
| EPA 200.7 | Silver | mg/L | 0.0495 | 0.0489 | 0.0500 | 1.4 | 20 | 99.1 | X451016 - X4L0212-01 | |
| EPA 200.7 | Sodium | mg/L | 48.9 | 48.9 | 19.0 | 0.0 | 20 | 93.9 | X451016 - X4L0212-01 | |
| EPA 200.7 | Vanadium | mg/L | 0.991 | 0.996 | 1.00 | 0.5 | 20 | 99.1 | X451016 - X4L0212-01 | |
| EPA 200.7 | Zinc | mg/L | 0.970 | 0.976 | 1.00 | 0.7 | 20 | 97.0 | X451016 - X4L0212-01 | |
| EPA 200.8 | Antimony | mg/L | 0.0255 | 0.0255 | 0.0250 | 0.0 | 20 | 102 | X451076 - X4L0172-01 | |
| EPA 200.8 | Arsenic | mg/L | 0.0318 | 0.0326 | 0.0250 | 2.4 | 20 | 115 | X451076 - X4L0172-01 | |
| EPA 200.8 | Selenium | mg/L | 0.0272 | 0.0280 | 0.0250 | 3.1 | 20 | 105 | X451076 - X4L0172-01 | |
| EPA 200.8 | Thallium | mg/L | 0.0250 | 0.0256 | 0.0250 | 2.6 | 20 | 99.6 | X451076 - X4L0172-01 | |
| EPA 200.8 | Uranium | mg/L | 0.0385 | 0.0387 | 0.0250 | 0.6 | 20 | 122 | X451076 - X4L0172-01 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00194 | 0.00192 | 0.00200 | 0.9 | 20 | 97.0 | X450177 - X4L0160-01 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0950 | 0.0940 | 0.100 | 1.1 | 11 | 95.0 | X451164 - X4L0160-02 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.0562 | 0.0725 | 0.100 | 25.3 | 20 | 56.2 | X451005 - X4L0114-01 | M2,R2B |
| EPA 350.1 | Ammonia as N | mg/L | 1.09 | 1.15 | 1.00 | 5.3 | 20 | 109 | X451033 - X4L0157-04 | |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.108 | 0.110 | 0.100 | 1.8 | 11 | 107 | X451065 - X4L0191-01 | |
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 3.95 | 3.94 | 3.00 | 0.0 | 20 | 97.4 | X450185 - X4L0198-01 | |
| EPA 300.0 | Fluoride | mg/L | 1.97 | 1.96 | 2.00 | 0.2 | 20 | 97.3 | X450185 - X4L0198-01 | |
| EPA 300.0 | Nitrate as N | mg/L | 2.21 | 2.20 | 2.00 | 0.7 | 20 | 96.7 | X450185 - X4L0198-01 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.20 | 4.18 | 4.00 | 0.5 | 20 | 98.1 | X450185 - X4L0198-01 | |
| EPA 300.0 | Nitrite as N | mg/L | 1.99 | 1.98 | 2.00 | 0.4 | 20 | 99.4 | X450185 - X4L0198-01 | |

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0212**
Reported: 26-Dec-24 15:48

**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 | 31.9 | 31.8 | 10.0 | 0.3 | 20 | 101 | X450185 - X4L0198-01 | |

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| | |
|---|---|
| **Newmont - Cripple Creek & Victor** | **Project Name: Cripple Creek/Victor Water and Soil 2024** |
| Post Office Box 191 | Work Order: **X4L0212** |
| Victor, CO 80860 | Reported: 26-Dec-24 15:48 |

## Notes and Definitions

| | |
|---|---|
| H1 | Sample analysis performed past holding time. |
| H3 | Sample was received and/or analysis requested past holding time. |
| H5 | This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time. |
| M1 | Matrix spike recovery was high, but the LCS recovery was acceptable. |
| M2 | Matrix spike recovery was low, but the LCS recovery was acceptable. |
| M4 | The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable. |
| R2B | RPD exceeded the laboratory acceptance limit. |
| LCS | Laboratory Control Sample (Blank Spike) |
| RPD | Relative Percent Difference |
| UDL | A result is less than the detection limit |
| 0.30R>S | % recovery not applicable; spike level is less than 30% of the sample concentration |
| <RL | A result is less than the reporting limit |
| MRL | Method Reporting Limit |
| MDL | Method Detection Limit |
| N/A | Not Applicable |

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| | |
|---|---|
| **Newmont - Cripple Creek & Victor** | **Project Name: Cripple Creek/Victor Water and Soil 2024** |
| Post Office Box 191 | Work Order: **X4L0191** |
| Victor, CO 80860 | Reported: 26-Dec-24 15:17 |

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled | Sampled By | Date Received | Notes |
|---|---|---|---|---|---|---|
| GVMW-1076 | X4L0191-01 | Ground Water | 10-Dec-24 10:00 | TR | 12-Dec-2024 | |
| RB-1210 | X4L0191-02 | Ground Water | 10-Dec-24 13:03 | TR | 12-Dec-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: X4L0191

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0191**
Reported: 26-Dec-24 15:17

Client Sample ID: **GVMW-1076**
SVL Sample ID: **X4L0191-01 (Ground Water)**



Sampled: 10-Dec-24 10:00
Received: 12-Dec-24
Sampled By: TR

| 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** | 45.2 | mg/L | 0.100 | 0.069 | | X451042 | SJN | 12/20/24 11:23 | |
| EPA 200.7 | **Magnesium** | 15.5 | mg/L | 0.500 | 0.090 | | X451042 | SJN | 12/20/24 11:23 | |
| EPA 200.7 | **Potassium** | 0.95 | mg/L | 0.50 | 0.18 | | X451042 | SJN | 12/20/24 11:23 | |
| SM 2340 B | **Hardness (as CaCO3)** | 177 | mg/L | 2.31 | 0.543 | | N/A | | 12/22/24 14:16 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | **Barium** | 0.0327 | mg/L | 0.0020 | 0.0019 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | **Calcium** | 46.4 | mg/L | 0.100 | 0.069 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | Iron | < 0.100 | mg/L | 0.100 | 0.056 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | **Magnesium** | 15.1 | mg/L | 0.500 | 0.090 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | **Manganese** | 0.0129 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | **Potassium** | 0.87 | mg/L | 0.50 | 0.18 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | **Sodium** | 13.5 | mg/L | 0.50 | 0.12 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.7 | Zinc | < 0.0100 | mg/L | 0.0100 | 0.0054 | | X451117 | NMS | 12/22/24 14:16 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451076 | JRR | 12/26/24 10:29 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451076 | JRR | 12/26/24 10:29 | |
| EPA 200.8 | Selenium | < 0.00100 | mg/L | 0.00100 | 0.00024 | | X451076 | JRR | 12/26/24 10:29 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451076 | JRR | 12/26/24 10:29 | |
| EPA 200.8 | **Uranium** | 0.000487 | mg/L | 0.000100 | 0.000052 | | X451076 | JRR | 12/26/24 10:29 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X450178 | MAC | 12/17/24 13:40 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 @22.0°C | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451164 | DD | 12/24/24 13:58 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451005 | DD | 12/17/24 11:42 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451137 | DD | 12/20/24 12:50 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:05 | |
| SM 2310 B | **Acidity to pH 8.3** | -56.5 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | **Total Alkalinity** | 53.2 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 17:53 | |
| SM 2320 B | **Bicarbonate** | 53.2 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 17:53 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 17:53 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 17:53 | |
| SM 2540 C | **Total Diss. Solids** | 307 | mg/L | 10 | | | X450184 | TJL | 12/16/24 13:55 | |
| SM 2540 D | Total Susp. Solids | < 5.0 | mg/L | 5.0 | | | X450186 | TJL | 12/17/24 08:15 | |
| SM 4500 H B | **pH @18.7°C** | 6.7 | pH Units | | | | X451053 | MWD | 12/17/24 17:53 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0191**
Reported: 26-Dec-24 15:17

Client Sample ID: **GVMW-1076**
SVL Sample ID: **X4L0191-01 (Ground Water)**



Sampled: 10-Dec-24 10:00
Received: 12-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 22.9 | mg/L | 2.00 | 0.22 | 10 | X450149 | RS | 12/12/24 16:30 | |
| EPA 300.0 | **Fluoride** | 0.375 | mg/L | 0.100 | 0.017 | | X450149 | RS | 12/12/24 16:14 | |
| EPA 300.0 | **Nitrate as N** | 0.744 | mg/L | 0.050 | 0.013 | | X450149 | RS | 12/12/24 16:14 | H3 |
| EPA 300.0 | **Nitrate+Nitrite as N** | 0.744 | mg/L | 0.100 | 0.044 | | X450149 | RS | 12/12/24 16:14 | H3 |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450149 | RS | 12/12/24 16:14 | H3 |
| EPA 300.0 | **Sulfate as SO4** | 127 | mg/L | 3.00 | 1.80 | 10 | X450149 | RS | 12/12/24 16:30 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 4.12 meq/L  Anion Sum: 4.43 meq/L  C/A Balance: -3.56 %  Calculated TDS: 261  TDS/cTDS: 1.18

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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Kellogg, ID 83837-0929
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**Newmont - Cripple Creek & Victor**
Post Office Box 191
Victor, CO 80860

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0191**
Reported: 26-Dec-24 15:17

Client Sample ID: **RB-1210**
SVL Sample ID: **X4L0191-02 (Ground Water)**



Sampled: 10-Dec-24 13:03
Received: 12-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Metals (Total Recoverable--reportable as Total per 40 CFR 136)** | | | | | | | | | | |
| EPA 200.7 | Calcium | < 0.100 | mg/L | 0.100 | 0.069 | | X451042 | SJN | 12/20/24 11:27 | |
| EPA 200.7 | Magnesium | < 0.500 | mg/L | 0.500 | 0.090 | | X451042 | SJN | 12/20/24 11:27 | |
| EPA 200.7 | Potassium | < 0.50 | mg/L | 0.50 | 0.18 | | X451042 | SJN | 12/20/24 11:27 | |
| SM 2340 B | Hardness (as CaCO3) | < 2.31 | mg/L | 2.31 | 0.543 | | N/A | | 12/22/24 14:19 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Barium | < 0.0020 | mg/L | 0.0020 | 0.0019 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Calcium | < 0.100 | mg/L | 0.100 | 0.069 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Iron | < 0.100 | mg/L | 0.100 | 0.056 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Magnesium | < 0.500 | mg/L | 0.500 | 0.090 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | **Manganese** | 0.0144 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Potassium | < 0.50 | mg/L | 0.50 | 0.18 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | **Sodium** | 2.93 | mg/L | 0.50 | 0.12 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.7 | Zinc | < 0.0100 | mg/L | 0.0100 | 0.0054 | | X451117 | NMS | 12/22/24 14:19 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451076 | JRR | 12/26/24 10:52 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451076 | JRR | 12/26/24 10:52 | |
| EPA 200.8 | Selenium | < 0.00100 | mg/L | 0.00100 | 0.00024 | | X451076 | JRR | 12/26/24 10:52 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451076 | JRR | 12/26/24 10:52 | |
| EPA 200.8 | **Uranium** | 0.000182 | mg/L | 0.000100 | 0.000052 | | X451076 | JRR | 12/26/24 10:52 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X450178 | MAC | 12/17/24 13:42 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 @22.0°C | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451164 | DD | 12/24/24 14:00 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451005 | DD | 12/17/24 11:45 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451137 | DD | 12/20/24 12:52 | M1,R2B |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:07 | |
| SM 2310 B | Acidity to pH 8.3 | < 10.0 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | Total Alkalinity | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 17:58 | |
| SM 2320 B | Bicarbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 17:58 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 17:58 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 17:58 | |
| SM 2540 C | Total Diss. Solids | < 10 | mg/L | 10 | | | X450184 | TJL | 12/16/24 13:55 | |
| SM 2540 D | Total Susp. Solids | < 5.0 | mg/L | 5.0 | | | X450186 | TJL | 12/17/24 08:15 | |
| SM 4500 H B | **pH @18.8°C** | 5.3 | pH Units | | | | X451053 | MWD | 12/17/24 17:58 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0191**
Reported: 26-Dec-24 15:17

Client Sample ID: **RB-1210**
SVL Sample ID: **X4L0191-02 (Ground Water)**



Sampled: 10-Dec-24 13:03
Received: 12-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | Chloride | < 0.20 | mg/L | 0.20 | 0.02 | | X450149 | RS | 12/12/24 17:34 | |
| EPA 300.0 | **Fluoride** | 0.178 | mg/L | 0.100 | 0.017 | | X450149 | RS | 12/12/24 17:34 | |
| EPA 300.0 | Nitrate as N | < 0.050 | mg/L | 0.050 | 0.013 | | X450149 | RS | 12/12/24 17:34 | H3 |
| EPA 300.0 | Nitrate+Nitrite as N | < 0.100 | mg/L | 0.100 | 0.044 | | X450149 | RS | 12/12/24 17:34 | H3 |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450149 | RS | 12/12/24 17:34 | H3 |
| EPA 300.0 | **Sulfate as SO4** | 0.36 | mg/L | 0.30 | 0.18 | | X450149 | RS | 12/12/24 17:34 | |
| **Cation/Anion Balance and TDS Ratios** | | | | | | | | | | |

Cation Sum: 0.16 meq/L  Anion Sum: 0.04 meq/L  C/A Balance: 58.63 %  Calculated TDS: 3  TDS/cTDS: 0.00

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0191**
Reported: 26-Dec-24 15:17

## 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 | X451042 | 20-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | <0.500 | 0.090 | 0.500 | X451042 | 20-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | <0.50 | 0.18 | 0.50 | X451042 | 20-Dec-24 | |
| **Metals (Dissolved)** | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | <0.080 | 0.054 | 0.080 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Barium | mg/L | <0.0020 | 0.0019 | 0.0020 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | <0.00200 | 0.00080 | 0.00200 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Boron | mg/L | <0.0400 | 0.0078 | 0.0400 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | <0.0020 | 0.0016 | 0.0020 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | <0.100 | 0.069 | 0.100 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | <0.0060 | 0.0020 | 0.0060 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | <0.0060 | 0.0046 | 0.0060 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Copper | mg/L | <0.0100 | 0.0027 | 0.0100 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Iron | mg/L | <0.100 | 0.056 | 0.100 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Lead | mg/L | <0.0075 | 0.0049 | 0.0075 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | <0.040 | 0.025 | 0.040 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | <0.500 | 0.090 | 0.500 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | <0.0080 | 0.0034 | 0.0080 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | <0.0080 | 0.0034 | 0.0080 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | <0.0100 | 0.0048 | 0.0100 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | <0.50 | 0.18 | 0.50 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Silver | mg/L | <0.0050 | 0.0019 | 0.0050 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | <0.50 | 0.12 | 0.50 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | <0.0050 | 0.0019 | 0.0050 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | <0.0100 | 0.0054 | 0.0100 | X451117 | 22-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | <0.00100 | 0.00072 | 0.00100 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | <0.00100 | 0.00021 | 0.00100 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | <0.00100 | 0.00024 | 0.00100 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | <0.000200 | 0.00008 | 0.000200 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | <0.000100 | 0.000052 | 0.000100 | X451076 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | <0.000200 | 0.000093 | 0.000200 | X450178 | 17-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | <0.0050 | 0.0048 | 0.0050 | X451164 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | <0.0050 | 0.0038 | 0.0050 | X451005 | 17-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | <0.030 | 0.013 | 0.030 | X451137 | 20-Dec-24 | |
| OIA 1677 | Cyanide (WAD) | mg/L | <0.0050 | 0.0010 | 0.0050 | X451065 | 18-Dec-24 | |
| SM 2310 B | Acidity to pH 8.3 | mg/L as CaCO3 | <10.0 | | 10.0 | X451190 | 21-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | <1.0 | | 1.0 | X451053 | 17-Dec-24 | |
| SM 2320 B | Bicarbonate | mg/L as CaCO3 | <1.0 | | 1.0 | X451053 | 17-Dec-24 | |
| SM 2320 B | Carbonate | mg/L as CaCO3 | <1.0 | | 1.0 | X451053 | 17-Dec-24 | |
| SM 2320 B | Hydroxide | mg/L as CaCO3 | <1.0 | | 1.0 | X451053 | 17-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | <10 | | 10 | X450184 | 16-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | <5.0 | | 5.0 | X450186 | 17-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | <0.20 | 0.02 | 0.20 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | <0.100 | 0.017 | 0.100 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | <0.050 | 0.013 | 0.050 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | <0.100 | 0.044 | 0.100 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | <0.050 | 0.031 | 0.050 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | <0.30 | 0.18 | 0.30 | X450149 | 12-Dec-24 | |

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Post Office Box 191
Victor, CO 80860

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0191**
Reported: 26-Dec-24 15:17

## 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 | 19.2 | 20.0 | 96 | 85 - 115 | X451042 | 20-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 19.5 | 20.0 | 97.3 | 85 - 115 | X451042 | 20-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 19.6 | 20.0 | 97.9 | 85 - 115 | X451042 | 20-Dec-24 | |
| **Metals (Dissolved)** | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 0.999 | 1.00 | 99.9 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 0.977 | 1.00 | 97.7 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.964 | 1.00 | 96.4 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 0.970 | 1.00 | 97.0 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 0.961 | 1.00 | 96.1 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 19.1 | 20.0 | 95.4 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | 0.971 | 1.00 | 97.1 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.948 | 1.00 | 94.8 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 0.941 | 1.00 | 94.1 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 9.71 | 10.0 | 97.1 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 0.956 | 1.00 | 95.6 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 0.948 | 1.00 | 94.8 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 18.4 | 20.0 | 92.0 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | 0.963 | 1.00 | 96.3 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 0.973 | 1.00 | 97.3 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 0.934 | 1.00 | 93.4 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 19.5 | 20.0 | 97.3 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0487 | 0.0500 | 97.4 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 18.5 | 19.0 | 97.1 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 0.984 | 1.00 | 98.4 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 0.966 | 1.00 | 96.6 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0271 | 0.0250 | 108 | 85 - 115 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | 0.0237 | 0.0250 | 95.0 | 85 - 115 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | 0.0220 | 0.0250 | 87.8 | 85 - 115 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | 0.0249 | 0.0250 | 99.8 | 85 - 115 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | 0.0260 | 0.0250 | 104 | 85 - 115 | X451076 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00192 | 0.00200 | 96.1 | 85 - 115 | X450178 | 17-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0970 | 0.100 | 97.0 | 90 - 110 | X451164 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.101 | 0.100 | 101 | 90 - 110 | X451005 | 17-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 0.964 | 1.00 | 96.4 | 90 - 110 | X451137 | 20-Dec-24 | |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.107 | 0.100 | 107 | 90 - 110 | X451065 | 18-Dec-24 | |
| SM 2310 B | Acidity to pH 8.3 | mg/L as CaCO3 | 720 | 706 | 102 | 95.4 - 104 | X451190 | 21-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 9.90 | 9.93 | 99.7 | 96.4 - 105 | X451053 | 17-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 100 | 99.3 | 101 | 96.4 - 105 | X451053 | 17-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 411 | 397 | 104 | 96.4 - 105 | X451053 | 17-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | 9.0 | 10.0 | 90.0 | 85 - 115 | X450186 | 17-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 2.90 | 3.00 | 96.8 | 90 - 110 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 1.96 | 2.00 | 97.9 | 90 - 110 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.92 | 2.00 | 96.2 | 90 - 110 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.43 | 4.50 | 98.4 | 90 - 110 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 2.50 | 2.50 | 100 | 90 - 110 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 10.2 | 10.0 | 102 | 90 - 110 | X450149 | 12-Dec-24 | |

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**Newmont - Cripple Creek & Victor**
Post Office Box 191
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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0191**
Reported: 26-Dec-24 15:17

## 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 | X451190 - X4L0191-01 | 21-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 448 | 448 | 0.1 | 20 | X451053 - X4L0155-02 | 17-Dec-24 | |
| SM 2320 B | Bicarbonate | mg/L as CaCO3 | 448 | 448 | 0.1 | 20 | X451053 - X4L0155-02 | 17-Dec-24 | |
| SM 2320 B | Carbonate | mg/L as CaCO3 | <1.0 | <1.0 | UDL | 20 | X451053 - X4L0155-02 | 17-Dec-24 | |
| SM 2320 B | Hydroxide | mg/L as CaCO3 | <1.0 | <1.0 | UDL | 20 | X451053 - X4L0155-02 | 17-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | 144 | 138 | 4.3 | 10 | X450184 - X4L0157-02 | 16-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | 190 | 192 | 1.1 | 10 | X450184 - X4L0212-06 | 16-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | <5.0 | <5.0 | <RL | 10 | X450186 - X4L0157-02 | 17-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | 5.0 | 5.0 | 0.0 | 10 | X450186 - X4L0212-06 | 17-Dec-24 | |
| SM 4500 H B | pH @18.9°C | pH Units | 6.9 | 7.0 | 1.0 | 20 | X451053 - X4L0155-02 | 17-Dec-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 | 64.7 | 45.2 | 20.0 | 98 | 70 - 130 | X451042 - X4L0191-01 | 20-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 37.6 | 19.0 | 20.0 | 93 | 70 - 130 | X451042 - X4L0217-03 | 20-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 35.3 | 15.5 | 20.0 | 99.2 | 70 - 130 | X451042 - X4L0191-01 | 20-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 36.7 | 17.3 | 20.0 | 96.9 | 70 - 130 | X451042 - X4L0217-03 | 20-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 20.5 | 0.95 | 20.0 | 97.9 | 70 - 130 | X451042 - X4L0191-01 | 20-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 21.2 | 1.99 | 20.0 | 96.0 | 70 - 130 | X451042 - X4L0217-03 | 20-Dec-24 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 1.04 | <0.080 | 1.00 | 97.4 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Aluminum | mg/L | 1.09 | <0.080 | 1.00 | 109 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 1.00 | 0.0327 | 1.00 | 96.9 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 0.986 | 0.0155 | 1.00 | 97.1 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.948 | <0.00200 | 1.00 | 94.8 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.963 | <0.00200 | 1.00 | 96.3 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 0.980 | <0.0400 | 1.00 | 98.0 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 1.04 | <0.0400 | 1.00 | 101 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 0.953 | <0.0020 | 1.00 | 95.3 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 0.974 | <0.0020 | 1.00 | 97.4 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 64.7 | 46.4 | 20.0 | 91.6 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 452 | 429 | 20.0 | 113 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | 0.966 | <0.0060 | 1.00 | 96.6 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | 0.984 | <0.0060 | 1.00 | 98.2 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.928 | <0.0060 | 1.00 | 92.8 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.976 | <0.0060 | 1.00 | 97.6 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 0.925 | <0.0100 | 1.00 | 92.2 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 1.02 | 0.0104 | 1.00 | 101 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 9.71 | <0.100 | 10.0 | 97.1 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 9.68 | <0.100 | 10.0 | 96.8 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 0.953 | <0.0075 | 1.00 | 95.3 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 0.991 | <0.0075 | 1.00 | 99.1 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 0.963 | <0.040 | 1.00 | 96.3 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 1.07 | <0.040 | 1.00 | 107 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 34.0 | 15.1 | 20.0 | 94.5 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 204 | 180 | 20.0 | 122 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0191**
Reported: 26-Dec-24 15:17

## 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 | 0.961 | 0.0129 | 1.00 | 94.9 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | 2.00 | 1.02 | 1.00 | 98.4 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 0.968 | <0.0080 | 1.00 | 96.8 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 1.06 | 0.0209 | 1.00 | 103 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 0.902 | <0.0100 | 1.00 | 90.2 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 0.956 | <0.0100 | 1.00 | 95.6 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 20.4 | 0.87 | 20.0 | 97.7 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 22.4 | 2.72 | 20.0 | 98.3 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0485 | <0.0050 | 0.0500 | 97.0 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0585 | <0.0050 | 0.0500 | 107 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 31.5 | 13.5 | 19.0 | 94.6 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 60.0 | 41.4 | 19.0 | 98.2 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 0.980 | <0.0050 | 1.00 | 98.0 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 1.02 | <0.0050 | 1.00 | 102 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 0.973 | <0.0100 | 1.00 | 96.7 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 1.15 | 0.120 | 1.00 | 103 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0255 | <0.00100 | 0.0250 | 102 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0274 | <0.00100 | 0.0250 | 110 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | 0.0326 | 0.00319 | 0.0250 | 118 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | 0.0267 | <0.00100 | 0.0250 | 107 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | 0.0280 | <0.00100 | 0.0250 | 109 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | 0.0283 | <0.00100 | 0.0250 | 111 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | 0.0256 | <0.000200 | 0.0250 | 102 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | 0.0230 | <0.000200 | 0.0250 | 92.1 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | 0.0387 | 0.00798 | 0.0250 | 123 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | 0.0291 | 0.000713 | 0.0250 | 113 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00197 | <0.000200 | 0.00200 | 98.6 | 70 - 130 | X450178 - X4L0203-01 | 17-Dec-24 | |
| EPA 245.1 | Mercury | mg/L | 0.00196 | <0.000200 | 0.00200 | 97.9 | 70 - 130 | X450178 - X4L0210-02 | 17-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0940 | <0.0050 | 0.100 | 94.0 | 79 - 121 | X451164 - X4L0160-02 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.0725 | <0.0050 | 0.100 | 72.5 | 90 - 110 | X451005 - X4L0114-01 | 17-Dec-24 | M2,R2B |
| EPA 335.4 | Cyanide (total) | mg/L | 0.0972 | <0.0050 | 0.100 | 97.2 | 90 - 110 | X451005 - X4L0191-02 | 17-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 1.05 | <0.030 | 1.00 | 105 | 90 - 110 | X451137 - X4L0191-01 | 20-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 1.37 | <0.030 | 1.00 | 137 | 90 - 110 | X451137 - X4L0191-02 | 20-Dec-24 | M1,R2B |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.110 | <0.0050 | 0.100 | 109 | 82 - 118 | X451065 - X4L0191-01 | 18-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 3.35 | 0.45 | 3.00 | 96.6 | 90 - 110 | X450149 - X4L0190-01 | 12-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 1.98 | <0.100 | 2.00 | 97.0 | 90 - 110 | X450149 - X4L0190-01 | 12-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 2.04 | 0.119 | 2.00 | 95.9 | 90 - 110 | X450149 - X4L0190-01 | 12-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.02 | 0.119 | 4.00 | 97.6 | 90 - 110 | X450149 - X4L0190-01 | 12-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 1.99 | <0.050 | 2.00 | 99.3 | 90 - 110 | X450149 - X4L0190-01 | 12-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 13.0 | 3.07 | 10.0 | 99.7 | 90 - 110 | X450149 - X4L0190-01 | 12-Dec-24 | R2B |

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Post Office Box 191
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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0191**
Reported: 26-Dec-24 15:17

## 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 | 63.5 | 64.7 | 20.0 | 2.0 | 20 | 91 | X451042 - X4L0191-01 | |
| EPA 200.7 | Magnesium | mg/L | 34.6 | 35.3 | 20.0 | 2.1 | 20 | 95.5 | X451042 - X4L0191-01 | |
| EPA 200.7 | Potassium | mg/L | 20.2 | 20.5 | 20.0 | 1.7 | 20 | 96.2 | X451042 - X4L0191-01 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 1.06 | 1.04 | 1.00 | 1.1 | 20 | 98.6 | X451117 - X4L0191-01 | |
| EPA 200.7 | Barium | mg/L | 1.01 | 1.00 | 1.00 | 0.8 | 20 | 97.7 | X451117 - X4L0191-01 | |
| EPA 200.7 | Beryllium | mg/L | 0.953 | 0.948 | 1.00 | 0.6 | 20 | 95.3 | X451117 - X4L0191-01 | |
| EPA 200.7 | Boron | mg/L | 0.981 | 0.980 | 1.00 | 0.1 | 20 | 98.1 | X451117 - X4L0191-01 | |
| EPA 200.7 | Cadmium | mg/L | 0.955 | 0.953 | 1.00 | 0.3 | 20 | 95.5 | X451117 - X4L0191-01 | |
| EPA 200.7 | Calcium | mg/L | 64.9 | 64.7 | 20.0 | 0.3 | 20 | 92.5 | X451117 - X4L0191-01 | |
| EPA 200.7 | Chromium | mg/L | 0.972 | 0.966 | 1.00 | 0.6 | 20 | 97.2 | X451117 - X4L0191-01 | |
| EPA 200.7 | Cobalt | mg/L | 0.927 | 0.928 | 1.00 | 0.1 | 20 | 92.7 | X451117 - X4L0191-01 | |
| EPA 200.7 | Copper | mg/L | 0.930 | 0.925 | 1.00 | 0.5 | 20 | 92.7 | X451117 - X4L0191-01 | |
| EPA 200.7 | Iron | mg/L | 9.79 | 9.71 | 10.0 | 0.7 | 20 | 97.9 | X451117 - X4L0191-01 | |
| EPA 200.7 | Lead | mg/L | 0.950 | 0.953 | 1.00 | 0.3 | 20 | 95.0 | X451117 - X4L0191-01 | |
| EPA 200.7 | Lithium | mg/L | 0.975 | 0.963 | 1.00 | 1.3 | 20 | 97.5 | X451117 - X4L0191-01 | |
| EPA 200.7 | Magnesium | mg/L | 34.3 | 34.0 | 20.0 | 0.9 | 20 | 96.0 | X451117 - X4L0191-01 | |
| EPA 200.7 | Manganese | mg/L | 0.977 | 0.961 | 1.00 | 1.6 | 20 | 96.4 | X451117 - X4L0191-01 | |
| EPA 200.7 | Molybdenum | mg/L | 0.969 | 0.968 | 1.00 | 0.1 | 20 | 96.9 | X451117 - X4L0191-01 | |
| EPA 200.7 | Nickel | mg/L | 0.902 | 0.902 | 1.00 | 0.1 | 20 | 90.2 | X451117 - X4L0191-01 | |
| EPA 200.7 | Potassium | mg/L | 20.4 | 20.4 | 20.0 | 0.1 | 20 | 97.8 | X451117 - X4L0191-01 | |
| EPA 200.7 | Silver | mg/L | 0.0490 | 0.0485 | 0.0500 | 1.1 | 20 | 98.1 | X451117 - X4L0191-01 | |
| EPA 200.7 | Sodium | mg/L | 31.6 | 31.5 | 19.0 | 0.5 | 20 | 95.3 | X451117 - X4L0191-01 | |
| EPA 200.7 | Vanadium | mg/L | 0.986 | 0.980 | 1.00 | 0.6 | 20 | 98.6 | X451117 - X4L0191-01 | |
| EPA 200.7 | Zinc | mg/L | 0.976 | 0.973 | 1.00 | 0.3 | 20 | 96.9 | X451117 - X4L0191-01 | |
| EPA 200.8 | Antimony | mg/L | 0.0255 | 0.0255 | 0.0250 | 0.0 | 20 | 102 | X451076 - X4L0172-01 | |
| EPA 200.8 | Arsenic | mg/L | 0.0318 | 0.0326 | 0.0250 | 2.4 | 20 | 115 | X451076 - X4L0172-01 | |
| EPA 200.8 | Selenium | mg/L | 0.0272 | 0.0280 | 0.0250 | 3.1 | 20 | 105 | X451076 - X4L0172-01 | |
| EPA 200.8 | Thallium | mg/L | 0.0250 | 0.0256 | 0.0250 | 2.6 | 20 | 99.6 | X451076 - X4L0172-01 | |
| EPA 200.8 | Uranium | mg/L | 0.0385 | 0.0387 | 0.0250 | 0.6 | 20 | 122 | X451076 - X4L0172-01 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00197 | 0.00197 | 0.00200 | 0.2 | 20 | 98.7 | X450178 - X4L0203-01 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0950 | 0.0940 | 0.100 | 1.1 | 11 | 95.0 | X451164 - X4L0160-02 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.0562 | 0.0725 | 0.100 | 25.3 | 20 | 56.2 | X451005 - X4L0114-01 | M2,R2B |
| EPA 350.1 | Ammonia as N | mg/L | 1.05 | 1.37 | 1.00 | 26.1 | 20 | 105 | X451137 - X4L0191-02 | R2B |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.108 | 0.110 | 0.100 | 1.8 | 11 | 107 | X451065 - X4L0191-01 | |
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 3.07 | 3.35 | 3.00 | 8.8 | 20 | 87.2 | X450149 - X4L0190-01 | M2 |
| EPA 300.0 | Fluoride | mg/L | 2.15 | 1.98 | 2.00 | 7.9 | 20 | 105 | X450149 - X4L0190-01 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.95 | 2.04 | 2.00 | 4.6 | 20 | 91.3 | X450149 - X4L0190-01 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 3.96 | 4.02 | 4.00 | 1.6 | 20 | 96.0 | X450149 - X4L0190-01 | |
| EPA 300.0 | Nitrite as N | mg/L | 2.01 | 1.99 | 2.00 | 1.4 | 20 | 101 | X450149 - X4L0190-01 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 10.5 | 13.0 | 10.0 | 22.0 | 20 | 73.9 | X450149 - X4L0190-01 | M2,R2B |

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| | |
|---|---|
| **Newmont - Cripple Creek & Victor** | **Project Name: Cripple Creek/Victor Water and Soil 2024** |
| Post Office Box 191 | Work Order: **X4L0191** |
| Victor, CO 80860 | Reported: 26-Dec-24 15:17 |

## Notes and Definitions

| | |
|---|---|
| H3 | Sample was received and/or analysis requested past holding time. |
| H5 | This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time. |
| M1 | Matrix spike recovery was high, but the LCS recovery was acceptable. |
| M2 | Matrix spike recovery was low, but the LCS recovery was acceptable. |
| 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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| | |
|---|---|
| **Newmont - Cripple Creek & Victor** | **Project Name: Cripple Creek/Victor Water and Soil 2024** |
| Post Office Box 191 | Work Order: **X4L0195** |
| Victor, CO 80860 | Reported: 26-Dec-24 15:28 |

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Sampled By | Date Received | Notes |
|---|---|---|---|---|---|---|
| GVMW-7B | X4L0195-01 | Ground Water | 10-Dec-24 10:00 | TR | 12-Dec-2024 | |
| GVMW-8B | X4L0195-02 | Ground Water | 10-Dec-24 11:20 | TR | 12-Dec-2024 | |
| GVMW-8A | X4L0195-03 | Ground Water | 10-Dec-24 12:30 | TR | 12-Dec-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: X4L0195

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0195**
Reported: 26-Dec-24 15:28

Client Sample ID: **GVMW-7B**
SVL Sample ID: **X4L0195-01 (Ground Water)**



Sampled: 10-Dec-24 10:00
Received: 12-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Metals (Total Recoverable--reportable as Total per 40 CFR 136)** | | | | | | | | | | |
| EPA 200.7 | **Calcium** | 44.4 | mg/L | 0.100 | 0.069 | | X451042 | SJN | 12/20/24 11:30 | |
| EPA 200.7 | **Magnesium** | 15.1 | mg/L | 0.500 | 0.090 | | X451042 | SJN | 12/20/24 11:30 | |
| EPA 200.7 | **Potassium** | 0.89 | mg/L | 0.50 | 0.18 | | X451042 | SJN | 12/20/24 11:30 | |
| SM 2340 B | **Hardness (as CaCO3)** | 173 | mg/L | 2.31 | 0.543 | | N/A | | 12/17/24 12:14 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | **Barium** | 0.0315 | mg/L | 0.0020 | 0.0019 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | **Calcium** | 46.8 | mg/L | 0.100 | 0.069 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | Iron | < 0.100 | mg/L | 0.100 | 0.056 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | **Magnesium** | 15.2 | mg/L | 0.500 | 0.090 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | **Manganese** | 0.0088 | mg/L | 0.0080 | 0.0034 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | **Potassium** | 0.84 | mg/L | 0.50 | 0.18 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | **Sodium** | 13.7 | mg/L | 0.50 | 0.12 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.7 | Zinc | < 0.0100 | mg/L | 0.0100 | 0.0054 | | X451014 | NMS | 12/17/24 12:14 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451076 | JRR | 12/26/24 10:55 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451076 | JRR | 12/26/24 10:55 | |
| EPA 200.8 | Selenium | < 0.00100 | mg/L | 0.00100 | 0.00024 | | X451076 | JRR | 12/26/24 10:55 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451076 | JRR | 12/26/24 10:55 | |
| EPA 200.8 | **Uranium** | 0.000344 | mg/L | 0.000100 | 0.000052 | | X451076 | JRR | 12/26/24 10:55 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X450178 | MAC | 12/17/24 13:44 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 @22.0°C | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451164 | DD | 12/24/24 14:02 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451005 | DD | 12/17/24 11:48 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451034 | DD | 12/20/24 18:40 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:08 | |
| SM 2310 B | **Acidity to pH 8.3** | -56.5 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | **Total Alkalinity** | 51.2 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:03 | |
| SM 2320 B | **Bicarbonate** | 51.2 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:03 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:03 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:03 | |
| SM 2540 C | **Total Diss. Solids** | 280 | mg/L | 10 | | | X450184 | TJL | 12/16/24 13:55 | |
| SM 2540 D | Total Susp. Solids | < 5.0 | mg/L | 5.0 | | | X450186 | TJL | 12/17/24 08:15 | |
| SM 4500 H B | **pH @18.9°C** | 6.7 | pH Units | | | | X451053 | MWD | 12/17/24 18:03 | H5 |

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

One Government Gulch - PO Box 929
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**Newmont - Cripple Creek & Victor**
Post Office Box 191
Victor, CO 80860

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0195**
Reported: 26-Dec-24 15:28

Client Sample ID: **GVMW-7B**
SVL Sample ID: **X4L0195-01 (Ground Water)**



Sampled: 10-Dec-24 10:00
Received: 12-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 22.7 | mg/L | 2.00 | 0.22 | 10 | X450149 | RS | 12/12/24 18:37 | |
| EPA 300.0 | **Fluoride** | 0.360 | mg/L | 0.100 | 0.017 | | X450149 | RS | 12/12/24 18:21 | |
| EPA 300.0 | **Nitrate as N** | 0.742 | mg/L | 0.050 | 0.013 | | X450149 | RS | 12/12/24 18:21 | H3 |
| EPA 300.0 | **Nitrate+Nitrite as N** | 0.742 | mg/L | 0.100 | 0.044 | | X450149 | RS | 12/12/24 18:21 | H3 |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450149 | RS | 12/12/24 18:21 | H3 |
| EPA 300.0 | **Sulfate as SO4** | 124 | mg/L | 3.00 | 1.80 | 10 | X450149 | RS | 12/12/24 18:37 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 4.09 meq/L  Anion Sum: 4.32 meq/L  C/A Balance: -2.71 %  Calculated TDS: 256  TDS/cTDS: 1.09

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0195**
Reported: 26-Dec-24 15:28

Client Sample ID: **GVMW-8B**
SVL Sample ID: **X4L0195-02 (Ground Water)**



Sampled: 10-Dec-24 11:20
Received: 12-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Metals (Total Recoverable--reportable as Total per 40 CFR 136)** | | | | | | | | | | |
| EPA 200.7 | **Calcium** | 44.1 | mg/L | 0.100 | 0.069 | | X451042 | SJN | 12/20/24 11:34 | |
| EPA 200.7 | **Magnesium** | 6.99 | mg/L | 0.500 | 0.090 | | X451042 | SJN | 12/20/24 11:34 | |
| EPA 200.7 | **Potassium** | 1.46 | mg/L | 0.50 | 0.18 | | X451042 | SJN | 12/20/24 11:34 | |
| SM 2340 B | **Hardness (as CaCO3)** | 138 | mg/L | 2.31 | 0.543 | | N/A | | 12/20/24 11:34 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | **Barium** | 0.0082 | mg/L | 0.0020 | 0.0019 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | **Calcium** | 44.3 | mg/L | 0.100 | 0.069 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | **Copper** | 0.0127 | mg/L | 0.0100 | 0.0027 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | Iron | < 0.100 | mg/L | 0.100 | 0.056 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | **Magnesium** | 6.74 | mg/L | 0.500 | 0.090 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | Manganese | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | **Potassium** | 1.32 | mg/L | 0.50 | 0.18 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | **Sodium** | 25.4 | mg/L | 0.50 | 0.12 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.7 | Zinc | < 0.0100 | mg/L | 0.0100 | 0.0054 | | X451014 | NMS | 12/17/24 12:18 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451076 | JRR | 12/26/24 10:59 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451076 | JRR | 12/26/24 10:59 | |
| EPA 200.8 | Selenium | < 0.00100 | mg/L | 0.00100 | 0.00024 | | X451076 | JRR | 12/26/24 10:59 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451076 | JRR | 12/26/24 10:59 | |
| EPA 200.8 | **Uranium** | 0.00262 | mg/L | 0.000100 | 0.000052 | | X451076 | JRR | 12/26/24 10:59 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X450178 | MAC | 12/17/24 13:46 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 @22.0°C | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451164 | DD | 12/24/24 14:10 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451005 | DD | 12/17/24 11:50 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451034 | DD | 12/20/24 18:42 | M1,R2B |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:10 | |
| SM 2310 B | **Acidity to pH 8.3** | -41.6 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | **Total Alkalinity** | 36.7 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:17 | |
| SM 2320 B | **Bicarbonate** | 36.7 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:17 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:17 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:17 | |
| SM 2540 C | **Total Diss. Solids** | 280 | mg/L | 10 | | | X450184 | TJL | 12/16/24 13:55 | |
| SM 2540 D | Total Susp. Solids | < 5.0 | mg/L | 5.0 | | | X450186 | TJL | 12/17/24 08:15 | |
| SM 4500 H B | **pH @18.9°C** | 6.9 | pH Units | | | | X451053 | MWD | 12/17/24 18:17 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0195**
Reported: 26-Dec-24 15:28

Client Sample ID: **GVMW-8B**
SVL Sample ID: **X4L0195-02 (Ground Water)**



Sampled: 10-Dec-24 11:20
Received: 12-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 38.2 | mg/L | 2.00 | 0.22 | 10 | X450149 | RS | 12/12/24 19:09 | |
| EPA 300.0 | **Fluoride** | 2.19 | mg/L | 0.100 | 0.017 | | X450149 | RS | 12/12/24 18:53 | |
| EPA 300.0 | **Nitrate as N** | 2.16 | mg/L | 0.050 | 0.013 | | X450149 | RS | 12/12/24 18:53 | H3 |
| EPA 300.0 | **Nitrate+Nitrite as N** | 2.16 | mg/L | 0.100 | 0.044 | | X450149 | RS | 12/12/24 18:53 | H3 |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450149 | RS | 12/12/24 18:53 | H3 |
| EPA 300.0 | **Sulfate as SO4** | 90.6 | mg/L | 3.00 | 1.80 | 10 | X450149 | RS | 12/12/24 19:09 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 3.91 meq/L  Anion Sum: 3.97 meq/L  C/A Balance: -0.76 %  Calculated TDS: 240  TDS/cTDS: 1.16

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0195**
Reported: 26-Dec-24 15:28

Client Sample ID: **GVMW-8A**
SVL Sample ID: **X4L0195-03 (Ground Water)**



Sampled: 10-Dec-24 12:30
Received: 12-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Metals (Total Recoverable--reportable as Total per 40 CFR 136)** | | | | | | | | | | |
| EPA 200.7 | **Calcium** | 49.0 | mg/L | 0.100 | 0.069 | | X451042 | SJN | 12/20/24 11:38 | |
| EPA 200.7 | **Magnesium** | 6.32 | mg/L | 0.500 | 0.090 | | X451042 | SJN | 12/20/24 11:38 | |
| EPA 200.7 | **Potassium** | 0.82 | mg/L | 0.50 | 0.18 | | X451042 | SJN | 12/20/24 11:38 | |
| SM 2340 B | **Hardness (as CaCO3)** | 147 | mg/L | 2.31 | 0.543 | | N/A | | 12/20/24 11:38 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Barium | < 0.0020 | mg/L | 0.0020 | 0.0019 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | **Calcium** | 49.4 | mg/L | 0.100 | 0.069 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Iron | < 0.100 | mg/L | 0.100 | 0.056 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | **Magnesium** | 6.04 | mg/L | 0.500 | 0.090 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Manganese | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | **Potassium** | 0.69 | mg/L | 0.50 | 0.18 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | **Sodium** | 24.3 | mg/L | 0.50 | 0.12 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.7 | Zinc | < 0.0100 | mg/L | 0.0100 | 0.0054 | | X451014 | NMS | 12/17/24 12:22 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451076 | JRR | 12/26/24 11:02 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451076 | JRR | 12/26/24 11:02 | |
| EPA 200.8 | Selenium | < 0.00100 | mg/L | 0.00100 | 0.00024 | | X451076 | JRR | 12/26/24 11:02 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451076 | JRR | 12/26/24 11:02 | |
| EPA 200.8 | **Uranium** | 0.00492 | mg/L | 0.000100 | 0.000052 | | X451076 | JRR | 12/26/24 11:02 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X450178 | MAC | 12/17/24 13:48 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 @22.0°C | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451164 | DD | 12/24/24 14:12 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451005 | DD | 12/17/24 12:05 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451034 | DD | 12/20/24 18:45 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:11 | |
| SM 2310 B | **Acidity to pH 8.3** | -41.6 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | **Total Alkalinity** | 48.7 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:22 | |
| SM 2320 B | **Bicarbonate** | 48.7 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:22 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:22 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451053 | MWD | 12/17/24 18:22 | |
| SM 2540 C | **Total Diss. Solids** | 278 | mg/L | 10 | | | X450184 | TJL | 12/16/24 13:55 | |
| SM 2540 D | Total Susp. Solids | < 5.0 | mg/L | 5.0 | | | X450186 | TJL | 12/17/24 08:15 | |
| SM 4500 H B | **pH @18.8°C** | 7.0 | pH Units | | | | X451053 | MWD | 12/17/24 18:22 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0195**
Reported: 26-Dec-24 15:28

Client Sample ID: **GVMW-8A**
SVL Sample ID: **X4L0195-03 (Ground Water)**



Sampled: 10-Dec-24 12:30
Received: 12-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 59.9 | mg/L | 2.00 | 0.22 | 10 | X450149 | RS | 12/12/24 19:41 | |
| EPA 300.0 | **Fluoride** | 1.90 | mg/L | 0.100 | 0.017 | | X450149 | RS | 12/12/24 19:25 | |
| EPA 300.0 | **Nitrate as N** | 1.11 | mg/L | 0.050 | 0.013 | | X450149 | RS | 12/12/24 19:25 | H3 |
| EPA 300.0 | **Nitrate+Nitrite as N** | 1.11 | mg/L | 0.100 | 0.044 | | X450149 | RS | 12/12/24 19:25 | H3 |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450149 | RS | 12/12/24 19:25 | H3 |
| EPA 300.0 | **Sulfate as SO4** | 61.8 | mg/L | 3.00 | 1.80 | 10 | X450149 | RS | 12/12/24 19:41 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 4.03 meq/L  Anion Sum: 4.13 meq/L  C/A Balance: -1.21 %  Calculated TDS: 238  TDS/cTDS: 1.17

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0195**
Reported: 26-Dec-24 15:28

## 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 | X451042 | 20-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | <0.500 | 0.090 | 0.500 | X451042 | 20-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | <0.50 | 0.18 | 0.50 | X451042 | 20-Dec-24 | |
| **Metals (Dissolved)** | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | <0.080 | 0.054 | 0.080 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Aluminum | mg/L | <0.080 | 0.054 | 0.080 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Barium | mg/L | <0.0020 | 0.0019 | 0.0020 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Barium | mg/L | <0.0020 | 0.0019 | 0.0020 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | <0.00200 | 0.00080 | 0.00200 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | <0.00200 | 0.00080 | 0.00200 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Boron | mg/L | <0.0400 | 0.0078 | 0.0400 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Boron | mg/L | <0.0400 | 0.0078 | 0.0400 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | <0.0020 | 0.0016 | 0.0020 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | <0.0020 | 0.0016 | 0.0020 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | <0.100 | 0.069 | 0.100 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | <0.100 | 0.069 | 0.100 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | <0.0060 | 0.0020 | 0.0060 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | <0.0060 | 0.0020 | 0.0060 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | <0.0060 | 0.0046 | 0.0060 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | <0.0060 | 0.0046 | 0.0060 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Copper | mg/L | <0.0100 | 0.0027 | 0.0100 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Copper | mg/L | <0.0100 | 0.0027 | 0.0100 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Iron | mg/L | <0.100 | 0.056 | 0.100 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Iron | mg/L | <0.100 | 0.056 | 0.100 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Lead | mg/L | <0.0075 | 0.0049 | 0.0075 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Lead | mg/L | <0.0075 | 0.0049 | 0.0075 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | <0.040 | 0.025 | 0.040 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | <0.040 | 0.025 | 0.040 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | <0.500 | 0.090 | 0.500 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | <0.500 | 0.090 | 0.500 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | <0.0080 | 0.0034 | 0.0080 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | <0.0080 | 0.0034 | 0.0080 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | <0.0080 | 0.0034 | 0.0080 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | <0.0080 | 0.0034 | 0.0080 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | <0.0100 | 0.0048 | 0.0100 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | <0.0100 | 0.0048 | 0.0100 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | <0.50 | 0.18 | 0.50 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | <0.50 | 0.18 | 0.50 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Silver | mg/L | <0.0050 | 0.0019 | 0.0050 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Silver | mg/L | <0.0050 | 0.0019 | 0.0050 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | <0.50 | 0.12 | 0.50 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | <0.50 | 0.12 | 0.50 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | <0.0050 | 0.0019 | 0.0050 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | <0.0050 | 0.0019 | 0.0050 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | <0.0100 | 0.0054 | 0.0100 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | <0.0100 | 0.0054 | 0.0100 | X451014 | 17-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | <0.00100 | 0.00072 | 0.00100 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | <0.00100 | 0.00021 | 0.00100 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | <0.00100 | 0.00024 | 0.00100 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | <0.000200 | 0.00008 | 0.000200 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | <0.000100 | 0.000052 | 0.000100 | X451076 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | <0.000200 | 0.000093 | 0.000200 | X450178 | 17-Dec-24 | |

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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0195**
Reported: 26-Dec-24 15:28

## Quality Control - BLANK Data (Continued)

| Method | Analyte | Units | Result | MDL | MRL | Batch ID | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|
| **Classical Chemistry Parameters** | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | <0.0050 | 0.0048 | 0.0050 | X451164 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | <0.0050 | 0.0038 | 0.0050 | X451005 | 17-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | <0.030 | 0.013 | 0.030 | X451034 | 20-Dec-24 | |
| OIA 1677 | Cyanide (WAD) | mg/L | <0.0050 | 0.0010 | 0.0050 | X451065 | 18-Dec-24 | |
| SM 2310 B | Acidity to pH 8.3 | mg/L as CaCO3 | <10.0 | | 10.0 | X451190 | 21-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | <1.0 | | 1.0 | X451053 | 17-Dec-24 | |
| SM 2320 B | Bicarbonate | mg/L as CaCO3 | <1.0 | | 1.0 | X451053 | 17-Dec-24 | |
| SM 2320 B | Carbonate | mg/L as CaCO3 | <1.0 | | 1.0 | X451053 | 17-Dec-24 | |
| SM 2320 B | Hydroxide | mg/L as CaCO3 | <1.0 | | 1.0 | X451053 | 17-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | <10 | | 10 | X450184 | 16-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | <5.0 | | 5.0 | X450186 | 17-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | <0.20 | 0.02 | 0.20 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | <0.100 | 0.017 | 0.100 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | <0.050 | 0.013 | 0.050 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | <0.100 | 0.044 | 0.100 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | <0.050 | 0.031 | 0.050 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | <0.30 | 0.18 | 0.30 | X450149 | 12-Dec-24 | |

## 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 | 19.2 | 20.0 | 96 | 85 - 115 | X451042 | 20-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 19.5 | 20.0 | 97.3 | 85 - 115 | X451042 | 20-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 19.6 | 20.0 | 97.9 | 85 - 115 | X451042 | 20-Dec-24 | |
| **Metals (Dissolved)** | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 0.965 | 1.00 | 96.5 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 1.02 | 1.00 | 102 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.967 | 1.00 | 96.7 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 0.971 | 1.00 | 97.1 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 1.02 | 1.00 | 102 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 19.3 | 20.0 | 96.6 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | 0.995 | 1.00 | 99.5 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.983 | 1.00 | 98.3 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 0.941 | 1.00 | 94.1 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 9.75 | 10.0 | 97.5 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 1.00 | 1.00 | 100 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 0.929 | 1.00 | 92.9 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 18.6 | 20.0 | 93.1 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | 1.00 | 1.00 | 100 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 1.01 | 1.00 | 101 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 1.00 | 1.00 | 100 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 19.8 | 20.0 | 98.9 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0505 | 0.0500 | 101 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 18.6 | 19.0 | 98.1 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 0.994 | 1.00 | 99.4 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 0.981 | 1.00 | 98.1 | 85 - 115 | X451014 | 17-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0271 | 0.0250 | 108 | 85 - 115 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | 0.0237 | 0.0250 | 95.0 | 85 - 115 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | 0.0220 | 0.0250 | 87.8 | 85 - 115 | X451076 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | 0.0249 | 0.0250 | 99.8 | 85 - 115 | X451076 | 26-Dec-24 | |

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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0195**
Reported: 26-Dec-24 15:28

## Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

| Method | Analyte | Units | LCS Result | LCS True | % Rec. | Acceptance Limits | Batch ID | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **Metals (Dissolved) (Continued)** | | | | | | | | | |
| EPA 200.8 | Uranium | mg/L | 0.0260 | 0.0250 | 104 | 85 - 115 | X451076 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00192 | 0.00200 | 96.1 | 85 - 115 | X450178 | 17-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0970 | 0.100 | 97.0 | 90 - 110 | X451164 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.101 | 0.100 | 101 | 90 - 110 | X451005 | 17-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 0.980 | 1.00 | 98.0 | 90 - 110 | X451034 | 20-Dec-24 | |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.107 | 0.100 | 107 | 90 - 110 | X451065 | 18-Dec-24 | |
| SM 2310 B | Acidity to pH 8.3 | mg/L as CaCO3 | 720 | 706 | 102 | 95.4 - 104 | X451190 | 21-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 9.90 | 9.93 | 99.7 | 96.4 - 105 | X451053 | 17-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 100 | 99.3 | 101 | 96.4 - 105 | X451053 | 17-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 411 | 397 | 104 | 96.4 - 105 | X451053 | 17-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | 9.0 | 10.0 | 90.0 | 85 - 115 | X450186 | 17-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 2.90 | 3.00 | 96.8 | 90 - 110 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 1.96 | 2.00 | 97.9 | 90 - 110 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.92 | 2.00 | 96.2 | 90 - 110 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.43 | 4.50 | 98.4 | 90 - 110 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 2.50 | 2.50 | 100 | 90 - 110 | X450149 | 12-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 10.2 | 10.0 | 102 | 90 - 110 | X450149 | 12-Dec-24 | |

## 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 | X451190 - X4L0191-01 | 21-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 448 | 448 | 0.1 | 20 | X451053 - X4L0155-02 | 17-Dec-24 | |
| SM 2320 B | Bicarbonate | mg/L as CaCO3 | 448 | 448 | 0.1 | 20 | X451053 - X4L0155-02 | 17-Dec-24 | |
| SM 2320 B | Carbonate | mg/L as CaCO3 | <1.0 | <1.0 | UDL | 20 | X451053 - X4L0155-02 | 17-Dec-24 | |
| SM 2320 B | Hydroxide | mg/L as CaCO3 | <1.0 | <1.0 | UDL | 20 | X451053 - X4L0155-02 | 17-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | 144 | 138 | 4.3 | 10 | X450184 - X4L0157-02 | 16-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | 190 | 192 | 1.1 | 10 | X450184 - X4L0212-06 | 16-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | <5.0 | <5.0 | <RL | 10 | X450186 - X4L0157-02 | 17-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | 5.0 | 5.0 | 0.0 | 10 | X450186 - X4L0212-06 | 17-Dec-24 | |
| SM 4500 H B | pH @18.9°C | pH Units | 6.9 | 7.0 | 1.0 | 20 | X451053 - X4L0155-02 | 17-Dec-24 | |

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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0195**
Reported: 26-Dec-24 15:28

## 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 | 64.7 | 45.2 | 20.0 | 98 | 70 - 130 | X451042 - X4L0191-01 | 20-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 37.6 | 19.0 | 20.0 | 93 | 70 - 130 | X451042 - X4L0217-03 | 20-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 35.3 | 15.5 | 20.0 | 99.2 | 70 - 130 | X451042 - X4L0191-01 | 20-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 36.7 | 17.3 | 20.0 | 96.9 | 70 - 130 | X451042 - X4L0217-03 | 20-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 20.5 | 0.95 | 20.0 | 97.9 | 70 - 130 | X451042 - X4L0191-01 | 20-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 21.2 | 1.99 | 20.0 | 96.0 | 70 - 130 | X451042 - X4L0217-03 | 20-Dec-24 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 0.986 | <0.080 | 1.00 | 98.6 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 1.05 | 0.0339 | 1.00 | 101 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.985 | <0.00200 | 1.00 | 98.5 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 1.02 | <0.0400 | 1.00 | 99.1 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 1.01 | <0.0020 | 1.00 | 101 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 60.9 | 42.4 | 20.0 | 92.3 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | 1.00 | <0.0060 | 1.00 | 100 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.978 | <0.0060 | 1.00 | 97.8 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 0.957 | <0.0100 | 1.00 | 95.7 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 9.61 | <0.100 | 10.0 | 96.1 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 0.992 | <0.0075 | 1.00 | 99.2 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 0.984 | <0.040 | 1.00 | 98.4 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 28.2 | 9.43 | 20.0 | 93.7 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | 1.02 | 0.0159 | 1.00 | 101 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 1.02 | <0.0080 | 1.00 | 102 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 0.978 | <0.0100 | 1.00 | 97.8 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 21.7 | 2.37 | 20.0 | 96.7 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0503 | <0.0050 | 0.0500 | 101 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 48.5 | 30.9 | 19.0 | 92.9 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 1.01 | <0.0050 | 1.00 | 101 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 0.987 | <0.0100 | 1.00 | 98.7 | 70 - 130 | X451014 - X4L0103-01 | 17-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0255 | <0.00100 | 0.0250 | 102 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0274 | <0.00100 | 0.0250 | 110 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | 0.0326 | 0.00319 | 0.0250 | 118 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | 0.0267 | <0.00100 | 0.0250 | 107 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | 0.0280 | <0.00100 | 0.0250 | 109 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | 0.0283 | <0.00100 | 0.0250 | 111 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | 0.0256 | <0.000200 | 0.0250 | 102 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | 0.0230 | <0.000200 | 0.0250 | 92.1 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | 0.0387 | 0.00798 | 0.0250 | 123 | 70 - 130 | X451076 - X4L0172-01 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | 0.0291 | 0.000713 | 0.0250 | 113 | 70 - 130 | X451076 - X4L0212-04 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00197 | <0.000200 | 0.00200 | 98.6 | 70 - 130 | X450178 - X4L0203-01 | 17-Dec-24 | |
| EPA 245.1 | Mercury | mg/L | 0.00196 | <0.000200 | 0.00200 | 97.9 | 70 - 130 | X450178 - X4L0210-02 | 17-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0940 | <0.0050 | 0.100 | 94.0 | 79 - 121 | X451164 - X4L0160-02 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.0725 | <0.0050 | 0.100 | 72.5 | 90 - 110 | X451005 - X4L0114-01 | 17-Dec-24 | M2,R2B |
| EPA 335.4 | Cyanide (total) | mg/L | 0.0972 | <0.0050 | 0.100 | 97.2 | 90 - 110 | X451005 - X4L0191-02 | 17-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 1.05 | <0.030 | 1.00 | 105 | 90 - 110 | X451034 - X4L0195-02 | 20-Dec-24 | R2B |
| EPA 350.1 | Ammonia as N | mg/L | 0.945 | <0.030 | 1.00 | 94.5 | 90 - 110 | X451034 - X4L0195-01 | 20-Dec-24 | |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.110 | <0.0050 | 0.100 | 109 | 82 - 118 | X451065 - X4L0191-01 | 18-Dec-24 | |

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**Newmont - Cripple Creek & Victor**
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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0195**
Reported: 26-Dec-24 15:28

## 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** | | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 3.35 | 0.45 | 3.00 | 96.6 | 90 - 110 | X450149 - X4L0190-01 | 12-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 1.98 | <0.100 | 2.00 | 97.0 | 90 - 110 | X450149 - X4L0190-01 | 12-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 2.04 | 0.119 | 2.00 | 95.9 | 90 - 110 | X450149 - X4L0190-01 | 12-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.02 | 0.119 | 4.00 | 97.6 | 90 - 110 | X450149 - X4L0190-01 | 12-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 1.99 | <0.050 | 2.00 | 99.3 | 90 - 110 | X450149 - X4L0190-01 | 12-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 13.0 | 3.07 | 10.0 | 99.7 | 90 - 110 | X450149 - X4L0190-01 | 12-Dec-24 | R2B |

## 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 | 63.5 | 64.7 | 20.0 | 2.0 | 20 | 91 | X451042 - X4L0191-01 | |
| EPA 200.7 | Magnesium | mg/L | 34.6 | 35.3 | 20.0 | 2.1 | 20 | 95.5 | X451042 - X4L0191-01 | |
| EPA 200.7 | Potassium | mg/L | 20.2 | 20.5 | 20.0 | 1.7 | 20 | 96.2 | X451042 - X4L0191-01 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 1.00 | 0.986 | 1.00 | 1.7 | 20 | 100 | X451014 - X4L0103-01 | |
| EPA 200.7 | Barium | mg/L | 1.07 | 1.05 | 1.00 | 1.9 | 20 | 104 | X451014 - X4L0103-01 | |
| EPA 200.7 | Beryllium | mg/L | 0.986 | 0.985 | 1.00 | 0.0 | 20 | 98.6 | X451014 - X4L0103-01 | |
| EPA 200.7 | Boron | mg/L | 1.03 | 1.02 | 1.00 | 0.8 | 20 | 99.9 | X451014 - X4L0103-01 | |
| EPA 200.7 | Cadmium | mg/L | 1.03 | 1.01 | 1.00 | 1.8 | 20 | 103 | X451014 - X4L0103-01 | |
| EPA 200.7 | Calcium | mg/L | 61.6 | 60.9 | 20.0 | 1.2 | 20 | 95.8 | X451014 - X4L0103-01 | |
| EPA 200.7 | Chromium | mg/L | 1.01 | 1.00 | 1.00 | 1.1 | 20 | 101 | X451014 - X4L0103-01 | |
| EPA 200.7 | Cobalt | mg/L | 0.994 | 0.978 | 1.00 | 1.6 | 20 | 99.4 | X451014 - X4L0103-01 | |
| EPA 200.7 | Copper | mg/L | 0.968 | 0.957 | 1.00 | 1.2 | 20 | 96.8 | X451014 - X4L0103-01 | |
| EPA 200.7 | Iron | mg/L | 9.89 | 9.61 | 10.0 | 2.9 | 20 | 98.9 | X451014 - X4L0103-01 | |
| EPA 200.7 | Lead | mg/L | 1.01 | 0.992 | 1.00 | 2.0 | 20 | 101 | X451014 - X4L0103-01 | |
| EPA 200.7 | Lithium | mg/L | 0.999 | 0.984 | 1.00 | 1.5 | 20 | 99.9 | X451014 - X4L0103-01 | |
| EPA 200.7 | Magnesium | mg/L | 28.6 | 28.2 | 20.0 | 1.7 | 20 | 96.0 | X451014 - X4L0103-01 | |
| EPA 200.7 | Manganese | mg/L | 1.03 | 1.02 | 1.00 | 1.1 | 20 | 102 | X451014 - X4L0103-01 | |
| EPA 200.7 | Molybdenum | mg/L | 1.04 | 1.02 | 1.00 | 2.1 | 20 | 104 | X451014 - X4L0103-01 | |
| EPA 200.7 | Nickel | mg/L | 0.995 | 0.978 | 1.00 | 1.7 | 20 | 99.5 | X451014 - X4L0103-01 | |
| EPA 200.7 | Potassium | mg/L | 22.3 | 21.7 | 20.0 | 2.8 | 20 | 99.8 | X451014 - X4L0103-01 | |
| EPA 200.7 | Silver | mg/L | 0.0521 | 0.0503 | 0.0500 | 3.7 | 20 | 104 | X451014 - X4L0103-01 | |
| EPA 200.7 | Sodium | mg/L | 49.3 | 48.5 | 19.0 | 1.5 | 20 | 96.9 | X451014 - X4L0103-01 | |
| EPA 200.7 | Vanadium | mg/L | 1.02 | 1.01 | 1.00 | 1.0 | 20 | 102 | X451014 - X4L0103-01 | |
| EPA 200.7 | Zinc | mg/L | 1.00 | 0.987 | 1.00 | 1.6 | 20 | 100 | X451014 - X4L0103-01 | |
| EPA 200.8 | Antimony | mg/L | 0.0255 | 0.0255 | 0.0250 | 0.0 | 20 | 102 | X451076 - X4L0172-01 | |
| EPA 200.8 | Arsenic | mg/L | 0.0318 | 0.0326 | 0.0250 | 2.4 | 20 | 115 | X451076 - X4L0172-01 | |
| EPA 200.8 | Selenium | mg/L | 0.0272 | 0.0280 | 0.0250 | 3.1 | 20 | 105 | X451076 - X4L0172-01 | |
| EPA 200.8 | Thallium | mg/L | 0.0250 | 0.0256 | 0.0250 | 2.6 | 20 | 99.6 | X451076 - X4L0172-01 | |
| EPA 200.8 | Uranium | mg/L | 0.0385 | 0.0387 | 0.0250 | 0.6 | 20 | 122 | X451076 - X4L0172-01 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00197 | 0.00197 | 0.00200 | 0.2 | 20 | 98.7 | X450178 - X4L0203-01 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0950 | 0.0940 | 0.100 | 1.1 | 11 | 95.0 | X451164 - X4L0160-02 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.0562 | 0.0725 | 0.100 | 25.3 | 20 | 56.2 | X451005 - X4L0114-01 | M2,R2B |
| EPA 350.1 | Ammonia as N | mg/L | 1.36 | 1.05 | 1.00 | 25.6 | 20 | 136 | X451034 - X4L0195-02 | M1,R2B |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.108 | 0.110 | 0.100 | 1.8 | 11 | 107 | X451065 - X4L0191-01 | |

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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0195**
Reported: 26-Dec-24 15:28

## 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** | | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 3.07 | 3.35 | 3.00 | 8.8 | 20 | 87.2 | X450149 - X4L0190-01 | M2 |
| EPA 300.0 | Fluoride | mg/L | 2.15 | 1.98 | 2.00 | 7.9 | 20 | 105 | X450149 - X4L0190-01 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.95 | 2.04 | 2.00 | 4.6 | 20 | 91.3 | X450149 - X4L0190-01 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 3.96 | 4.02 | 4.00 | 1.6 | 20 | 96.0 | X450149 - X4L0190-01 | |
| EPA 300.0 | Nitrite as N | mg/L | 2.01 | 1.99 | 2.00 | 1.4 | 20 | 101 | X450149 - X4L0190-01 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 10.5 | 13.0 | 10.0 | 22.0 | 20 | 73.9 | X450149 - X4L0190-01 | M2,R2B |

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| | |
|---|---|
| **Newmont - Cripple Creek & Victor** | **Project Name: Cripple Creek/Victor Water and Soil 2024** |
| Post Office Box 191 | Work Order: **X4L0195** |
| Victor, CO 80860 | Reported: 26-Dec-24 15:28 |

## Notes and Definitions

| | |
|---|---|
| H3 | Sample was received and/or analysis requested past holding time. |
| H5 | This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time. |
| M1 | Matrix spike recovery was high, but the LCS recovery was acceptable. |
| M2 | Matrix spike recovery was low, but the LCS recovery was acceptable. |
| 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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| | |
|---|---|
| **Newmont - Cripple Creek & Victor** | **Project Name: Cripple Creek/Victor Water and Soil 2024** |
| Post Office Box 191 | Work Order: **X4L0217** |
| Victor, CO 80860 | Reported: 30-Dec-24 15:47 |

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID | Laboratory ID | Matrix | Date Sampled | Sampled By | Date Received | Notes |
|---|---|---|---|---|---|---|
| GVMW-37A | X4L0217-01 | Ground Water | 12-Dec-24 08:24 | TR | 13-Dec-2024 | |
| GVMW-37B | X4L0217-02 | Ground Water | 12-Dec-24 08:30 | TR | 13-Dec-2024 | |
| GVMW-15A | X4L0217-03 | Ground Water | 12-Dec-24 10:50 | TR | 13-Dec-2024 | |
| GVMW-15B | X4L0217-04 | Ground Water | 12-Dec-24 10:50 | TR | 13-Dec-2024 | |
| GVMW-4A | X4L0217-05 | Ground Water | 12-Dec-24 09:50 | TR | 13-Dec-2024 | |
| GVMW-10 | X4L0217-06 | Ground Water | 12-Dec-24 12:20 | TR | 13-Dec-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: X4L0217

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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Post Office Box 191
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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

Client Sample ID: **GVMW-37A**
SVL Sample ID: **X4L0217-01 (Ground Water)**



Sampled: 12-Dec-24 08:24
Received: 13-Dec-24
Sampled By: TR

| 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** | 61.0 | mg/L | 0.100 | 0.069 | | X451042 | SJN | 12/20/24 13:15 | |
| EPA 200.7 | **Magnesium** | 14.2 | mg/L | 0.500 | 0.090 | | X451042 | SJN | 12/20/24 13:15 | |
| EPA 200.7 | **Potassium** | 3.76 | mg/L | 0.50 | 0.18 | | X451042 | SJN | 12/20/24 13:15 | |
| SM 2340 B | **Hardness (as CaCO3)** | 211 | mg/L | 2.31 | 0.543 | | N/A | | 12/22/24 15:14 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | **Barium** | 0.0897 | mg/L | 0.0020 | 0.0019 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | **Calcium** | 61.0 | mg/L | 0.100 | 0.069 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | Iron | < 0.100 | mg/L | 0.100 | 0.056 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | **Magnesium** | 13.5 | mg/L | 0.500 | 0.090 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | **Manganese** | 0.115 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | **Molybdenum** | 0.0208 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | **Potassium** | 3.72 | mg/L | 0.50 | 0.18 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | **Sodium** | 36.8 | mg/L | 0.50 | 0.12 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.7 | Zinc | < 0.0100 | mg/L | 0.0100 | 0.0054 | | X451117 | NMS | 12/22/24 15:14 | |
| EPA 200.8 | **Antimony** | 0.00214 | mg/L | 0.00100 | 0.00072 | | X451078 | SMU | 12/26/24 15:36 | M1 |
| EPA 200.8 | **Arsenic** | 0.00177 | mg/L | 0.00100 | 0.00021 | | X451078 | SMU | 12/26/24 15:36 | M1 |
| EPA 200.8 | Selenium | < 0.00100 | mg/L | 0.00100 | 0.00024 | | X451078 | SMU | 12/26/24 15:36 | M1 |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451078 | SMU | 12/26/24 15:36 | |
| EPA 200.8 | **Uranium** | 0.00434 | mg/L | 0.000100 | 0.000052 | | X451078 | SMU | 12/26/24 15:36 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X452043 | MAC | 12/30/24 13:06 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451165 | DD | 12/24/24 17:39 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451006 | DD | 12/17/24 13:05 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451033 | DD | 12/20/24 18:05 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:26 | |
| SM 2310 B | **Acidity to pH 8.3** | -71.4 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | **Total Alkalinity** | 76.1 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:08 | |
| SM 2320 B | **Bicarbonate** | 74.1 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:08 | |
| SM 2320 B | **Carbonate** | 2.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:08 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:08 | |
| SM 2540 C | **Total Diss. Solids** | 491 | mg/L | 10 | | | X451038 | TJL | 12/18/24 13:30 | |
| SM 2540 D | **Total Susp. Solids** | 6.0 | mg/L | 5.0 | | | X451039 | TJL | 12/18/24 14:40 | |
| SM 4500 H B | **pH @19.3°C** | 8.4 | pH Units | | | | X451184 | MWD | 12/20/24 21:08 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

Client Sample ID: **GVMW-37A**
SVL Sample ID: **X4L0217-01 (Ground Water)**



Sampled: 12-Dec-24 08:24
Received: 13-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 4.07 | mg/L | 0.20 | 0.02 | | X450202 | RS | 12/13/24 23:04 | |
| EPA 300.0 | **Fluoride** | 1.31 | mg/L | 0.100 | 0.017 | | X450202 | RS | 12/13/24 23:04 | |
| EPA 300.0 | Nitrate as N | < 0.050 | mg/L | 0.050 | 0.013 | | X450202 | RS | 12/13/24 23:04 | |
| EPA 300.0 | Nitrate+Nitrite as N | < 0.100 | mg/L | 0.100 | 0.044 | | X450202 | RS | 12/13/24 23:04 | |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450202 | RS | 12/13/24 23:04 | |
| EPA 300.0 | **Sulfate as SO4** | 225 | mg/L | 3.00 | 1.80 | 10 | X450202 | RS | 12/13/24 23:20 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 5.87 meq/L  Anion Sum: 6.39 meq/L  C/A Balance: -4.26 %  Calculated TDS: 391  TDS/cTDS: 1.25

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

Client Sample ID: **GVMW-37B**
SVL Sample ID: **X4L0217-02 (Ground Water)**



Sampled: 12-Dec-24 08:30
Received: 13-Dec-24
Sampled By: TR

| 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** | 52.1 | mg/L | 0.100 | 0.069 | | X451042 | SJN | 12/20/24 13:19 | |
| EPA 200.7 | **Magnesium** | 8.61 | mg/L | 0.500 | 0.090 | | X451042 | SJN | 12/20/24 13:19 | |
| EPA 200.7 | **Potassium** | 1.50 | mg/L | 0.50 | 0.18 | | X451042 | SJN | 12/20/24 13:19 | |
| SM 2340 B | **Hardness (as CaCO3)** | 166 | mg/L | 2.31 | 0.543 | | N/A | | 12/22/24 15:25 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | **Barium** | 0.0807 | mg/L | 0.0020 | 0.0019 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | **Calcium** | 49.7 | mg/L | 0.100 | 0.069 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | Iron | < 0.100 | mg/L | 0.100 | 0.056 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | **Magnesium** | 7.93 | mg/L | 0.500 | 0.090 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | **Manganese** | 0.0830 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | **Potassium** | 1.21 | mg/L | 0.50 | 0.18 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | **Sodium** | 28.9 | mg/L | 0.50 | 0.12 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.7 | Zinc | < 0.0100 | mg/L | 0.0100 | 0.0054 | | X451117 | NMS | 12/22/24 15:25 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451078 | SMU | 12/26/24 15:46 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451078 | SMU | 12/26/24 15:46 | |
| EPA 200.8 | **Selenium** | 0.00129 | mg/L | 0.00100 | 0.00024 | | X451078 | SMU | 12/26/24 15:46 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451078 | SMU | 12/26/24 15:46 | |
| EPA 200.8 | **Uranium** | 0.00269 | mg/L | 0.000100 | 0.000052 | | X451078 | SMU | 12/26/24 15:46 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X452043 | MAC | 12/30/24 13:08 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451165 | DD | 12/24/24 17:41 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451006 | DD | 12/17/24 13:19 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451033 | DD | 12/20/24 18:08 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:28 | |
| SM 2310 B | **Acidity to pH 8.3** | -116 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | **Total Alkalinity** | 112 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:14 | |
| SM 2320 B | **Bicarbonate** | 112 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:14 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:14 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:14 | |
| SM 2540 C | **Total Diss. Solids** | 331 | mg/L | 10 | | | X451038 | TJL | 12/18/24 13:30 | |
| SM 2540 D | **Total Susp. Solids** | 5.0 | mg/L | 5.0 | | | X451039 | TJL | 12/18/24 14:40 | |
| SM 4500 H B | **pH @19.3°C** | 7.8 | pH Units | | | | X451184 | MWD | 12/20/24 21:14 | H5,R2B |

**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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

Client Sample ID: **GVMW-37B**
SVL Sample ID: **X4L0217-02 (Ground Water)**



Sampled: 12-Dec-24 08:30
Received: 13-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 3.91 | mg/L | 0.20 | 0.02 | | X450202 | RS | 12/13/24 23:36 | |
| EPA 300.0 | **Fluoride** | 1.88 | mg/L | 0.100 | 0.017 | | X450202 | RS | 12/13/24 23:36 | |
| EPA 300.0 | **Nitrate as N** | 1.05 | mg/L | 0.050 | 0.013 | | X450202 | RS | 12/13/24 23:36 | |
| EPA 300.0 | **Nitrate+Nitrite as N** | 1.08 | mg/L | 0.100 | 0.044 | | X450202 | RS | 12/13/24 23:36 | |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450202 | RS | 12/13/24 23:36 | |
| EPA 300.0 | **Sulfate as SO4** | 114 | mg/L | 3.00 | 1.80 | 10 | X450202 | RS | 12/13/24 23:52 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 4.44 meq/L  Anion Sum: 4.90 meq/L  C/A Balance: -4.93 %  Calculated TDS: 281  TDS/cTDS: 1.18

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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Kellogg, ID 83837-0929
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**Newmont - Cripple Creek & Victor**
Post Office Box 191
Victor, CO 80860

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

Client Sample ID: **GVMW-15A**
SVL Sample ID: **X4L0217-03 (Ground Water)**



Sampled: 12-Dec-24 10:50
Received: 13-Dec-24
Sampled By: TR

| 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** | 19.0 | mg/L | 0.100 | 0.069 | | X451042 | SJN | 12/20/24 13:23 | |
| EPA 200.7 | **Magnesium** | 17.3 | mg/L | 0.500 | 0.090 | | X451042 | SJN | 12/20/24 13:23 | |
| EPA 200.7 | **Potassium** | 1.99 | mg/L | 0.50 | 0.18 | | X451042 | SJN | 12/20/24 13:23 | |
| SM 2340 B | **Hardness (as CaCO3)** | 115 | mg/L | 2.31 | 0.543 | | N/A | | 12/20/24 13:23 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | **Barium** | 0.0516 | mg/L | 0.0020 | 0.0019 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | **Calcium** | 19.0 | mg/L | 0.100 | 0.069 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | **Cobalt** | 0.0286 | mg/L | 0.0060 | 0.0046 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | **Iron** | 29.5 | mg/L | 0.100 | 0.056 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | **Magnesium** | 16.4 | mg/L | 0.500 | 0.090 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | **Manganese** | 1.84 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | **Nickel** | 0.0338 | mg/L | 0.0100 | 0.0048 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | **Potassium** | 1.77 | mg/L | 0.50 | 0.18 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | **Sodium** | 14.2 | mg/L | 0.50 | 0.12 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.7 | **Zinc** | 0.300 | mg/L | 0.0100 | 0.0054 | | X451117 | NMS | 12/22/24 15:29 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451078 | SMU | 12/26/24 15:49 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451078 | SMU | 12/26/24 15:49 | |
| EPA 200.8 | Selenium | < 0.00100 | mg/L | 0.00100 | 0.00024 | | X451078 | SMU | 12/26/24 15:49 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451078 | SMU | 12/26/24 15:49 | |
| EPA 200.8 | Uranium | < 0.000100 | mg/L | 0.000100 | 0.000052 | | X451078 | SMU | 12/26/24 15:49 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X452043 | MAC | 12/30/24 13:10 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451165 | DD | 12/24/24 17:43 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451006 | DD | 12/17/24 13:21 | |
| EPA 350.1 | **Ammonia as N** | 0.090 | mg/L | 0.030 | 0.013 | | X451033 | DD | 12/20/24 18:10 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:29 | |
| SM 2310 B | **Acidity to pH 8.3** | 33.1 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | Total Alkalinity | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:20 | |
| SM 2320 B | Bicarbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:20 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:20 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:20 | |
| SM 2540 C | **Total Diss. Solids** | 292 | mg/L | 10 | | | X451038 | TJL | 12/18/24 13:30 | |
| SM 2540 D | **Total Susp. Solids** | 36.0 | mg/L | 5.0 | | | X451039 | TJL | 12/18/24 14:40 | |
| SM 4500 H B | **pH @19.2°C** | 4.3 | pH Units | | | | X451184 | MWD | 12/20/24 21:20 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

Client Sample ID: **GVMW-15A**
SVL Sample ID: **X4L0217-03 (Ground Water)**



Sampled: 12-Dec-24 10:50
Received: 13-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 1.66 | mg/L | 0.20 | 0.02 | | X450202 | RS | 12/14/24 00:08 | |
| EPA 300.0 | **Fluoride** | 0.343 | mg/L | 0.100 | 0.017 | | X450202 | RS | 12/14/24 00:08 | |
| EPA 300.0 | Nitrate as N | < 0.050 | mg/L | 0.050 | 0.013 | | X450202 | RS | 12/14/24 00:08 | |
| EPA 300.0 | Nitrate+Nitrite as N | < 0.100 | mg/L | 0.100 | 0.044 | | X450202 | RS | 12/14/24 00:08 | |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450202 | RS | 12/14/24 00:08 | |
| EPA 300.0 | **Sulfate as SO4** | 183 | mg/L | 3.00 | 1.80 | 10 | X450202 | RS | 12/14/24 00:24 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 4.11 meq/L  Anion Sum: 3.90 meq/L  C/A Balance: 2.65 %  Calculated TDS: 237  TDS/cTDS: 1.23

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

Client Sample ID: **GVMW-15B**
SVL Sample ID: **X4L0217-04 (Ground Water)**



Sampled: 12-Dec-24 10:50
Received: 13-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Metals (Total Recoverable--reportable as Total per 40 CFR 136)** | | | | | | | | | | |
| EPA 200.7 | **Calcium** | 37.9 | mg/L | 0.100 | 0.069 | | X451042 | SJN | 12/20/24 13:26 | |
| EPA 200.7 | **Magnesium** | 22.5 | mg/L | 0.500 | 0.090 | | X451042 | SJN | 12/20/24 13:26 | |
| EPA 200.7 | **Potassium** | 2.23 | mg/L | 0.50 | 0.18 | | X451042 | SJN | 12/20/24 13:26 | |
| SM 2340 B | **Hardness (as CaCO3)** | 176 | mg/L | 2.31 | 0.543 | | N/A | | 12/20/24 13:26 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | **Aluminum** | 2.27 | mg/L | 0.080 | 0.054 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | **Barium** | 0.0147 | mg/L | 0.0020 | 0.0019 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | **Beryllium** | 0.0277 | mg/L | 0.00200 | 0.00080 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | **Cadmium** | 0.0048 | mg/L | 0.0020 | 0.0016 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | **Calcium** | 36.8 | mg/L | 0.100 | 0.069 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | **Cobalt** | 0.0635 | mg/L | 0.0060 | 0.0046 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | **Copper** | 0.0122 | mg/L | 0.0100 | 0.0027 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | **Iron** | 20.0 | mg/L | 0.100 | 0.056 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | **Lead** | 0.0518 | mg/L | 0.0075 | 0.0049 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | **Magnesium** | 19.9 | mg/L | 0.500 | 0.090 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | **Manganese** | 1.65 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | **Nickel** | 0.0740 | mg/L | 0.0100 | 0.0048 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | **Potassium** | 2.02 | mg/L | 0.50 | 0.18 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | **Sodium** | 12.8 | mg/L | 0.50 | 0.12 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.7 | **Zinc** | 1.35 | mg/L | 0.0100 | 0.0054 | | X451117 | NMS | 12/22/24 15:32 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451078 | SMU | 12/26/24 15:52 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451078 | SMU | 12/26/24 15:52 | |
| EPA 200.8 | Selenium | < 0.00100 | mg/L | 0.00100 | 0.00024 | | X451078 | SMU | 12/26/24 15:52 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451078 | SMU | 12/26/24 15:52 | |
| EPA 200.8 | **Uranium** | 0.00882 | mg/L | 0.000100 | 0.000052 | | X451078 | SMU | 12/26/24 15:52 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X452043 | MAC | 12/30/24 13:12 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451165 | DD | 12/24/24 17:51 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451006 | DD | 12/17/24 13:23 | |
| EPA 350.1 | **Ammonia as N** | 0.064 | mg/L | 0.030 | 0.013 | | X451033 | DD | 12/20/24 18:12 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:31 | |
| SM 2310 B | **Acidity to pH 8.3** | 44.8 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | Total Alkalinity | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:24 | |
| SM 2320 B | Bicarbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:24 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:24 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:24 | |
| SM 2540 C | **Total Diss. Solids** | 404 | mg/L | 10 | | | X451038 | TJL | 12/18/24 13:30 | |
| SM 2540 D | Total Susp. Solids | < 5.0 | mg/L | 5.0 | | | X451039 | TJL | 12/18/24 14:40 | |
| SM 4500 H B | **pH @19.2°C** | 3.6 | pH Units | | | | X451184 | MWD | 12/20/24 21:24 | H5 |

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

One Government Gulch - PO Box 929
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**Newmont - Cripple Creek & Victor**
Post Office Box 191
Victor, CO 80860

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

Client Sample ID: **GVMW-15B**
SVL Sample ID: **X4L0217-04 (Ground Water)**



Sampled: 12-Dec-24 10:50
Received: 13-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 1.40 | mg/L | 0.20 | 0.02 | | X450202 | RS | 12/14/24 00:40 | |
| EPA 300.0 | **Fluoride** | 0.411 | mg/L | 0.100 | 0.017 | | X450202 | RS | 12/14/24 00:40 | |
| EPA 300.0 | Nitrate as N | < 0.050 | mg/L | 0.050 | 0.013 | | X450202 | RS | 12/14/24 00:40 | |
| EPA 300.0 | Nitrate+Nitrite as N | < 0.100 | mg/L | 0.100 | 0.044 | | X450202 | RS | 12/14/24 00:40 | |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450202 | RS | 12/14/24 00:40 | |
| EPA 300.0 | **Sulfate as SO4** | 251 | mg/L | 3.00 | 1.80 | 10 | X450202 | RS | 12/14/24 00:55 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 5.16 meq/L  Anion Sum: 5.31 meq/L  C/A Balance: -1.41 %  Calculated TDS: 326  TDS/cTDS: 1.24

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

Client Sample ID: **GVMW-4A**
SVL Sample ID: **X4L0217-05 (Ground Water)**



Sampled: 12-Dec-24 09:50
Received: 13-Dec-24
Sampled By: TR

| 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** | 17.6 | mg/L | 0.100 | 0.069 | | X451042 | SJN | 12/20/24 13:30 | |
| EPA 200.7 | **Magnesium** | 10.5 | mg/L | 0.500 | 0.090 | | X451042 | SJN | 12/20/24 13:30 | |
| EPA 200.7 | **Potassium** | 1.21 | mg/L | 0.50 | 0.18 | | X451042 | SJN | 12/20/24 13:30 | |
| SM 2340 B | **Hardness (as CaCO3)** | 84.9 | mg/L | 2.31 | 0.543 | | N/A | | 12/20/24 13:30 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | **Barium** | 0.169 | mg/L | 0.0020 | 0.0019 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | **Calcium** | 17.6 | mg/L | 0.100 | 0.069 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | **Iron** | 7.14 | mg/L | 0.100 | 0.056 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | **Magnesium** | 9.93 | mg/L | 0.500 | 0.090 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | **Manganese** | 1.98 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | **Potassium** | 1.07 | mg/L | 0.50 | 0.18 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | **Sodium** | 9.43 | mg/L | 0.50 | 0.12 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.7 | **Zinc** | 0.0137 | mg/L | 0.0100 | 0.0054 | | X451117 | NMS | 12/22/24 15:36 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451078 | SMU | 12/26/24 15:55 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451078 | SMU | 12/26/24 15:55 | |
| EPA 200.8 | Selenium | < 0.00100 | mg/L | 0.00100 | 0.00024 | | X451078 | SMU | 12/26/24 15:55 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451078 | SMU | 12/26/24 15:55 | |
| EPA 200.8 | **Uranium** | 0.000113 | mg/L | 0.000100 | 0.000052 | | X451078 | SMU | 12/26/24 15:55 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X452043 | MAC | 12/30/24 13:15 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451165 | DD | 12/24/24 17:53 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451006 | DD | 12/17/24 13:26 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451033 | DD | 12/20/24 18:14 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:32 | |
| SM 2310 B | **Acidity to pH 8.3** | -56.5 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | **Total Alkalinity** | 52.6 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:30 | |
| SM 2320 B | **Bicarbonate** | 52.6 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:30 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:30 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:30 | |
| SM 2540 C | **Total Diss. Solids** | 189 | mg/L | 10 | | | X451038 | TJL | 12/18/24 13:30 | |
| SM 2540 D | Total Susp. Solids | < 5.0 | mg/L | 5.0 | | | X451039 | TJL | 12/18/24 14:40 | |
| SM 4500 H B | **pH @19.2°C** | 6.6 | pH Units | | | | X451184 | MWD | 12/20/24 21:30 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

Client Sample ID: **GVMW-4A**
SVL Sample ID: **X4L0217-05 (Ground Water)**



Sampled: 12-Dec-24 09:50
Received: 13-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 5.04 | mg/L | 0.20 | 0.02 | | X450202 | RS | 12/14/24 01:43 | |
| EPA 300.0 | **Fluoride** | 0.137 | mg/L | 0.100 | 0.017 | | X450202 | RS | 12/14/24 01:43 | |
| EPA 300.0 | Nitrate as N | < 0.050 | mg/L | 0.050 | 0.013 | | X450202 | RS | 12/14/24 01:43 | |
| EPA 300.0 | Nitrate+Nitrite as N | < 0.100 | mg/L | 0.100 | 0.044 | | X450202 | RS | 12/14/24 01:43 | |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450202 | RS | 12/14/24 01:43 | |
| EPA 300.0 | **Sulfate as SO4** | 63.9 | mg/L | 3.00 | 1.80 | 10 | X450202 | RS | 12/14/24 01:59 | M4 |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 2.47 meq/L  Anion Sum: 2.53 meq/L  C/A Balance: -1.19 %  Calculated TDS: 139  TDS/cTDS: 1.36

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

Client Sample ID: **GVMW-10**
SVL Sample ID: **X4L0217-06 (Ground Water)**



Sampled: 12-Dec-24 12:20
Received: 13-Dec-24
Sampled By: TR

| 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** | 419 | mg/L | 0.100 | 0.069 | | X451042 | SJN | 12/20/24 13:34 | |
| EPA 200.7 | **Magnesium** | 176 | mg/L | 0.500 | 0.090 | | X451042 | SJN | 12/20/24 13:34 | |
| EPA 200.7 | **Potassium** | 2.66 | mg/L | 0.50 | 0.18 | | X451042 | SJN | 12/20/24 13:34 | |
| SM 2340 B | **Hardness (as CaCO3)** | 1810 | mg/L | 2.31 | 0.543 | | N/A | | 12/20/24 13:34 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | **Barium** | 0.0155 | mg/L | 0.0020 | 0.0019 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | **Calcium** | 429 | mg/L | 0.100 | 0.069 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | **Copper** | 0.0104 | mg/L | 0.0100 | 0.0027 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | Iron | < 0.100 | mg/L | 0.100 | 0.056 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | **Magnesium** | 180 | mg/L | 0.500 | 0.090 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | **Manganese** | 1.02 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | **Molybdenum** | 0.0209 | mg/L | 0.0080 | 0.0034 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | **Potassium** | 2.72 | mg/L | 0.50 | 0.18 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | **Sodium** | 41.4 | mg/L | 0.50 | 0.12 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.7 | **Zinc** | 0.120 | mg/L | 0.0100 | 0.0054 | | X451117 | NMS | 12/22/24 15:40 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X451078 | SMU | 12/26/24 15:58 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X451078 | SMU | 12/26/24 15:58 | |
| EPA 200.8 | **Selenium** | 0.00137 | mg/L | 0.00100 | 0.00024 | | X451078 | SMU | 12/26/24 15:58 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X451078 | SMU | 12/26/24 15:58 | |
| EPA 200.8 | **Uranium** | 0.0788 | mg/L | 0.000100 | 0.000052 | | X451078 | SMU | 12/26/24 15:58 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X452043 | MAC | 12/30/24 13:21 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451165 | DD | 12/24/24 17:55 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451006 | DD | 12/17/24 13:29 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451033 | DD | 12/20/24 18:17 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:34 | |
| SM 2310 B | **Acidity to pH 8.3** | -337 | mg/L as CaCO3 | 10.0 | | | X451190 | MWD | 12/21/24 10:33 | |
| SM 2320 B | **Total Alkalinity** | 344 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:35 | |
| SM 2320 B | **Bicarbonate** | 344 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:35 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:35 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:35 | |
| SM 2540 C | **Total Diss. Solids** | 2480 | mg/L | 40 | | | X451038 | TJL | 12/18/24 13:30 | |
| SM 2540 D | Total Susp. Solids | < 5.0 | mg/L | 5.0 | | | X451039 | TJL | 12/18/24 14:40 | |
| SM 4500 H B | **pH @19.2°C** | 7.1 | pH Units | | | | X451184 | MWD | 12/20/24 21:35 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

Client Sample ID: **GVMW-10**
SVL Sample ID: **X4L0217-06 (Ground Water)**



Sampled: 12-Dec-24 12:20
Received: 13-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 4.93 | mg/L | 0.20 | 0.02 | | X450202 | RS | 12/14/24 03:18 | |
| EPA 300.0 | **Fluoride** | 0.572 | mg/L | 0.100 | 0.017 | | X450202 | RS | 12/14/24 03:18 | |
| EPA 300.0 | **Nitrate as N** | 0.114 | mg/L | 0.050 | 0.013 | | X450202 | RS | 12/14/24 03:18 | |
| EPA 300.0 | **Nitrate+Nitrite as N** | 0.125 | mg/L | 0.100 | 0.044 | | X450202 | RS | 12/14/24 03:18 | |
| EPA 300.0 | Nitrite as N | < 0.050 | mg/L | 0.050 | 0.031 | | X450202 | RS | 12/14/24 03:18 | |
| EPA 300.0 | **Sulfate as SO4** | 1590 | mg/L | 15.0 | 9.00 | 50 | X450202 | RS | 12/14/24 03:34 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 37.3 meq/L  Anion Sum: 40.2 meq/L  C/A Balance: -3.66 %  Calculated TDS: 2449  TDS/cTDS: 1.01

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

## 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 | X451042 | 20-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | <0.500 | 0.090 | 0.500 | X451042 | 20-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | <0.50 | 0.18 | 0.50 | X451042 | 20-Dec-24 | |
| **Metals (Dissolved)** | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | <0.080 | 0.054 | 0.080 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Barium | mg/L | <0.0020 | 0.0019 | 0.0020 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | <0.00200 | 0.00080 | 0.00200 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Boron | mg/L | <0.0400 | 0.0078 | 0.0400 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | <0.0020 | 0.0016 | 0.0020 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | <0.100 | 0.069 | 0.100 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | <0.0060 | 0.0020 | 0.0060 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | <0.0060 | 0.0046 | 0.0060 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Copper | mg/L | <0.0100 | 0.0027 | 0.0100 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Iron | mg/L | <0.100 | 0.056 | 0.100 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Lead | mg/L | <0.0075 | 0.0049 | 0.0075 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | <0.040 | 0.025 | 0.040 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | <0.500 | 0.090 | 0.500 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | <0.0080 | 0.0034 | 0.0080 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | <0.0080 | 0.0034 | 0.0080 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | <0.0100 | 0.0048 | 0.0100 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | <0.50 | 0.18 | 0.50 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Silver | mg/L | <0.0050 | 0.0019 | 0.0050 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | <0.50 | 0.12 | 0.50 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | <0.0050 | 0.0019 | 0.0050 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | <0.0100 | 0.0054 | 0.0100 | X451117 | 22-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | <0.00100 | 0.00072 | 0.00100 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | <0.00100 | 0.00021 | 0.00100 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | <0.00100 | 0.00024 | 0.00100 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | <0.000200 | 0.00008 | 0.000200 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | <0.000100 | 0.000052 | 0.000100 | X451078 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | <0.000200 | 0.000093 | 0.000200 | X452043 | 30-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | <0.0050 | 0.0048 | 0.0050 | X451165 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | <0.0050 | 0.0038 | 0.0050 | X451006 | 17-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | <0.030 | 0.013 | 0.030 | X451033 | 20-Dec-24 | |
| OIA 1677 | Cyanide (WAD) | mg/L | <0.0050 | 0.0010 | 0.0050 | X451065 | 18-Dec-24 | |
| SM 2310 B | Acidity to pH 8.3 | mg/L as CaCO3 | <10.0 | | 10.0 | X451190 | 21-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | <1.0 | | 1.0 | X451184 | 20-Dec-24 | |
| SM 2320 B | Bicarbonate | mg/L as CaCO3 | <1.0 | | 1.0 | X451184 | 20-Dec-24 | |
| SM 2320 B | Carbonate | mg/L as CaCO3 | <1.0 | | 1.0 | X451184 | 20-Dec-24 | |
| SM 2320 B | Hydroxide | mg/L as CaCO3 | <1.0 | | 1.0 | X451184 | 20-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | <10 | | 10 | X451038 | 18-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | <5.0 | | 5.0 | X451039 | 18-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | <0.20 | 0.02 | 0.20 | X450202 | 13-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | <0.100 | 0.017 | 0.100 | X450202 | 13-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | <0.050 | 0.013 | 0.050 | X450202 | 13-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | <0.100 | 0.044 | 0.100 | X450202 | 13-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | <0.050 | 0.031 | 0.050 | X450202 | 13-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | <0.30 | 0.18 | 0.30 | X450202 | 13-Dec-24 | |

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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

## 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 | 19.2 | 20.0 | 96 | 85 - 115 | X451042 | 20-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 19.5 | 20.0 | 97.3 | 85 - 115 | X451042 | 20-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 19.6 | 20.0 | 97.9 | 85 - 115 | X451042 | 20-Dec-24 | |
| **Metals (Dissolved)** | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 0.999 | 1.00 | 99.9 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 0.977 | 1.00 | 97.7 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.964 | 1.00 | 96.4 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 0.970 | 1.00 | 97.0 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 0.961 | 1.00 | 96.1 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 19.1 | 20.0 | 95.4 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | 0.971 | 1.00 | 97.1 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.948 | 1.00 | 94.8 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 0.941 | 1.00 | 94.1 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 9.71 | 10.0 | 97.1 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 0.956 | 1.00 | 95.6 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 0.948 | 1.00 | 94.8 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 18.4 | 20.0 | 92.0 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | 0.963 | 1.00 | 96.3 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 0.973 | 1.00 | 97.3 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 0.934 | 1.00 | 93.4 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 19.5 | 20.0 | 97.3 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0487 | 0.0500 | 97.4 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 18.5 | 19.0 | 97.1 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 0.984 | 1.00 | 98.4 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 0.966 | 1.00 | 96.6 | 85 - 115 | X451117 | 22-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0275 | 0.0250 | 110 | 85 - 115 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | 0.0275 | 0.0250 | 110 | 85 - 115 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | 0.0271 | 0.0250 | 108 | 85 - 115 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | 0.0263 | 0.0250 | 105 | 85 - 115 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | 0.0267 | 0.0250 | 107 | 85 - 115 | X451078 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00194 | 0.00200 | 97.2 | 85 - 115 | X452043 | 30-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.102 | 0.100 | 102 | 90 - 110 | X451165 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.102 | 0.100 | 102 | 90 - 110 | X451006 | 17-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 0.974 | 1.00 | 97.4 | 90 - 110 | X451033 | 20-Dec-24 | |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.107 | 0.100 | 107 | 90 - 110 | X451065 | 18-Dec-24 | |
| SM 2310 B | Acidity to pH 8.3 | mg/L as CaCO3 | 720 | 706 | 102 | 95.4 - 104 | X451190 | 21-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 10.2 | 9.93 | 103 | 96.4 - 105 | X451184 | 20-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 101 | 99.3 | 102 | 96.4 - 105 | X451184 | 20-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 414 | 397 | 104 | 96.4 - 105 | X451184 | 20-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | 9.0 | 10.0 | 90.0 | 85 - 115 | X451039 | 18-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 2.88 | 3.00 | 96.1 | 90 - 110 | X450202 | 13-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 1.93 | 2.00 | 96.5 | 90 - 110 | X450202 | 13-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.90 | 2.00 | 95.2 | 90 - 110 | X450202 | 13-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.41 | 4.50 | 98.0 | 90 - 110 | X450202 | 13-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 2.50 | 2.50 | 100 | 90 - 110 | X450202 | 13-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 10.1 | 10.0 | 101 | 90 - 110 | X450202 | 13-Dec-24 | |

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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

## 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 | X451190 - X4L0191-01 | 21-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 107 | 112 | 4.4 | 20 | X451184 - X4L0217-02 | 20-Dec-24 | |
| SM 2320 B | Bicarbonate | mg/L as CaCO3 | 107 | 112 | 4.4 | 20 | X451184 - X4L0217-02 | 20-Dec-24 | |
| SM 2320 B | Carbonate | mg/L as CaCO3 | <1.0 | <1.0 | UDL | 20 | X451184 - X4L0217-02 | 20-Dec-24 | |
| SM 2320 B | Hydroxide | mg/L as CaCO3 | <1.0 | <1.0 | UDL | 20 | X451184 - X4L0217-02 | 20-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | 308 | 302 | 2.0 | 10 | X451038 - X4L0208-01 | 18-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | 395 | 404 | 2.3 | 10 | X451038 - X4L0217-04 | 18-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | <5.0 | <5.0 | <RL | 10 | X451039 - X4L0217-04 | 18-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | <5.0 | <5.0 | UDL | 10 | X451039 - X4L0208-01 | 18-Dec-24 | |
| SM 4500 H B | pH @19.2°C | pH Units | 7.7 | 7.8 | 1.8 | 20 | X451184 - X4L0217-02 | 20-Dec-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 | 64.7 | 45.2 | 20.0 | 98 | 70 - 130 | X451042 - X4L0191-01 | 20-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 37.6 | 19.0 | 20.0 | 93 | 70 - 130 | X451042 - X4L0217-03 | 20-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 35.3 | 15.5 | 20.0 | 99.2 | 70 - 130 | X451042 - X4L0191-01 | 20-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 36.7 | 17.3 | 20.0 | 96.9 | 70 - 130 | X451042 - X4L0217-03 | 20-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 20.5 | 0.95 | 20.0 | 97.9 | 70 - 130 | X451042 - X4L0191-01 | 20-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 21.2 | 1.99 | 20.0 | 96.0 | 70 - 130 | X451042 - X4L0217-03 | 20-Dec-24 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 1.04 | <0.080 | 1.00 | 97.4 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Aluminum | mg/L | 1.09 | <0.080 | 1.00 | 109 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 1.00 | 0.0327 | 1.00 | 96.9 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 0.986 | 0.0155 | 1.00 | 97.1 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.948 | <0.00200 | 1.00 | 94.8 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.963 | <0.00200 | 1.00 | 96.3 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 0.980 | <0.0400 | 1.00 | 98.0 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 1.04 | <0.0400 | 1.00 | 101 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 0.953 | <0.0020 | 1.00 | 95.3 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 0.974 | <0.0020 | 1.00 | 97.4 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 64.7 | 46.4 | 20.0 | 91.6 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 452 | 429 | 20.0 | 113 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | 0.966 | <0.0060 | 1.00 | 96.6 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | 0.984 | <0.0060 | 1.00 | 98.2 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.928 | <0.0060 | 1.00 | 92.8 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.976 | <0.0060 | 1.00 | 97.6 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 0.925 | <0.0100 | 1.00 | 92.2 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 1.02 | 0.0104 | 1.00 | 101 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 9.71 | <0.100 | 10.0 | 97.1 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 9.68 | <0.100 | 10.0 | 96.8 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 0.953 | <0.0075 | 1.00 | 95.3 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 0.991 | <0.0075 | 1.00 | 99.1 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 0.963 | <0.040 | 1.00 | 96.3 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 1.07 | <0.040 | 1.00 | 107 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 34.0 | 15.1 | 20.0 | 94.5 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 204 | 180 | 20.0 | 122 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |

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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

## 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 | 0.961 | 0.0129 | 1.00 | 94.9 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | 2.00 | 1.02 | 1.00 | 98.4 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 0.968 | <0.0080 | 1.00 | 96.8 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 1.06 | 0.0209 | 1.00 | 103 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 0.902 | <0.0100 | 1.00 | 90.2 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 0.956 | <0.0100 | 1.00 | 95.6 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 20.4 | 0.87 | 20.0 | 97.7 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 22.4 | 2.72 | 20.0 | 98.3 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0485 | <0.0050 | 0.0500 | 97.0 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0585 | <0.0050 | 0.0500 | 107 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 31.5 | 13.5 | 19.0 | 94.6 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 60.0 | 41.4 | 19.0 | 98.2 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 0.980 | <0.0050 | 1.00 | 98.0 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 1.02 | <0.0050 | 1.00 | 102 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 0.973 | <0.0100 | 1.00 | 96.7 | 70 - 130 | X451117 - X4L0191-01 | 22-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 1.15 | 0.120 | 1.00 | 103 | 70 - 130 | X451117 - X4L0217-06 | 22-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0353 | 0.00214 | 0.0250 | 133 | 70 - 130 | X451078 - X4L0217-01 | 26-Dec-24 | M1 |
| EPA 200.8 | Arsenic | mg/L | 0.0371 | 0.00177 | 0.0250 | 141 | 70 - 130 | X451078 - X4L0217-01 | 26-Dec-24 | M1 |
| EPA 200.8 | Selenium | mg/L | 0.0360 | <0.00100 | 0.0250 | 142 | 70 - 130 | X451078 - X4L0217-01 | 26-Dec-24 | M1 |
| EPA 200.8 | Thallium | mg/L | 0.0296 | <0.000200 | 0.0250 | 118 | 70 - 130 | X451078 - X4L0217-01 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | 0.0365 | 0.00434 | 0.0250 | 129 | 70 - 130 | X451078 - X4L0217-01 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00203 | <0.000200 | 0.00200 | 101 | 70 - 130 | X452043 - X4L0217-01 | 30-Dec-24 | |
| EPA 245.1 | Mercury | mg/L | 0.00203 | <0.000200 | 0.00200 | 102 | 70 - 130 | X452043 - X4L0287-01 | 30-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0830 | <0.0050 | 0.100 | 83.0 | 79 - 121 | X451165 - X4L0165-01 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.103 | <0.0050 | 0.100 | 103 | 90 - 110 | X451006 - X4L0217-01 | 17-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 1.15 | <0.030 | 1.00 | 115 | 90 - 110 | X451033 - X4L0157-04 | 20-Dec-24 | M1 |
| EPA 350.1 | Ammonia as N | mg/L | 1.66 | 0.941 | 1.00 | 71.8 | 90 - 110 | X451033 - X4L0157-02 | 20-Dec-24 | M4 |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.110 | <0.0050 | 0.100 | 109 | 82 - 118 | X451065 - X4L0191-01 | 18-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 8.02 | 5.04 | 3.00 | 99.3 | 90 - 110 | X450202 - X4L0217-05 | 14-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 2.05 | 0.137 | 2.00 | 95.8 | 90 - 110 | X450202 - X4L0217-05 | 14-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.90 | <0.050 | 2.00 | 94.2 | 90 - 110 | X450202 - X4L0217-05 | 14-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 3.86 | <0.100 | 4.00 | 96.4 | 90 - 110 | X450202 - X4L0217-05 | 14-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 1.96 | <0.050 | 2.00 | 98.0 | 90 - 110 | X450202 - X4L0217-05 | 14-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 72.6 | 63.9 | 10.0 | 0.30R>S | 90 - 110 | X450202 - X4L0217-05 | 14-Dec-24 | M4 |

## 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 | 63.5 | 64.7 | 20.0 | 2.0 | 20 | 91 | X451042 - X4L0191-01 | |
| EPA 200.7 | Magnesium | mg/L | 34.6 | 35.3 | 20.0 | 2.1 | 20 | 95.5 | X451042 - X4L0191-01 | |
| EPA 200.7 | Potassium | mg/L | 20.2 | 20.5 | 20.0 | 1.7 | 20 | 96.2 | X451042 - X4L0191-01 | |

**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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0217**
Reported: 30-Dec-24 15:47

## 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)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 1.06 | 1.04 | 1.00 | 1.1 | 20 | 98.6 | X451117 - X4L0191-01 | |
| EPA 200.7 | Barium | mg/L | 1.01 | 1.00 | 1.00 | 0.8 | 20 | 97.7 | X451117 - X4L0191-01 | |
| EPA 200.7 | Beryllium | mg/L | 0.953 | 0.948 | 1.00 | 0.6 | 20 | 95.3 | X451117 - X4L0191-01 | |
| EPA 200.7 | Boron | mg/L | 0.981 | 0.980 | 1.00 | 0.1 | 20 | 98.1 | X451117 - X4L0191-01 | |
| EPA 200.7 | Cadmium | mg/L | 0.955 | 0.953 | 1.00 | 0.3 | 20 | 95.5 | X451117 - X4L0191-01 | |
| EPA 200.7 | Calcium | mg/L | 64.9 | 64.7 | 20.0 | 0.3 | 20 | 92.5 | X451117 - X4L0191-01 | |
| EPA 200.7 | Chromium | mg/L | 0.972 | 0.966 | 1.00 | 0.6 | 20 | 97.2 | X451117 - X4L0191-01 | |
| EPA 200.7 | Cobalt | mg/L | 0.927 | 0.928 | 1.00 | 0.1 | 20 | 92.7 | X451117 - X4L0191-01 | |
| EPA 200.7 | Copper | mg/L | 0.930 | 0.925 | 1.00 | 0.5 | 20 | 92.7 | X451117 - X4L0191-01 | |
| EPA 200.7 | Iron | mg/L | 9.79 | 9.71 | 10.0 | 0.7 | 20 | 97.9 | X451117 - X4L0191-01 | |
| EPA 200.7 | Lead | mg/L | 0.950 | 0.953 | 1.00 | 0.3 | 20 | 95.0 | X451117 - X4L0191-01 | |
| EPA 200.7 | Lithium | mg/L | 0.975 | 0.963 | 1.00 | 1.3 | 20 | 97.5 | X451117 - X4L0191-01 | |
| EPA 200.7 | Magnesium | mg/L | 34.3 | 34.0 | 20.0 | 0.9 | 20 | 96.0 | X451117 - X4L0191-01 | |
| EPA 200.7 | Manganese | mg/L | 0.977 | 0.961 | 1.00 | 1.6 | 20 | 96.4 | X451117 - X4L0191-01 | |
| EPA 200.7 | Molybdenum | mg/L | 0.969 | 0.968 | 1.00 | 0.1 | 20 | 96.9 | X451117 - X4L0191-01 | |
| EPA 200.7 | Nickel | mg/L | 0.902 | 0.902 | 1.00 | 0.1 | 20 | 90.2 | X451117 - X4L0191-01 | |
| EPA 200.7 | Potassium | mg/L | 20.4 | 20.4 | 20.0 | 0.1 | 20 | 97.8 | X451117 - X4L0191-01 | |
| EPA 200.7 | Silver | mg/L | 0.0490 | 0.0485 | 0.0500 | 1.1 | 20 | 98.1 | X451117 - X4L0191-01 | |
| EPA 200.7 | Sodium | mg/L | 31.6 | 31.5 | 19.0 | 0.5 | 20 | 95.3 | X451117 - X4L0191-01 | |
| EPA 200.7 | Vanadium | mg/L | 0.986 | 0.980 | 1.00 | 0.6 | 20 | 98.6 | X451117 - X4L0191-01 | |
| EPA 200.7 | Zinc | mg/L | 0.976 | 0.973 | 1.00 | 0.3 | 20 | 96.9 | X451117 - X4L0191-01 | |
| EPA 200.8 | Antimony | mg/L | 0.0330 | 0.0353 | 0.0250 | 6.7 | 20 | 124 | X451078 - X4L0217-01 | |
| EPA 200.8 | Arsenic | mg/L | 0.0347 | 0.0371 | 0.0250 | 6.6 | 20 | 132 | X451078 - X4L0217-01 | M1 |
| EPA 200.8 | Selenium | mg/L | 0.0344 | 0.0360 | 0.0250 | 4.5 | 20 | 136 | X451078 - X4L0217-01 | M1 |
| EPA 200.8 | Thallium | mg/L | 0.0279 | 0.0296 | 0.0250 | 6.0 | 20 | 111 | X451078 - X4L0217-01 | |
| EPA 200.8 | Uranium | mg/L | 0.0347 | 0.0365 | 0.0250 | 5.0 | 20 | 122 | X451078 - X4L0217-01 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00202 | 0.00203 | 0.00200 | 0.2 | 20 | 101 | X452043 - X4L0217-01 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0840 | 0.0830 | 0.100 | 1.2 | 11 | 84.0 | X451165 - X4L0165-01 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.104 | 0.103 | 0.100 | 0.7 | 20 | 104 | X451006 - X4L0217-01 | |
| EPA 350.1 | Ammonia as N | mg/L | 1.09 | 1.15 | 1.00 | 5.3 | 20 | 109 | X451033 - X4L0157-04 | |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.108 | 0.110 | 0.100 | 1.8 | 11 | 107 | X451065 - X4L0191-01 | |
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 8.05 | 8.02 | 3.00 | 0.4 | 20 | 100 | X450202 - X4L0217-05 | |
| EPA 300.0 | Fluoride | mg/L | 2.10 | 2.05 | 2.00 | 2.2 | 20 | 98.0 | X450202 - X4L0217-05 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.93 | 1.90 | 2.00 | 1.8 | 20 | 96.0 | X450202 - X4L0217-05 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 3.94 | 3.86 | 4.00 | 2.0 | 20 | 98.4 | X450202 - X4L0217-05 | |
| EPA 300.0 | Nitrite as N | mg/L | 2.00 | 1.96 | 2.00 | 2.1 | 20 | 100 | X450202 - X4L0217-05 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 72.6 | 72.6 | 10.0 | 0.1 | 20 | 0.30R>S | X450202 - X4L0217-05 | M4 |

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| | |
|---|---|
| **Newmont - Cripple Creek & Victor** | **Project Name: Cripple Creek/Victor Water and Soil 2024** |
| Post Office Box 191 | Work Order: **X4L0217** |
| Victor, CO 80860 | Reported: 30-Dec-24 15:47 |

## Notes and Definitions

| | |
|---|---|
| H5 | This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time. |
| M1 | Matrix spike recovery was high, but the LCS recovery was acceptable. |
| M4 | The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable. |
| 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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| | |
|---|---|
| **Newmont - Cripple Creek & Victor** | **Project Name: Cripple Creek/Victor Water and Soil 2024** |
| Post Office Box 191 | Work Order: **X4L0253** |
| Victor, CO 80860 | Reported: 02-Jan-25 13:12 |

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Sampled By | Date Received | Notes |
|---|---|---|---|---|---|---|
| GVMW-28 | X4L0253-01 | Ground Water | 16-Dec-24 12:44 | TR | 17-Dec-2024 | |
| OSABH-17 | X4L0253-02 | Ground Water | 16-Dec-24 10:32 | TR | 17-Dec-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: X4L0253

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0253**
Reported: 02-Jan-25 13:12

Client Sample ID: **GVMW-28**
SVL Sample ID: **X4L0253-01 (Ground Water)**



Sampled: 16-Dec-24 12:44
Received: 17-Dec-24
Sampled By: TR

| 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** | 411 | mg/L | 0.500 | 0.345 | 5 | X452068 | NMS | 01/02/25 09:16 | D11,M4 |
| EPA 200.7 | **Magnesium** | 501 | mg/L | 2.50 | 0.450 | 5 | X452068 | NMS | 01/02/25 09:16 | D11,M4 |
| EPA 200.7 | Potassium | < 2.50 | mg/L | 2.50 | 0.90 | 5 | X452068 | NMS | 01/02/25 09:16 | D11 |
| SM 2340 B | **Hardness (as CaCO3)** | 3090 | mg/L | 11.5 | 2.71 | | N/A | | 12/24/24 13:56 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | **Aluminum** | 1890 | mg/L | 0.800 | 0.540 | 10 | X452020 | SJN | 12/24/24 12:14 | D11,D18 |
| EPA 200.7 | **Barium** | 0.0120 | mg/L | 0.0040 | 0.0038 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Beryllium** | 0.974 | mg/L | 0.00400 | 0.00160 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Boron** | 0.101 | mg/L | 0.0800 | 0.0156 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Cadmium** | 3.46 | mg/L | 0.0040 | 0.0032 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Calcium** | 497 | mg/L | 0.200 | 0.138 | 2 | X452020 | SJN | 12/24/24 13:56 | B7,D11,D18 |
| EPA 200.7 | **Chromium** | 0.389 | mg/L | 0.0120 | 0.0040 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Cobalt** | 3.89 | mg/L | 0.0120 | 0.0092 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Copper** | 11.4 | mg/L | 0.0200 | 0.0054 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Iron** | 328 | mg/L | 0.200 | 0.112 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Lead** | 0.121 | mg/L | 0.0150 | 0.0098 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Lithium** | 0.437 | mg/L | 0.080 | 0.050 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Magnesium** | 612 | mg/L | 1.00 | 0.180 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Manganese** | 433 | mg/L | 0.0800 | 0.0340 | 10 | X452020 | SJN | 12/24/24 12:14 | D11,D18 |
| EPA 200.7 | Molybdenum | < 0.0160 | mg/L | 0.0160 | 0.0068 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Nickel** | 4.94 | mg/L | 0.0200 | 0.0096 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Potassium** | 2.16 | mg/L | 1.00 | 0.36 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | Silver | < 0.0100 | mg/L | 0.0100 | 0.0038 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Sodium** | 39.3 | mg/L | 1.00 | 0.24 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Vanadium** | 0.0332 | mg/L | 0.0100 | 0.0038 | 2 | X452020 | SJN | 12/24/24 13:56 | D11,D18 |
| EPA 200.7 | **Zinc** | 158 | mg/L | 0.100 | 0.0540 | 10 | X452020 | SJN | 12/24/24 12:14 | D11,D18 |
| EPA 200.8 | Antimony | < 0.0100 | mg/L | 0.0100 | 0.00720 | 10 | X451078 | SMU | 12/26/24 16:19 | D11 |
| EPA 200.8 | **Arsenic** | 0.612 | mg/L | 0.0100 | 0.00210 | 10 | X451078 | SMU | 12/26/24 16:19 | D11 |
| EPA 200.8 | **Selenium** | 0.0245 | mg/L | 0.0100 | 0.00240 | 10 | X451078 | SMU | 12/26/24 16:19 | D11 |
| EPA 200.8 | Thallium | < 0.00200 | mg/L | 0.00200 | 0.000800 | 10 | X451078 | SMU | 12/26/24 16:19 | D11 |
| EPA 200.8 | **Uranium** | 6.67 | mg/L | 0.00100 | 0.000520 | 10 | X451078 | SMU | 12/26/24 16:19 | D11 |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X452043 | MAC | 12/30/24 13:23 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | < 0.0500 | mg/L | 0.0500 | 0.0480 | 10 | X451165 | DD | 12/24/24 17:57 | D15 |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451170 | JPM | 12/24/24 10:13 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451137 | DD | 12/20/24 12:54 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:40 | |
| SM 2310 B | **Acidity to pH 8.3** | 12100 | mg/L as CaCO3 | 10.0 | | | X453012 | MWD | 12/30/24 10:36 | |
| SM 2320 B | Total Alkalinity | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:41 | |
| SM 2320 B | Bicarbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:41 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:41 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:41 | |
| SM 2540 C | **Total Diss. Solids** | 22900 | mg/L | 100 | | | X451087 | TJL | 12/19/24 12:10 | E11 |
| SM 2540 D | **Total Susp. Solids** | 70.0 | mg/L | 5.0 | | | X451088 | TJL | 12/19/24 11:25 | |
| SM 4500 H B | **pH @19.3°C** | 2.8 | pH Units | | | | X451184 | MWD | 12/20/24 21:41 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0253**
Reported: 02-Jan-25 13:12

Client Sample ID: **GVMW-28**
SVL Sample ID: **X4L0253-01 (Ground Water)**



Sampled: 16-Dec-24 12:44
Received: 17-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 5.85 | mg/L | 5.00 | 0.55 | 25 | X451061 | RS | 12/17/24 20:13 | D18 |
| EPA 300.0 | **Fluoride** | 43.6 | mg/L | 2.50 | 0.425 | 25 | X451061 | RS | 12/17/24 20:13 | |
| EPA 300.0 | **Nitrate as N** | 6.07 | mg/L | 1.25 | 0.325 | 25 | X451061 | RS | 12/17/24 20:13 | D18 |
| EPA 300.0 | **Nitrate+Nitrite as N** | 6.07 | mg/L | 2.50 | 1.10 | 25 | X451061 | RS | 12/17/24 20:13 | D18 |
| EPA 300.0 | Nitrite as N | < 1.25 | mg/L | 1.25 | 0.775 | 25 | X451061 | RS | 12/17/24 20:13 | D18 |
| EPA 300.0 | **Sulfate as SO4** | 17100 | mg/L | 150 | 90.0 | 500 | X451061 | RS | 12/17/24 20:30 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 306 meq/L  Anion Sum: 359 meq/L  C/A Balance: -7.89 %  Calculated TDS: 18227  TDS/cTDS: 1.26

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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Victor, CO 80860

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0253**
Reported: 02-Jan-25 13:12

Client Sample ID: **OSABH-17**
SVL Sample ID: **X4L0253-02 (Ground Water)**



Sampled: 16-Dec-24 10:32
Received: 17-Dec-24
Sampled By: TR

| 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** | 398 | mg/L | 1.00 | 0.690 | 10 | X452068 | NMS | 01/02/25 09:20 | D11 |
| EPA 200.7 | **Magnesium** | 1480 | mg/L | 5.00 | 0.900 | 10 | X452068 | NMS | 01/02/25 09:20 | D11 |
| EPA 200.7 | Potassium | < 5.00 | mg/L | 5.00 | 1.80 | 10 | X452068 | NMS | 01/02/25 09:20 | D11 |
| SM 2340 B | **Hardness (as CaCO3)** | 7070 | mg/L | 23.1 | 5.43 | | N/A | | 12/24/24 14:00 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | **Aluminum** | 4580 | mg/L | 0.800 | 0.540 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | Barium | < 0.0200 | mg/L | 0.0200 | 0.0190 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | **Beryllium** | 0.811 | mg/L | 0.0200 | 0.00800 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | Boron | < 0.400 | mg/L | 0.400 | 0.0780 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | **Cadmium** | 10.0 | mg/L | 0.0200 | 0.0160 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | **Calcium** | 425 | mg/L | 1.00 | 0.690 | 10 | X452020 | SJN | 12/24/24 14:00 | B7,D11,D18 |
| EPA 200.7 | **Chromium** | 0.660 | mg/L | 0.0600 | 0.0200 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | **Cobalt** | 21.0 | mg/L | 0.0600 | 0.0460 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | **Copper** | 19.7 | mg/L | 0.100 | 0.0270 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | **Iron** | 392 | mg/L | 1.00 | 0.560 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | **Lead** | 0.195 | mg/L | 0.0750 | 0.0490 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | **Lithium** | 1.49 | mg/L | 0.400 | 0.250 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | **Magnesium** | 1540 | mg/L | 5.00 | 0.900 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | **Manganese** | 1580 | mg/L | 0.800 | 0.340 | 100 | X452020 | SJN | 12/24/24 12:17 | D11,D18 |
| EPA 200.7 | Molybdenum | < 0.0800 | mg/L | 0.0800 | 0.0340 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | **Nickel** | 15.6 | mg/L | 0.100 | 0.0480 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | Potassium | < 5.00 | mg/L | 5.00 | 1.80 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | Silver | < 0.0500 | mg/L | 0.0500 | 0.0190 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | **Sodium** | 11.3 | mg/L | 5.00 | 1.20 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | Vanadium | < 0.0500 | mg/L | 0.0500 | 0.0190 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.7 | **Zinc** | 361 | mg/L | 0.100 | 0.0540 | 10 | X452020 | SJN | 12/24/24 14:00 | D11,D18 |
| EPA 200.8 | Antimony | < 0.100 | mg/L | 0.100 | 0.0720 | 100 | X451078 | SMU | 12/26/24 16:22 | D11 |
| EPA 200.8 | **Arsenic** | 1.04 | mg/L | 0.100 | 0.0210 | 100 | X451078 | SMU | 12/26/24 16:22 | D11 |
| EPA 200.8 | Selenium | < 0.100 | mg/L | 0.100 | 0.0240 | 100 | X451078 | SMU | 12/26/24 16:22 | D11 |
| EPA 200.8 | Thallium | < 0.0200 | mg/L | 0.0200 | 0.00800 | 100 | X451078 | SMU | 12/26/24 16:22 | D11 |
| EPA 200.8 | **Uranium** | 19.1 | mg/L | 0.0100 | 0.00520 | 100 | X451078 | SMU | 12/26/24 16:22 | D11 |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X452043 | MAC | 12/30/24 13:25 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | < 0.0500 | mg/L | 0.0500 | 0.0480 | 10 | X451165 | DD | 12/24/24 17:59 | D15 |
| EPA 335.4 | **Cyanide (total)** | 0.0061 | mg/L | 0.0050 | 0.0038 | | X451170 | JPM | 12/24/24 10:27 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451137 | DD | 12/20/24 12:56 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X451065 | DD | 12/18/24 11:41 | |
| SM 2310 B | **Acidity to pH 8.3** | 27800 | mg/L as CaCO3 | 10.0 | | | X453012 | MWD | 12/30/24 10:36 | |
| SM 2320 B | Total Alkalinity | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:46 | |
| SM 2320 B | Bicarbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:46 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:46 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:46 | |
| SM 2540 C | **Total Diss. Solids** | 55200 | mg/L | 100 | | | X451087 | TJL | 12/19/24 12:10 | E11 |
| SM 2540 D | **Total Susp. Solids** | 192 | mg/L | 5.0 | | | X451088 | TJL | 12/19/24 11:25 | |
| SM 4500 H B | **pH @19.3°C** | 2.8 | pH Units | | | | X451184 | MWD | 12/20/24 21:46 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0253**
Reported: 02-Jan-25 13:12

Client Sample ID: **OSABH-17**
SVL Sample ID: **X4L0253-02 (Ground Water)**



Sampled: 16-Dec-24 10:32
Received: 17-Dec-24
Sampled By: TR

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 18.3 | mg/L | 10.0 | 1.10 | 50 | X451061 | RS | 12/17/24 21:19 | |
| EPA 300.0 | **Fluoride** | 350 | mg/L | 5.00 | 0.850 | 50 | X451061 | RS | 12/17/24 21:19 | |
| EPA 300.0 | **Nitrate as N** | 4.96 | mg/L | 2.50 | 0.650 | 50 | X451061 | RS | 12/17/24 21:19 | D18 |
| EPA 300.0 | Nitrate+Nitrite as N | < 5.00 | mg/L | 5.00 | 2.20 | 50 | X451061 | RS | 12/17/24 21:19 | D18 |
| EPA 300.0 | Nitrite as N | < 2.50 | mg/L | 2.50 | 1.55 | 50 | X451061 | RS | 12/17/24 21:19 | D18 |
| EPA 300.0 | **Sulfate as SO4** | 36700 | mg/L | 300 | 180 | 1000 | X451061 | RS | 12/17/24 21:36 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 735 meq/L  Anion Sum: 783 meq/L  C/A Balance: -3.17 %  Calculated TDS: 39001  TDS/cTDS: 1.42

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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**Newmont - Cripple Creek & Victor**
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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0253**
Reported: 02-Jan-25 13:12

## 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 | X452068 | 02-Jan-25 | |
| EPA 200.7 | Magnesium | mg/L | <0.500 | 0.090 | 0.500 | X452068 | 02-Jan-25 | |
| EPA 200.7 | Potassium | mg/L | <0.50 | 0.18 | 0.50 | X452068 | 02-Jan-25 | |
| **Metals (Dissolved)** | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | <0.080 | 0.054 | 0.080 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Barium | mg/L | <0.0020 | 0.0019 | 0.0020 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | <0.00200 | 0.00080 | 0.00200 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Boron | mg/L | <0.0400 | 0.0078 | 0.0400 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | <0.0020 | 0.0016 | 0.0020 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 0.182 | 0.069 | 0.100 | X452020 | 24-Dec-24 | B7 |
| EPA 200.7 | Chromium | mg/L | <0.0060 | 0.0020 | 0.0060 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | <0.0060 | 0.0046 | 0.0060 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Copper | mg/L | <0.0100 | 0.0027 | 0.0100 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Iron | mg/L | <0.100 | 0.056 | 0.100 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Lead | mg/L | <0.0075 | 0.0049 | 0.0075 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | <0.040 | 0.025 | 0.040 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | <0.500 | 0.090 | 0.500 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | <0.0080 | 0.0034 | 0.0080 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | <0.0080 | 0.0034 | 0.0080 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | <0.0100 | 0.0048 | 0.0100 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | <0.50 | 0.18 | 0.50 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Silver | mg/L | <0.0050 | 0.0019 | 0.0050 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | <0.50 | 0.12 | 0.50 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | <0.0050 | 0.0019 | 0.0050 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | <0.0100 | 0.0054 | 0.0100 | X452020 | 24-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | <0.00100 | 0.00072 | 0.00100 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | <0.00100 | 0.00021 | 0.00100 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | <0.00100 | 0.00024 | 0.00100 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | <0.000200 | 0.00008 | 0.000200 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | <0.000100 | 0.000052 | 0.000100 | X451078 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | <0.000200 | 0.000093 | 0.000200 | X452043 | 30-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | <0.0050 | 0.0048 | 0.0050 | X451165 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | <0.0050 | 0.0038 | 0.0050 | X451170 | 24-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | <0.030 | 0.013 | 0.030 | X451137 | 20-Dec-24 | |
| OIA 1677 | Cyanide (WAD) | mg/L | <0.0050 | 0.0010 | 0.0050 | X451065 | 18-Dec-24 | |
| SM 2310 B | Acidity to pH 8.3 | mg/L as CaCO3 | <10.0 | | 10.0 | X453012 | 30-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | <1.0 | | 1.0 | X451184 | 20-Dec-24 | |
| SM 2320 B | Bicarbonate | mg/L as CaCO3 | <1.0 | | 1.0 | X451184 | 20-Dec-24 | |
| SM 2320 B | Carbonate | mg/L as CaCO3 | <1.0 | | 1.0 | X451184 | 20-Dec-24 | |
| SM 2320 B | Hydroxide | mg/L as CaCO3 | <1.0 | | 1.0 | X451184 | 20-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | <10 | | 10 | X451087 | 19-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | <5.0 | | 5.0 | X451088 | 19-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | <0.20 | 0.02 | 0.20 | X451061 | 17-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | <0.100 | 0.017 | 0.100 | X451061 | 17-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | <0.050 | 0.013 | 0.050 | X451061 | 17-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | <0.100 | 0.044 | 0.100 | X451061 | 17-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | <0.050 | 0.031 | 0.050 | X451061 | 17-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | <0.30 | 0.18 | 0.30 | X451061 | 17-Dec-24 | |

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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0253**
Reported: 02-Jan-25 13:12

## 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 | 18.3 | 20.0 | 92 | 85 - 115 | X452068 | 02-Jan-25 | |
| EPA 200.7 | Magnesium | mg/L | 19.8 | 20.0 | 98.9 | 85 - 115 | X452068 | 02-Jan-25 | |
| EPA 200.7 | Potassium | mg/L | 20.7 | 20.0 | 104 | 85 - 115 | X452068 | 02-Jan-25 | |
| **Metals (Dissolved)** | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 0.990 | 1.00 | 99.0 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 0.967 | 1.00 | 96.7 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.969 | 1.00 | 96.9 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 0.981 | 1.00 | 98.1 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 0.963 | 1.00 | 96.3 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 19.1 | 20.0 | 95.7 | 85 - 115 | X452020 | 24-Dec-24 | B7 |
| EPA 200.7 | Chromium | mg/L | 0.960 | 1.00 | 96.0 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.946 | 1.00 | 94.6 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 0.943 | 1.00 | 94.3 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 9.70 | 10.0 | 97.0 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 0.959 | 1.00 | 95.9 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 0.931 | 1.00 | 93.1 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 18.6 | 20.0 | 92.9 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | 0.951 | 1.00 | 95.1 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 0.972 | 1.00 | 97.2 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 0.933 | 1.00 | 93.3 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 19.6 | 20.0 | 98.1 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0510 | 0.0500 | 102 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 18.5 | 19.0 | 97.2 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 0.989 | 1.00 | 98.9 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 0.975 | 1.00 | 97.5 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0275 | 0.0250 | 110 | 85 - 115 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | 0.0275 | 0.0250 | 110 | 85 - 115 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | 0.0271 | 0.0250 | 108 | 85 - 115 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | 0.0263 | 0.0250 | 105 | 85 - 115 | X451078 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | 0.0267 | 0.0250 | 107 | 85 - 115 | X451078 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00194 | 0.00200 | 97.2 | 85 - 115 | X452043 | 30-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.102 | 0.100 | 102 | 90 - 110 | X451165 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.0984 | 0.100 | 98.4 | 90 - 110 | X451170 | 24-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 0.964 | 1.00 | 96.4 | 90 - 110 | X451137 | 20-Dec-24 | |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.107 | 0.100 | 107 | 90 - 110 | X451065 | 18-Dec-24 | |
| SM 2310 B | Acidity to pH 8.3 | mg/L as CaCO3 | 718 | 706 | 102 | 95.4 - 104 | X453012 | 30-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 10.2 | 9.93 | 103 | 96.4 - 105 | X451184 | 20-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 101 | 99.3 | 102 | 96.4 - 105 | X451184 | 20-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 414 | 397 | 104 | 96.4 - 105 | X451184 | 20-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | 9.0 | 10.0 | 90.0 | 85 - 115 | X451088 | 19-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 2.99 | 3.00 | 99.6 | 90 - 110 | X451061 | 17-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 2.00 | 2.00 | 100 | 90 - 110 | X451061 | 17-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.94 | 2.00 | 97.0 | 90 - 110 | X451061 | 17-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.47 | 4.50 | 99.3 | 90 - 110 | X451061 | 17-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 2.53 | 2.50 | 101 | 90 - 110 | X451061 | 17-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 10.2 | 10.0 | 102 | 90 - 110 | X451061 | 17-Dec-24 | |

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**Newmont - Cripple Creek & Victor**
Post Office Box 191
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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0253**
Reported: 02-Jan-25 13:12

## 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 | 12100 | 12100 | 0.1 | 20 | X453012 - X4L0253-01 | 30-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 107 | 112 | 4.4 | 20 | X451184 - X4L0217-02 | 20-Dec-24 | |
| SM 2320 B | Bicarbonate | mg/L as CaCO3 | 107 | 112 | 4.4 | 20 | X451184 - X4L0217-02 | 20-Dec-24 | |
| SM 2320 B | Carbonate | mg/L as CaCO3 | <1.0 | <1.0 | UDL | 20 | X451184 - X4L0217-02 | 20-Dec-24 | |
| SM 2320 B | Hydroxide | mg/L as CaCO3 | <1.0 | <1.0 | UDL | 20 | X451184 - X4L0217-02 | 20-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | 502 | 509 | 1.4 | 10 | X451087 - X4L0273-01 | 19-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | <5.0 | <5.0 | <RL | 10 | X451088 - X4L0273-01 | 19-Dec-24 | |
| SM 4500 H B | pH @19.2°C | pH Units | 7.7 | 7.8 | 1.8 | 20 | X451184 - X4L0217-02 | 20-Dec-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 | 472 | 411 | 20.0 | 0.30R>S | 70 - 130 | X452068 - X4L0253-01 | 02-Jan-25 | D11,M4 |
| EPA 200.7 | Calcium | mg/L | 23.4 | 4.26 | 20.0 | 96 | 70 - 130 | X452068 - X4L0272-02 | 02-Jan-25 | |
| EPA 200.7 | Magnesium | mg/L | 576 | 501 | 20.0 | 0.30R>S | 70 - 130 | X452068 - X4L0253-01 | 02-Jan-25 | D11,M4 |
| EPA 200.7 | Magnesium | mg/L | 21.9 | 1.30 | 20.0 | 103 | 70 - 130 | X452068 - X4L0272-02 | 02-Jan-25 | |
| EPA 200.7 | Potassium | mg/L | 23.4 | <2.50 | 20.0 | 107 | 70 - 130 | X452068 - X4L0253-01 | 02-Jan-25 | D11 |
| EPA 200.7 | Potassium | mg/L | 22.0 | <0.50 | 20.0 | 107 | 70 - 130 | X452068 - X4L0272-02 | 02-Jan-25 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 717 | 709 | 1.00 | 0.30R>S | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | M3 |
| EPA 200.7 | Aluminum | mg/L | 1.03 | <0.080 | 1.00 | 103 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 0.934 | 0.0194 | 1.00 | 91.4 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 1.02 | 0.0494 | 1.00 | 96.6 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 1.70 | 0.706 | 1.00 | 99.0 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.976 | <0.00200 | 1.00 | 97.6 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 1.05 | 0.0505 | 1.00 | 99.9 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 1.02 | <0.0400 | 1.00 | 100 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 2.41 | 1.49 | 1.00 | 91.7 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 0.959 | <0.0020 | 1.00 | 95.9 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 452 | 433 | 20.0 | 98.3 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | B7 |
| EPA 200.7 | Calcium | mg/L | 115 | 94.5 | 20.0 | 100 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | B7 |
| EPA 200.7 | Chromium | mg/L | 0.909 | <0.0060 | 1.00 | 90.9 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | 0.966 | <0.0060 | 1.00 | 96.6 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 2.11 | 1.20 | 1.00 | 91.0 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.926 | <0.0060 | 1.00 | 92.6 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 3.30 | 2.25 | 1.00 | 104 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 0.938 | <0.0100 | 1.00 | 93.8 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 21.4 | 12.0 | 10.0 | 94.4 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 9.76 | <0.100 | 10.0 | 97.6 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 1.02 | 0.0818 | 1.00 | 93.8 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 0.949 | <0.0075 | 1.00 | 94.9 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 1.41 | 0.163 | 1.00 | 124 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 0.979 | <0.040 | 1.00 | 97.9 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 386 | 361 | 20.0 | 125 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 45.9 | 25.5 | 20.0 | 102 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | 0.956 | <0.0080 | 1.00 | 95.6 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | 242 | 236 | 1.00 | 0.30R>S | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | M4 |

**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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0253**
Reported: 02-Jan-25 13:12

## 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 | 0.920 | <0.0080 | 1.00 | 92.0 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 0.976 | <0.0080 | 1.00 | 97.6 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 2.97 | 2.03 | 1.00 | 93.3 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 0.891 | <0.0100 | 1.00 | 89.1 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 29.5 | 9.41 | 20.0 | 100 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 21.9 | 2.31 | 20.0 | 98.0 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0350 | <0.0050 | 0.0500 | 70.0 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0530 | <0.0050 | 0.0500 | 106 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 158 | 140 | 19.0 | 98.7 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 40.0 | 21.5 | 19.0 | 97.3 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 1.01 | 0.0218 | 1.00 | 98.5 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 1.00 | <0.0050 | 1.00 | 100 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 37.5 | 36.2 | 1.00 | 0.30R>S | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | M3 |
| EPA 200.7 | Zinc | mg/L | 0.987 | <0.0100 | 1.00 | 98.7 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0353 | 0.00214 | 0.0250 | 133 | 70 - 130 | X451078 - X4L0217-01 | 26-Dec-24 | M1 |
| EPA 200.8 | Arsenic | mg/L | 0.0371 | 0.00177 | 0.0250 | 141 | 70 - 130 | X451078 - X4L0217-01 | 26-Dec-24 | M1 |
| EPA 200.8 | Selenium | mg/L | 0.0360 | <0.00100 | 0.0250 | 142 | 70 - 130 | X451078 - X4L0217-01 | 26-Dec-24 | M1 |
| EPA 200.8 | Thallium | mg/L | 0.0296 | <0.000200 | 0.0250 | 118 | 70 - 130 | X451078 - X4L0217-01 | 26-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | 0.0365 | 0.00434 | 0.0250 | 129 | 70 - 130 | X451078 - X4L0217-01 | 26-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00203 | <0.000200 | 0.00200 | 101 | 70 - 130 | X452043 - X4L0217-01 | 30-Dec-24 | |
| EPA 245.1 | Mercury | mg/L | 0.00203 | <0.000200 | 0.00200 | 102 | 70 - 130 | X452043 - X4L0287-01 | 30-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0830 | <0.0050 | 0.100 | 83.0 | 79 - 121 | X451165 - X4L0165-01 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.104 | <0.0050 | 0.100 | 104 | 90 - 110 | X451170 - X4L0287-01 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.106 | <0.0050 | 0.100 | 102 | 90 - 110 | X451170 - X4L0253-01 | 24-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 1.05 | <0.030 | 1.00 | 105 | 90 - 110 | X451137 - X4L0191-01 | 20-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 1.37 | <0.030 | 1.00 | 137 | 90 - 110 | X451137 - X4L0191-02 | 20-Dec-24 | M1,R2B |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.110 | <0.0050 | 0.100 | 109 | 82 - 118 | X451065 - X4L0191-01 | 18-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 3.38 | 0.40 | 3.00 | 99.0 | 90 - 110 | X451061 - X4L0046-05 | 17-Dec-24 | |
| EPA 300.0 | Chloride | mg/L | 3.51 | 0.49 | 3.00 | 101 | 90 - 110 | X451061 - X4L0046-08 | 17-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 2.10 | <0.100 | 2.00 | 100 | 90 - 110 | X451061 - X4L0046-05 | 17-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 2.21 | 0.186 | 2.00 | 101 | 90 - 110 | X451061 - X4L0046-08 | 17-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.97 | <0.050 | 2.00 | 97.0 | 90 - 110 | X451061 - X4L0046-05 | 17-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.98 | <0.050 | 2.00 | 98.1 | 90 - 110 | X451061 - X4L0046-08 | 17-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.01 | <0.100 | 4.00 | 98.8 | 90 - 110 | X451061 - X4L0046-05 | 17-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.01 | <0.100 | 4.00 | 100 | 90 - 110 | X451061 - X4L0046-08 | 17-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 2.04 | <0.050 | 2.00 | 102 | 90 - 110 | X451061 - X4L0046-05 | 17-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 2.03 | <0.050 | 2.00 | 102 | 90 - 110 | X451061 - X4L0046-08 | 17-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 11.3 | 1.23 | 10.0 | 101 | 90 - 110 | X451061 - X4L0046-05 | 17-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 13.4 | 3.14 | 10.0 | 102 | 90 - 110 | X451061 - X4L0046-08 | 17-Dec-24 | |

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0253**
Reported: 02-Jan-25 13:12

## 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 | 472 | 472 | 20.0 | 0.2 | 20 | 0.30R>S | X452068 - X4L0253-01 | D11,M4 |
| EPA 200.7 | Magnesium | mg/L | 577 | 576 | 20.0 | 0.1 | 20 | 0.30R>S | X452068 - X4L0253-01 | D11,M4 |
| EPA 200.7 | Potassium | mg/L | 23.2 | 23.4 | 20.0 | 1.0 | 20 | 106 | X452068 - X4L0253-01 | D11 |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 715 | 717 | 1.00 | 0.3 | 20 | 0.30R>S | X452020 - X4L0287-01 | M3 |
| EPA 200.7 | Barium | mg/L | 0.939 | 0.934 | 1.00 | 0.6 | 20 | 92.0 | X452020 - X4L0287-01 | |
| EPA 200.7 | Beryllium | mg/L | 1.69 | 1.70 | 1.00 | 0.1 | 20 | 98.8 | X452020 - X4L0287-01 | |
| EPA 200.7 | Boron | mg/L | 1.05 | 1.05 | 1.00 | 0.2 | 20 | 100 | X452020 - X4L0287-01 | |
| EPA 200.7 | Cadmium | mg/L | 2.38 | 2.41 | 1.00 | 1.2 | 20 | 88.7 | X452020 - X4L0287-01 | |
| EPA 200.7 | Calcium | mg/L | 451 | 452 | 20.0 | 0.4 | 20 | 89.7 | X452020 - X4L0287-01 | B7 |
| EPA 200.7 | Chromium | mg/L | 0.909 | 0.909 | 1.00 | 0.1 | 20 | 90.9 | X452020 - X4L0287-01 | |
| EPA 200.7 | Cobalt | mg/L | 2.09 | 2.11 | 1.00 | 1.0 | 20 | 88.8 | X452020 - X4L0287-01 | |
| EPA 200.7 | Copper | mg/L | 3.32 | 3.30 | 1.00 | 0.6 | 20 | 106 | X452020 - X4L0287-01 | |
| EPA 200.7 | Iron | mg/L | 21.5 | 21.4 | 10.0 | 0.3 | 20 | 95.0 | X452020 - X4L0287-01 | |
| EPA 200.7 | Lead | mg/L | 1.00 | 1.02 | 1.00 | 1.9 | 20 | 91.9 | X452020 - X4L0287-01 | |
| EPA 200.7 | Lithium | mg/L | 1.41 | 1.41 | 1.00 | 0.2 | 20 | 125 | X452020 - X4L0287-01 | |
| EPA 200.7 | Magnesium | mg/L | 385 | 386 | 20.0 | 0.2 | 20 | 122 | X452020 - X4L0287-01 | |
| EPA 200.7 | Manganese | mg/L | 243 | 242 | 1.00 | 0.5 | 20 | 0.30R>S | X452020 - X4L0287-01 | M4 |
| EPA 200.7 | Molybdenum | mg/L | 0.913 | 0.920 | 1.00 | 0.8 | 20 | 91.3 | X452020 - X4L0287-01 | |
| EPA 200.7 | Nickel | mg/L | 2.92 | 2.97 | 1.00 | 1.4 | 20 | 89.1 | X452020 - X4L0287-01 | |
| EPA 200.7 | Potassium | mg/L | 29.5 | 29.5 | 20.0 | 0.1 | 20 | 100 | X452020 - X4L0287-01 | |
| EPA 200.7 | Silver | mg/L | 0.0363 | 0.0350 | 0.0500 | 3.7 | 20 | 72.6 | X452020 - X4L0287-01 | |
| EPA 200.7 | Sodium | mg/L | 159 | 158 | 19.0 | 0.1 | 20 | 99.7 | X452020 - X4L0287-01 | |
| EPA 200.7 | Vanadium | mg/L | 1.01 | 1.01 | 1.00 | 0.8 | 20 | 99.3 | X452020 - X4L0287-01 | |
| EPA 200.7 | Zinc | mg/L | 37.1 | 37.5 | 1.00 | 0.9 | 20 | 97.4 | X452020 - X4L0287-01 | |
| EPA 200.8 | Antimony | mg/L | 0.0330 | 0.0353 | 0.0250 | 6.7 | 20 | 124 | X451078 - X4L0217-01 | |
| EPA 200.8 | Arsenic | mg/L | 0.0347 | 0.0371 | 0.0250 | 6.6 | 20 | 132 | X451078 - X4L0217-01 | M1 |
| EPA 200.8 | Selenium | mg/L | 0.0344 | 0.0360 | 0.0250 | 4.5 | 20 | 136 | X451078 - X4L0217-01 | M1 |
| EPA 200.8 | Thallium | mg/L | 0.0279 | 0.0296 | 0.0250 | 6.0 | 20 | 111 | X451078 - X4L0217-01 | |
| EPA 200.8 | Uranium | mg/L | 0.0347 | 0.0365 | 0.0250 | 5.0 | 20 | 122 | X451078 - X4L0217-01 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00202 | 0.00203 | 0.00200 | 0.2 | 20 | 101 | X452043 - X4L0217-01 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0840 | 0.0830 | 0.100 | 1.2 | 11 | 84.0 | X451165 - X4L0165-01 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.104 | 0.104 | 0.100 | 0.6 | 20 | 104 | X451170 - X4L0287-01 | |
| EPA 350.1 | Ammonia as N | mg/L | 1.05 | 1.37 | 1.00 | 26.1 | 20 | 105 | X451137 - X4L0191-02 | R2B |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.108 | 0.110 | 0.100 | 1.8 | 11 | 107 | X451065 - X4L0191-01 | |
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 3.40 | 3.38 | 3.00 | 0.7 | 20 | 99.9 | X451061 - X4L0046-05 | |
| EPA 300.0 | Fluoride | mg/L | 2.11 | 2.10 | 2.00 | 0.5 | 20 | 101 | X451061 - X4L0046-05 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.99 | 1.97 | 2.00 | 0.9 | 20 | 97.9 | X451061 - X4L0046-05 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.04 | 4.01 | 4.00 | 0.8 | 20 | 99.6 | X451061 - X4L0046-05 | |
| EPA 300.0 | Nitrite as N | mg/L | 2.05 | 2.04 | 2.00 | 0.8 | 20 | 103 | X451061 - X4L0046-05 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 11.4 | 11.3 | 10.0 | 0.7 | 20 | 102 | X451061 - X4L0046-05 | |

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| | |
|---|---|
| **Newmont - Cripple Creek & Victor** | **Project Name: Cripple Creek/Victor Water and Soil 2024** |
| Post Office Box 191 | Work Order: **X4L0253** |
| Victor, CO 80860 | Reported: 02-Jan-25 13:12 |

## Notes and Definitions

| | |
|---|---|
| B7 | Target analyte detected in method blank at or above method limit. Concentration found in the sample was 10 times above the concentration found in the method blank. |
| D11 | Due to sample color, a sample dilution was performed to minimize spectral interference. |
| D15 | Due to sample viscosity, a sample dilution was performed. |
| D18 | Due to a published chemical interference, a sample dilution was performed. |
| 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. |
| M1 | Matrix spike recovery was high, but the LCS recovery was acceptable. |
| M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable. |
| 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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| | |
|---|---|
| **Newmont - Cripple Creek & Victor** | **Project Name: Cripple Creek/Victor Water and Soil 2024** |
| Post Office Box 191 | Work Order: **X4L0287** |
| Victor, CO 80860 | Reported: 03-Jan-25 12:55 |

## ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Sampled By | Date Received | Notes |
|---|---|---|---|---|---|---|
| GVMW-33 | X4L0287-01 | Ground Water | 17-Dec-24 11:10 | JC | 18-Dec-2024 | Q5C |
| GVMW-34 | X4L0287-02 | Ground Water | 17-Dec-24 10:25 | JC | 18-Dec-2024 | |
| GVMW-35B | X4L0287-03 | Ground Water | 17-Dec-24 10:05 | JC | 18-Dec-2024 | |
| GVMW-36 | X4L0287-04 | Ground Water | 17-Dec-24 09:26 | JC | 18-Dec-2024 | Q5C |
| GVMW-27 | X4L0287-05 | Ground Water | 17-Dec-24 14:51 | JC | 18-Dec-2024 | |
| GVMW-25 | X4L0287-06 | Ground Water | 17-Dec-24 13:30 | JC | 18-Dec-2024 | Q5C |

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.

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**Newmont - Cripple Creek & Victor**
Post Office Box 191
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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

Client Sample ID: **GVMW-33**
SVL Sample ID: **X4L0287-01 (Ground Water)**



Sampled: 17-Dec-24 11:10
Received: 18-Dec-24
Sampled By: JC

| 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** | 440 | mg/L | 0.500 | 0.345 | 5 | X453022 | NMS | 01/03/25 08:36 | D18 |
| EPA 200.7 | **Magnesium** | 351 | mg/L | 2.50 | 0.450 | 5 | X453022 | NMS | 01/03/25 08:36 | D18 |
| EPA 200.7 | **Potassium** | 9.83 | mg/L | 2.50 | 0.90 | 5 | X453022 | NMS | 01/03/25 08:36 | D18 |
| SM 2340 B | **Hardness (as CaCO3)** | 2530 | mg/L | 10.5 | 2.03 | | N/A | | 12/24/24 12:21 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | **Aluminum** | 709 | mg/L | 0.080 | 0.054 | | X452020 | SJN | 12/24/24 12:21 | M3 |
| EPA 200.7 | **Barium** | 0.0194 | mg/L | 0.0020 | 0.0019 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Beryllium** | 0.706 | mg/L | 0.00200 | 0.00080 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Boron** | 0.0505 | mg/L | 0.0400 | 0.0078 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Cadmium** | 1.49 | mg/L | 0.0020 | 0.0016 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Calcium** | 433 | mg/L | 0.100 | 0.069 | | X452020 | SJN | 12/24/24 12:21 | B7 |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Cobalt** | 1.20 | mg/L | 0.0060 | 0.0046 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Copper** | 2.25 | mg/L | 0.0100 | 0.0027 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Iron** | 12.0 | mg/L | 0.100 | 0.056 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Lead** | 0.0818 | mg/L | 0.0075 | 0.0049 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Lithium** | 0.163 | mg/L | 0.040 | 0.025 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Magnesium** | 361 | mg/L | 0.500 | 0.090 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Manganese** | 236 | mg/L | 0.0800 | 0.0340 | 10 | X452020 | SJN | 12/24/24 14:04 | M4 |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Nickel** | 2.03 | mg/L | 0.0100 | 0.0048 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Potassium** | 9.41 | mg/L | 0.50 | 0.18 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Sodium** | 140 | mg/L | 0.50 | 0.12 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Vanadium** | 0.0218 | mg/L | 0.0050 | 0.0019 | | X452020 | SJN | 12/24/24 12:21 | |
| EPA 200.7 | **Zinc** | 36.2 | mg/L | 0.0100 | 0.0054 | | X452020 | SJN | 12/24/24 12:21 | M3 |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X452003 | JRR | 12/30/24 18:46 | |
| EPA 200.8 | **Arsenic** | 0.241 | mg/L | 0.00100 | 0.00021 | | X452003 | JRR | 12/30/24 18:46 | |
| EPA 200.8 | **Selenium** | 0.0280 | mg/L | 0.00100 | 0.00024 | | X452003 | JRR | 12/30/24 18:46 | |
| EPA 200.8 | Thallium | < 0.00100 | mg/L | 0.00100 | 0.000400 | 5 | X452003 | JRR | 12/30/24 19:50 | D17 |
| EPA 200.8 | **Uranium** | 2.90 | mg/L | 0.000500 | 0.000260 | 5 | X452003 | JRR | 12/31/24 09:31 | M4 |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X452043 | MAC | 12/30/24 13:29 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451165 | DD | 12/24/24 18:01 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451170 | JPM | 12/24/24 10:29 | |
| EPA 350.1 | **Ammonia as N** | 0.339 | mg/L | 0.030 | 0.013 | | X451136 | DD | 12/20/24 11:53 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X452053 | DD | 12/24/24 19:52 | |
| SM 2310 B | **Acidity to pH 8.3** | 4490 | mg/L as CaCO3 | 10.0 | | | X453012 | MWD | 12/30/24 10:36 | |
| SM 2320 B | Total Alkalinity | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:52 | |
| SM 2320 B | Bicarbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:52 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:52 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:52 | |
| SM 2540 C | **Total Diss. Solids** | 10600 | mg/L | 100 | | | X451127 | TJL | 12/20/24 12:55 | |
| SM 2540 D | **Total Susp. Solids** | 14.0 | mg/L | 5.0 | | | X451128 | TJL | 12/20/24 13:55 | |
| SM 4500 H B | **pH @19.4°C** | 3.4 | pH Units | | | | X451184 | MWD | 12/20/24 21:52 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

Client Sample ID: **GVMW-33**
SVL Sample ID: **X4L0287-01 (Ground Water)**



Sampled: 17-Dec-24 11:10
Received: 18-Dec-24
Sampled By: JC

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 6.50 | mg/L | 2.00 | 0.22 | 10 | X451114 | RS | 12/18/24 19:03 | D18 |
| EPA 300.0 | **Fluoride** | 34.4 | mg/L | 1.00 | 0.170 | 10 | X451114 | RS | 12/18/24 19:03 | |
| EPA 300.0 | **Nitrate as N** | 5.14 | mg/L | 0.500 | 0.130 | 10 | X451114 | RS | 12/18/24 19:03 | D18 |
| EPA 300.0 | **Nitrate+Nitrite as N** | 5.14 | mg/L | 1.00 | 0.440 | 10 | X451114 | RS | 12/18/24 19:03 | |
| EPA 300.0 | Nitrite as N | < 0.500 | mg/L | 0.500 | 0.310 | 10 | X451114 | RS | 12/18/24 19:03 | D18 |
| EPA 300.0 | **Sulfate as SO4** | 7430 | mg/L | 75.0 | 45.0 | 250 | X451114 | RS | 12/18/24 19:19 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 147 meq/L  Anion Sum: 157 meq/L  C/A Balance: -3.44 %  Calculated TDS: 8436  TDS/cTDS: 1.26

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

Client Sample ID: **GVMW-34**
SVL Sample ID: **X4L0287-02 (Ground Water)**



Sampled: 17-Dec-24 10:25
Received: 18-Dec-24
Sampled By: JC

| 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** | 647 | mg/L | 1.00 | 0.690 | 10 | X453022 | NMS | 01/03/25 09:56 | D18 |
| EPA 200.7 | **Magnesium** | 271 | mg/L | 5.00 | 0.900 | 10 | X453022 | NMS | 01/03/25 09:56 | D18 |
| EPA 200.7 | **Potassium** | 4.74 | mg/L | 0.50 | 0.18 | | X453022 | NMS | 01/03/25 08:39 | |
| SM 2340 B | **Hardness (as CaCO3)** | 2670 | mg/L | 20.8 | 3.88 | | N/A | | 12/24/24 12:35 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | **Aluminum** | 10.7 | mg/L | 0.080 | 0.054 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | **Barium** | 0.0303 | mg/L | 0.0020 | 0.0019 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | **Beryllium** | 0.0115 | mg/L | 0.00200 | 0.00080 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | **Boron** | 0.0477 | mg/L | 0.0400 | 0.0078 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | **Cadmium** | 0.0466 | mg/L | 0.0020 | 0.0016 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | **Calcium** | 623 | mg/L | 0.100 | 0.069 | | X452020 | SJN | 12/24/24 12:35 | B7 |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | **Cobalt** | 0.0412 | mg/L | 0.0060 | 0.0046 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | Iron | < 0.100 | mg/L | 0.100 | 0.056 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | **Lithium** | 0.088 | mg/L | 0.040 | 0.025 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | **Magnesium** | 284 | mg/L | 0.500 | 0.090 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | **Manganese** | 59.5 | mg/L | 0.0080 | 0.0034 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | **Nickel** | 0.244 | mg/L | 0.0100 | 0.0048 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | **Potassium** | 4.34 | mg/L | 0.50 | 0.18 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | **Sodium** | 43.7 | mg/L | 0.50 | 0.12 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.7 | **Zinc** | 6.45 | mg/L | 0.0100 | 0.0054 | | X452020 | SJN | 12/24/24 12:35 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X452003 | JRR | 12/30/24 18:53 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X452003 | JRR | 12/30/24 18:53 | |
| EPA 200.8 | **Selenium** | 0.0133 | mg/L | 0.00100 | 0.00024 | | X452003 | JRR | 12/30/24 18:53 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X452003 | JRR | 12/30/24 18:53 | |
| EPA 200.8 | **Uranium** | 0.0273 | mg/L | 0.000100 | 0.000052 | | X452003 | JRR | 12/30/24 18:53 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X452043 | MAC | 12/30/24 13:32 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451165 | DD | 12/24/24 18:03 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451170 | JPM | 12/24/24 10:32 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451136 | DD | 12/20/24 11:56 | |
| OIA 1677 | **Cyanide (WAD)** | 0.0080 | mg/L | 0.0050 | 0.0010 | | X452053 | DD | 12/24/24 19:54 | |
| SM 2310 B | **Acidity to pH 8.3** | -218 | mg/L as CaCO3 | 10.0 | | | X453012 | MWD | 12/30/24 10:36 | |
| SM 2320 B | **Total Alkalinity** | 219 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:57 | |
| SM 2320 B | **Bicarbonate** | 219 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:57 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:57 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 21:57 | |
| SM 2540 C | **Total Diss. Solids** | 4510 | mg/L | 40 | | | X451127 | TJL | 12/20/24 12:55 | |
| SM 2540 D | **Total Susp. Solids** | 48.0 | mg/L | 5.0 | | | X451128 | TJL | 12/20/24 13:55 | |
| SM 4500 H B | **pH @19.5°C** | 6.2 | pH Units | | | | X451184 | MWD | 12/20/24 21:57 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

Client Sample ID: **GVMW-34**
SVL Sample ID: **X4L0287-02 (Ground Water)**



Sampled: 17-Dec-24 10:25
Received: 18-Dec-24
Sampled By: JC

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 28.7 | mg/L | 1.00 | 0.11 | 5 | X451114 | RS | 12/18/24 19:36 | |
| EPA 300.0 | **Fluoride** | 20.4 | mg/L | 0.500 | 0.085 | 5 | X451114 | RS | 12/18/24 19:36 | |
| EPA 300.0 | **Nitrate as N** | 10.5 | mg/L | 0.250 | 0.065 | 5 | X451114 | RS | 12/18/24 19:36 | |
| EPA 300.0 | **Nitrate+Nitrite as N** | 10.5 | mg/L | 0.500 | 0.220 | 5 | X451114 | RS | 12/18/24 19:36 | |
| EPA 300.0 | Nitrite as N | < 0.250 | mg/L | 0.250 | 0.155 | 5 | X451114 | RS | 12/18/24 19:36 | D18 |
| EPA 300.0 | **Sulfate as SO4** | 2670 | mg/L | 30.0 | 18.0 | 100 | X451114 | RS | 12/18/24 19:53 | |
| **Cation/Anion Balance and TDS Ratios** | | | | | | | | | | |

Cation Sum: 59.0 meq/L  Anion Sum: 62.6 meq/L  C/A Balance: -2.98 %  Calculated TDS: 3858  TDS/cTDS: 1.17

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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Kellogg, ID 83837-0929
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**Newmont - Cripple Creek & Victor**
Post Office Box 191
Victor, CO 80860

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

Client Sample ID: **GVMW-35B**
SVL Sample ID: **X4L0287-03 (Ground Water)**



Sampled: 17-Dec-24 10:05
Received: 18-Dec-24
Sampled By: JC

| 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** | 392 | mg/L | 0.100 | 0.069 | | X453022 | NMS | 01/03/25 08:43 | |
| EPA 200.7 | **Magnesium** | 114 | mg/L | 0.500 | 0.090 | | X453022 | NMS | 01/03/25 08:43 | |
| EPA 200.7 | **Potassium** | 4.34 | mg/L | 0.50 | 0.18 | | X453022 | NMS | 01/03/25 08:43 | |
| SM 2340 B | **Hardness (as CaCO3)** | 1410 | mg/L | 2.31 | 0.543 | | N/A | | 12/24/24 12:39 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | < 0.080 | mg/L | 0.080 | 0.054 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | **Barium** | 0.0138 | mg/L | 0.0020 | 0.0019 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | Beryllium | < 0.00200 | mg/L | 0.00200 | 0.00080 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | Cadmium | < 0.0020 | mg/L | 0.0020 | 0.0016 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | **Calcium** | 377 | mg/L | 0.100 | 0.069 | | X452020 | SJN | 12/24/24 12:39 | B7 |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | Cobalt | < 0.0060 | mg/L | 0.0060 | 0.0046 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | Copper | < 0.0100 | mg/L | 0.0100 | 0.0027 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | Iron | < 0.100 | mg/L | 0.100 | 0.056 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | Lead | < 0.0075 | mg/L | 0.0075 | 0.0049 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | **Magnesium** | 107 | mg/L | 0.500 | 0.090 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | **Manganese** | 0.742 | mg/L | 0.0080 | 0.0034 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | Nickel | < 0.0100 | mg/L | 0.0100 | 0.0048 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | **Potassium** | 3.59 | mg/L | 0.50 | 0.18 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | **Sodium** | 15.1 | mg/L | 0.50 | 0.12 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.7 | Zinc | < 0.0100 | mg/L | 0.0100 | 0.0054 | | X452020 | SJN | 12/24/24 12:39 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X452003 | JRR | 12/30/24 18:56 | |
| EPA 200.8 | Arsenic | < 0.00100 | mg/L | 0.00100 | 0.00021 | | X452003 | JRR | 12/30/24 18:56 | |
| EPA 200.8 | **Selenium** | 0.00432 | mg/L | 0.00100 | 0.00024 | | X452003 | JRR | 12/30/24 18:56 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X452003 | JRR | 12/30/24 18:56 | |
| EPA 200.8 | **Uranium** | 0.00574 | mg/L | 0.000100 | 0.000052 | | X452003 | JRR | 12/30/24 18:56 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X452043 | MAC | 12/30/24 13:34 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451165 | DD | 12/24/24 18:05 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451170 | JPM | 12/24/24 10:34 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451136 | DD | 12/20/24 11:58 | |
| OIA 1677 | **Cyanide (WAD)** | 0.0080 | mg/L | 0.0050 | 0.0010 | | X452053 | DD | 12/24/24 19:55 | |
| SM 2310 B | **Acidity to pH 8.3** | -58.0 | mg/L as CaCO3 | 10.0 | | | X453012 | MWD | 12/30/24 10:36 | |
| SM 2320 B | **Total Alkalinity** | 57.6 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:11 | |
| SM 2320 B | **Bicarbonate** | 57.6 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:11 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:11 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:11 | |
| SM 2540 C | **Total Diss. Solids** | 2030 | mg/L | 40 | | | X451127 | TJL | 12/20/24 12:55 | |
| SM 2540 D | **Total Susp. Solids** | 132 | mg/L | 5.0 | | | X451128 | TJL | 12/20/24 13:55 | |
| SM 4500 H B | **pH @19.4°C** | 8.1 | pH Units | | | | X451184 | MWD | 12/20/24 22:11 | H5 |

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

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Kellogg, ID 83837-0929
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**Newmont - Cripple Creek & Victor**
Post Office Box 191
Victor, CO 80860

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

Client Sample ID: **GVMW-35B**
SVL Sample ID: **X4L0287-03 (Ground Water)**



Sampled: 17-Dec-24 10:05
Received: 18-Dec-24
Sampled By: JC

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 82.9 | mg/L | 10.0 | 1.10 | 50 | X451114 | RS | 12/19/24 02:13 | |
| EPA 300.0 | Fluoride | < 0.100 | mg/L | 0.100 | 0.017 | | X451114 | RS | 12/19/24 01:57 | |
| EPA 300.0 | **Nitrate as N** | 11.0 | mg/L | 2.50 | 0.650 | 50 | X451114 | RS | 12/19/24 02:13 | |
| EPA 300.0 | **Nitrate+Nitrite as N** | 11.1 | mg/L | 0.100 | 0.044 | | X451114 | RS | 12/19/24 01:57 | |
| EPA 300.0 | **Nitrite as N** | 0.073 | mg/L | 0.050 | 0.031 | | X451114 | RS | 12/19/24 01:57 | |
| EPA 300.0 | **Sulfate as SO4** | 1250 | mg/L | 15.0 | 9.00 | 50 | X451114 | RS | 12/19/24 02:13 | |
| **Cation/Anion Balance and TDS Ratios** | | | | | | | | | | |

Cation Sum: 28.4 meq/L  Anion Sum: 30.3 meq/L  C/A Balance: -3.24 %  Calculated TDS: 1931  TDS/cTDS: 1.05

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

Client Sample ID: **GVMW-36**
SVL Sample ID: **X4L0287-04 (Ground Water)**



Sampled: 17-Dec-24 09:26
Received: 18-Dec-24
Sampled By: JC

| 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** | 428 | mg/L | 1.00 | 0.690 | 10 | X453022 | NMS | 01/03/25 10:00 | D18 |
| EPA 200.7 | **Magnesium** | 590 | mg/L | 5.00 | 0.900 | 10 | X453022 | NMS | 01/03/25 10:00 | D18 |
| EPA 200.7 | **Potassium** | 9.28 | mg/L | 5.00 | 1.80 | 10 | X453022 | NMS | 01/03/25 10:00 | D18 |
| SM 2340 B | **Hardness (as CaCO3)** | 3500 | mg/L | 20.8 | 3.88 | | N/A | | 12/24/24 12:42 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | **Aluminum** | 1050 | mg/L | 0.800 | 0.540 | 10 | X452020 | SJN | 12/24/24 14:20 | |
| EPA 200.7 | **Barium** | 0.0160 | mg/L | 0.0020 | 0.0019 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Beryllium** | 0.245 | mg/L | 0.00200 | 0.00080 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Boron** | 0.0515 | mg/L | 0.0400 | 0.0078 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Cadmium** | 2.16 | mg/L | 0.0020 | 0.0016 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Calcium** | 429 | mg/L | 0.100 | 0.069 | | X452020 | SJN | 12/24/24 12:42 | B7 |
| EPA 200.7 | **Chromium** | 0.196 | mg/L | 0.0060 | 0.0020 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Cobalt** | 4.52 | mg/L | 0.0060 | 0.0046 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Copper** | 5.20 | mg/L | 0.0100 | 0.0027 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Iron** | 25.8 | mg/L | 0.100 | 0.056 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Lead** | 0.175 | mg/L | 0.0075 | 0.0049 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Lithium** | 0.390 | mg/L | 0.040 | 0.025 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Magnesium** | 662 | mg/L | 0.500 | 0.090 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Manganese** | 256 | mg/L | 0.0800 | 0.0340 | 10 | X452020 | SJN | 12/24/24 14:20 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Nickel** | 3.87 | mg/L | 0.0100 | 0.0048 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Potassium** | 9.08 | mg/L | 0.50 | 0.18 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Sodium** | 59.6 | mg/L | 0.50 | 0.12 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X452020 | SJN | 12/24/24 12:42 | |
| EPA 200.7 | **Zinc** | 99.2 | mg/L | 0.100 | 0.0540 | 10 | X452020 | SJN | 12/24/24 14:20 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X452003 | JRR | 12/30/24 18:59 | |
| EPA 200.8 | **Arsenic** | 0.0883 | mg/L | 0.00100 | 0.00021 | | X452003 | JRR | 12/30/24 18:59 | |
| EPA 200.8 | **Selenium** | 0.0180 | mg/L | 0.00100 | 0.00024 | | X452003 | JRR | 12/30/24 18:59 | |
| EPA 200.8 | Thallium | < 0.00200 | mg/L | 0.00200 | 0.000800 | 10 | X452003 | JRR | 12/30/24 19:56 | D17 |
| EPA 200.8 | **Uranium** | 5.45 | mg/L | 0.00100 | 0.000520 | 10 | X452003 | JRR | 12/31/24 09:37 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X452043 | MAC | 12/30/24 13:36 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451165 | DD | 12/24/24 18:07 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451170 | JPM | 12/24/24 10:37 | |
| EPA 350.1 | **Ammonia as N** | 0.122 | mg/L | 0.030 | 0.013 | | X451136 | DD | 12/20/24 12:00 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X452053 | DD | 12/24/24 19:57 | |
| SM 2310 B | **Acidity to pH 8.3** | 6190 | mg/L as CaCO3 | 10.0 | | | X453012 | MWD | 12/30/24 10:36 | |
| SM 2320 B | Total Alkalinity | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:17 | |
| SM 2320 B | Bicarbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:17 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:17 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:17 | |
| SM 2540 C | **Total Diss. Solids** | 14500 | mg/L | 100 | | | X451127 | TJL | 12/20/24 12:55 | |
| SM 2540 D | **Total Susp. Solids** | 36.0 | mg/L | 5.0 | | | X451128 | TJL | 12/20/24 13:55 | |
| SM 4500 H B | **pH @19.5°C** | 3.3 | pH Units | | | | X451184 | MWD | 12/20/24 22:17 | H5 |

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

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**Newmont - Cripple Creek & Victor**
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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

Client Sample ID: **GVMW-36**
SVL Sample ID: **X4L0287-04 (Ground Water)**



Sampled: 17-Dec-24 09:26
Received: 18-Dec-24
Sampled By: JC

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 10.7 | mg/L | 2.00 | 0.22 | 10 | X451114 | RS | 12/18/24 20:59 | D18 |
| EPA 300.0 | **Fluoride** | 136 | mg/L | 25.0 | 4.25 | 250 | X451114 | RS | 12/18/24 21:15 | |
| EPA 300.0 | **Nitrate as N** | 3.05 | mg/L | 0.500 | 0.130 | 10 | X451114 | RS | 12/18/24 20:59 | D18 |
| EPA 300.0 | **Nitrate+Nitrite as N** | 3.05 | mg/L | 1.00 | 0.440 | 10 | X451114 | RS | 12/18/24 20:59 | |
| EPA 300.0 | Nitrite as N | < 0.500 | mg/L | 0.500 | 0.310 | 10 | X451114 | RS | 12/18/24 20:59 | D18 |
| EPA 300.0 | **Sulfate as SO4** | 10100 | mg/L | 75.0 | 45.0 | 250 | X451114 | RS | 12/18/24 21:15 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 203 meq/L  Anion Sum: 218 meq/L  C/A Balance: -3.55 %  Calculated TDS: 11383  TDS/cTDS: 1.27

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

Client Sample ID: **GVMW-27**
SVL Sample ID: **X4L0287-05 (Ground Water)**



Sampled: 17-Dec-24 14:51
Received: 18-Dec-24
Sampled By: JC

| 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** | 419 | mg/L | 1.00 | 0.690 | 10 | X453022 | NMS | 01/03/25 10:04 | D18 |
| EPA 200.7 | **Magnesium** | 163 | mg/L | 5.00 | 0.900 | 10 | X453022 | NMS | 01/03/25 10:04 | D18 |
| EPA 200.7 | **Potassium** | 5.80 | mg/L | 5.00 | 1.80 | 10 | X453022 | NMS | 01/03/25 10:04 | D18 |
| SM 2340 B | **Hardness (as CaCO3)** | 1710 | mg/L | 20.8 | 3.88 | | N/A | | 12/24/24 12:46 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | **Aluminum** | 190 | mg/L | 0.080 | 0.054 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | **Barium** | 0.0130 | mg/L | 0.0020 | 0.0019 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | **Beryllium** | 0.147 | mg/L | 0.00200 | 0.00080 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | Boron | < 0.0400 | mg/L | 0.0400 | 0.0078 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | **Cadmium** | 0.419 | mg/L | 0.0020 | 0.0016 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | **Calcium** | 418 | mg/L | 0.100 | 0.069 | | X452020 | SJN | 12/24/24 12:46 | B7 |
| EPA 200.7 | Chromium | < 0.0060 | mg/L | 0.0060 | 0.0020 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | **Cobalt** | 0.413 | mg/L | 0.0060 | 0.0046 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | **Copper** | 0.521 | mg/L | 0.0100 | 0.0027 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | **Iron** | 6.69 | mg/L | 0.100 | 0.056 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | **Lead** | 0.0141 | mg/L | 0.0075 | 0.0049 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | Lithium | < 0.040 | mg/L | 0.040 | 0.025 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | **Magnesium** | 174 | mg/L | 0.500 | 0.090 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | **Manganese** | 68.9 | mg/L | 0.0080 | 0.0034 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | **Nickel** | 0.653 | mg/L | 0.0100 | 0.0048 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | **Potassium** | 5.68 | mg/L | 0.50 | 0.18 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | **Sodium** | 48.2 | mg/L | 0.50 | 0.12 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.7 | **Zinc** | 17.1 | mg/L | 0.0100 | 0.0054 | | X452020 | SJN | 12/24/24 12:46 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X452003 | JRR | 12/30/24 19:02 | |
| EPA 200.8 | **Arsenic** | 0.0458 | mg/L | 0.00100 | 0.00021 | | X452003 | JRR | 12/30/24 19:02 | |
| EPA 200.8 | **Selenium** | 0.00431 | mg/L | 0.00100 | 0.00024 | | X452003 | JRR | 12/30/24 19:02 | |
| EPA 200.8 | Thallium | < 0.000200 | mg/L | 0.000200 | 0.00008 | | X452003 | JRR | 12/30/24 19:02 | |
| EPA 200.8 | **Uranium** | 0.719 | mg/L | 0.000100 | 0.000052 | | X452003 | JRR | 12/30/24 19:02 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X452043 | MAC | 12/30/24 13:38 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451165 | DD | 12/24/24 18:09 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451170 | JPM | 12/24/24 10:40 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451136 | DD | 12/20/24 12:03 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X452053 | DD | 12/24/24 19:58 | |
| SM 2310 B | **Acidity to pH 8.3** | 1280 | mg/L as CaCO3 | 10.0 | | | X453012 | MWD | 12/30/24 10:36 | |
| SM 2320 B | Total Alkalinity | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:23 | |
| SM 2320 B | Bicarbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:23 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:23 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:23 | |
| SM 2540 C | **Total Diss. Solids** | 4290 | mg/L | 40 | | | X451127 | TJL | 12/20/24 12:55 | |
| SM 2540 D | **Total Susp. Solids** | 6.0 | mg/L | 5.0 | | | X451128 | TJL | 12/20/24 13:55 | |
| SM 4500 H B | **pH @19.4°C** | 4.0 | pH Units | | | | X451184 | MWD | 12/20/24 22:23 | 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: **X4L0287**
Reported: 03-Jan-25 12:55

Client Sample ID: **GVMW-27**
SVL Sample ID: **X4L0287-05 (Ground Water)**



Sampled: 17-Dec-24 14:51
Received: 18-Dec-24
Sampled By: JC

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 29.0 | mg/L | 1.00 | 0.11 | 5 | X451114 | RS | 12/18/24 21:32 | |
| EPA 300.0 | **Fluoride** | 7.59 | mg/L | 0.500 | 0.085 | 5 | X451114 | RS | 12/18/24 21:32 | |
| EPA 300.0 | **Nitrate as N** | 1.56 | mg/L | 0.250 | 0.065 | 5 | X451114 | RS | 12/18/24 21:32 | D18 |
| EPA 300.0 | **Nitrate+Nitrite as N** | 1.56 | mg/L | 0.500 | 0.220 | 5 | X451114 | RS | 12/18/24 21:32 | |
| EPA 300.0 | Nitrite as N | < 0.250 | mg/L | 0.250 | 0.155 | 5 | X451114 | RS | 12/18/24 21:32 | D18 |
| EPA 300.0 | **Sulfate as SO4** | 2970 | mg/L | 30.0 | 18.0 | 100 | X451114 | RS | 12/18/24 21:48 | |
| **Cation/Anion Balance and TDS Ratios** | | | | | | | | | | |

Cation Sum: 62.1 meq/L  Anion Sum: 63.2 meq/L  C/A Balance: -0.85 %  Calculated TDS: 3654  TDS/cTDS: 1.17

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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**Newmont - Cripple Creek & Victor**
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Victor, CO 80860

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

Client Sample ID: **GVMW-25**
SVL Sample ID: **X4L0287-06 (Ground Water)**



Sampled: 17-Dec-24 13:30
Received: 18-Dec-24
Sampled By: JC

| 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** | 485 | mg/L | 1.00 | 0.690 | 10 | X453022 | NMS | 01/03/25 10:07 | D18 |
| EPA 200.7 | **Magnesium** | 417 | mg/L | 5.00 | 0.900 | 10 | X453022 | NMS | 01/03/25 10:07 | D18 |
| EPA 200.7 | **Potassium** | 7.34 | mg/L | 5.00 | 1.80 | 10 | X453022 | NMS | 01/03/25 10:07 | D18 |
| SM 2340 B | **Hardness (as CaCO3)** | 2940 | mg/L | 2.31 | 0.543 | | N/A | | 01/03/25 10:07 | |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | **Aluminum** | 995 | mg/L | 0.800 | 0.540 | 10 | X452020 | SJN | 12/24/24 14:23 | |
| EPA 200.7 | **Barium** | 0.0166 | mg/L | 0.0020 | 0.0019 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Beryllium** | 0.615 | mg/L | 0.00200 | 0.00080 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Boron** | 0.0443 | mg/L | 0.0400 | 0.0078 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Cadmium** | 1.76 | mg/L | 0.0020 | 0.0016 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Calcium** | 473 | mg/L | 0.100 | 0.069 | | X452020 | SJN | 12/24/24 12:50 | B7 |
| EPA 200.7 | **Chromium** | 0.0484 | mg/L | 0.0060 | 0.0020 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Cobalt** | 2.10 | mg/L | 0.0060 | 0.0046 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Copper** | 4.01 | mg/L | 0.0100 | 0.0027 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Iron** | 6.90 | mg/L | 0.100 | 0.056 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Lead** | 0.0521 | mg/L | 0.0075 | 0.0049 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Lithium** | 0.191 | mg/L | 0.040 | 0.025 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Magnesium** | 428 | mg/L | 0.500 | 0.090 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Manganese** | 254 | mg/L | 0.0800 | 0.0340 | 10 | X452020 | SJN | 12/24/24 14:23 | |
| EPA 200.7 | Molybdenum | < 0.0080 | mg/L | 0.0080 | 0.0034 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Nickel** | 2.72 | mg/L | 0.0100 | 0.0048 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Potassium** | 6.84 | mg/L | 0.50 | 0.18 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | Silver | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Sodium** | 40.8 | mg/L | 0.50 | 0.12 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | Vanadium | < 0.0050 | mg/L | 0.0050 | 0.0019 | | X452020 | SJN | 12/24/24 12:50 | |
| EPA 200.7 | **Zinc** | 72.9 | mg/L | 0.100 | 0.0540 | 10 | X452020 | SJN | 12/24/24 14:23 | |
| EPA 200.8 | Antimony | < 0.00100 | mg/L | 0.00100 | 0.00072 | | X452003 | JRR | 12/30/24 19:05 | |
| EPA 200.8 | **Arsenic** | 0.185 | mg/L | 0.00100 | 0.00021 | | X452003 | JRR | 12/30/24 19:05 | |
| EPA 200.8 | **Selenium** | 0.0151 | mg/L | 0.00100 | 0.00024 | | X452003 | JRR | 12/30/24 19:05 | |
| EPA 200.8 | Thallium | < 0.00200 | mg/L | 0.00200 | 0.000800 | 10 | X452003 | JRR | 12/30/24 19:59 | D17 |
| EPA 200.8 | **Uranium** | 3.57 | mg/L | 0.00100 | 0.000520 | 10 | X452003 | JRR | 12/31/24 09:41 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | < 0.000200 | mg/L | 0.000200 | 0.000093 | | X452043 | MAC | 12/30/24 13:40 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | < 0.0050 | mg/L | 0.0050 | 0.0048 | | X451165 | DD | 12/24/24 18:17 | |
| EPA 335.4 | Cyanide (total) | < 0.0050 | mg/L | 0.0050 | 0.0038 | | X451170 | JPM | 12/24/24 10:42 | |
| EPA 350.1 | Ammonia as N | < 0.030 | mg/L | 0.030 | 0.013 | | X451136 | DD | 12/20/24 12:05 | |
| OIA 1677 | Cyanide (WAD) | < 0.0050 | mg/L | 0.0050 | 0.0010 | | X452053 | DD | 12/24/24 20:00 | |
| SM 2310 B | **Acidity to pH 8.3** | 6170 | mg/L as CaCO3 | 10.0 | | | X453012 | MWD | 12/30/24 10:36 | |
| SM 2320 B | Total Alkalinity | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:28 | |
| SM 2320 B | Bicarbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:28 | |
| SM 2320 B | Carbonate | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:28 | |
| SM 2320 B | Hydroxide | < 1.0 | mg/L as CaCO3 | 1.0 | | | X451184 | MWD | 12/20/24 22:28 | |
| SM 2540 C | **Total Diss. Solids** | 12300 | mg/L | 100 | | | X451127 | TJL | 12/20/24 12:55 | |
| SM 2540 D | **Total Susp. Solids** | 38.0 | mg/L | 5.0 | | | X451128 | TJL | 12/20/24 13:55 | |
| SM 4500 H B | **pH @19.4°C** | 3.4 | pH Units | | | | X451184 | MWD | 12/20/24 22:28 | H5 |

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

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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

Client Sample ID: **GVMW-25**
SVL Sample ID: **X4L0287-06 (Ground Water)**



Sampled: 17-Dec-24 13:30
Received: 18-Dec-24
Sampled By: JC

| Method | Analyte | Result | Units | RL | MDL | Dilution | Batch | Analyst | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | **Chloride** | 19.8 | mg/L | 2.00 | 0.22 | 10 | X451114 | RS | 12/18/24 22:05 | |
| EPA 300.0 | **Fluoride** | 96.9 | mg/L | 25.0 | 4.25 | 250 | X451114 | RS | 12/18/24 22:21 | |
| EPA 300.0 | **Nitrate as N** | 3.93 | mg/L | 0.500 | 0.130 | 10 | X451114 | RS | 12/18/24 22:05 | D18 |
| EPA 300.0 | **Nitrate+Nitrite as N** | 3.93 | mg/L | 1.00 | 0.440 | 10 | X451114 | RS | 12/18/24 22:05 | |
| EPA 300.0 | Nitrite as N | < 0.500 | mg/L | 0.500 | 0.310 | 10 | X451114 | RS | 12/18/24 22:05 | D18 |
| EPA 300.0 | **Sulfate as SO4** | 9430 | mg/L | 75.0 | 45.0 | 250 | X451114 | RS | 12/18/24 22:21 | |

**Cation/Anion Balance and TDS Ratios**

Cation Sum: 183 meq/L  Anion Sum: 202 meq/L  C/A Balance: -4.93 %  Calculated TDS: 10513  TDS/cTDS: 1.17

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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**Newmont - Cripple Creek & Victor**
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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

## 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 | X453022 | 03-Jan-25 | |
| EPA 200.7 | Magnesium | mg/L | <0.500 | 0.090 | 0.500 | X453022 | 03-Jan-25 | |
| EPA 200.7 | Potassium | mg/L | <0.50 | 0.18 | 0.50 | X453022 | 03-Jan-25 | |
| **Metals (Dissolved)** | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | <0.080 | 0.054 | 0.080 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Barium | mg/L | <0.0020 | 0.0019 | 0.0020 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | <0.00200 | 0.00080 | 0.00200 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Boron | mg/L | <0.0400 | 0.0078 | 0.0400 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | <0.0020 | 0.0016 | 0.0020 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 0.182 | 0.069 | 0.100 | X452020 | 24-Dec-24 | B7 |
| EPA 200.7 | Chromium | mg/L | <0.0060 | 0.0020 | 0.0060 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | <0.0060 | 0.0046 | 0.0060 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Copper | mg/L | <0.0100 | 0.0027 | 0.0100 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Iron | mg/L | <0.100 | 0.056 | 0.100 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Lead | mg/L | <0.0075 | 0.0049 | 0.0075 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | <0.040 | 0.025 | 0.040 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | <0.500 | 0.090 | 0.500 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | <0.0080 | 0.0034 | 0.0080 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | <0.0080 | 0.0034 | 0.0080 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | <0.0100 | 0.0048 | 0.0100 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | <0.50 | 0.18 | 0.50 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Silver | mg/L | <0.0050 | 0.0019 | 0.0050 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | <0.50 | 0.12 | 0.50 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | <0.0050 | 0.0019 | 0.0050 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | <0.0100 | 0.0054 | 0.0100 | X452020 | 24-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | <0.00100 | 0.00072 | 0.00100 | X452003 | 30-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | <0.00100 | 0.00021 | 0.00100 | X452003 | 30-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | <0.00100 | 0.00024 | 0.00100 | X452003 | 30-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | <0.000200 | 0.00008 | 0.000200 | X452003 | 30-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | <0.000100 | 0.000052 | 0.000100 | X452003 | 30-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | <0.000200 | 0.000093 | 0.000200 | X452043 | 30-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | <0.0050 | 0.0048 | 0.0050 | X451165 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | <0.0050 | 0.0038 | 0.0050 | X451170 | 24-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | <0.030 | 0.013 | 0.030 | X451136 | 20-Dec-24 | |
| OIA 1677 | Cyanide (WAD) | mg/L | <0.0050 | 0.0010 | 0.0050 | X452053 | 24-Dec-24 | |
| SM 2310 B | Acidity to pH 8.3 | mg/L as CaCO3 | <10.0 | | 10.0 | X453012 | 30-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | <1.0 | | 1.0 | X451184 | 20-Dec-24 | |
| SM 2320 B | Bicarbonate | mg/L as CaCO3 | <1.0 | | 1.0 | X451184 | 20-Dec-24 | |
| SM 2320 B | Carbonate | mg/L as CaCO3 | <1.0 | | 1.0 | X451184 | 20-Dec-24 | |
| SM 2320 B | Hydroxide | mg/L as CaCO3 | <1.0 | | 1.0 | X451184 | 20-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | <10 | | 10 | X451127 | 20-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | <5.0 | | 5.0 | X451128 | 20-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | <0.20 | 0.02 | 0.20 | X451114 | 18-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | <0.100 | 0.017 | 0.100 | X451114 | 18-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | <0.050 | 0.013 | 0.050 | X451114 | 18-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | <0.100 | 0.044 | 0.100 | X451114 | 18-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | <0.050 | 0.031 | 0.050 | X451114 | 18-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | <0.30 | 0.18 | 0.30 | X451114 | 18-Dec-24 | |

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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

## Quality Control - LABORATORY CONTROL SAMPLE Data

| Method | Analyte | Units | LCS Result | LCS True | % Rec. | Acceptance Limits | Batch ID | Analyzed | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **Metals (Total Recoverable--reportable as Total per 40 CFR 136)** | | | | | | | | | |
| EPA 200.7 | Calcium | mg/L | 20.1 | 20.0 | 100 | 85 - 115 | X453022 | 03-Jan-25 | |
| EPA 200.7 | Magnesium | mg/L | 20.2 | 20.0 | 101 | 85 - 115 | X453022 | 03-Jan-25 | |
| EPA 200.7 | Potassium | mg/L | 20.5 | 20.0 | 102 | 85 - 115 | X453022 | 03-Jan-25 | |
| **Metals (Dissolved)** | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 0.990 | 1.00 | 99.0 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 0.967 | 1.00 | 96.7 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.969 | 1.00 | 96.9 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 0.981 | 1.00 | 98.1 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 0.963 | 1.00 | 96.3 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 19.1 | 20.0 | 95.7 | 85 - 115 | X452020 | 24-Dec-24 | B7 |
| EPA 200.7 | Chromium | mg/L | 0.960 | 1.00 | 96.0 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.946 | 1.00 | 94.6 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 0.943 | 1.00 | 94.3 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 9.70 | 10.0 | 97.0 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 0.959 | 1.00 | 95.9 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 0.931 | 1.00 | 93.1 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 18.6 | 20.0 | 92.9 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | 0.951 | 1.00 | 95.1 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 0.972 | 1.00 | 97.2 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 0.933 | 1.00 | 93.3 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 19.6 | 20.0 | 98.1 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0510 | 0.0500 | 102 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 18.5 | 19.0 | 97.2 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 0.989 | 1.00 | 98.9 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 0.975 | 1.00 | 97.5 | 85 - 115 | X452020 | 24-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0257 | 0.0250 | 103 | 85 - 115 | X452003 | 30-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | 0.0238 | 0.0250 | 95.4 | 85 - 115 | X452003 | 30-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | 0.0224 | 0.0250 | 89.7 | 85 - 115 | X452003 | 30-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | 0.0262 | 0.0250 | 105 | 85 - 115 | X452003 | 30-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | 0.0264 | 0.0250 | 106 | 85 - 115 | X452003 | 30-Dec-24 | |
| **Metals (Filtered)** | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00194 | 0.00200 | 97.2 | 85 - 115 | X452043 | 30-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.102 | 0.100 | 102 | 90 - 110 | X451165 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.0984 | 0.100 | 98.4 | 90 - 110 | X451170 | 24-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 1.09 | 1.00 | 109 | 90 - 110 | X451136 | 20-Dec-24 | |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.103 | 0.100 | 103 | 90 - 110 | X452053 | 24-Dec-24 | |
| SM 2310 B | Acidity to pH 8.3 | mg/L as CaCO3 | 718 | 706 | 102 | 95.4 - 104 | X453012 | 30-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 10.2 | 9.93 | 103 | 96.4 - 105 | X451184 | 20-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 101 | 99.3 | 102 | 96.4 - 105 | X451184 | 20-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 414 | 397 | 104 | 96.4 - 105 | X451184 | 20-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | 9.0 | 10.0 | 90.0 | 85 - 115 | X451128 | 20-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 2.98 | 3.00 | 99.2 | 90 - 110 | X451114 | 18-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 2.02 | 2.00 | 101 | 90 - 110 | X451114 | 18-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.94 | 2.00 | 96.8 | 90 - 110 | X451114 | 18-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.47 | 4.50 | 99.4 | 90 - 110 | X451114 | 18-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 2.54 | 2.50 | 102 | 90 - 110 | X451114 | 18-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 10.1 | 10.0 | 101 | 90 - 110 | X451114 | 18-Dec-24 | |

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Post Office Box 191
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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

## 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 | 12100 | 12100 | 0.1 | 20 | X453012 - X4L0253-01 | 30-Dec-24 | |
| SM 2320 B | Total Alkalinity | mg/L as CaCO3 | 107 | 112 | 4.4 | 20 | X451184 - X4L0217-02 | 20-Dec-24 | |
| SM 2320 B | Bicarbonate | mg/L as CaCO3 | 107 | 112 | 4.4 | 20 | X451184 - X4L0217-02 | 20-Dec-24 | |
| SM 2320 B | Carbonate | mg/L as CaCO3 | <1.0 | <1.0 | UDL | 20 | X451184 - X4L0217-02 | 20-Dec-24 | |
| SM 2320 B | Hydroxide | mg/L as CaCO3 | <1.0 | <1.0 | UDL | 20 | X451184 - X4L0217-02 | 20-Dec-24 | |
| SM 2540 C | Total Diss. Solids | mg/L | 1070 | 1080 | 0.7 | 10 | X451127 - X4L0289-01 | 20-Dec-24 | |
| SM 2540 D | Total Susp. Solids | mg/L | 16.0 | 16.0 | 0.0 | 10 | X451128 - X4L0289-01 | 20-Dec-24 | |
| SM 4500 H B | pH @19.2°C | pH Units | 7.7 | 7.8 | 1.8 | 20 | X451184 - X4L0217-02 | 20-Dec-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 | 55.9 | 34.5 | 20.0 | 107 | 70 - 130 | X453022 - X4L0372-02 | 03-Jan-25 | |
| EPA 200.7 | Calcium | mg/L | 462 | 440 | 20.0 | 107 | 70 - 130 | X453022 - X4L0287-01 | 03-Jan-25 | D18 |
| EPA 200.7 | Magnesium | mg/L | 35.1 | 13.7 | 20.0 | 107 | 70 - 130 | X453022 - X4L0372-02 | 03-Jan-25 | |
| EPA 200.7 | Magnesium | mg/L | 377 | 351 | 20.0 | 129 | 70 - 130 | X453022 - X4L0287-01 | 03-Jan-25 | D18 |
| EPA 200.7 | Potassium | mg/L | 30.9 | 10.3 | 20.0 | 103 | 70 - 130 | X453022 - X4L0372-02 | 03-Jan-25 | |
| EPA 200.7 | Potassium | mg/L | 30.5 | 9.83 | 20.0 | 103 | 70 - 130 | X453022 - X4L0287-01 | 03-Jan-25 | D18 |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 717 | 709 | 1.00 | 0.30R>S | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | M3 |
| EPA 200.7 | Aluminum | mg/L | 1.03 | <0.080 | 1.00 | 103 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 0.934 | 0.0194 | 1.00 | 91.4 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Barium | mg/L | 1.02 | 0.0494 | 1.00 | 96.6 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 1.70 | 0.706 | 1.00 | 99.0 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Beryllium | mg/L | 0.976 | <0.00200 | 1.00 | 97.6 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 1.05 | 0.0505 | 1.00 | 99.9 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Boron | mg/L | 1.02 | <0.0400 | 1.00 | 100 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 2.41 | 1.49 | 1.00 | 91.7 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Cadmium | mg/L | 0.959 | <0.0020 | 1.00 | 95.9 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Calcium | mg/L | 452 | 433 | 20.0 | 98.3 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | B7 |
| EPA 200.7 | Calcium | mg/L | 115 | 94.5 | 20.0 | 100 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | B7 |
| EPA 200.7 | Chromium | mg/L | 0.909 | <0.0060 | 1.00 | 90.9 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Chromium | mg/L | 0.966 | <0.0060 | 1.00 | 96.6 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 2.11 | 1.20 | 1.00 | 91.0 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Cobalt | mg/L | 0.926 | <0.0060 | 1.00 | 92.6 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 3.30 | 2.25 | 1.00 | 104 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Copper | mg/L | 0.938 | <0.0100 | 1.00 | 93.8 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 21.4 | 12.0 | 10.0 | 94.4 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Iron | mg/L | 9.76 | <0.100 | 10.0 | 97.6 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 1.02 | 0.0818 | 1.00 | 93.8 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Lead | mg/L | 0.949 | <0.0075 | 1.00 | 94.9 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 1.41 | 0.163 | 1.00 | 124 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Lithium | mg/L | 0.979 | <0.040 | 1.00 | 97.9 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 386 | 361 | 20.0 | 125 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Magnesium | mg/L | 45.9 | 25.5 | 20.0 | 102 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | 0.956 | <0.0080 | 1.00 | 95.6 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Manganese | mg/L | 242 | 236 | 1.00 | 0.30R>S | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | M4 |

**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

**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

## 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 | 0.920 | <0.0080 | 1.00 | 92.0 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Molybdenum | mg/L | 0.976 | <0.0080 | 1.00 | 97.6 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 2.97 | 2.03 | 1.00 | 93.3 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Nickel | mg/L | 0.891 | <0.0100 | 1.00 | 89.1 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 29.5 | 9.41 | 20.0 | 100 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Potassium | mg/L | 21.9 | 2.31 | 20.0 | 98.0 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0350 | <0.0050 | 0.0500 | 70.0 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Silver | mg/L | 0.0530 | <0.0050 | 0.0500 | 106 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 158 | 140 | 19.0 | 98.7 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Sodium | mg/L | 40.0 | 21.5 | 19.0 | 97.3 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 1.01 | 0.0218 | 1.00 | 98.5 | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | |
| EPA 200.7 | Vanadium | mg/L | 1.00 | <0.0050 | 1.00 | 100 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.7 | Zinc | mg/L | 37.5 | 36.2 | 1.00 | 0.30R>S | 70 - 130 | X452020 - X4L0287-01 | 24-Dec-24 | M3 |
| EPA 200.7 | Zinc | mg/L | 0.987 | <0.0100 | 1.00 | 98.7 | 70 - 130 | X452020 - X4L0311-01 | 24-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0297 | 0.00225 | 0.0250 | 110 | 70 - 130 | X452003 - X4L0278-01 | 30-Dec-24 | |
| EPA 200.8 | Antimony | mg/L | 0.0237 | <0.00100 | 0.0250 | 94.8 | 70 - 130 | X452003 - X4L0287-01 | 30-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | 0.0310 | 0.00312 | 0.0250 | 111 | 70 - 130 | X452003 - X4L0278-01 | 30-Dec-24 | |
| EPA 200.8 | Arsenic | mg/L | 0.269 | 0.241 | 0.0250 | 112 | 70 - 130 | X452003 - X4L0287-01 | 30-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | 0.0274 | <0.00100 | 0.0250 | 110 | 70 - 130 | X452003 - X4L0278-01 | 30-Dec-24 | |
| EPA 200.8 | Selenium | mg/L | 0.0530 | 0.0280 | 0.0250 | 100 | 70 - 130 | X452003 - X4L0287-01 | 30-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | 0.0267 | <0.000200 | 0.0250 | 107 | 70 - 130 | X452003 - X4L0278-01 | 30-Dec-24 | |
| EPA 200.8 | Thallium | mg/L | 0.0267 | <0.00100 | 0.0250 | 107 | 70 - 130 | X452003 - X4L0287-01 | 30-Dec-24 | D17 |
| EPA 200.8 | Uranium | mg/L | 0.0335 | 0.00474 | 0.0250 | 115 | 70 - 130 | X452003 - X4L0278-01 | 30-Dec-24 | |
| EPA 200.8 | Uranium | mg/L | 2.86 | 2.90 | 0.0250 | 0.30R>S | 70 - 130 | X452003 - X4L0287-01 | 31-Dec-24 | M4 |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00203 | <0.000200 | 0.00200 | 101 | 70 - 130 | X452043 - X4L0217-01 | 30-Dec-24 | |
| EPA 245.1 | Mercury | mg/L | 0.00203 | <0.000200 | 0.00200 | 102 | 70 - 130 | X452043 - X4L0287-01 | 30-Dec-24 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0830 | <0.0050 | 0.100 | 83.0 | 79 - 121 | X451165 - X4L0165-01 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.104 | <0.0050 | 0.100 | 104 | 90 - 110 | X451170 - X4L0287-01 | 24-Dec-24 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.106 | <0.0050 | 0.100 | 102 | 90 - 110 | X451170 - X4L0253-01 | 24-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 1.01 | <0.030 | 1.00 | 101 | 90 - 110 | X451136 - X4L0222-03 | 20-Dec-24 | |
| EPA 350.1 | Ammonia as N | mg/L | 1.18 | <0.030 | 1.00 | 118 | 90 - 110 | X451136 - X4L0222-02 | 20-Dec-24 | M1 |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.0960 | <0.0050 | 0.100 | 95.0 | 82 - 118 | X452053 - X4L0287-01 | 24-Dec-24 | |
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 22.0 | 19.5 | 3.00 | 0.30R>S | 90 - 110 | X451114 - X4L0279-01 | 18-Dec-24 | M4 |
| EPA 300.0 | Chloride | mg/L | 3.65 | 0.65 | 3.00 | 100 | 90 - 110 | X451114 - X4L0281-01 | 18-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 2.08 | <0.100 | 2.00 | 100 | 90 - 110 | X451114 - X4L0279-01 | 18-Dec-24 | |
| EPA 300.0 | Fluoride | mg/L | 2.12 | 0.118 | 2.00 | 100 | 90 - 110 | X451114 - X4L0281-01 | 18-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.95 | <0.050 | 2.00 | 97.5 | 90 - 110 | X451114 - X4L0279-01 | 18-Dec-24 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.96 | <0.050 | 2.00 | 97.8 | 90 - 110 | X451114 - X4L0281-01 | 18-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 3.94 | <0.100 | 4.00 | 98.6 | 90 - 110 | X451114 - X4L0279-01 | 18-Dec-24 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 3.98 | <0.100 | 4.00 | 99.5 | 90 - 110 | X451114 - X4L0281-01 | 18-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 1.99 | <0.050 | 2.00 | 99.7 | 90 - 110 | X451114 - X4L0279-01 | 18-Dec-24 | |
| EPA 300.0 | Nitrite as N | mg/L | 2.02 | <0.050 | 2.00 | 101 | 90 - 110 | X451114 - X4L0281-01 | 18-Dec-24 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 67.8 | 59.0 | 10.0 | 0.30R>S | 90 - 110 | X451114 - X4L0279-01 | 18-Dec-24 | M4 |
| EPA 300.0 | Sulfate as SO4 | mg/L | 11.8 | 1.76 | 10.0 | 100 | 90 - 110 | X451114 - X4L0281-01 | 18-Dec-24 | |

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**Newmont - Cripple Creek & Victor**
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**Project Name: Cripple Creek/Victor Water and Soil 2024**
Work Order: **X4L0287**
Reported: 03-Jan-25 12:55

## 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 | 460 | 462 | 20.0 | 0.4 | 20 | 97 | X453022 - X4L0287-01 | D18 |
| EPA 200.7 | Magnesium | mg/L | 372 | 377 | 20.0 | 1.4 | 20 | 103 | X453022 - X4L0287-01 | D18 |
| EPA 200.7 | Potassium | mg/L | 30.0 | 30.5 | 20.0 | 1.5 | 20 | 101 | X453022 - X4L0287-01 | D18 |
| **Metals (Dissolved)** | | | | | | | | | | |
| EPA 200.7 | Aluminum | mg/L | 715 | 717 | 1.00 | 0.3 | 20 | 0.30R>S | X452020 - X4L0287-01 | M3 |
| EPA 200.7 | Barium | mg/L | 0.939 | 0.934 | 1.00 | 0.6 | 20 | 92.0 | X452020 - X4L0287-01 | |
| EPA 200.7 | Beryllium | mg/L | 1.69 | 1.70 | 1.00 | 0.1 | 20 | 98.8 | X452020 - X4L0287-01 | |
| EPA 200.7 | Boron | mg/L | 1.05 | 1.05 | 1.00 | 0.2 | 20 | 100 | X452020 - X4L0287-01 | |
| EPA 200.7 | Cadmium | mg/L | 2.38 | 2.41 | 1.00 | 1.2 | 20 | 88.7 | X452020 - X4L0287-01 | |
| EPA 200.7 | Calcium | mg/L | 451 | 452 | 20.0 | 0.4 | 20 | 89.7 | X452020 - X4L0287-01 | B7 |
| EPA 200.7 | Chromium | mg/L | 0.909 | 0.909 | 1.00 | 0.1 | 20 | 90.9 | X452020 - X4L0287-01 | |
| EPA 200.7 | Cobalt | mg/L | 2.09 | 2.11 | 1.00 | 1.0 | 20 | 88.8 | X452020 - X4L0287-01 | |
| EPA 200.7 | Copper | mg/L | 3.32 | 3.30 | 1.00 | 0.6 | 20 | 106 | X452020 - X4L0287-01 | |
| EPA 200.7 | Iron | mg/L | 21.5 | 21.4 | 10.0 | 0.3 | 20 | 95.0 | X452020 - X4L0287-01 | |
| EPA 200.7 | Lead | mg/L | 1.00 | 1.02 | 1.00 | 1.9 | 20 | 91.9 | X452020 - X4L0287-01 | |
| EPA 200.7 | Lithium | mg/L | 1.41 | 1.41 | 1.00 | 0.2 | 20 | 125 | X452020 - X4L0287-01 | |
| EPA 200.7 | Magnesium | mg/L | 385 | 386 | 20.0 | 0.2 | 20 | 122 | X452020 - X4L0287-01 | |
| EPA 200.7 | Manganese | mg/L | 243 | 242 | 1.00 | 0.5 | 20 | 0.30R>S | X452020 - X4L0287-01 | M4 |
| EPA 200.7 | Molybdenum | mg/L | 0.913 | 0.920 | 1.00 | 0.8 | 20 | 91.3 | X452020 - X4L0287-01 | |
| EPA 200.7 | Nickel | mg/L | 2.92 | 2.97 | 1.00 | 1.4 | 20 | 89.1 | X452020 - X4L0287-01 | |
| EPA 200.7 | Potassium | mg/L | 29.5 | 29.5 | 20.0 | 0.1 | 20 | 100 | X452020 - X4L0287-01 | |
| EPA 200.7 | Silver | mg/L | 0.0363 | 0.0350 | 0.0500 | 3.7 | 20 | 72.6 | X452020 - X4L0287-01 | |
| EPA 200.7 | Sodium | mg/L | 159 | 158 | 19.0 | 0.1 | 20 | 99.7 | X452020 - X4L0287-01 | |
| EPA 200.7 | Vanadium | mg/L | 1.01 | 1.01 | 1.00 | 0.8 | 20 | 99.3 | X452020 - X4L0287-01 | |
| EPA 200.7 | Zinc | mg/L | 37.1 | 37.5 | 1.00 | 0.9 | 20 | 97.4 | X452020 - X4L0287-01 | |
| EPA 200.8 | Antimony | mg/L | 0.0286 | 0.0297 | 0.0250 | 3.8 | 20 | 105 | X452003 - X4L0278-01 | |
| EPA 200.8 | Arsenic | mg/L | 0.0294 | 0.0310 | 0.0250 | 5.3 | 20 | 105 | X452003 - X4L0278-01 | |
| EPA 200.8 | Selenium | mg/L | 0.0263 | 0.0274 | 0.0250 | 4.2 | 20 | 105 | X452003 - X4L0278-01 | |
| EPA 200.8 | Thallium | mg/L | 0.0256 | 0.0267 | 0.0250 | 4.1 | 20 | 102 | X452003 - X4L0278-01 | |
| EPA 200.8 | Uranium | mg/L | 0.0319 | 0.0335 | 0.0250 | 4.7 | 20 | 109 | X452003 - X4L0278-01 | |
| **Metals (Filtered)** | | | | | | | | | | |
| EPA 245.1 | Mercury | mg/L | 0.00202 | 0.00203 | 0.00200 | 0.2 | 20 | 101 | X452043 - X4L0217-01 | |
| **Classical Chemistry Parameters** | | | | | | | | | | |
| ASTM D7237 | Cyanide (free) @ pH 6 | mg/L | 0.0840 | 0.0830 | 0.100 | 1.2 | 11 | 84.0 | X451165 - X4L0165-01 | |
| EPA 335.4 | Cyanide (total) | mg/L | 0.104 | 0.104 | 0.100 | 0.6 | 20 | 104 | X451170 - X4L0287-01 | |
| EPA 350.1 | Ammonia as N | mg/L | 1.00 | 1.01 | 1.00 | 1.0 | 20 | 100 | X451136 - X4L0222-03 | |
| OIA 1677 | Cyanide (WAD) | mg/L | 0.100 | 0.0960 | 0.100 | 4.1 | 11 | 99.0 | X452053 - X4L0287-01 | |
| **Anions by Ion Chromatography** | | | | | | | | | | |
| EPA 300.0 | Chloride | mg/L | 3.67 | 3.65 | 3.00 | 0.6 | 20 | 101 | X451114 - X4L0281-01 | |
| EPA 300.0 | Fluoride | mg/L | 2.14 | 2.12 | 2.00 | 0.7 | 20 | 101 | X451114 - X4L0281-01 | |
| EPA 300.0 | Nitrate as N | mg/L | 1.97 | 1.96 | 2.00 | 0.7 | 20 | 98.5 | X451114 - X4L0281-01 | |
| EPA 300.0 | Nitrate+Nitrite as N | mg/L | 4.01 | 3.98 | 4.00 | 0.7 | 20 | 100 | X451114 - X4L0281-01 | |
| EPA 300.0 | Nitrite as N | mg/L | 2.04 | 2.02 | 2.00 | 0.7 | 20 | 102 | X451114 - X4L0281-01 | |
| EPA 300.0 | Sulfate as SO4 | mg/L | 11.9 | 11.8 | 10.0 | 0.6 | 20 | 101 | X451114 - X4L0281-01 | |

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| | |
|---|---|
| **Newmont - Cripple Creek & Victor** | **Project Name: Cripple Creek/Victor Water and Soil 2024** |
| Post Office Box 191 | Work Order: **X4L0287** |
| Victor, CO 80860 | Reported: 03-Jan-25 12:55 |

## Notes and Definitions

| | |
|---|---|
| B7 | Target analyte detected in method blank at or above method limit. Concentration found in the sample was 10 times above the concentration found in the method blank. |
| D17 | Due to an internal standard failure at a lower dilution, a sample dilution was performed. |
| D18 | Due to a published chemical interference, a sample dilution was performed. |
| H5 | This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time. |
| M1 | Matrix spike recovery was high, but the LCS recovery was acceptable. |
| M3 | The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable. |
| 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. |
| Q5C | After two pH adjustments, the method-specified pH was not achieved. |
| R2B | RPD exceeded the laboratory acceptance limit. |
| LCS | Laboratory Control Sample (Blank Spike) |
| RPD | Relative Percent Difference |
| UDL | A result is less than the detection limit |
| 0.30R>S | % recovery not applicable; spike level is less than 30% of the sample concentration |
| <RL | A result is less than the reporting limit |
| MRL | Method Reporting Limit |
| MDL | Method Detection Limit |
| N/A | Not Applicable |

Newmont
NORTH AMERICA

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# Attachment 2

## Sampling Logs

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**
**Surface Water Sampling Log**

**Location:** EMP-016 **Date:** 12/10/24

**Technician:** T. Reed **Quarter:** 4

| Time | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | ORP |
|---|---|---|---|---|
| 7:31 | — | Frozen | | |

**Sample Method:** —

**Oil/Gas visible** ~~[Y / N]~~

**Turbid** ~~[Y / N]~~

**Clear** ~~[Y / N]~~

**Weather:** 40

**Signature:**

**Comments / Notes:**

EMP-016 is frozen.

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**
**Surface Water Sampling Log**

**Location:** EMP-17 **Date:** 12/10/24

**Technician:** T. Reed **Quarter:** 4

| Time | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | ORP |
|---|---|---|---|---|
| 7:34 | | frozen | | |

**Sample Method:** —

**Oil/Gas visible** ~~[Y / N]~~

**Turbid** ~~[Y / N]~~

**Clear** ~~[Y / N]~~

**Weather:** 40

**Signature:**

**Comments / Notes:**

EMP-17 is frozen.

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**
**Surface Water Sampling Log**

**Location:** EMP-17A **Date:** 12/10/24

**Technician:** T. Reed **Quarter:** 4

| Time | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | ORP |
|---|---|---|---|---|
| 7:37 | | Frozen | | |

**Sample Method:** —

**Oil/Gas visible** ~~[Y / N]~~

**Turbid** ~~[Y / N]~~

**Clear** ~~[Y / N]~~

**Weather:** 40

**Signature:**

**Comments / Notes:**

EMP-17A is frozen

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**
**Surface Water Sampling Log**

**Location:** EMP-17B

**Date:** 12/10/21

**Technician:** T. Reed

**Quarter:** 4

| Time | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | ORP |
|---|---|---|---|---|
| 7:40 | | Frozen | | |

**Sample Method:**

**Oil/Gas visible** ~~[Y / N]~~

**Turbid** ~~[Y / N]~~

**Clear** ~~[Y / N]~~

**Weather:** 40

**Signature:**

**Comments / Notes:**

EMP-17B is frozen

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**
**Surface Water Sampling Log**

**Location:** EMP-20 **Date:** 12/10/24

**Technician:** T. Rund **Quarter:** 4

| Time | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | ORP |
|---|---|---|---|---|
| 7:42 | — | Frozen | — | — |

**Sample Method:** —

**Oil/Gas visible** ~~[Y / N]~~

**Turbid** ~~[Y / N]~~

**Clear** [Y / N]

**Weather:** 4°

**Signature:**

**Comments / Notes:**

EMP-20 is frozen

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**
**Surface Water Sampling Log**

**Location:** 6V-02 **Date:** 12/10/24

**Technician:** J. Reed **Quarter:** 4

| Time | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | ORP |
|---|---|---|---|---|
| 7:57 | — | Frozen | — | — |

**Sample Method:** —

**Oil/Gas visible** [Y / ~~N~~]

**Turbid** [Y / ~~N~~]

**Clear** [Y / ~~N~~]

**Weather:** 4°

**Signature:** [signature]

**Comments / Notes:**

6V-02 is frozen

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**
**Surface Water Sampling Log**

**Location:** 6V-03 **Date:** 12/10/24

**Technician:** J. Reed **Quarter:** 4

| Time | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | ORP |
|---|---|---|---|---|
| 8:10 | — | Frozen | | |

**Sample Method:** —

**Oil/Gas visible** ~~[Y / N]~~

**Turbid** ~~[Y / N]~~

**Clear** ~~[Y / N]~~

**Weather:** 40

**Signature:**

**Comments / Notes:**

6V-03 is frozen.

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**
**Surface Water Sampling Log**

**Location:** 6V-4.5 **Date:** 12/10/24

**Technician:** T. Reed **Quarter:** 4

| Time | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | ORP |
|---|---|---|---|---|
| 8:12 | | Frozen | | |

**Sample Method:**

**Oil/Gas visible** ~~[Y / N]~~

**Turbid** ~~[Y / N]~~

**Clear** ~~[Y / N]~~

**Weather:** 5°

**Signature:**

**Comments / Notes:**

6V-4.5 .3 frozen.

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**
**Surface Water Sampling Log**

**Location:** 6V-5 **Date:** 12/10/24

**Technician:** T. Read **Quarter:** 4

| Time | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | ORP |
|---|---|---|---|---|
| 8:15 | | Frozen | | |

**Sample Method:** —

**Oil/Gas visible** ~~[Y / N]~~

**Turbid** [Y / N]

**Clear** ~~[Y / N]~~

**Weather:** 5°

**Signature:**

**Comments / Notes:**

6V-5 is frozen

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**
**Surface Water Sampling Log**

**Location:** 6V-06 **Date:** 12/10/24

**Technician:** T. Reed **Quarter:** 4

| Time | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | ORP |
|---|---|---|---|---|
| 8:20 | | Frozen | | |

**Sample Method:** —

**Oil/Gas visible** [Y / N]

**Turbid** [Y / N]

**Clear** [Y / N]

**Weather:** 30

**Signature:**

**Comments / Notes:**

6V-06 is frozen

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Cranford
Static Water Level (DTW): 39.25
Is well Dry? no
If so Dry at: — feet

Date: 12/12/24
Quarter: 4
Well ID: GVMW-44
Well Depth (TD): 480

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| 9:25 | | | 7.75 | 122.50 | 1.74 | [illegible] | 86.2 | |
| 9:30 | 39.30 | 0.05 | 6.84 | 151.20 | 3.73 | 0.54 | 78.0 | 0.25 L/m |
| 9:35 | 39.33 | 0.03 | 6.60 | 157.34 | 4.41 | 0.30 | 75.8 | |
| 9:40 | 39.38 | 0.05 | 6.55 | 158.09 | 4.53 | 0.25 | 75.1 | |
| 9:45 | 39.40 | 0.02 | 6.47 | 160.48 | 4.57 | 0.20 | 77.2 | |
| 9:50 | 39.40 | 0.00 | 6.45 | 160.67 | 4.58 | 0.19 | 77.8 | |
| | | Total Drawdown | | | | | | |
| | | 0.15 | | | | | | |

Sample Method: low-flow
Rate (gpm): 0.06 * Flow rate at stabilization (during sample collection)
Time Start: 9:25 Time End: 9:50

| Final Parameter | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 6.45 | ±0.1 | (Y) / N | |
| Conductivity | 160.67 | 3% | (Y) / N | |
| Temp (deg C) | 4.58 | 3% | (Y) / N | |
| Dissolved Oxygen | 0.19 | 10% | (Y) / N | |
| ~~Turbidity~~ | | 10% | Y / N | |
| Oxidation/Reduction Potential | 77.8 | ±10 | (Y) / N | |
| DTW Stabilized | 39.40 | feet | (Y) / N | |
| Final H2O level | 39.40 | feet | | |

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): — Actual vol. pumped (gal) ~3.25
* See Field Volume Guide following stabilization

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N
Turbid? Y / (N)
Decontamination procedure used: Tripple rinse, Liquid-knox

Weather: 26°, 6 mm
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:**
use 5 gal bucket

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

Location: Grassy Valley
Date: 12/9/24
Technician: J. Crawford
Quarter: 4
Static Water Level (DTW): 30.38
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 |
|---|---|---|---|---|---|---|---|---|
| 1:35 | | | 6.82 | 590.3 | 0.4 | 3.31 | 209.6 | |
| 1:40 | 30.48 | 0.10 | 7.03 | 625.5 | 0.6 | 2.85 | 179.6 | |
| 1:45 | 30.54 | 0.06 | 7.22 | 628.7 | 0.5 | 2.63 | 141.5 | 0.24 L/m |
| 1:50 | 30.57 | 0.03 | 7.29 | 631.2 | 0.7 | 2.54 | 120.7 | |
| 1:55 | 30.60 | 0.03 | 7.36 | 637.2 | 0.5 | 2.51 | 109.5 | |
| 2:00 | 30.60 | 0.00 | 7.40 | 636.8 | 0.6 | 2.55 | 100.7 | |
| 2:05 | 30.60 | 0.00 | 7.42 | 639.9 | 0.5 | 2.57 | 92.1 | |
| 2:10 | 30.60 | 0.00 | 7.43 | 640.4 | 0.5 | 2.56 | 86.2 | |
| 2:15 | 30.60 | 0.00 | 7.44 | 633.9 | 0.5 | 2.56 | 78.4 | |
| 2:20 | 30.60 | 0.00 | 7.45 | 637.0 | 0.5 | 2.58 | 76.5 | |
| 2:25 | 30.60 | 0.00 | 7.46 | 636.7 | 0.4 | 2.59 | 69.4 | |
| | | Total Drawdown 0.22 | | | | | | |

Sample Method: low-flow
Rate (gpm): 0.06 * Flow rate at stabilization (during sample collection)
Time Start: 1:35 Time End: 2:25

| Final Parameter | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 7.46 | ±0.1 | (Y) / N | |
| Conductivity | 636.7 | 3% | (Y) / N | |
| Temp (deg C) | 0.4 | 3% | (Y) / N | |
| Dissolved Oxygen | 2.59 | 10% | (Y) / N | |
| ~~Turbidity~~ | | ~~10%~~ | ~~Y / N~~ | |
| Oxidation/Reduction Potential | 69.4 | ±10 | (Y) / N | |
| DTW Stabilized | 30.60 | feet | (Y) / N | |
| Final H2O level | 30.60 | 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) 3.5

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N
Turbid? Y / (N)
Decontamination procedure used: Tripple rinse, Liquid-IconOx

Weather: 19°, snow
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:**
use 5 gal bucket

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location :** Grassy Valley **Date:** 12/10/24
**Technician:** J. Cranford **Quarter:** 4
**Static Water Level (DTW):** 27.37 **Well ID:** GVMW-78
**Is well Dry?** no **If so Dry at:** — **Well Depth (TD):** 50 feet

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| 9:30 | | | 6.45 | 406.9 | 1.8 | 12.86 | 200.0 | |
| 9:35 | 27.56 | 0.19 | 6.64 | 779.0 | 1.8 | 12.60 | 177.1 | |
| 9:40 | 27.62 | 0.06 | 6.64 | 636.7 | 1.8 | 11.90 | 170.8 | 0.83 L/m |
| 9:45 | 27.66 | 0.04 | 6.58 | 504.0 | 1.8 | 10.78 | 174.1 | |
| 9:50 | 27.67 | 0.01 | 6.47 | 417.8 | 1.9 | 10.00 | 176.9 | |
| 9:55 | 27.67 | 0.00 | 6.41 | 412.2 | 2.0 | 9.93 | 182.6 | |
| 10:00 | 27.67 | 0.00 | 6.40 | 411.7 | 2.0 | 9.87 | 185.7 | |
| | | Total Drawdown | | | | | | |
| | | 0.50 | | | | | | |

**Sample Method:** low-flow **Rate (gpm):** 0.21 **Time Start:** 9:30 **Time End:** 10:00
** Flow rate at stabilization (during sample collection)*

| Final Parameter | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 6.40 | ±0.1 | (Y) / N | |
| Conductivity | 411.7 | 3% | (Y) / N | |
| Temp (deg C) | 2.0 | 3% | (Y) / N | |
| Dissolved Oxygen | 9.87 | 10% | (Y) / N | |
| ~~Turbidity~~ | | ~~10%~~ | Y / N | |
| Oxidation/Reduction | 185.7 | ±10 | (Y) N | |
| DTW Stabilized | 27.67 | feet | (Y) / N | |
| Final H2O level | 27.67 | feet | | |

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): — Actual vol. pumped (gal) 45
** See Field Volume Guide* following stabilization

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N Turbid? Y / (N)
Decontamination procedure used: Tripple rinse, Liqui-Inox

Weather: 10°, Sunny
Signature:

**Volume Calculations:**
**For 2" Diameter Well (gal):** $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
**Other Diameter Well & Tubing Vol (gal):** $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
**Water Column Calculation:** $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
**Well Volume Purge Method:** *Three Well Volumes = 3*V*

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

**Show Calculations:**
use 5 gal bucket

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location:** Grassy Valley
**Technician:** J. Crawford
**Static Water Level (DTW):** 126.89
**Date:** 12/10/24
**Quarter:** 4
**Well ID:** GVMW-6A
**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 |
|---|---|---|---|---|---|---|---|---|
| 11:45 | | | 6.87 | 401.7 | 1.9 | 6.72 | 248.1 | |
| 11:50 | 127.02 | 0.14 | 6.91 | 25.0 | 5.0 | 4.38 | 250.3 | |
| 11:55 | 127.02 | 0.00 | 6.95 | 24.2 | 6.7 | 3.63 | 248.5 | 0.534/m |
| 12:00 | 127.02 | 0.00 | 6.94 | 24.2 | 6.8 | 3.74 | 250.8 | |
| 12:05 | 127.02 | 0.00 | 6.94 | 24.3 | 6.9 | 3.81 | 254.5 | |
| 12:10 | 127.02 | 0.00 | 6.93 | 24.3 | 6.9 | 3.68 | 272.6 | |
| 12:15 | 127.02 | 0.00 | 6.94 | 24.3 | 7.0 | 3.68 | 291.2 | |
| 12:20 | 127.02 | 0.00 | 6.96 | 24.4 | 7.1 | 3.52 | 313.0 | |
| 12:25 | 127.02 | 0.00 | 6.95 | 24.9 | 7.1 | 3.50 | 311.1 | |
| 12:30 | 127.02 | 0.00 | 6.95 | 24.8 | 7.2 | 3.66 | 304.3 | |
| | | Total Drawdown | | | | | | |
| | | 0.14 | | | | | | |

**Sample Method:** low-flow
**Rate (gpm):** 0.14 * Flow rate at stabilization (during sample collection)
**Time Start:** 11:45
**Time End:** 12:30

| Final Parameter | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 6.95 | ±0.1 | (Y) / N | |
| Conductivity | 24.8 | 3% | (Y) / N | |
| Temp (deg C) | 7.2 | 3% | (Y) / N | |
| Dissolved Oxyger | 3.50 | 10% | (Y) / N | |
| ~~Turbidity~~ | | ~~10%~~ | Y / N | |
| Oxidation/Reduction Potential | 304.3 | ±10 | (Y) / N | |
| DTW Stabilized | 127.02 | feet | (Y) / N | |
| Final H2O level | 127.02 | 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

O/G visible: Y / (N)
Equipment Decontaminated: Y / (N)
Turbid? Y / (N)
Decontamination procedure used: Dedicated Pump
Weather: 15°, Sunny
Signature:

**Volume Calculations:**
**For 2" Diameter Well (gal):** $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
**Other Diameter Well & Tubing Vol (gal):** $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
**Water Column Calculation:** $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
**Well Volume Purge Method:** *Three Well Volumes = 3*V*

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

**Show Calculations:**
use 5 gal bucket

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location:** Grassy Valley
**Technician:** L. Cranford
**Static Water Level (DTW):** 37.77
**Date:** 12/10/24
**Quarter:** 4
**Well ID:** GVMW-8B
**Is well Dry?** NO
**If so Dry at:** —
**Well Depth (TD):** 50 feet

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| 10:40 | | | 6.43 | 618.1 | 1.0 | 11.32 | 247.0 | |
| 10:45 | 38.17 | 0.40 | 6.64 | 465.0 | 1.1 | 10.71 | 208.4 | |
| 10:50 | 38.69 | 0.52 | 6.76 | 448.6 | 1.1 | 10.49 | 203.9 | 0.21 L/m |
| 10:55 | 38.83 | 0.14 | 6.81 | 446.4 | 1.2 | 10.02 | 206.4 | |
| 11:00 | 39.06 | 0.23 | 6.75 | 395.7 | 1.2 | 10.28 | 208.1 | |
| 11:05 | 39.32 | 0.26 | 6.75 | 386.3 | 2.8 | 10.41 | 213.8 | |
| 11:10 | 39.42 | 0.10 | 6.78 | 386.2 | 3.2 | 9.93 | 221.0 | |
| 11:15 | 39.42 | 0.00 | 6.77 | 362.1 | 3.2 | 10.07 | 226.4 | |
| 11:20 | 39.43 | 0.01 | 6.77 | 386.4 | 3.2 | 10.04 | 229.4 | |
| | | | | | | | | |
| | | | | | | | | |
| | | Total Drawdown | | | | | | |
| | | 1.66 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**Sample Method:** low-flow
**Rate (gpm):** 0.05 * Flow rate at stabilization (during sample collection)
**Time Start:** 10:40 **Time End:** 11:20

| Final Parameters | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 6.77 | ±0.1 | (Y) / N | |
| Conductivity | 386.4 | 3% | (Y) / N | |
| Temp (deg C) | 3.2 | 3% | (Y) / N | |
| Dissolved Oxygen | 10.04 | 10% | Y / N | |
| ~~Turbidity~~ | | ~~10%~~ | ~~Y / N~~ | |
| Oxidation/Reduction | 229.4 | ±10 | (Y) / N | |
| DTW Stabilized | 39.43 | feet | (Y) / N | |
| Final H2O level | 39.43 | 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: 2.55
Actual vol. pumped (gal): ~5.5

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

Weather: 13°, Sunny
Signature:

**Volume Calculations:**
**For 2" Diameter Well (gal):** $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
**Other Diameter Well & Tubing Vol (gal):** $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
**Water Column Calculation:** $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
**Well Volume Purge Method:** *Three Well Volumes = 3*V*

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

**Show Calculations:**
1.66 + 0.89 = 2.55
use 5 gal bucket

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location :** Grassy Valley
**Date:** 12/12/24
**Technician:** J. Crawford
**Quarter:** 4
**Static Water Level (DTW):** 221.24
**Well ID:** GVMW-10
**Well Depth (TD):** 270 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 |
|---|---|---|---|---|---|---|---|---|
| 11:50 | | | 6.97 | 1744.9 | 5.64 | 0.24 | 98.6 | |
| 11:55 | 220.41 | 0.88 | 6.95 | 1769.2 | 6.06 | 0.22 | 102.9 | |
| 12:00 | 220.42 | 0.01 | 6.95 | 1752.8 | 5.58 | 0.26 | 106.8 | 1.01 L/m |
| 12:05 | 220.42 | 0.00 | 6.95 | 1754.7 | 5.62 | 0.21 | 111.7 | |
| 12:10 | 220.42 | 0.00 | 6.90 | 1944.8 | 5.65 | 0.08 | 111.7 | |
| 12:15 | 220.42 | 0.00 | 6.87 | 1960.1 | 5.69 | 0.07 | 113.3 | |
| 12:20 | 220.42 | 0.00 | 6.87 | 1921.2 | 5.70 | 0.05 | 117.1 | |

Total Drawdown
0.89

**Sample Method:** low-flow **Rate (gpm):** 0.26 **Time Start:** 11:50 **Time End:** 12:20
** Flow rate at stabilization (during sample collection)*

| Final Parameter | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 6.87 | ±0.1 | (Y) / N | |
| Conductivity | 1921.2 | 3% | (Y) / N | |
| Temp (deg C) | 5.70 | 3% | (Y) / N | |
| Dissolved Oxygen | 0.05 | 10% | (Y) / N | |
| ~~Turbidity~~ | | ~~10%~~ | Y / N | |
| Oxidation/Reduction | 117.1 | ±10 | (Y) / N | |
| DTW Stabilized | 220.42 | feet | (Y) / N | |
| Final H2O level | 220.42 | 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: 3.88 Actual vol. pumped (gal) ~ 7.5

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N
Turbid? Y / N
Decontamination procedure used: Tripple rinse, Liquid-Ionox

Weather: 37°, Sunny
Signature:

| | |
|---|---|
| **Volume Calculations:** | |
| **For 2" Diameter Well (gal):** $V(gal) = 0.1632 * h(ft)$ | **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$ |
| **Other Diameter Well & Tubing Vol (gal):** $V(gal) = 0.1632 * (r(in))^2 * h(ft)$ | |
| **Water Column Calculation:** $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$ | |
| **Well Volume Purge Method:** *Three Well Volumes = 3*V* | |
| **Conversions:** $1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$ | **Show Calculations:** 0.89 * 2.99 = 3.88 use 5 gal bucket |

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

Location: Grassy Valley
Date: 12/12/21
Technician: T. Reed
Quarter: 4
Static Water Level (DTW): 91.52
Well ID: GVMW-15A
Is well Dry? NO
If so Dry at: —
Well Depth (TD): 820 feet

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| 10:25 | | | 6.46 | 265.41 | 4.54 | 1.73 | 58.5 | |
| 10:30 | 92.08 | 0.56 | 6.43 | 274.56 | 5.52 | 1.35 | 59.7 | |
| 10:35 | 92.21 | 0.13 | 6.42 | 276.81 | 5.82 | 1.05 | 61.4 | 0.17 L/m |
| 10:40 | 92.21 | 0.00 | 6.41 | 276.58 | 5.91 | 1.56 | 65.6 | |
| 10:45 | 92.21 | 0.00 | 6.42 | 277.02 | 5.93 | 1.57 | 66.6 | |
| 10:50 | 92.21 | 0.00 | 6.43 | 279.12 | 5.94 | 1.50 | 68.2 | |
| | | Total Drawdown | | | | | | |
| | | 0.69 | | | | | | |

Sample Method: ~~Grab~~ Low-Flow
Rate (gpm): 0.04 * Flow rate at stabilization (during sample collection)
Time Start: 10:25 Time End: 10:50

| Final Parameter | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 6.43 | ±0.1 | (Y) / N | |
| Conductivity | 279.12 | 3% | (Y) / N | |
| Temp (deg C) | 5.94 | 3% | (Y) / N | |
| Dissolved Oxygen | 1.50 | 10% | (Y) / N | |
| ~~Turbidity~~ | | ~~10%~~ | Y / N | |
| Oxidation/Reduction Potential | 68.2 | ±10 | (Y) / N | |
| DTW Stabilized | 92.21 | feet | (Y) / N | |
| Final H2O level | 92.21 | 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: 0.99
Actual vol. pumped (gal): ~2.5

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: triple Rinse Alconox

Weather: 25° Sunny
Signature:

**Volume Calculations:**
**For 2" Diameter Well (gal):** $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
**Other Diameter Well & Tubing Vol (gal):** $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
**Water Column Calculation:** $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
**Well Volume Purge Method:** *Three Well Volumes = 3*V*

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

**Show Calculations:**
0.69 + 0.3 = 0.99
Use 5gal Bucket

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location :** Grassy Valley **Date:** 12/12/24

**Technician:** J. Crawford **Quarter:** 4

**Static Water Level (DTW):** 79.59 **Well ID:** GVMW-15B

**Is well Dry?** no **If so Dry at:** — **Well Depth (TD):** 102 feet

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| 10:25 | | | 4.82 | 570.0 | 0.6 | 3.61 | 195.1 | |
| 10:30 | 79.69 | 0.10 | 4.86 | 456.3 | 1.5 | 3.12 | 163.8 | |
| 10:35 | 79.69 | 0.00 | 4.81 | 450.4 | 1.8 | 2.97 | 156.3 | 0.26 L/m |
| 10:40 | 79.69 | 0.00 | 4.80 | 453.8 | 1.9 | 2.94 | 153.2 | |
| 10:45 | 79.69 | 0.00 | 4.78 | 449.2 | 1.9 | 2.92 | 151.3 | |
| 10:50 | 79.69 | 0.00 | 4.75 | 448.6 | 1.9 | 2.89 | 149.2 | |

**Sample Method:** low-flow **Rate (gpm):** 0.06 **Time Start:** 10:25 **Time End:** 10:50

** Flow rate at stabilization (during sample collection)*

| Final Parameters | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 4.75 | ±0.1 | (Y) / N | |
| Conductivity | 448.6 | 3% | (Y) / N | |
| Temp (deg C) | 1.9 | 3% | (Y) / N | |
| Dissolved Oxygen | 2.89 | 10% | (Y) / N | |
| ~~Turbidity~~ | | 10% | Y / N | |
| Oxidation/Reduction | 149.2 | ±10 | (Y) / N | |
| DTW Stabilized | 79.69 | feet | (Y) / N | |
| Final H2O level | 79.69 | 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) ~2.25

** See Field Volume Guide*

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

Equipment Decontaminated: (Y) / N

Decontamination procedure used: Tripple rinse, Liquid-Knox

Weather: 35°, Sunny

Signature: JMC

**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:**

use 5 gal bucket

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location :** Grassy Valley
**Date:** 12/12/24
**Technician:** J. Cranford
**Quarter:** 4
**Static Water Level (DTW):**
**Well ID:** GVMW-15C
**Is well Dry?** yes **If so Dry at:** 419 **Well Depth (TD):** 419 **feet**

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
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**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 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~~ If yes, required pump vol (gal): Actual vol. pumped (gal)
** See Field Volume Guide* following stabilization

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

Decontamination procedure used: N/a

Weather: 35 Sunny
Signature:

**Volume Calculations:**
**For 2" Diameter Well (gal):** $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
**Other Diameter Well & Tubing Vol (gal):** $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
**Water Column Calculation:** $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
**Well Volume Purge Method:** *Three Well Volumes = 3*V*

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

**Show Calculations:**
GVMW-15C 3 DRY

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location:** Carossy valley **Date:** 12/9/24
**Technician:** J. Cranford **Quarter:** 4
**Static Water Level (DTW):** 3.76 **Well ID:** GVMW-22A
**Is well Dry?** no **If so Dry at:** — **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 |
|---|---|---|---|---|---|---|---|---|
| 12:30 | | | 7.36 | 591.4 | 1.5 | 2.74 | 145.4 | |
| 12:35 | 5.46 | 1.70 | 7.62 | 594.6 | 1.2 | 2.34 | 178.5 | |
| 12:40 | 5.78 | 0.22 | 7.68 | 599.0 | 1.0 | 2.33 | 170.4 | 0.46 L/m |
| 12:45 | 5.96 | 0.18 | 7.74 | 596.6 | 0.9 | 2.33 | 160.1 | |
| 12:50 | 6.06 | 0.10 | 7.78 | 594.6 | 0.6 | 2.37 | 150.2 | |
| 12:55 | 6.10 | 0.04 | 7.79 | 597.8 | 0.5 | 2.42 | 141.0 | |
| 1:00 | 6.12 | 0.02 | 7.81 | 606.7 | 0.4 | 2.46 | 131.5 | |
| ~~1:05~~ | 6.12 | 0.00 | 7.86 | 588.6 | 0.4 | 2.54 | 139.2 | |
| ~~1:10~~ | | | | | | | | |
| ~~1:15~~ | | | | | | | | |
| | | Total Drawdown | | | | | | |
| | | 2.26 | | | | | | |

**Sample Method:** low-flow **Rate (gpm):** 0.12 **Time Start:** 12:30 **Time End:** 1:05
** Flow rate at stabilization (during sample collection)*

| Final Parameters | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 7.86 | ±0.1 | (Y) / N | |
| Conductivity | 588.6 | 3% | (Y) / N | |
| Temp (deg C) | 0.4 | 3% | (Y) / N | |
| Dissolved Oxygen | 2.54 | 10% | (Y) / N | |
| ~~Turbidity~~ | | ~~10%~~ | ~~Y / N~~ | |
| Oxidation/Reduction Potential | 139.2 | ±10 | (Y) / N | |
| DTW Stabilized | 6.12 | 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: 4.11 Actual vol. pumped (gal): ~4.25

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N Turbid? Y / (N)
Decontamination procedure used: Tripple Rinse, Liquid-Knox

Weather: 19°, snow
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:**
2.26 + 1.85 = 4.11
use 5 gal bucket

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location:** Grassy Valley
**Technician:** S. Crawford
**Static Water Level (DTW):** 4.76
**Is well Dry?** no
**If so Dry at:** —
**Date:** 12/9/24
**Quarter:** 4
**Well ID:** GVMW-223
**Well Depth (TD):** 30 feet

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| 11:30 | | | 6.40 | 609.5 | 2.5 | 3.66 | 214.1 | |
| 11:35 | 5.29 | 0.50 | 6.56 | 610.4 | 2.6 | 2.95 | 218.3 | |
| 11:40 | 5.29 | 0.01 | 6.63 | 614.6 | 2.7 | 2.76 | 188.9 | 0.88 L/m |
| 11:45 | 5.29 | 0.00 | 6.67 | 607.9 | 2.8 | 2.90 | 160.8 | |
| 11:50 | 5.29 | 0.00 | 6.69 | 566.6 | 2.8 | 3.40 | 178.6 | |
| 11:55 | 5.29 | 0.00 | 6.69 | 546.1 | 2.8 | 3.74 | 177.9 | |
| 12:00 | 5.29 | 0.00 | 6.69 | 521.1 | 2.8 | 4.12 | 178.6 | |
| 12:05 | 5.29 | 0.00 | 6.70 | 514.6 | 2.8 | 4.19 | 178.7 | |
| 12:10 | 5.29 | 0.00 | 6.70 | 505.4 | 2.8 | 4.25 | 180.0 | |
| 12:15 | 5.29 | 0.00 | 6.71 | 501.5 | 2.7 | 4.37 | 181.4 | |
| | | Total Drawdown 0.51 | | | | | | |

**Sample Method:** low flow
**Rate (gpm):** 0.23 * Flow rate at stabilization (during sample collection)
**Time Start:** 11:30
**Time End:** 12:15

| Final Parameter | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 6.71 | ±0.1 | (Y) / N | |
| Conductivity | 501.5 | 3% | (Y) / N | |
| Temp (deg C) | 2.7 | 3% | (Y) / N | |
| Dissolved Oxygen | 4.37 | 10% | (Y) / N | |
| ~~Turbidity~~ | | ~~10%~~ | ~~Y / N~~ | |
| Oxidation/Reduction Potential | 181.4 | ±10 | (Y) / N | |
| DTW Stabilized | 5.29 | feet | (Y) / N | |
| Final H2O level | 5.29 | 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: 0.98
Actual vol. pumped (gal): ~14.5

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Tripple rinse, Liquid - Knox

Weather: 20°, snow
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:**
0.51 + 0.47 = 0.98
use 5 gal bucket

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location :** Grassy Valley **Date:** 12/9/24

**Technician:** J. Cranford **Quarter:** 4

**Static Water Level (DTW):** 233.81 **Well ID:** GVmw-24A

**Is well Dry?** no **If so Dry at:** — **Well Depth (TD):** 250 feet

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | | NO | Sample | | | | | |
| | | | | | very | silty | water | |
| | | Not | able | to | Pump | | | |
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**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/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~~ If yes, required pump vol (gal): — Actual vol. pumped (gal) —
** See Field Volume Guide* following stabilization

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

Decontamination procedure used: n/a

Weather: 22°, snow

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:** No Sample due to extreme silt in water. Pump was not able to Pump any water |

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location:** Grassy Valley
**Technician:** J. Crawford
**Static Water Level (DTW):** 94.67
**Date:** 12/9/24
**Quarter:** 4
**Well ID:** GVMW-24B
**Well Depth (TD):** 180 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 |
|---|---|---|---|---|---|---|---|---|
| 10:25 | | | 6.56 | 5167 | 3.6 | 8.26 | 262.6 | |
| 10:30 | 94.38 | 0.36 | 6.79 | 3948 | 0.1 | 5.05 | 231.2 | ~~0.34 L/m~~ |
| 10:35 | 94.38 | 0.00 | 6.90 | 3991 | 1.4 | 4.92 | 211.8 | 0.34 L/m |
| 10:40 | 94.38 | 0.00 | 6.91 | 4028 | 1.4 | 3.82 | 210.1 | |
| 10:45 | 94.38 | 0.00 | 6.91 | 4095 | 1.4 | 3.55 | 207.5 | |
| 10:50 | 94.38 | 0.00 | 6.90 | 4056 | 1.5 | 3.40 | 205.9 | |
| 10:55 | 94.38 | 0.00 | 6.89 | 4098 | 1.5 | 3.07 | 204.7 | |
| 11:00 | 94.38 | 0.00 | 6.83 | 4134 | 1.6 | 3.10 | 203.3 | |
| 11:05 | 94.38 | 0.00 | 6.80 | 4211 | 1.6 | 2.92 | 202.5 | |
| | | | | | | | | |
| | | | | | | | | |
| | | Total Drawdown | | | | | | |
| | | 0.36 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

**Sample Method:** low-flow
**Rate (gpm):** 0.08 * Flow rate at stabilization (during sample collection)
**Time Start:** 10:25
**Time End:** 11:05

| Final Parameters | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 6.80 | ±0.1 | (Y) / N | |
| Conductivity | 4211 | 3% | (Y) / N | |
| Temp (deg C) | 1.6 | 3% | (Y) / N | |
| Dissolved Oxygen | 2.92 | 10% | (Y) / N | |
| ~~Turbidity~~ | | ~~10%~~ | ~~Y / N~~ | |
| Oxidation/Reduction Potential | 202.5 | ±10 | (Y) / N | |
| DTW Stabilized | 94.38 | feet | (Y) / N | |
| Final H2O level | 94.38 | 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: 1.18
Actual vol. pumped (gal): ~4

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N
Turbid? Y / (N)
Decontamination procedure used: Tripple rinse, Liquinox

Weather: 22°, snow
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:**
0.36 + 0.57 + 0.25
use 5 gal bucket

# Low-Flow Test Report:

**Test Date / Time:** 12/17/2024 1:06:21 PM
**Project:**
**Operator Name:**

| | | |
|---|---|---|
| **Location Name: GVMW-25**<br>**Latitude: 38.74030607230376**<br>**Longitude: -105.11968936364435**<br>**Well Diameter: 4 in**<br>**Total Depth: 79 ft**<br>**Initial Depth to Water: 57 m** | **Estimated Total Volume Pumped: 2.5 gal**<br>**Flow Cell Volume: 130 ml**<br>**Final Flow Rate: 250 ml/min**<br>**Final Draw Down: 0.1 ft** | **Instrument Used: Aqua TROLL 600**<br>**Serial Number: 1109809** |

**Test Notes:**

**Weather Conditions:**
42 sunny

**Low-Flow Readings:**

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | ORP | Depth to Water | Flow |
|---|---|---|---|---|---|---|---|---|
| | | +/- 0.1 | +/- 3 % | +/- 3 % | +/- 10 % | +/- 10 | +/- 0.33 | |
| 12/17/2024 1:06 PM | 00:00 | 3.84 pH | 6.65 °C | 9.811e+06 µS/cm | 0.94 mg/L | 525.3 mV | 57.00 ft | 250.00 ml/min |
| 12/17/2024 1:08 PM | 02:36 | 3.87 pH | 6.62 °C | 9.786e+06 µS/cm | 0.83 mg/L | 527.8 mV | 57.00 ft | 250.00 ml/min |
| 12/17/2024 1:13 PM | 07:36 | 3.89 pH | 7.09 °C | 9.701e+06 µS/cm | 0.69 mg/L | 524.6 mV | 57.10 ft | 250.00 ml/min |
| 12/17/2024 1:18 PM | 12:36 | 3.89 pH | 6.87 °C | 9.651e+06 µS/cm | 0.66 mg/L | 522.4 mV | 57.10 ft | 250.00 ml/min |
| 12/17/2024 1:23 PM | 17:36 | 3.87 pH | 7.07 °C | 9.569e+06 µS/cm | 0.63 mg/L | 522.1 mV | 57.10 ft | 250.00 ml/min |
| 12/17/2024 1:28 PM | 22:36 | 3.85 pH | 7.00 °C | 9.490e+06 µS/cm | 0.62 mg/L | 524.0 mV | 57.10 ft | 250.00 ml/min |

**Samples**

| Sample ID: | Description: |
|---|---|
| GVMW-25 12/17/24 | |

**Newmont Mining Co**
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## Groundwater Sampling Log

Location: Grassy Valley
Date: 12/9/24
Technician: J. Crawford
Quarter: 4
Static Water Level (DTW): 6.82
Well ID: GVMW-26A
Is well Dry? no
If so Dry at: —
Well Depth (TD): 71 feet

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| 8:45 | | | 7.15 | 536.6 | 1.3 | 4.22 | 131.9 | |
| 8:50 | 6.97 | 0.15 | 7036 | 576.2 | 1.3 | 3.17 | 115.9 | |
| 8:55 | 7.07 | 0.10 | 7.64 | 509.9 | 1.2 | 2.61 | 102.0 | 0.54/m |
| 9:00 | 7.12 | 0.05 | 7.69 | 514.6 | 1.1 | 2.46 | 98.3 | |
| 9:05 | 7.18 | 0.06 | 7.72 | 510.5 | 1.1 | 2.41 | 97.8 | |
| 9:10 | 7.18 | 0.00 | 7.76 | 507.3 | 1.1 | 2.37 | 96.6 | |
| ~~9:15~~ | | | | | | | | |
| | Total Drawdown | | | | | | | |
| | 0.36 | | | | | | | |

Sample Method: low-flow
Rate (gpm): 0.13 * Flow rate at stabilization (during sample collection)
Time Start: 8:45 Time End: 9:10

| Final Parameters | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 7.76 | ±0.1 | (Y) / N | |
| Conductivity | 507.3 | 3% | (Y) / N | |
| Temp (deg C) | 1.1 | 3% | (Y) / N | |
| Dissolved Oxyger | 2.37 | 10% | (Y) / N | |
| ~~Turbidity~~ | | ~~10%~~ | ~~Y / N~~ | |
| Oxidation/Reduction | 96.6 | ±10 | (Y) / N | |
| DTW Stabilized | 7.18 | feet | (Y) / N | |
| Final H2O level | 7.18 | 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: 0.75
Actual vol. pumped (gal): ~4.5

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N
Turbid? Y / (N)
Decontamination procedure used: Trippie rinse, Liquid-Ionox

Weather: 20°, snow.
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:**
0.36 + 0.39 = 0.75
use 5 gal bucket

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location :** Grassy Valley **Date:** 12/9/24

**Technician:** J. Crawford **Quarter:** 4

**Static Water Level (DTW):** 6.44 **Well ID:** GVMW-26B

**Is well Dry?** NO **If so Dry at:** — **Well Depth (TD):** 24 **feet**

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| 9:30 | | | 6.96 | 216.8 | 2.1 | 9.66 | 127.2 | |
| 9:35 | 6.60 | 0.16 | 6.62 | 210.9 | 2.1 | 9.53 | 136.4 | |
| 9:40 | 6.60 | 0.00 | 6.53 | 221.0 | 2.10 | 9.54 | 146.6 | 0.884/m |
| 9:45 | 6.60 | 0.00 | 6.47 | 210.0 | 2.1 | 9.31 | 156.2 | |
| 9:50 | 6.60 | 0.00 | 6.45 | 219.6 | 2.1 | 9.41 | 162.9 | |
| 9:55 | 6.60 | 0.00 | 6.44 | 200.1 | 2.1 | 9.37 | 171.9 | |
| 10:00 | 6.60 | 0.00 | 6.44 | 196.2 | 2.0 | 9.42 | 175.3 | |
| 10:05 | 6.60 | 0.00 | 6.45 | 199.3 | 2.0 | 9.31 | 180.1 | |
| | | | | | | | | |
| | | Total | Drawdown | | | | | |
| | | 0.16 | | | | | | |

**Sample Method:** low-flow **Rate (gpm):** 0.23 **Time Start:** 9:30 **Time End:** 10:05

** Flow rate at stabilization (during sample collection)*

| Final Parameter | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 6.45 | ±0.1 | (Y) / N | |
| Conductivity | 199.3 | 3% | (Y) / N | |
| Temp (deg C) | 2.0 | 3% | (Y) / N | |
| Dissolved Oxygen | 9.31 | 10% | (Y) / N | |
| ~~Turbidity~~ | | 10% | Y / N | |
| Oxidation/Reduction | 180.1 | ±10 | (Y) / N | |
| DTW Stabilized | 6.60 | feet | (Y) / N | |
| Final H2O level | 6.60 | feet | | |

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): — Actual vol. pumped (gal) 29
** See Field Volume Guide* following stabilization

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

Equipment Decontaminated: (Y) / N

Decontamination procedure used: Tripple rinse, Liquid-Ionoy

Weather: 21, Snow

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:**

use 5 gal bucket

# Low-Flow Test Report:

**Test Date / Time:** 12/17/2024 1:59:32 PM
**Project:** Low-Flow Test 1 (2)
**Operator Name:**

| | | |
|---|---|---|
| **Location Name: GVMW-27**<br>**Latitude: 38.7411712436078**<br>**Longitude: -105.12171885022599**<br>**Well Diameter: 4 in**<br>**Total Depth: 74.28 m**<br>**Initial Depth to Water: 57.76 m** | **Estimated Total Volume Pumped: 5 gal**<br>**Flow Cell Volume: 130 ml**<br>**Final Flow Rate: 0.05 gal/min**<br>**Final Draw Down: ~~57.9 ft~~** JC 0.14ft | **Instrument Used: Aqua TROLL 600**<br>**Serial Number: 1109809** |

**Test Notes:**
Could not get anything other than PH and water level to stabilize during the 50 minute test.

**Weather Conditions:**
42 Sunny

**Low-Flow Readings:**

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | ORP | Depth to Water | Flow |
|---|---|---|---|---|---|---|---|---|
| | | +/- 0.1 | +/- 3 % | +/- 3 % | +/- 10 % | +/- 10 | +/- 0.33 | |
| 12/17/2024 1:59 PM | 00:00 | 4.63 pH | 6.01 °C | 7.426e+06 µS/cm | 0.24 mg/L | -354.3 mV | 57.76 ft | 0.05 gal/min |
| 12/17/2024 2:04 PM | 05:00 | 4.65 pH | 6.58 °C | 6.692e+06 µS/cm | 0.15 mg/L | -322.5 mV | 57.90 ft | 0.05 gal/min |
| 12/17/2024 2:09 PM | 10:00 | 4.67 pH | 6.50 °C | 6.130e+06 µS/cm | 0.13 mg/L | -300.0 mV | 57.90 ft | 0.05 gal/min |
| 12/17/2024 2:14 PM | 15:00 | 4.67 pH | 6.71 °C | 5.729e+06 µS/cm | 0.12 mg/L | -247.5 mV | 57.90 ft | 0.05 gal/min |
| 12/17/2024 2:19 PM | 20:00 | 4.67 pH | 7.00 °C | 5.536e+06 µS/cm | 0.08 mg/L | -209.6 mV | 57.90 ft | 0.05 gal/min |
| 12/17/2024 2:24 PM | 25:00 | 4.62 pH | 7.06 °C | 5.259e+06 µS/cm | 0.06 mg/L | -137.0 mV | 57.90 ft | 0.05 gal/min |
| 12/17/2024 2:29 PM | 30:00 | 4.56 pH | 6.83 °C | 4.959e+06 µS/cm | 0.07 mg/L | -78.9 mV | 57.90 ft | 0.05 gal/min |
| 12/17/2024 2:34 PM | 35:00 | 4.50 pH | 6.70 °C | 4.867e+06 µS/cm | 0.10 mg/L | -32.6 mV | 57.90 ft | 0.05 gal/min |
| 12/17/2024 2:39 PM | 40:00 | 4.47 pH | 6.70 °C | 4.641e+06 µS/cm | 0.19 mg/L | -6.3 mV | 57.90 ft | 0.05 gal/min |
| 12/17/2024 2:44 PM | 45:00 | 4.46 pH | 6.60 °C | 4.467e+06 µS/cm | 0.28 mg/L | 17.1 mV | 57.90 ft | 0.05 gal/min |
| 12/17/2024 2:49 PM | 50:00 | 4.45 pH | 6.81 °C | 4.443e+06 µS/cm | 0.32 mg/L | 36.9 mV | 57.90 ft | 0.05 gal/min |

**Samples**

| Sample ID: | Description: |
|---|---|

| | |
|---|---|
| GVMW-27 12/17/24 | |

# Low-Flow Test Report:

**Test Date / Time:** 12/16/2024 12:15:35 PM
**Project:**
**Operator Name:**

| | | |
|---|---|---|
| **Location Name: GVMW-28**<br>**Latitude: 38.74225595503928**<br>**Longitude: -105.12302205907658**<br>**Well Diameter: 4 in**<br>**Total Depth: 71.5 m**<br>**Initial Depth to Water: 35.81 m** | **Flow Cell Volume: 130 ml**<br>**Final Flow Rate: 0.03 gal/min**<br>**Final Draw Down: -34.876 in** | **Instrument Used: Aqua TROLL 600**<br>**Serial Number: 1109809** |

**Test Notes:**

**Low-Flow Readings:**

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | ORP | Depth to Water | Flow |
|---|---|---|---|---|---|---|---|---|
| | | +/- 0.1 | +/- 3 % | +/- 3 % | +/- 3 % | +/- 10 | +/- 0.5 | |
| 12/16/2024 12:15 PM | 00:00 | 3.08 pH | 5.83 °C | 141,297 µS/cm | 1.94 mg/L | 529.7 mV | 35.81 in | 0.03 gal/min |
| 12/16/2024 12:20 PM | 05:00 | 3.07 pH | 5.71 °C | 143,094 µS/cm | 1.61 mg/L | 534.3 mV | 36.30 in | 0.03 gal/min |
| 12/16/2024 12:25 PM | 10:00 | 3.06 pH | 5.48 °C | 144,059 µS/cm | 1.61 mg/L | 535.0 mV | 36.69 in | 0.03 gal/min |
| 12/16/2024 12:30 PM | 15:00 | 3.06 pH | 5.87 °C | 144,007 µS/cm | 1.58 mg/L | 536.0 mV | 36.73 in | 0.03 gal/min |
| 12/16/2024 12:35 PM | 20:00 | 3.06 pH | 5.93 °C | 143,764 µS/cm | 1.57 mg/L | 537.0 mV | 36.78 in | 0.03 gal/min |
| 12/16/2024 12:40 PM | 25:00 | 3.06 pH | 5.92 °C | 143,594 µS/cm | 1.55 mg/L | 538.3 mV | 36.78 in | 0.03 gal/min |

**Samples**

| Sample ID: | Description: |
|---|---|
| GVMW-28 12-16-24 | |

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location :** Grassy Valley
**Technician:** T. Reed
**Static Water Level (DTW):** —
**Date:** 12/16/24
**Quarter:** 4
**Well ID:** GVMW-29
**Well Depth (TD):** 38.38 feet
**Is well Dry?** Yes
**If so Dry at:** 38.38

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
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**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 — If yes, required pump vol (gal): — Actual vol. pumped (gal) —
** See Field Volume Guide* — following stabilization

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

Decontamination procedure used: N/A

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:**

GVMW-29 is Dry

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location :** Grassy Valley
**Date:** 12/16/24
**Technician:** J. Cranford
**Quarter:** 4
**Static Water Level (DTW):** 50.30
**Well ID:** GVMW-30
**Is well Dry?** no
**If so Dry at:** —
**Well Depth (TD):** 51.29 feet

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

**Sample Method:** Purge & return **Rate (gpm):** — **Time Start:** 12/16/24 **Time End:** 12/17/24
** 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 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~~ If yes, required pump vol (gal): — Actual vol. pumped (gal) —
** See Field Volume Guide* following stabilization

O/G visible: ~~Y~~ / N
Turbid? ~~Y~~ / N
Equipment Decontaminated: ~~Y~~ / N
Decontamination procedure used: Triple rinse

Weather: 40°, Sunny
Signature: MC

**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:**
GVMW-30 is insufficient to Purge.

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**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location :** Grassy Valley
**Technician:** T. Reed
**Static Water Level (DTW):** —
**Is well Dry?** Yes
**If so Dry at:** ~~61.82~~ feet

**Date:** 12/16/24
**Quarter:** 4
**Well ID:** GVMW-31
**Well Depth (TD):** 61.82

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
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**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~~
Turbid? ~~Y / N~~
Equipment Decontaminated: ~~Y / N~~
Decontamination procedure used: N/A

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:**
GVMW-31 is Dry

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location :** Grassy Valley
**Technician:** T. Reed
**Static Water Level (DTW):** —
**Date:** 12/16/24
**Quarter:** 4
**Well ID:** GVMW-32
**Well Depth (TD):** 67.32 feet
**Is well Dry?** yes
**If so Dry at:** 67.32

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
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**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~~ If yes, required pump vol (gal): — Actual vol. pumped (gal) —
** See Field Volume Guide* following stabilization

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

Decontamination procedure used: N/A

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:**
GVMW-32 is Dry

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

Location : Grassy Valley
Technician: J. Crawford
Static Water Level (DTW): 65.16
Date: 12/16/24 – 12/17/24
Quarter: 4
Well ID: GVMW-33
Well Depth (TD): 85.70 feet
Is well Dry? NO
If so Dry at: —

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| 1:00 | | | 3.63 | 6519 | 4.3 | | 348 | |
| 1:06 | 75.65 | | | | 5.6 | | | |
| 12/17/24 11:10 | 65.08 | | 3.53 | 6489 | 5.6 | | 476 | |

Sample Method: Purge & return
Rate (gpm): — * Flow rate at stabilization (during sample collection)
Time Start: 12/16/24 1:00
Time End: 12/17/24 11:10

| 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)
Equipment Decontaminated: (Y) / N
Turbid? Y / (N)
Decontamination procedure used: Triple rinse, Liquid-Knox

Weather: 40° Sunny
Signature: [signature]

**Volume Calculations:**
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$
For 4" Diameter Well (gal): $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

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

**Show Calculations:**
Purge & return

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

Location: Grassy valley
Date: 12/16/24 - 12/17/24
Technician: J. crawford
Quarter: 4
Static Water Level (DTW): 61.40
Well ID: GVMW-34
Well Depth (TD): 84.62 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 |
|---|---|---|---|---|---|---|---|---|
| 11:45 | | | 5.93 | 3795 | 3.4 | | 375 | |
| | ~~75.60~~ | | | | | | | |
| 12:01 | 75.60 | | | | | | | |
| | | | | | | | | |
| 12/17/24 10:25 | 61.48 | | 6.64 | 3807 | 3.6 | | 256 | |

Sample Method: Purge & return
Rate (gpm): — * Flow rate at stabilization (during sample collection)
Time Start: 12/16/24 11:45
Time End: 12/17/24 10:25

| Final Parameter | 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: Triple rinse, Liquinox

Weather: 35°, Sunny
Signature:

| Volume Calculations: | |
|---|---|
| For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$ | For 4" Diameter Well (gal): $V(gal) = 0.6528 * h(ft)$ |
| Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$ | |
| Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$ | |
| Well Volume Purge Method: *Three Well Volumes = 3*V* | |
| Conversions: $1ft^3 = 7.48\ gal$, $1gal = 3.785\ L$ | Show Calculations: Purge & return |

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**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location :** Grassy Valley
**Date:** 12/17/24
**Technician:** J. Crawford
**Quarter:** 4
**Static Water Level (DTW):** unable to get
**Well ID:** CarMW-35A
**Is well Dry?** no
**If so Dry at:** —
**Well Depth (TD):** 340 feet

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
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**Sample Method:** Grab **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 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~~ If yes, required pump vol (gal): — Actual vol. pumped (gal) —
** See Field Volume Guide* following stabilization

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

Decontamination procedure used: Dedicated Pump

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:**
Dedicated Pump is Frozen
cannot get sounder ~~to~~ JC past 207 feet.

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**

## Groundwater Sampling Log

**Location :** Grassy Valley
**Technician:** J. Cranford
**Static Water Level (DTW):** 33.09
**Is well Dry?** No
**If so Dry at:** —
**Date:** 12/16/24 - 12/17/24
**Quarter:** 4
**Well ID:** GVMW-35B
**Well Depth (TD):** 72.90 feet

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| 11:13 | | | 5.86 | 2214 | 3.3 | — | 403 | |
| 11:38 | 70.76 | | | | | | | |
| 12/17/24 10:05 | 33.29 | | 5.65 | 2238 | 4.3 | | 380 | |

**Sample Method:** Purge & return **Rate (gpm):** — * Flow rate at stabilization (during sample collection)
**Time Start:** 12/16/24 11:13 **Time End:** 12/17/24 10:05

| 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): — Actual vol. pumped (gal) —
* See Field Volume Guide — following stabilization

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N
Turbid? (Y) / N
Decontamination procedure used: Tripple rinse, Liquid - Ionox

Weather: 34°, Sunny
Signature:

| | |
|---|---|
| **Volume Calculations:** | |
| **For 2" Diameter Well (gal):** $V(gal) = 0.1632 * h(ft)$ | **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$ |
| **Other Diameter Well & Tubing Vol (gal):** $V(gal) = 0.1632 * (r(in))^2 * h(ft)$ | |
| **Water Column Calculation:** $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$ | |
| **Well Volume Purge Method:** *Three Well Volumes = 3*V* | |
| **Conversions:** $1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$ | **Show Calculations:** Purge & return |

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## Groundwater Sampling Log

**Location :** Grassy valley
**Technician:** J. Crawford
**Static Water Level (DTW):** 19.08
**Is well Dry?** no
**If so Dry at:** —

**Date:** 12/16/24 - 12/17/24
**Quarter:** 4
**Well ID:** GVMW-36
**Well Depth (TD):** 37.97 feet

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| 10:54 | | | 3.13 | 8547 | 5.7 | | 515 | |
| 11:00 | 35.00 | | | | | | | |
| | | | | | ~~4.850~~ | | | |
| 12/17/24 9:26 | 30.81 | | 3.19 | 8255 | 4.8 | | 457 | |

**Sample Method:** Purge & return
**Rate (gpm):** — * Flow rate at stabilization (during sample collection)
**Time Start:** 12/16/24 10:54 **Time End:** 12/17/24 9:26

| 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): — Actual vol. pumped (gal) —
* See Field Volume Guide — following stabilization

O/G visible: Y / N
Equipment Decontaminated: (Y) / N
Turbid? Y / (N)
Decontamination procedure used: Tripple rinse, Liquid Knox

Weather: 33°, Sunny
Signature:

| | |
|---|---|
| **Volume Calculations:** | |
| **For 2" Diameter Well (gal):** $V(gal) = 0.1632 * h(ft)$ | **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$ |
| **Other Diameter Well & Tubing Vol (gal):** $V(gal) = 0.1632 * (r(in))^2 * h(ft)$ | |
| **Water Column Calculation:** $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$ | |
| **Well Volume Purge Method:** *Three Well Volumes = 3*V* | |
| **Conversions:** $1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$ | **Show Calculations:** |

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## Groundwater Sampling Log

Location: Grassy Valley
Technician: T. Reed
Static Water Level (DTW): 38.55
Is well Dry? NO
Date: 12/12/24
Quarter: 4
Well ID: GLMW-37A
Well Depth (TD): 201.70
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 |
|---|---|---|---|---|---|---|---|---|
| 8:05 | 38.62 | | 8.69 | 382.50 | 5.71 | 0.32 | 223.4 | |
| 8:10 | 38.62 | 0.07 | 8.70 | 382.32 | 5.53 | 0.22 | 208.7 | 0.68 L/m |
| 8:15 | 38.62 | 0.00 | 8.71 | 378.97 | 5.46 | 0.24 | 203.2 | |
| 8:20 | 38.62 | 0.00 | 8.72 | 376.56 | 5.47 | 0.14 | 146.3 | |
| 8:25 | 38.62 | 0.00 | 8.73 | 366.74 | 5.48 | 0.12 | 144.1 | |
| | | Total Drawdown 0.07 | | | | | | |

Sample Method: low-flow
Rate (gpm): 0.18 * Flow rate at stabilization (during sample collection)
Time Start: 8:05 Time End: 8:25

| Final Parameter | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 8.73 | ±0.1 | (Y) / N | |
| Conductivity | 366.74 | 3% | (Y) / N | |
| Temp (deg C) | 5.48 | 3% | (Y) / N | |
| Dissolved Oxygen | 0.12 | 10% | (Y) / N | |
| ~~Turbidity~~ | | ~~10%~~ | Y / N | |
| Oxidation/Reduction Potential | 144.1 | ±10 | (Y) / N | |
| DTW Stabilized | 38.62 | feet | (Y) / N | |
| Final H2O level | 38.62 | 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) ~4.5

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Tripple rinse, Liquinox wash

Weather: 25°, Sunny
Signature: [signature]

**Volume Calculations:**
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$
For 4" Diameter Well (gal): $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
Well Volume Purge Method: *Three Well Volumes = 3*V*

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

**Show Calculations:**
use 5 gal bucket

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## Groundwater Sampling Log

**Location :** Grassy Valley **Date:** 12/12/24
**Technician:** J. Crumford **Quarter:** 4
**Static Water Level (DTW):** 37.44 **Well ID:** GVMW-37B
**Is well Dry?** NO **If so Dry at:** — **Well Depth (TD):** 74.89 **feet**

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| 8:05 | | | 7.18 | 460.2 | 1.4 | 7.54 | 151.7 | |
| 8:10 | 37.89 | 0.45 | 7.55 | 426.2 | 1.3 | 5.32 | 75.3 | |
| 8:15 | 37.94 | 0.05 | 7.52 | 419.6 | 1.4 | 4.94 | 65.0 | Cs. 15 L/m |
| 8:20 | 37.94 | 0.00 | 7.54 | 414.8 | 1.4 | 4.63 | 65.3 | |
| 8:25 | 37.94 | 0.00 | 7.57 | 409.1 | 1.5 | 4.49 | 67.7 | |
| 8:30 | 37.94 | 0.00 | 7.62 | 408.2 | 1.5 | 4.46 | 70.6 | |
| | Total Drawdown | | | | | | | |
| | | 0.50 | | | | | | |

**Sample Method:** low-flow **Rate (gpm):** 0.03 **Time Start:** 8:05 **Time End:** 8:30
** Flow rate at stabilization (during sample collection)*

| Final Parameters | Stabilization Guidance | | Met? | Comments |
|---|---|---|---|---|
| pH | 7.62 | ±0.1 | (Y) / N | |
| Conductivity | 408.2 | 3% | (Y) / N | |
| Temp (deg C) | 1.5 | 3% | (Y) / N | |
| Dissolved Oxyger | 4.46 | 10% | (Y) / N | |
| ~~Turbidity~~ | | ~~10%~~ | ~~Y / N~~ | |
| Oxidation/Reduction | 70.6 | ±10 | (Y) / N | |
| DTW Stabilized | 37.94 | feet | (Y) / N | |
| Final H2O level | 37.94 | 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: 1.22 Actual vol. pumped (gal) ~1.5

O/G visible: Y / (N)
Equipment Decontaminated: (Y) / N Turbid? Y / (N)
Decontamination procedure used: Tripple rinse, Liquid - Knox

Weather: 25°, Sunny
Signature:

| | |
|---|---|
| **Volume Calculations:** | |
| **For 2" Diameter Well (gal):** $V(gal) = 0.1632 * h(ft)$ | **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$ |
| **Other Diameter Well & Tubing Vol (gal):** $V(gal) = 0.1632 * (r(in))^2 * h(ft)$ | |
| **Water Column Calculation:** $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$ | |
| **Well Volume Purge Method:** *Three Well Volumes = 3*V* | |
| **Conversions:** $1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$ | **Show Calculations:** 0.50 & 0.42 + .3 = 1.22 use 5 gal Bucket |

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JC

## Groundwater Sampling Log

12/10/24

**Location :** Grassy Valley **Date:** ~~12/12/24~~

**Technician:** J. Crawford **Quarter:** 4

**Static Water Level (DTW):** 27.37 **Well ID:** GVMW-107G

**Is well Dry?** no **If so Dry at:** — **Well Depth (TD):** 50 feet

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
| | | JC | X | JC | | | | |
| ~~10:00~~ | JC | ~~6.40~~ | ~~44.7~~ | ~~2.0~~ | | | | |
| 10:00 | | | 6.40 | 411.7 | 2.0 | 9.87 | 185.7 | |

**Sample Method:** low-flow **Rate (gpm):** 0.21 **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: Triple rinse, Liquid - Ichor

Weather: 10°, Sunny

Signature:

| | |
|---|---|
| **Volume Calculations:** | |
| **For 2" Diameter Well (gal):** $V(gal) = 0.1632 * h(ft)$ | **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$ |
| **Other Diameter Well & Tubing Vol (gal):** $V(gal) = 0.1632 * (r(in))^2 * h(ft)$ | |
| **Water Column Calculation:** $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$ | |
| **Well Volume Purge Method:** *Three Well Volumes = 3*V* | |
| **Conversions:** $1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$ | **Show Calculations:** GVMW-7B Duplicate. |

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## Groundwater Sampling Log

**Location :** Grassy Valley
**Date:** 12/9/24
**Technician:** J. Cranford
**Quarter:** 4
**Static Water Level (DTW):**
**Well ID:** OSABH-12
**Is well Dry?** yes
**If so Dry at:** 39
**Well Depth (TD):** 39 **feet**

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

**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 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): following stabilization
Actual vol. pumped (gal)

O/G visible: Y / N
Turbid? Y / N
Equipment Decontaminated: Y / N
Decontamination procedure used: n/a

Weather: 22°, snow
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:**
OSABH-12 is Dry

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## Groundwater Sampling Log

**Location :** Grassy Valley
**Date:** 12/10/24
**Technician:** J. Cranford
**Quarter:** 4
**Static Water Level (DTW):** —
**Well ID:** OSABH-14
**Is well Dry?** yes
**If so Dry at:** 29
**Well Depth (TD):** 29 feet

| Time | Depth to Water (ft) | Drawdown (ft) | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | DO mg/L | ORP | Notes |
|---|---|---|---|---|---|---|---|---|
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**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 — If yes, required pump vol (gal): — Actual vol. pumped (gal)
** See Field Volume Guide* following stabilization

O/G visible: Y / N
Turbid? Y / N
Equipment Decontaminated: Y / N
Decontamination procedure used: N/A

Weather: 15°, Sunny
Signature:

**Volume Calculations:**
**For 2" Diameter Well (gal):** $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
**Other Diameter Well & Tubing Vol (gal):** $V(gal) = 0.1632 * (r(in))^2 * h(ft)$
**Water Column Calculation:** $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$
**Well Volume Purge Method:** *Three Well Volumes = 3*V*

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

**Show Calculations:**
OSABH-14 is DRY

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## Groundwater Sampling Log

**Location :** Grassy Valley **Date:** 12/12/24

**Technician:** J. Cranford **Quarter:** 4

**Static Water Level (DTW):** 37.87 **Well ID:** OSABH-16

**Well Depth (TD):** 40.5 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 |
|---|---|---|---|---|---|---|---|---|
| | | Insufficient | | | | | | |

**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 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~~ 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: N/a, used Sounder

Weather: 37°, Sunny

Signature:

**Volume Calculations:**

**For 2" Diameter Well (gal):** $V(gal) = 0.1632 * h(ft)$ **For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$

**Other Diameter Well & Tubing Vol (gal):** $V(gal) = 0.1632 * (r(in))^2 * h(ft)$

**Water Column Calculation:** $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$

**Well Volume Purge Method:** *Three Well Volumes = 3*V*

**Conversions:**

$1ft^3 = 7.48\ gal$

$1gal = 3.785\ L$

**Show Calculations:**

Insufficient to Pump.

# Low-Flow Test Report:

**Test Date / Time:** 12/16/2024 10:05:08 AM
**Project:**
**Operator Name:**

| | | |
|---|---|---|
| **Location Name: Device Location**<br>**Initial Depth to Water: 14.94** Feet<br>Total Depth: 30.35' | **Flow Cell Volume: 130 ml**<br>**Final Flow Rate: 0.05 gal/min**<br>**Final Draw Down: -14.555** Feet | **Instrument Used: Aqua TROLL 600**<br>**Serial Number: 1109809** |

**Test Notes:**

**Low-Flow Readings:**

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | ORP | Depth to Water | Flow |
|---|---|---|---|---|---|---|---|---|
| | | +/- 0.1 | +/- 3 % | +/- 3 % | +/- 1.5 | +/- 10 | +/- 5 | |
| 12/16/2024 10:05 AM | 00:00 | 3.02 pH | 6.24 °C | 261,803 µS/cm | 0.03 mg/L | 555.1 mV | 14.94 in | 0.05 gal/min |
| 12/16/2024 10:10 AM | 05:00 | 3.03 pH | 6.31 °C | 258,904 µS/cm | 0.03 mg/L | 557.0 mV | 15.16 in | 0.05 gal/min |
| 12/16/2024 10:15 AM | 10:00 | 3.03 pH | 6.25 °C | 260,199 µS/cm | 0.02 mg/L | 558.9 mV | 15.16 in | 0.05 gal/min |
| 12/16/2024 10:16 AM | 11:30 | 3.03 pH | 6.25 °C | 260,801 µS/cm | 0.02 mg/L | 559.5 mV | 15.16 in | 0.05 gal/min |
| 12/16/2024 10:21 AM | 16:30 | 3.03 pH | 6.28 °C | 261,720 µS/cm | 0.01 mg/L | 562.0 mV | 15.16 in | 0.05 gal/min |
| 12/16/2024 10:26 AM | 21:30 | 3.02 pH | 6.40 °C | 262,428 µS/cm | 0.01 mg/L | 564.5 mV | 15.16 in | 0.05 gal/min |
| 12/16/2024 10:31 AM | 26:30 | 3.02 pH | 6.42 °C | 262,477 µS/cm | 0.01 mg/L | 566.8 mV | 15.16 in | 0.05 gal/min |

**Samples**

| Sample ID: | Description: |
|---|---|
| OSABH-17 12-16124 | |

Created using VuSitu from In-Situ, Inc.

Comments:
Use 5gal Buckets
Total Gallons Pumped = ~1.5gal
Triple Rinse Liquid Knox

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**
**Surface Water Sampling Log**

**Location:** RB-1210 **Date:** 12/10/24

**Technician:** T. Reed **Quarter:** 4

| Time | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | ORP | Chlorine |
|---|---|---|---|---|---|
| 1103 | 6.54 | 2627 | 6.3 | 125.5 | |

**Sample Method:** Grab

**Oil/Gas visible** [ Y / (N) ]

**Turbid** [ Y / (N) ]

**Clear** [ (Y) / N ]

**Weather:** 18°, Sunny

**Signature:**

**Comments / Notes:**

** Field Parameters (pH, Conductivity, Temperature, ORP and Chlorine) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**
**Surface Water Sampling Log**

**Location:** Seep-1 **Date:** 12/10/24

**Technician:** T. Reed. **Quarter:** 4

| Time | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | ORP |
|---|---|---|---|---|
| 7:51 | — | Frozen | — | — |

**Sample Method:** —

**Oil/Gas visible** ~~[Y / N]~~

**Turbid** ~~[Y / N]~~

**Clear** ~~[Y / N]~~

**Weather:** 4°

**Signature:** [signature]

**Comments / Notes:**

Seep-1 is frozen

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

**Newmont Mining Co**
**Cripple Creek & Victor Gold Mining Co**
**Surface Water Sampling Log**

**Location:** Seep-2 **Date:** 12/10/24

**Technician:** T. Reed. **Quarter:** 4

| Time | pH (S.U.) | Cond. (uS/cm) | Temp. (°C) | ORP |
|---|---|---|---|---|
| 7:53 | | Frozen | | |

**Sample Method:** —

**Oil/Gas visible** ~~[Y / N]~~

**Turbid** ~~[Y / N]~~

**Clear** ~~[Y / N]~~

**Weather:** 40

**Signature:**

**Comments / Notes:**

Seep-2 is frozen

** Field Parameters (pH, Conductivity, Temperature, and ORP) must be analyzed within 15 minutes of sample collection.*

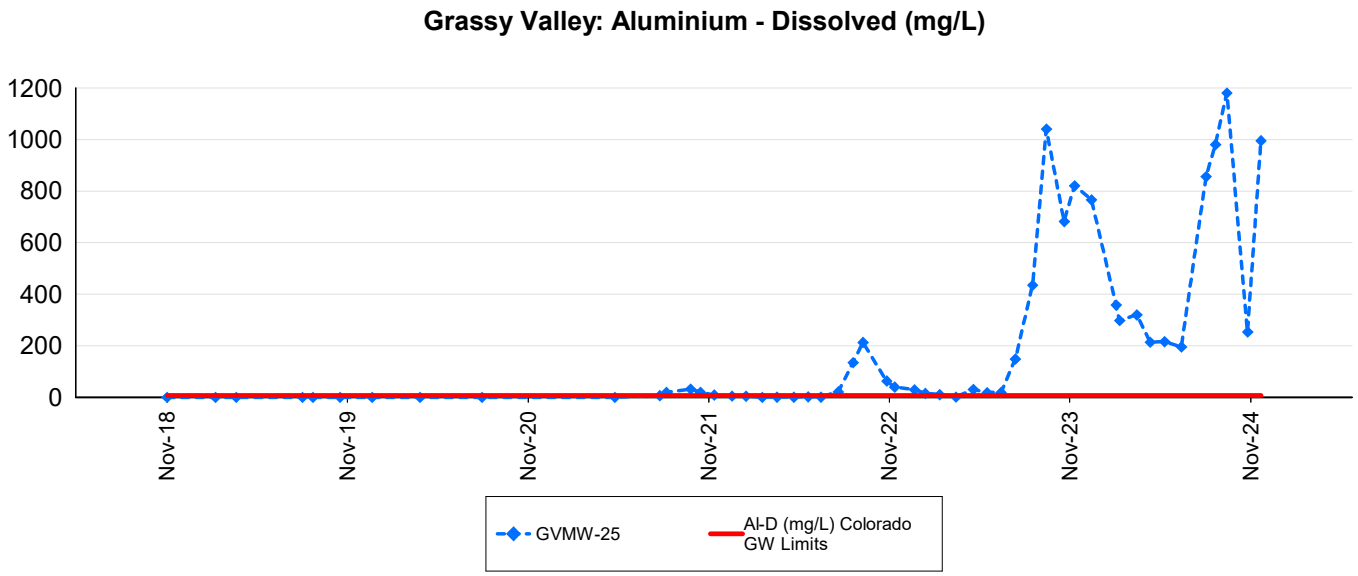
Newmont
NORTH AMERICA

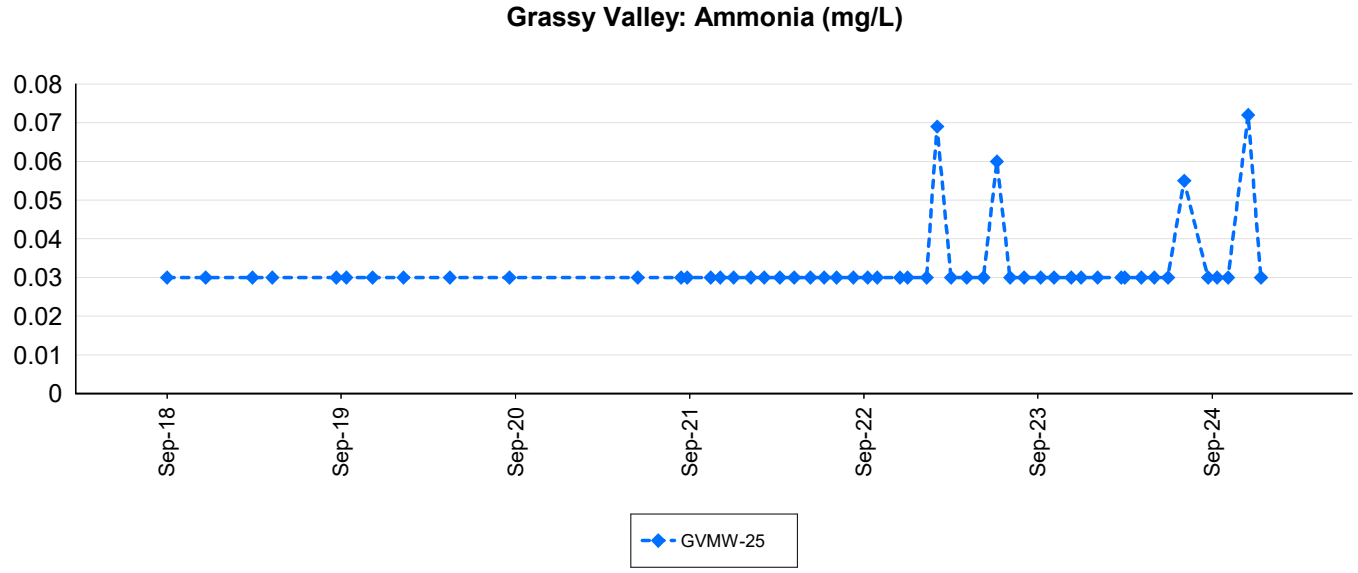
Cripple Creek & Victor
Gold Mining Company
P.O. Box 191
100 North 3rd Street
Victor, Colorado 80860

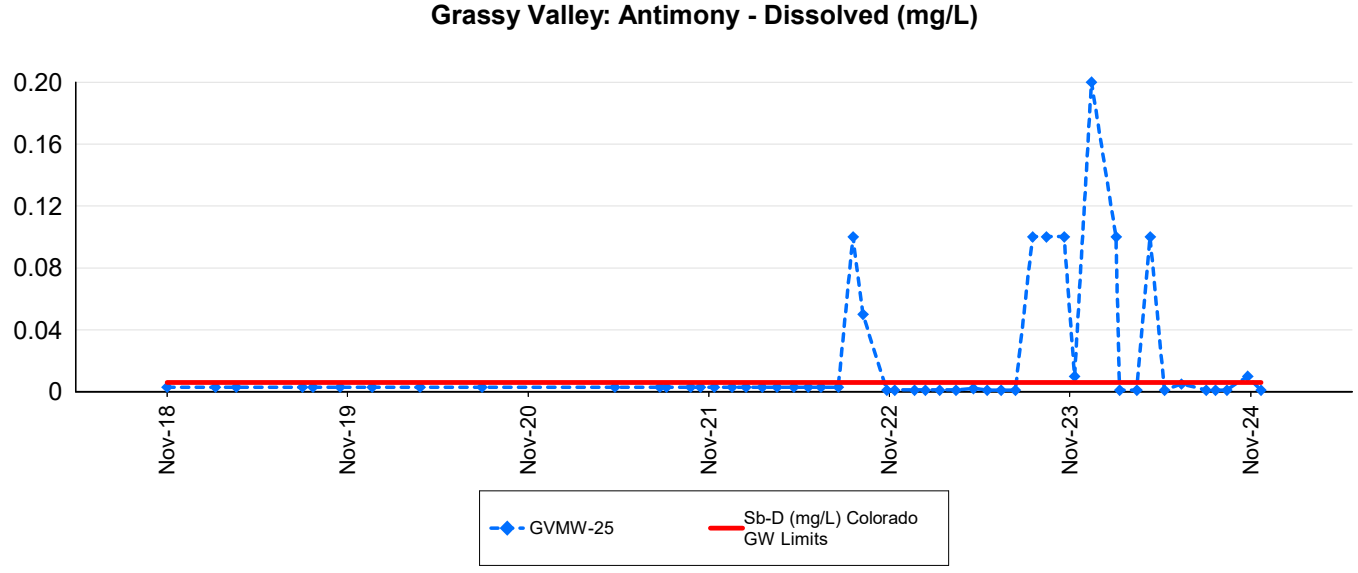
P 719.689.2977
F 719.689.3254
newmont.com

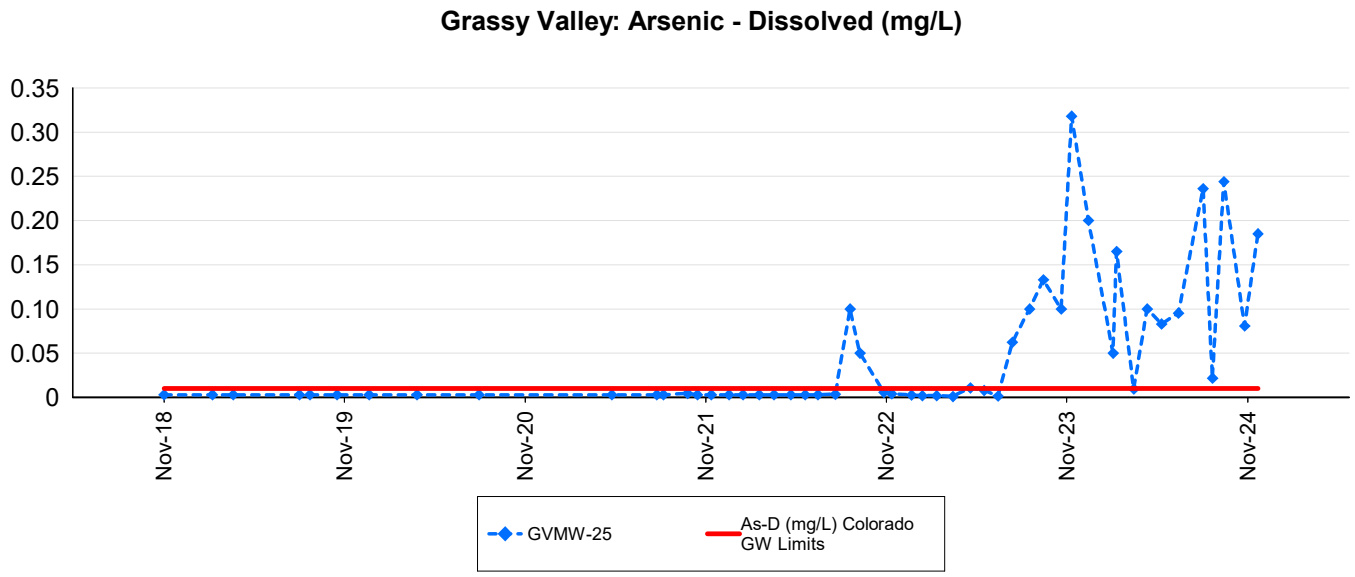
# Attachment 3

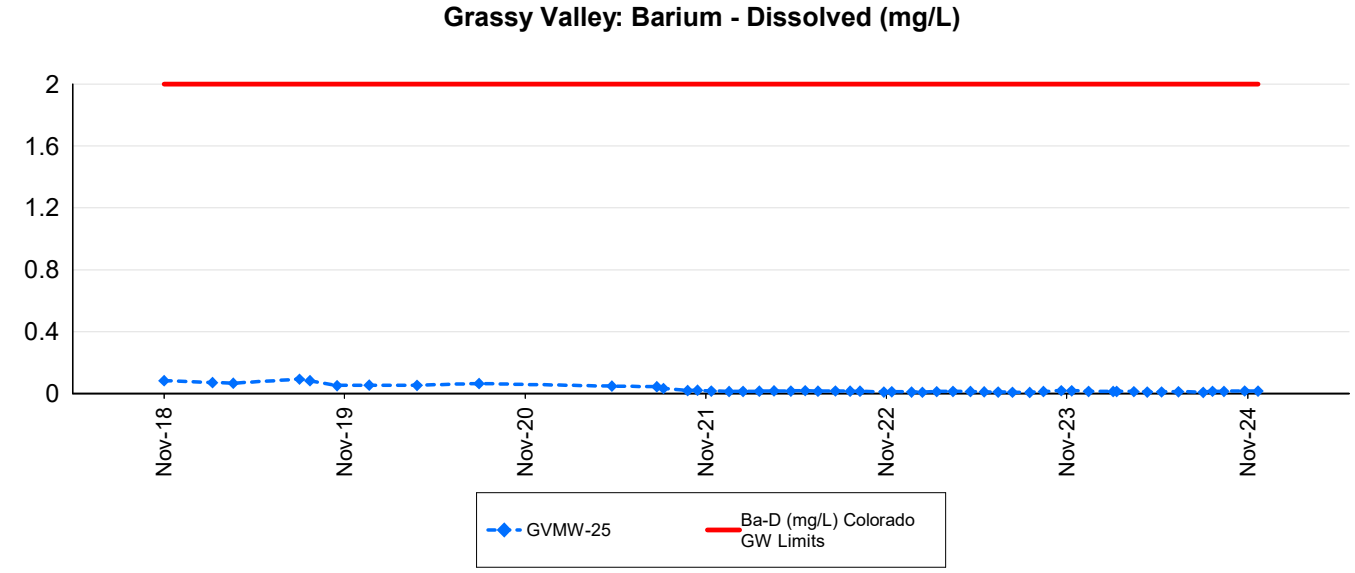
## GVMW-25 Historical Graphs

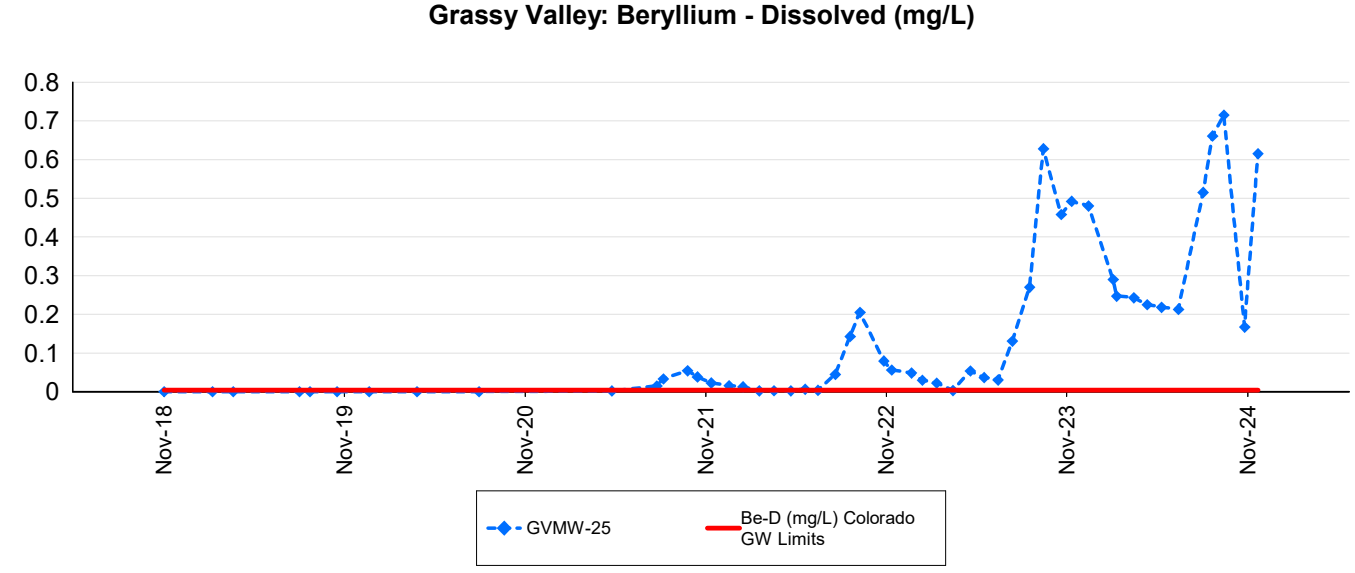


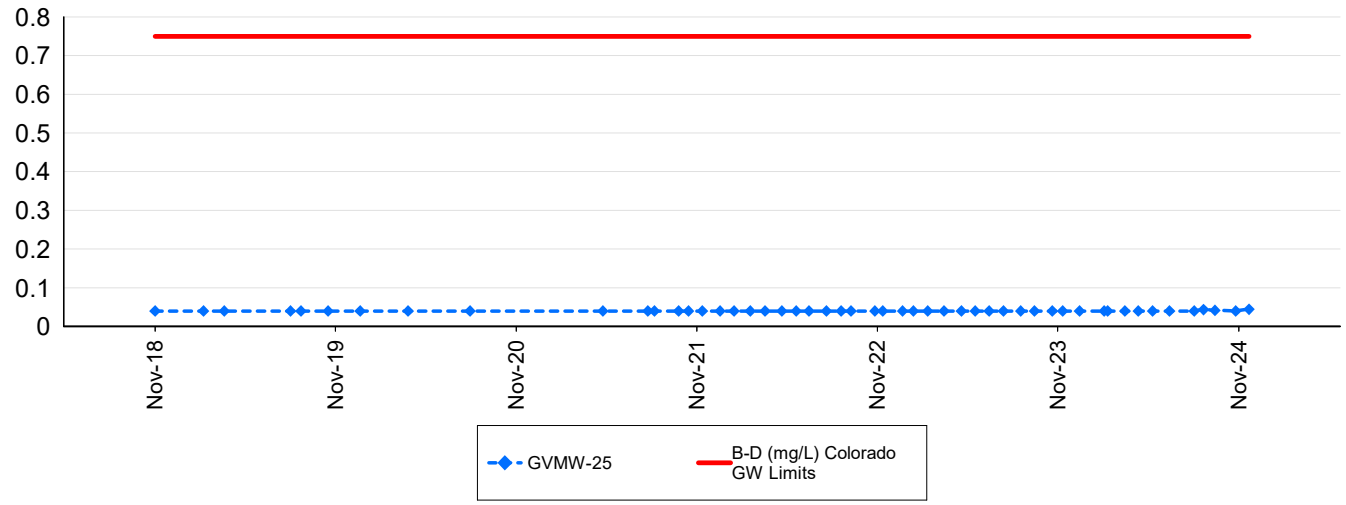





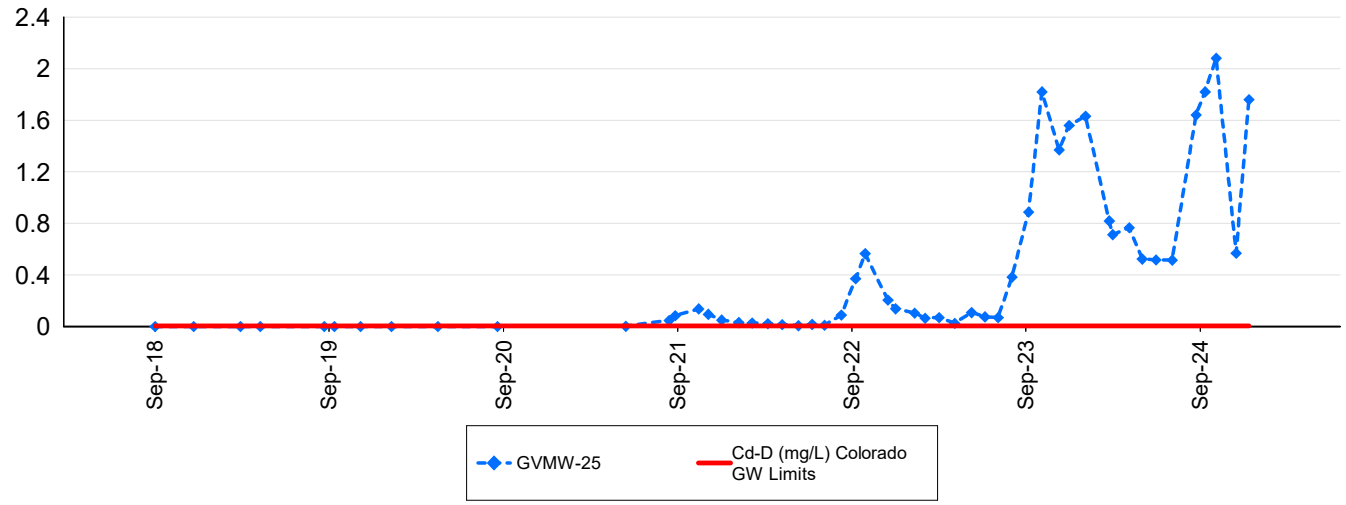



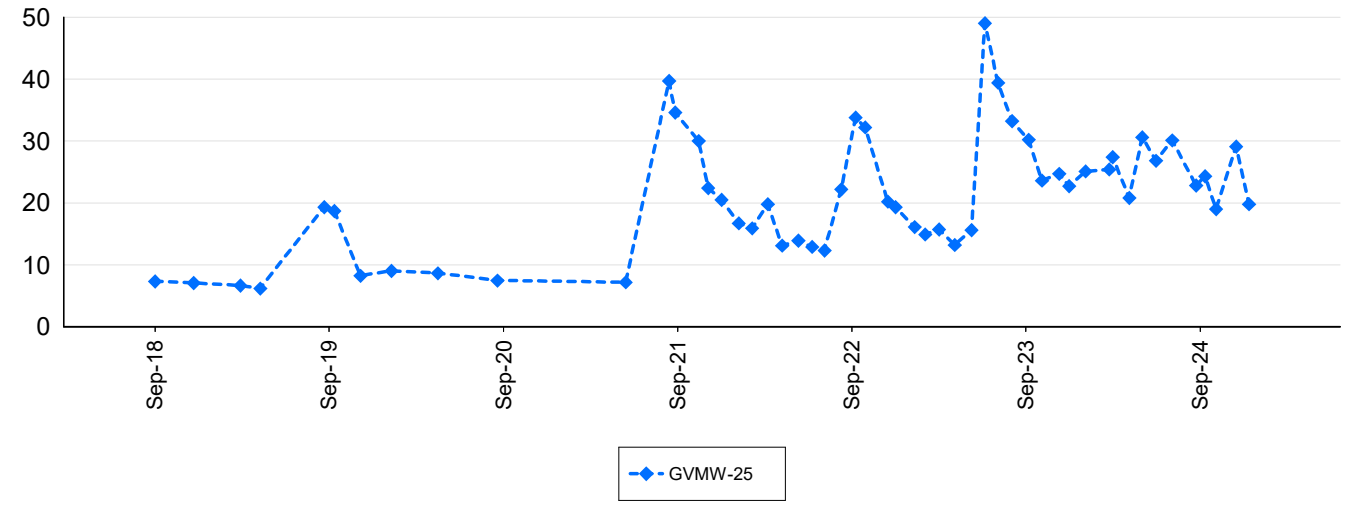
## Grassy Valley: Boron - Dissolved (mg/L)

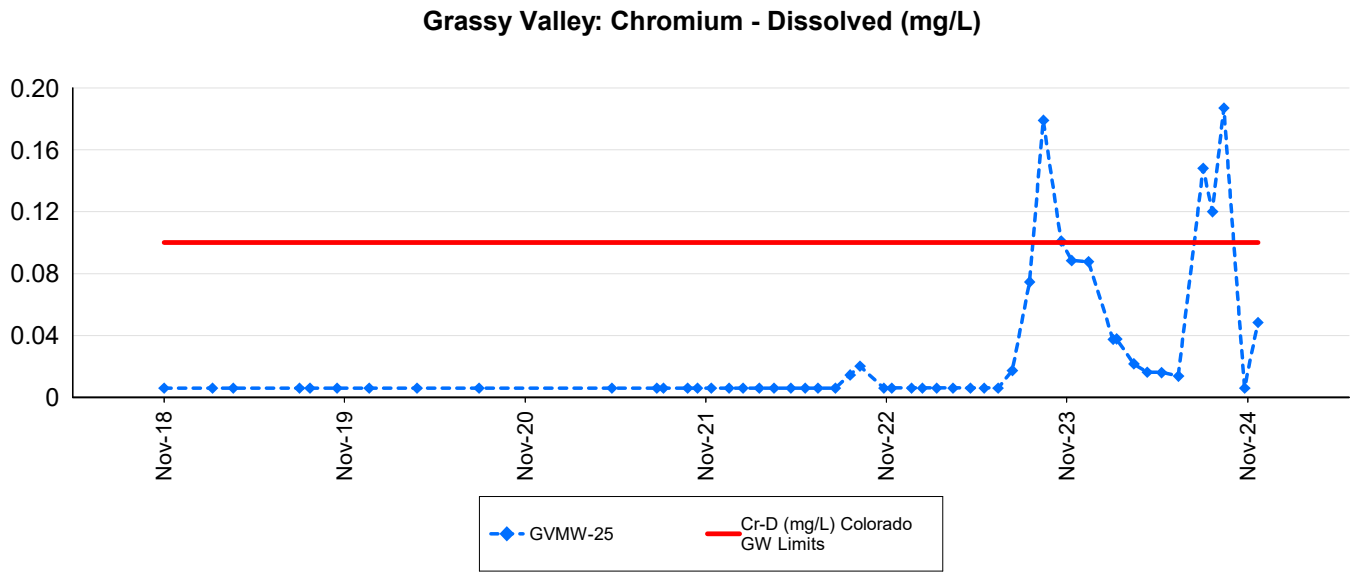


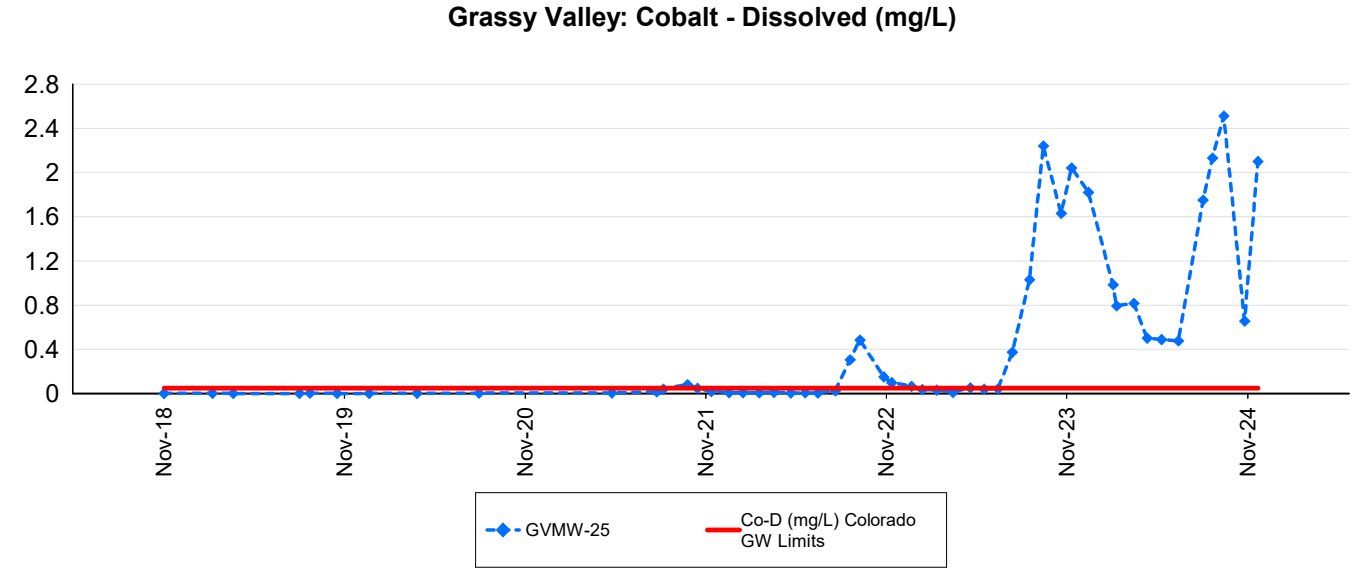

## Grassy Valley: Cadmium - Dissolved (mg/L)

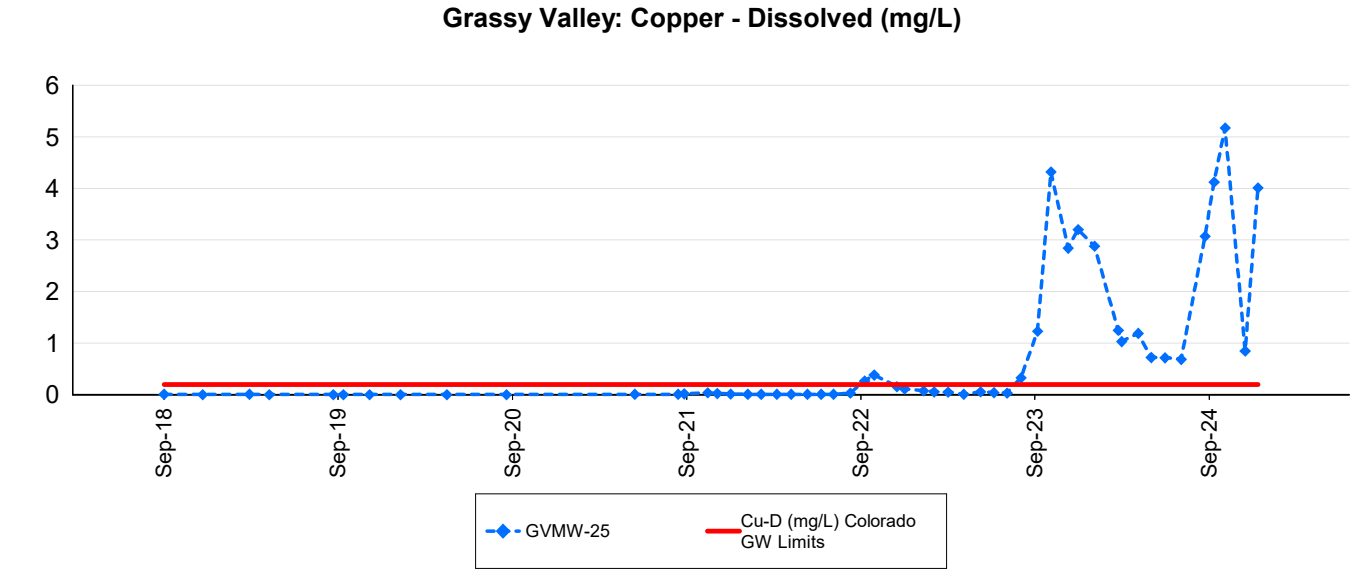


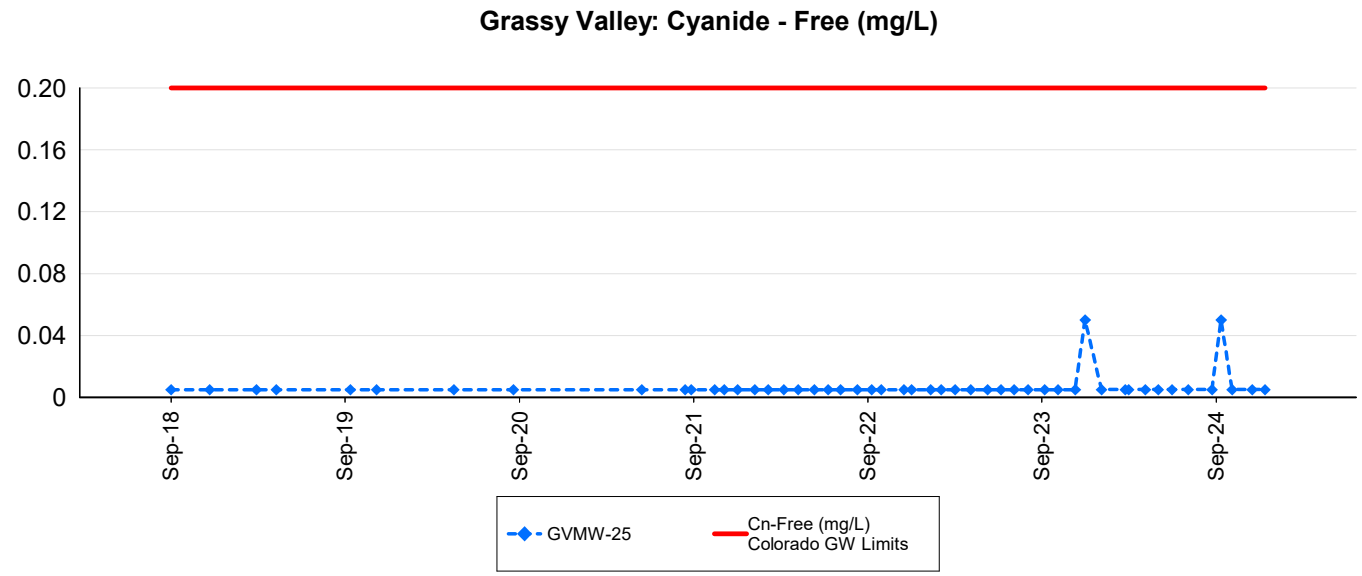

## Grassy Valley: Chloride - Total (mg/L)

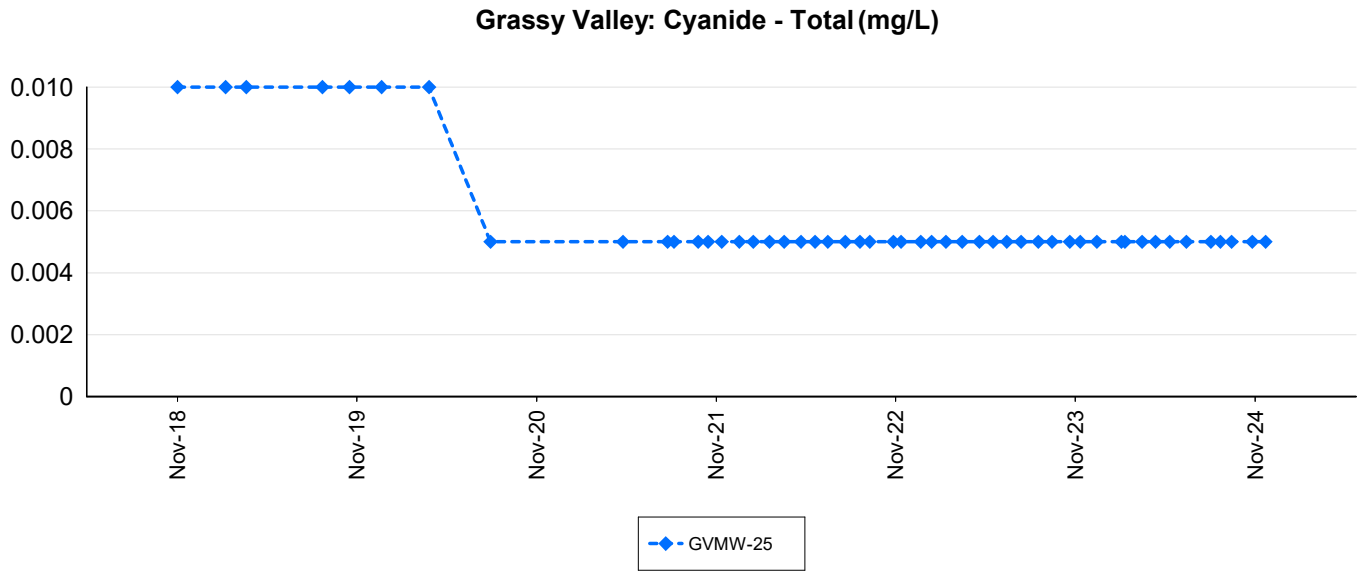


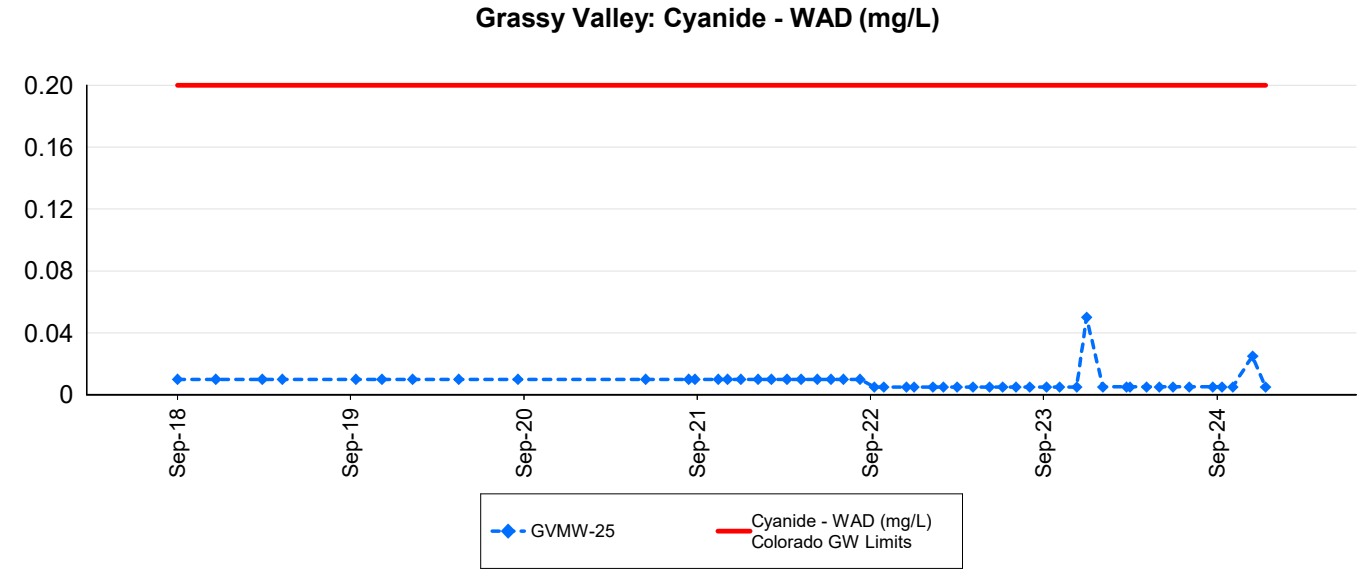


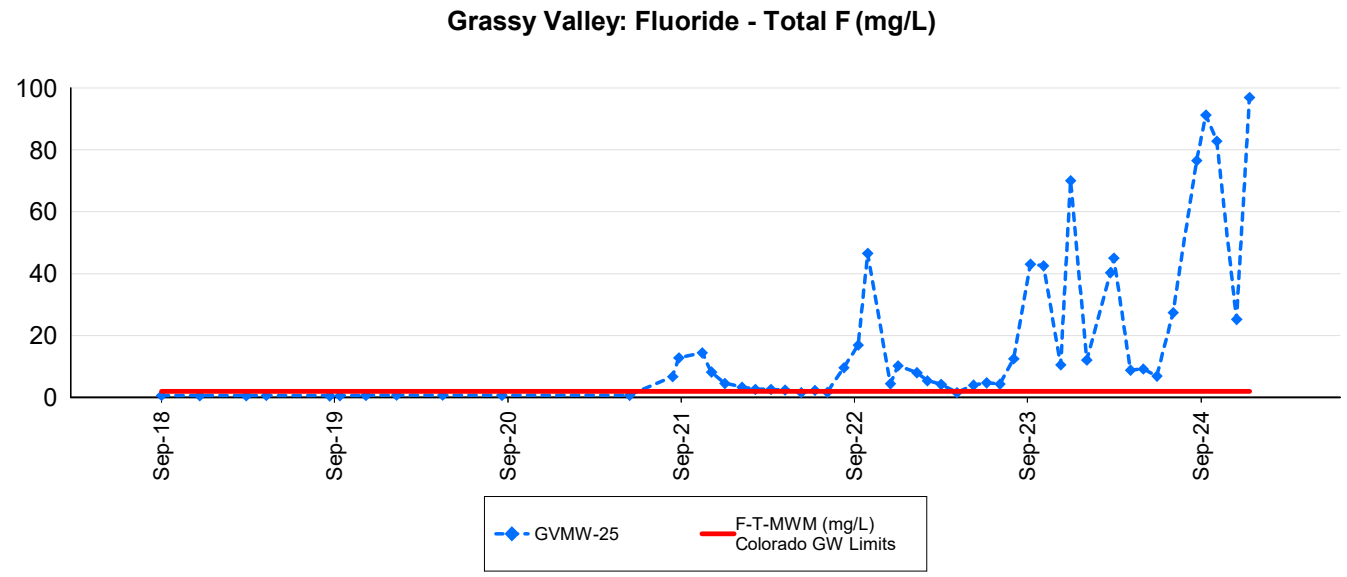



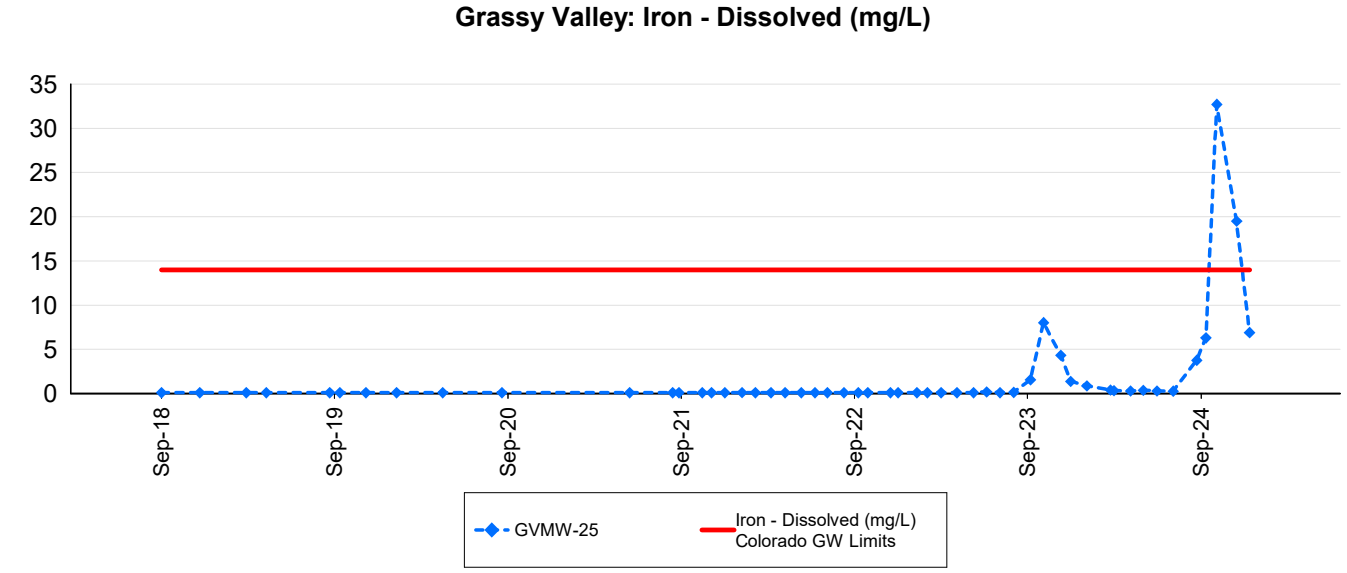



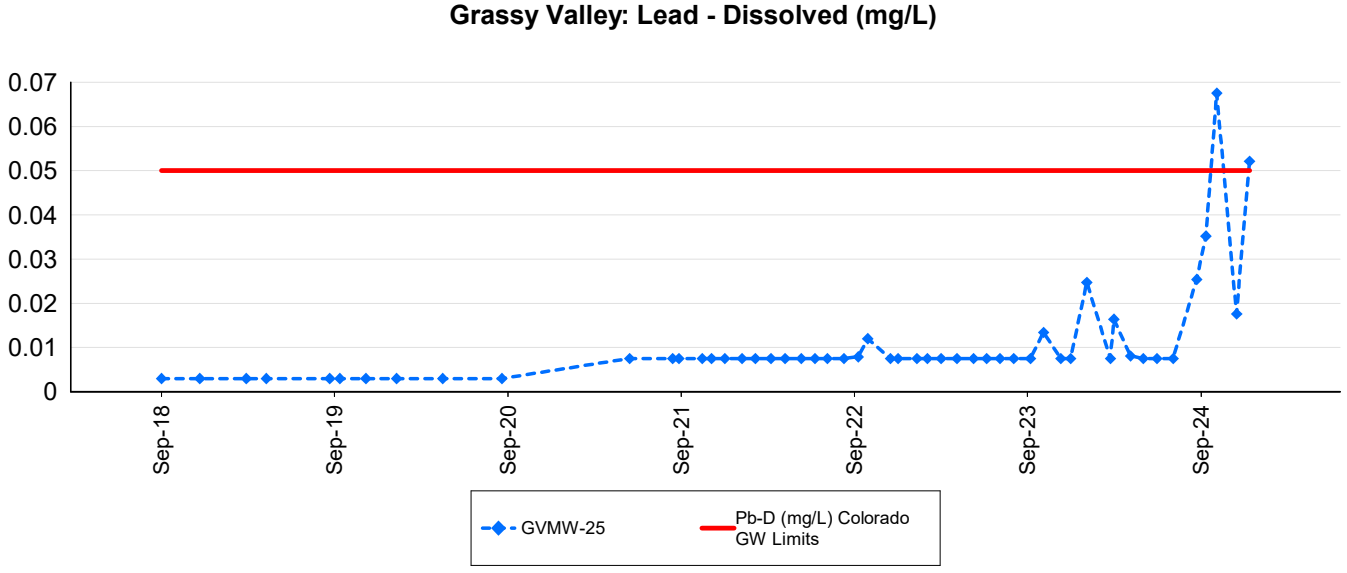


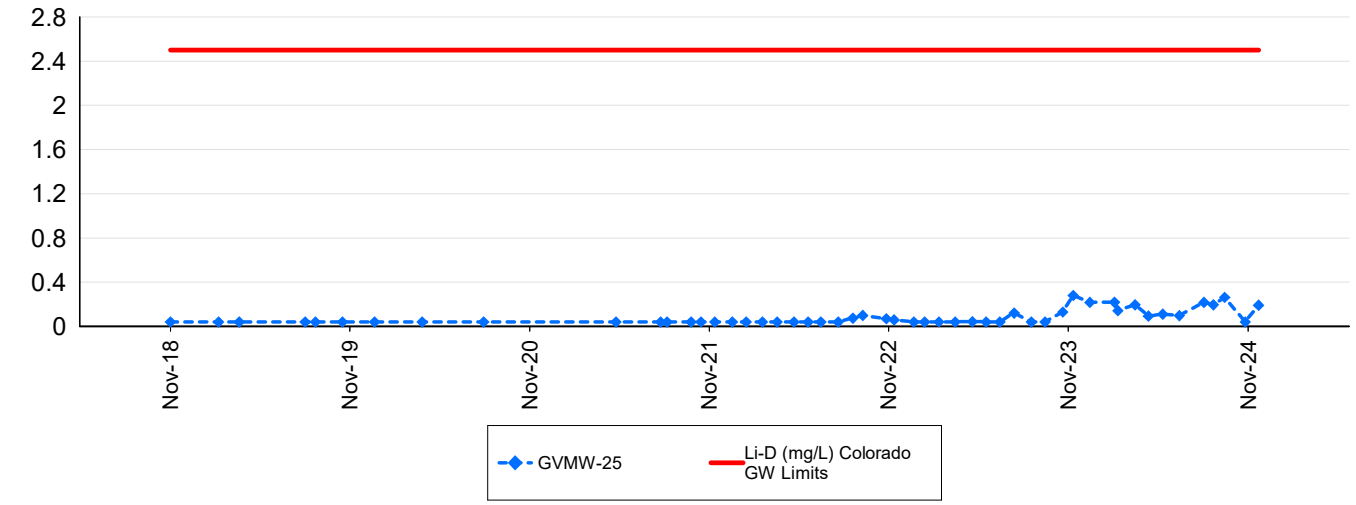





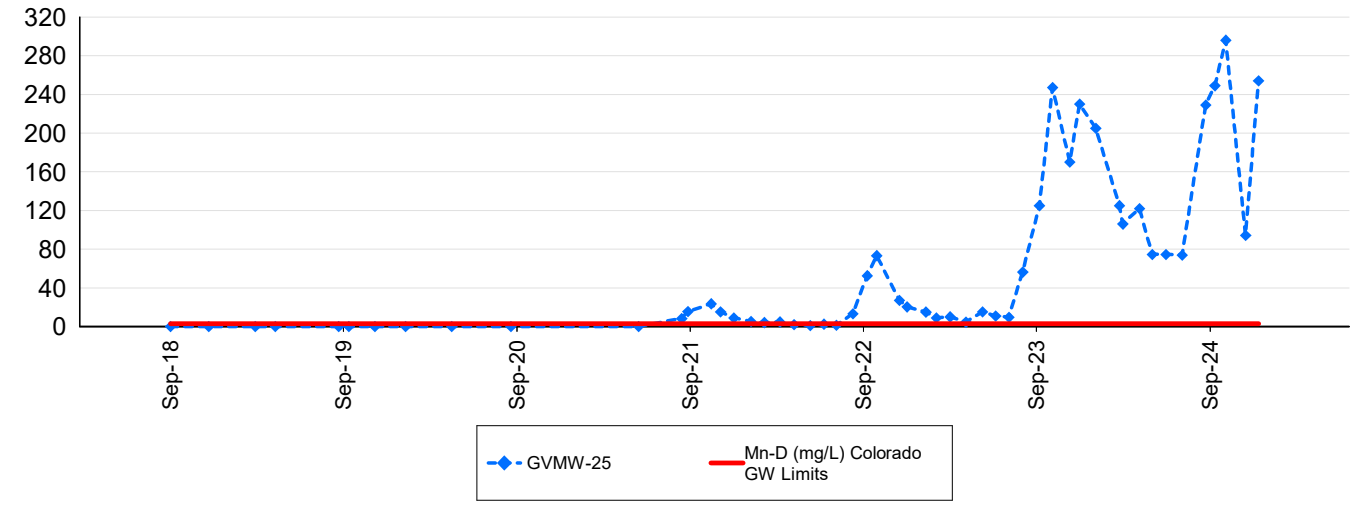



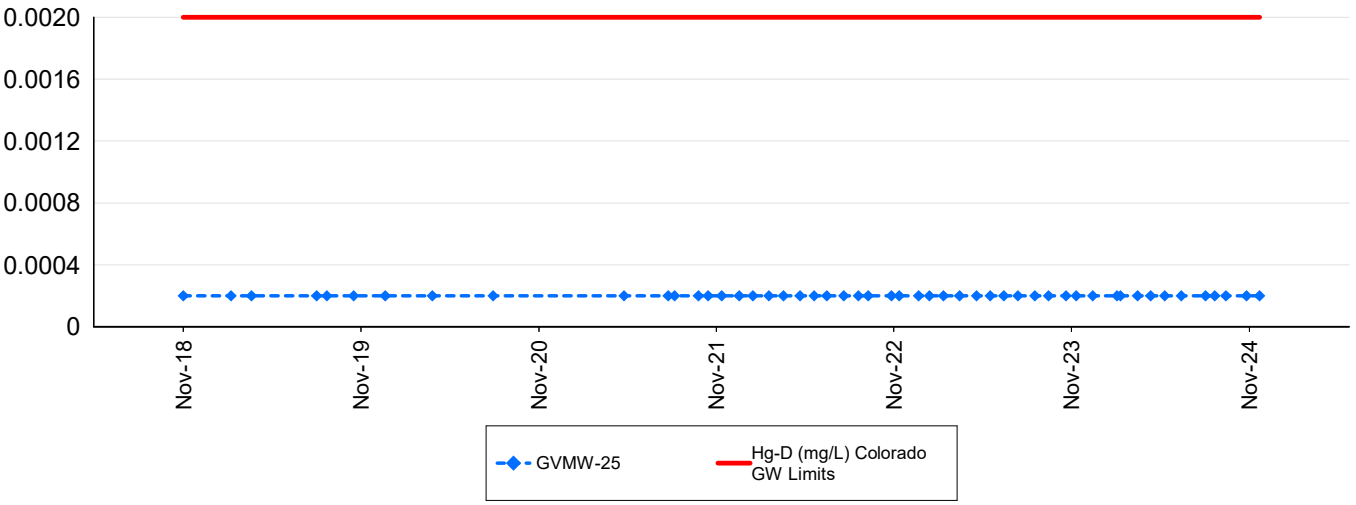
## Grassy Valley: Lithium - Dissolved (mg/L)



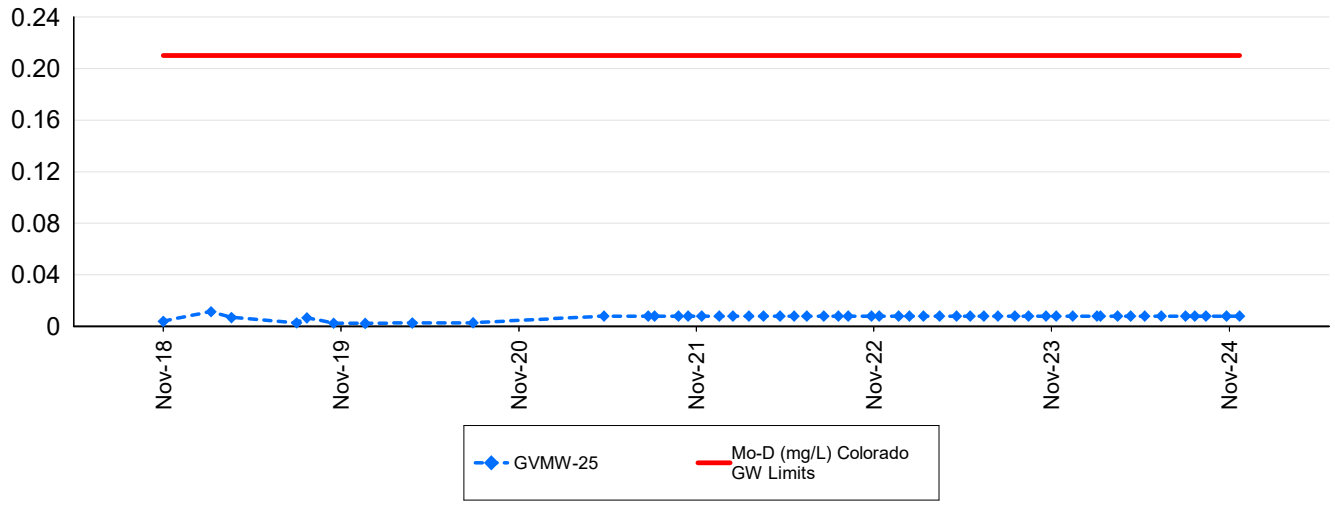

## Grassy Valley: Manganese - Dissolved (mg/L)



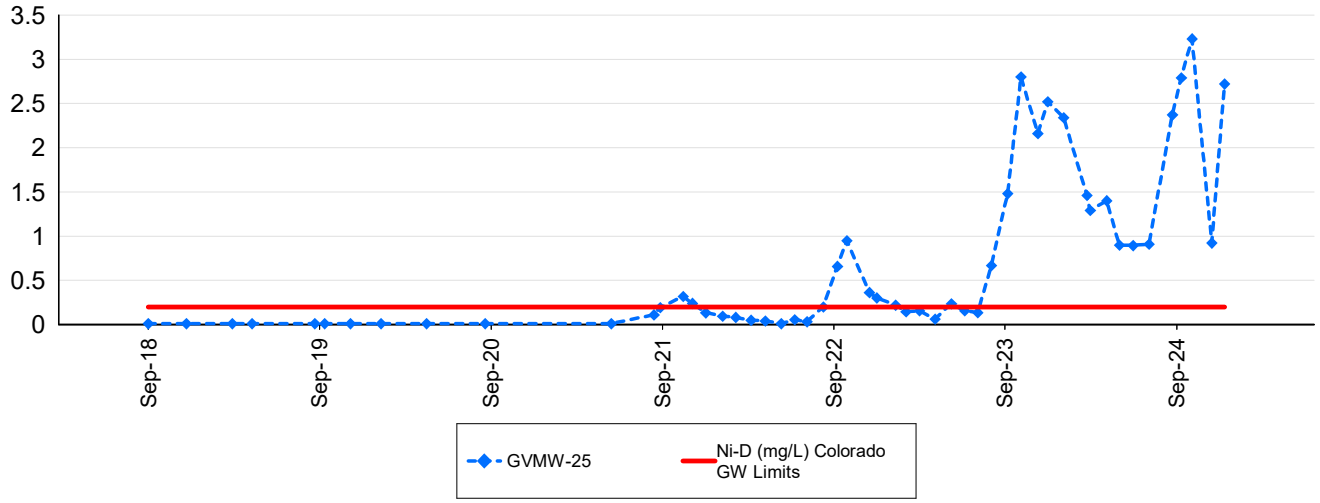

## Grassy Valley: Mercury - Dissolved (mg/L)



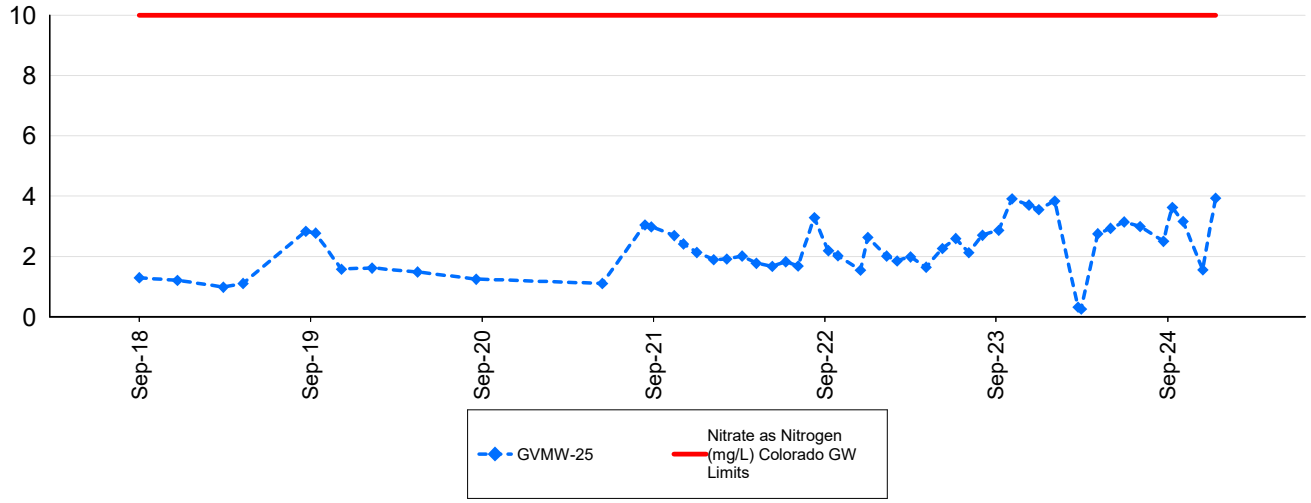
## Grassy Valley: Molybdenum - Dissolved (mg/L)



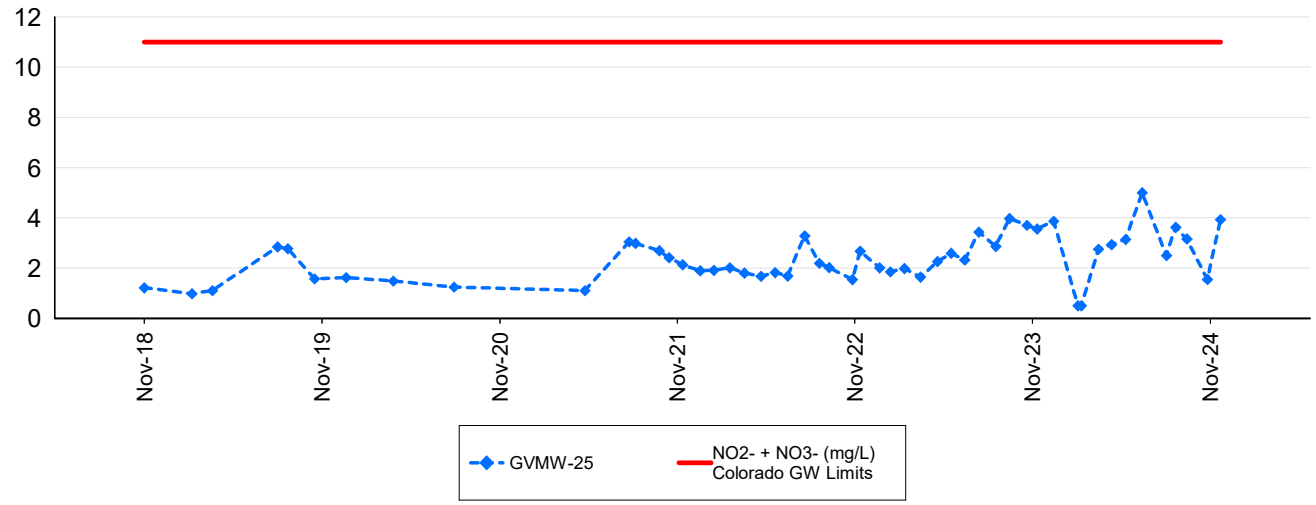

## Grassy Valley: Nickel - Dissolved (mg/L)



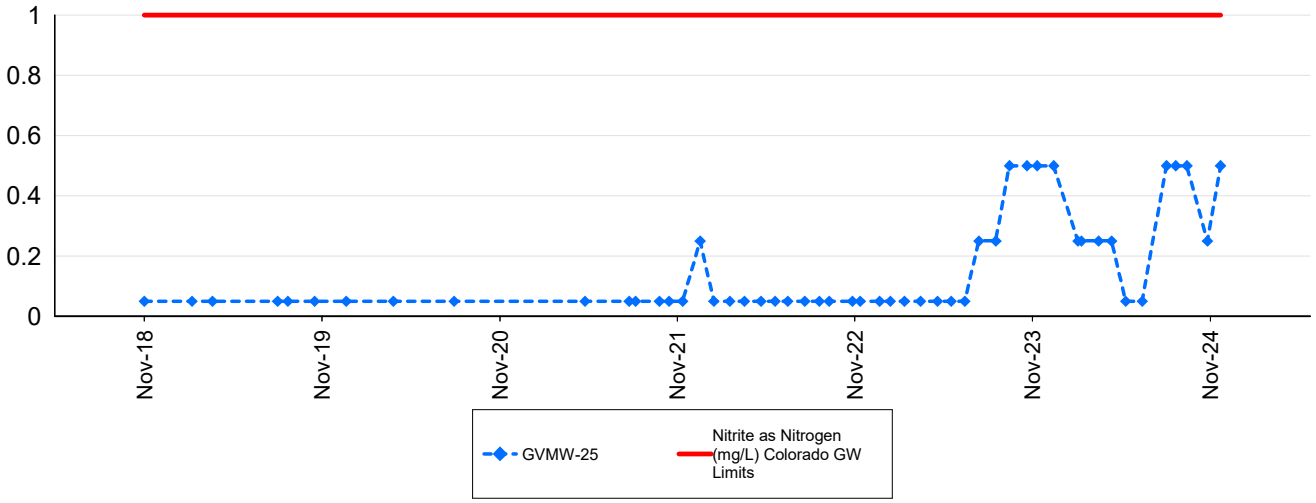

## Grassy Valley: Nitrate as Nitrogen (mg/L)



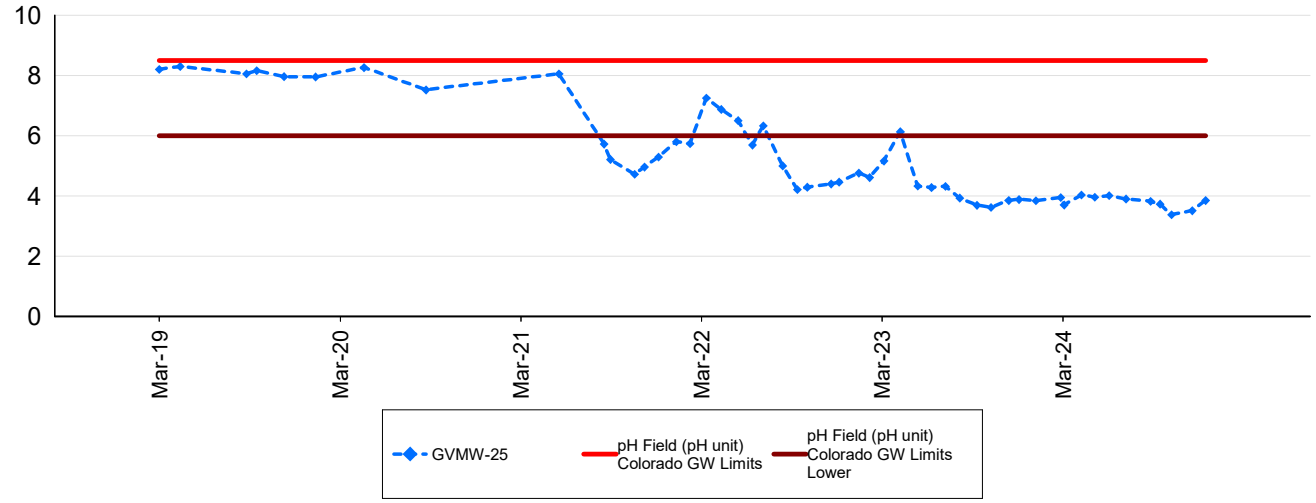
## Grassy Valley: Nitrite + Nitrate as Nitrogen (mg/L)



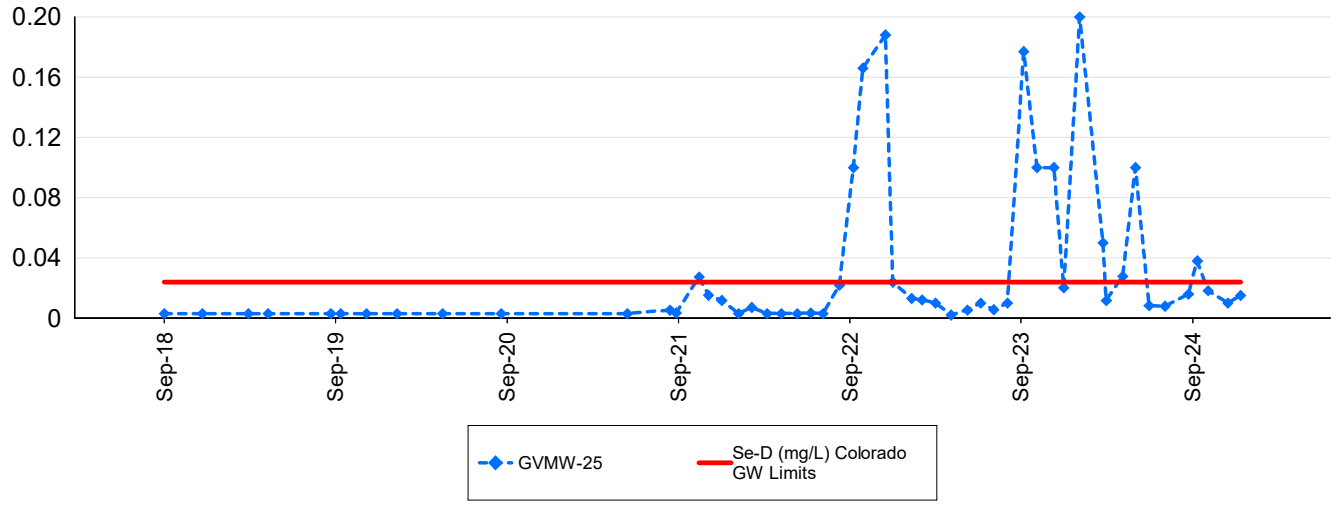

## Grassy Valley: Nitrite as Nitrogen (mg/L)



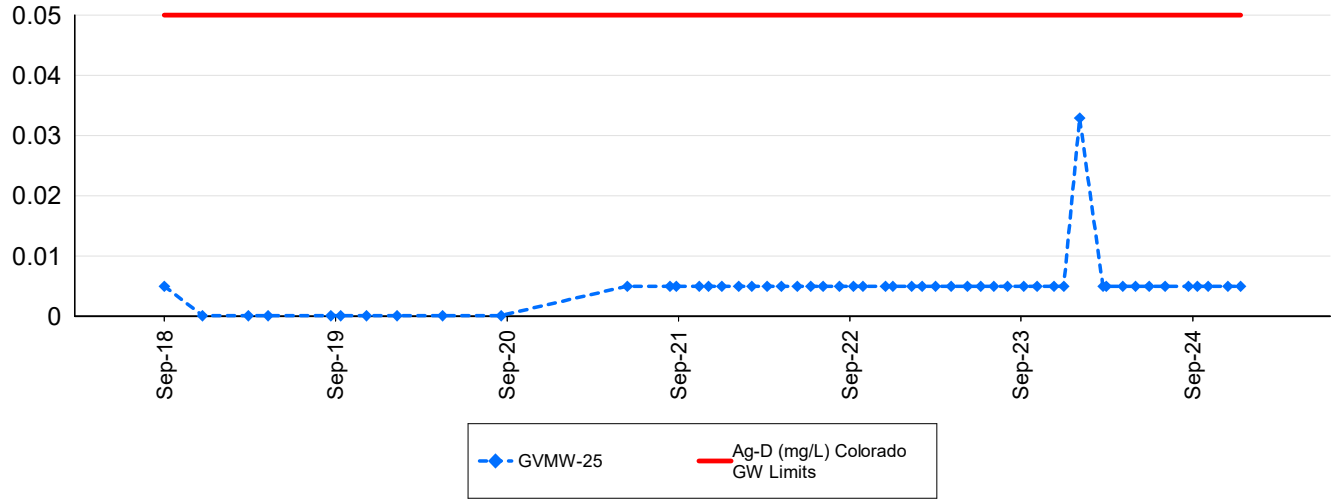

## Grassy Valley: pH Field (pH unit)



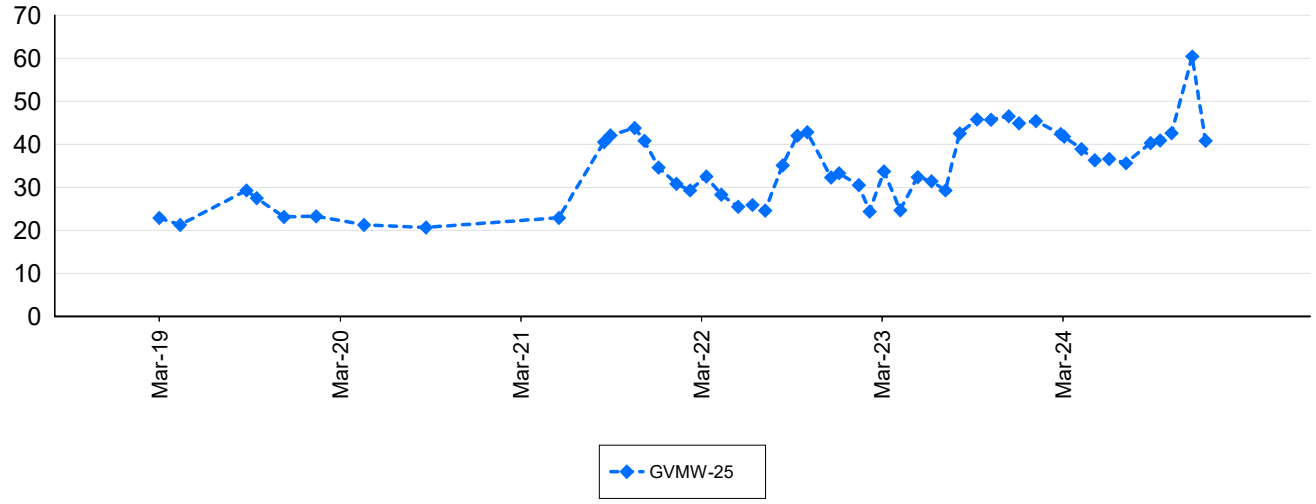
## Grassy Valley: Selenium - Dissolved (mg/L)



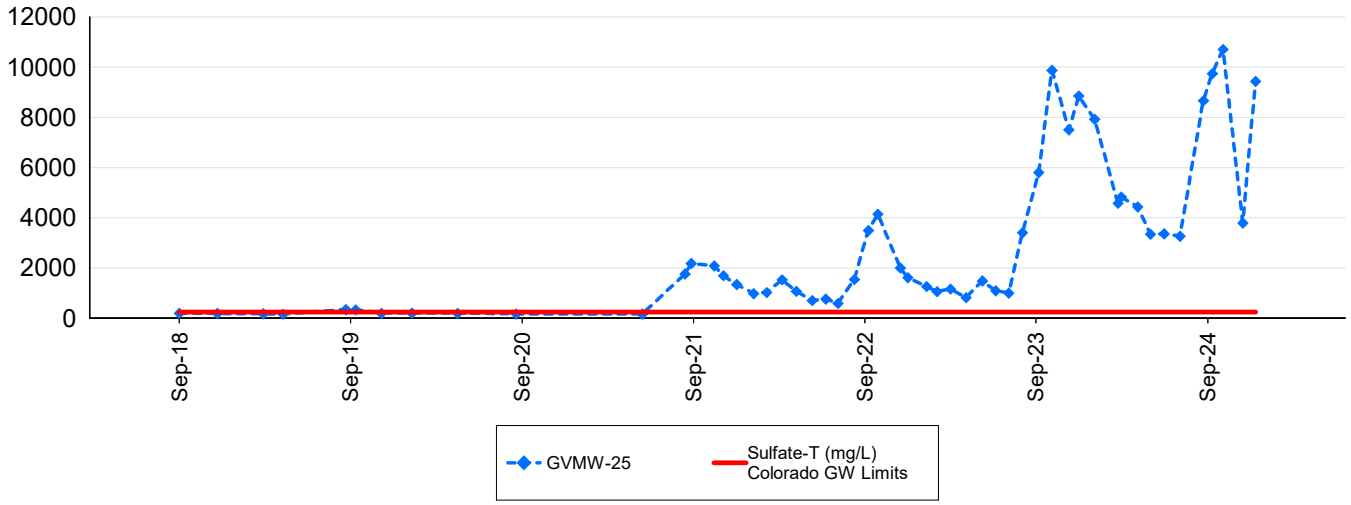

## Grassy Valley: Silver - Dissolved (mg/L)



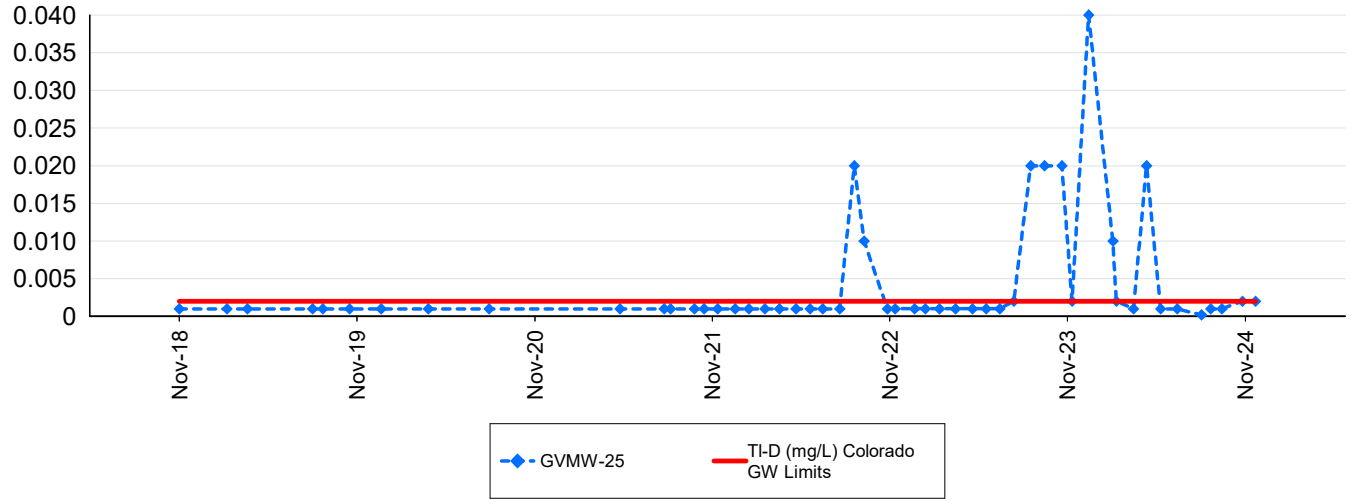

## Grassy Valley: Sodium - Dissolved (mg/L)



## Grassy Valley: Sulfate - Total (mg/L)




## Grassy Valley: Thallium - Dissolved (mg/L)




## Grassy Valley: Total Dissolved Solids (mg/L)