Newmont
NORTH AMERICA

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

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newmont.com

September 26, 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 August 2024 Report Submission, September 26, 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 August 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 August monitoring period, CC&V was unable to collect water samples from the following monitoring locations for the respective reasons:

- GVMW-24A had sediment-laden water that caused the pump to overheat and malfunction;
- GVMW-15C and GVMW-24B were dry;
- OSABH-16 had insufficient water;
- OSABH-12, 14, and 18 were dry;
- EMP-16, EMP-17, EMP-17A, EMP-17C, and EMP-020 were dry; and
- GV-02 and GV-03 were dry.

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. An estimate of flow rate of water at each stream was recorded, along with general appearance of water at each monitoring location (turbidity, color, etc.). If a monitoring location had no visible flow, it was recorded as dry or frozen and not sampled.

QA/QC Samples

CC&V collected three quality assurance/quality control (QA/QC) samples in August 2024 (included in Attachment 1). Two duplicate samples 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 and in Attachment 2 for surface water samples. Complete laboratory analytical reports from the August 2024 sampling event are included in Attachment 1 and field-collected data is presented on the sampling logs in Attachment 3.

DISCUSSION

Groundwater

Observed groundwater quality data continues to show similar trends to previously recorded data with constituent concentrations peaking around October, then declining throughout the year.

Graphs of the trends in various analytes at the GVMW-25 monitoring location, located within the property boundaries, are presented in Attachment 4. In general, results at the GVMW-25 location showed an increasing trend in analyte concentrations as we approach peak seepage flow for the year. Aluminum. Arsenic, beryllium, cadmium, calcium, chromium, cooper, fluoride, iron, lead, manganese nickel, selenium, sodium, sulfate, uranium, and zinc concentrations increased as

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compared to July 2024. Chloride and nitrate concentrations decreased slightly compared to July 2024. All other constituents remained consistent with the July 2024 results. Antimony, boron, cyanide, mercury, molybdenum, silver, and thallium concentrations were not detected in the August 2024 samples.

Water quality monitoring results from wells GVMW-15B were consistent with previous records in shallow groundwater. At the shallow interval in GVMW-15B (total depth 102 feet bgs) the groundwater concentrations were higher than the Regulation 41 Table Value Standards (TVS) (The Basic Standards for Groundwater) for beryllium and cobalt and higher than the existing site-wide Numeric Protection Limit (NPL) for iron. pH values recorded in the August 2024 were also outside the range of the current site-wide NPL.

Water quality monitoring results from wells OSABH-17 were consistent with previous records in the shallow groundwater. Groundwater quality at OSABH-17 is similar to that observed at the surface seep locations.

GVMW-10 sulfate and uranium concentrations were higher than the Regulation 41 table value standards. GVMW-7B sulfate concentrations were higher than the TVS. GVMW-8B and GVMW-22A fluoride concentrations were higher than the TVS.

At the deeper well, GVMW-15A, iron concentrations were higher than the existing site-wide NPLs. It should be noted that the sounded depth of the well (682 feet. bgs) is above the well completion report documented screen interval, thus the pump could not be placed at the mid screen depth to collect samples. Water level stabilization was not achieved during sample collection and the purged water was noted to have a rusty color. CC&V hypothesizes that the water within the casing of GVMW-15A may be semi-stagnant based and the low-flow samplings results encountered during dewatering of the well.

A sample was collected from GVMW-4A during the August 2024 sampling event, but stabilization of parameters was not achieved during the low-flow collection process. It should be noted that the total recorded depth of the well is above the screen interval, thus the pump could not be placed at the mid screen depth to collect samples. Water level stabilization was achieved but CC&V opted to collect a sample without stabilization of parameters in order to evaluate the water quality at this location.

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

Surface water

Flowing water was observed at the GV-06, GV-4.5 and GV-05 monitoring locations in August of 2024 and samples were collected. Monitoring locations GV-03 and GV-02 did not have flowing water, and no samples were collected. Monitoring location GV-06 and GV-4.5 exceeded Regulation 32

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standards (Classification and Numeric Standards for Arkansas River Basin) for iron (dissolved and total). Monitoring location GV-05 exceeded Regulation 32 standards for total iron.

Stormwater Detention Ponds

EMP-17B, an internal stormwater detention pond, was sampled during the monitoring period. Results indicated aluminum, arsenic, beryllium, cadmium, cobalt, copper, fluoride, manganese, nickel, pH sulfate, uranium and zinc concentrations were higher than either the TVS or site wide NPL's. It should be noted that EMP-17B is currently being pumped dry. To date approximately 10,000 gallons of water have been removed and pumping is anticipated to be completed by the end of the month. All other EMP were dry during the 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,

DocuSigned by:
Katie Blake
5A3D013B629844B...

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|8 – August 2024\Final"*

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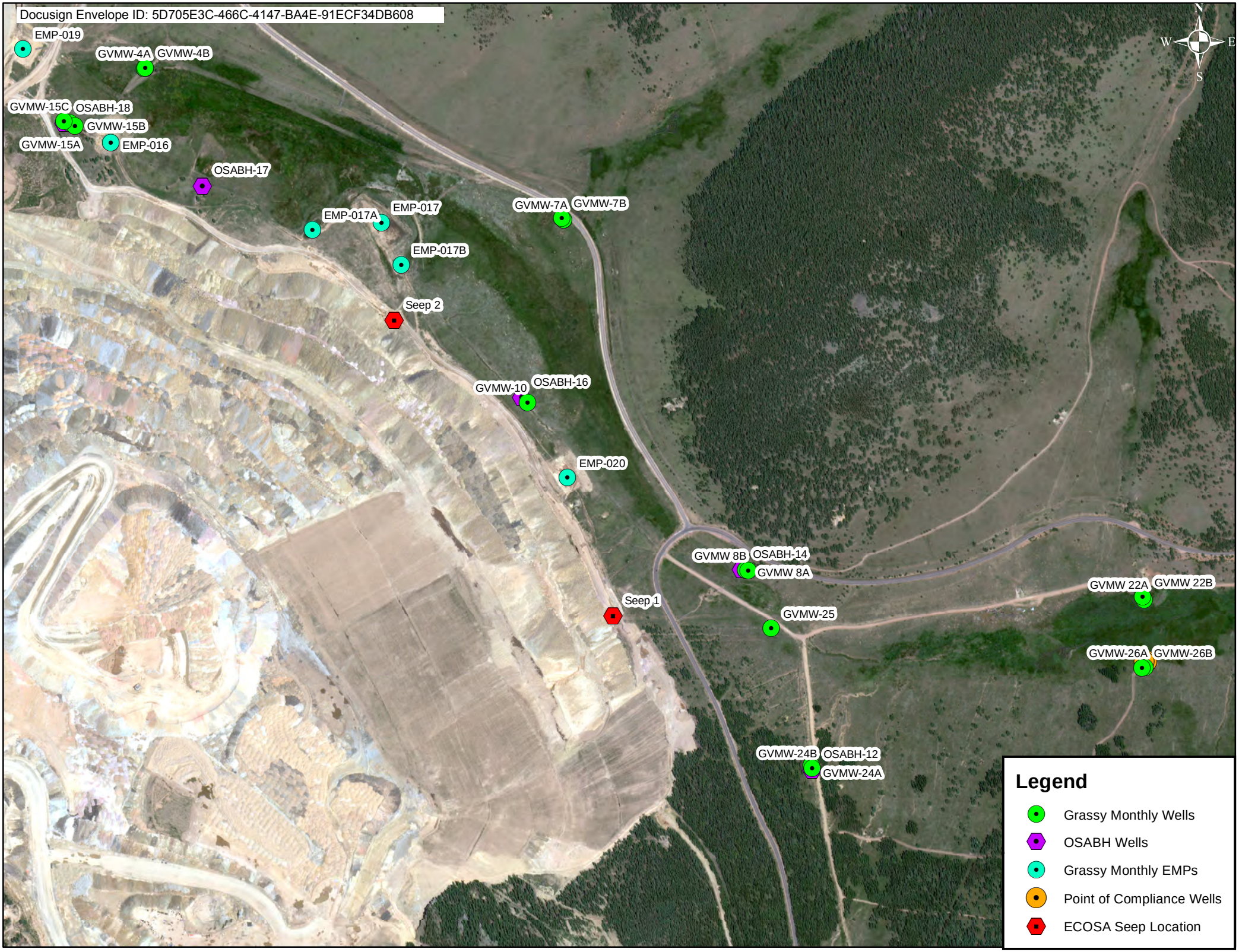
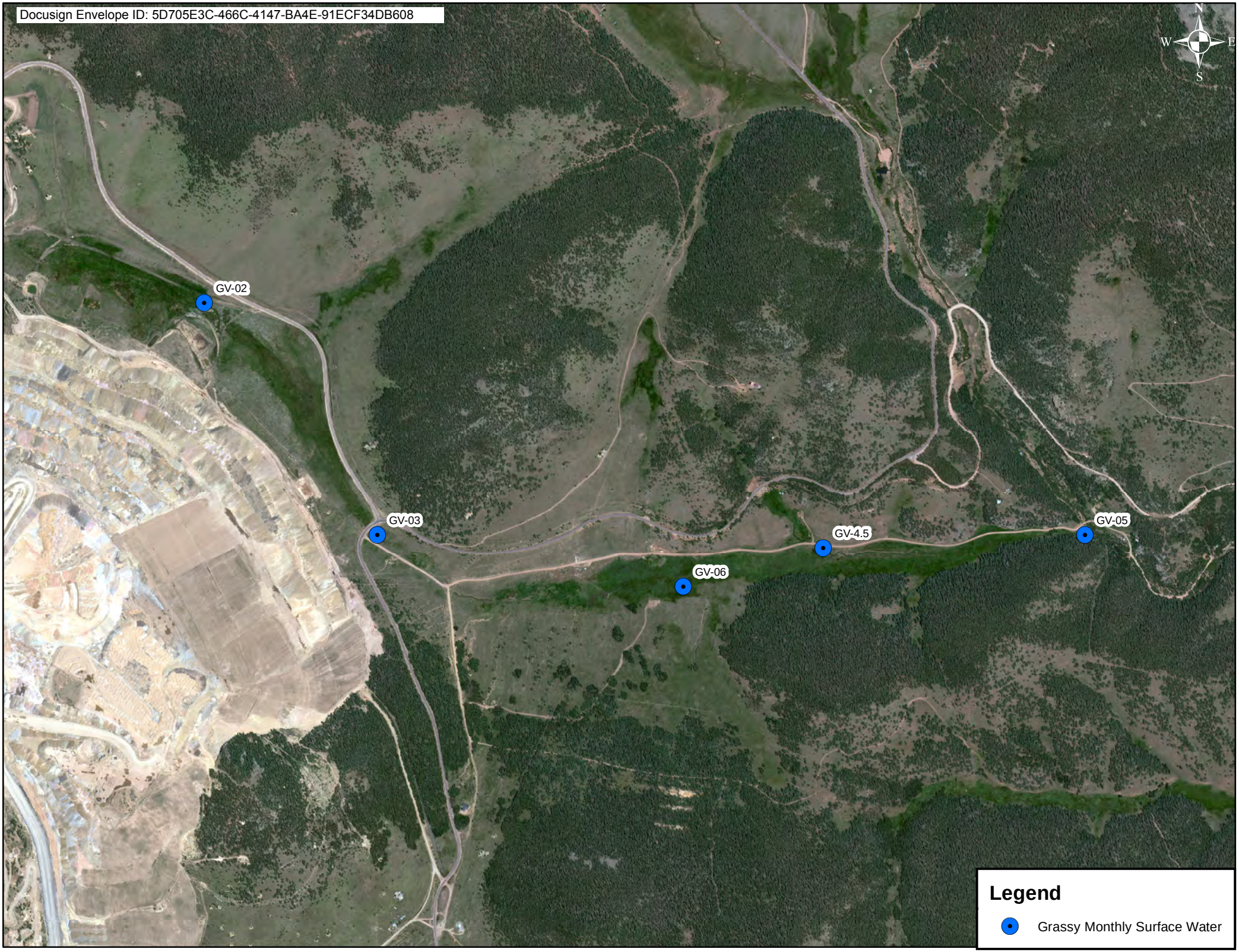
Figures





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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	8/6/2024	Sampled
GVMW-4B	NA	P&A
GVMW-7A	8/6/2024	Sampled
GVMW-7B	8/6/2024	Sampled
GVMW-8A	8/20/2024	Sampled
GVMW-8B	8/20/2024	Sampled
GVMW-10	8/29/2024	Sampled
GVMW-15A	8/20/2024	Sampled
GVMW-15B	8/29/2024	Sampled
GVMW-15C	8/20/2024	Dry at 419' bgs
GVMW-22A	8/5/2024	Sampled
GVMW-22B	8/5/2024	Sampled
GVMW-24A	8/28/2024	Not sampled due to sediment laden water causing the pump to overheat; unable to pump well
GVMW-24B	8/20/2024	Dry at 100' bgs
GVMW-25	8/28/2024	Sampled
GMVW-26A	8/5/2024	Sampled
GVMW-26B	8/5/2024	Sampled
OSABH-12	8/20/2024	Dry at 39' bgs
OSABH-14	8/20/2024	Dry at 28.7' bgs
OSABH-16	8/29/2024	NS-IW
OSABH-17	8/29/2024	Sampled
OSABH-18	8/20/2024	Dry at 51.7' bgs
Ecosa Seep-1	8/27/2024	Sampled
Ecosa Seep-2	8/29/2024	Sampled
GV-02	8/27/2024	Dry
GV-03	8/13/2024	Dry
GV-06	8/13/2024	Sampled
GV-4.5	8/13/2024	Sampled
GV-05	8/13/2024	Sampled
EMP-016	8/27/2024	Dry
EMP-017	8/27/2024	Dry
EMP-017A	8/27/2024	Dry
EMP-17B	8/27/2024	Sampled
EMP-17C	8/27/2024	Dry
EMP-020	8/27/2024	Dry

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 - August 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-25	GMVW-26A	GVMW-26B	OSABH-17	Seep-1	Seep-2	EMP-17B
				Sample Date	8/6/2024	8/6/2024	8/6/2024	8/20/2024	8/20/2024	8/29/2024	8/20/2024	8/29/2024	8/5/2024	8/5/2024	8/28/2024	8/5/2024	8/5/2024	8/29/2024	8/27/2024	8/29/2024	8/27/2024
Aluminum - Dissolved	5	**7**	mg/L		<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	0.41	<0.080	<0.080	**856**	<0.080	<0.080	**2,780**	**3,670**	**8,930**	**104**
Ammonia	NA	NA	mg/L		<0.030	<0.030	<0.030	<0.030	0.035	<0.030	0.034	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<3.00	<3.00	<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	<0.0100	<0.100	<0.100	<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	**0.236**	<0.00100	<0.00100	**0.537**	**0.976**	**12.2**	**0.0266**
Barium - Dissolved	**2**	NA	mg/L		0.196	0.189	0.0628	<0.0020	0.0055	0.0198	0.0544	0.0137	0.0983	0.0537	0.0078	0.212	0.101	<0.0200	<0.0400	<0.200	0.0283
Beryllium - Dissolved	**0.004**	NA	mg/L		<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**0.0304**	<0.00200	<0.00200	**0.515**	<0.00200	<0.00200	**0.514**	**0.471**	**0.654**	**0.0217**
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	<0.0400	<0.0400	<0.400	<0.800	<4.00	0.0685
Cadmium - Dissolved	**0.005**	**0.005**	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0024	<0.0020	<0.0020	**1.64**	<0.0020	<0.0020	**5.59**	**10.7**	**44.9**	**0.727**
Chloride - Total	**250**	NA	mg/L		4.56	11.1	83	62.9	42.2	5.12	1.41	1.02	3.86	10.1	22.8	1.3	1.88	19.0	7.65	<50.0	2.61
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	**0.148**	<0.0060	<0.0060	**0.596**	**0.965**	**2.6**	<0.0060
Cobalt - Dissolved	**0.05**	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0296	**0.0575**	<0.0060	<0.0060	**1.75**	<0.0060	<0.0060	**12.7**	**10.9**	**24.7**	**0.533**
Copper - Dissolved	**0.2**	**0.2**	mg/L		<0.0100	<0.0100	<0.0100	<0.0100	0.0214	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	**3.07**	<0.0100	<0.0100	**10.7**	**23.4**	**106**	**0.785**
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	<0.0250	<0.0050	<0.0500	<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	0.0142	0.0117	0.0111	<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	<0.0500	<0.0500	<0.0500	<0.0050
Fluoride - Total F	**2**	**2**	mg/L		0.135	0.868	0.258	1.9	**2.14**	0.341	0.297	0.357	**2.2**	0.386	**76.5**	1.94	0.224	**556**	**302**	**532**	**42.3**
Iron - Dissolved	0.3	**14**	mg/L		8.6	1.22	<0.100	<0.100	<0.100	<0.100	**33**	**19.7**	<0.100	<0.100	3.77	<0.100	<0.100	**101**	**1,680**	**7,550**	2.15
Lead - Dissolved	**0.05**	NA	mg/L		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.0378	<0.0075	<0.0075	0.0254	<0.0075	<0.0075	<0.0750	<0.150	<0.750	0.0144
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	0.218	<0.040	<0.040	1.08	0.869	<4.00	0.048
Manganese - Dissolved	0.05	**3**	mg/L		2.04	0.226	<0.0080	<0.0080	<0.0080	1.03	1.91	1.16	<0.0080	<0.0080	**229**	0.008	<0.0080	**839**	**979**	**3,270**	**82.7**
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	<0.000200	0.00021	<0.000200
Molybdenum - Dissolved	**0.21**	NA	mg/L		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	0.0249	<0.0080	<0.0080	0.0085	<0.0080	<0.0080	<0.0080	<0.0080	<0.0800	<0.160	<0.800	<0.0080
Nickel - Dissolved	**0.1**	NA	mg/L		<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.043	0.0984	<0.0100	<0.0100	**2.37**	<0.0100	<0.0100	**11.2**	**8.25**	**15.9**	**0.3940**
Nitrate as Nitrogen	**10**	**10**	mg/L		<0.050	<0.050	0.441	1.3	2.23	0.115	<0.050	<0.050	<0.050	0.588	2.5	0.05	0.744	5.12	4.59	<12.5	<0.050
Nitrite + Nitrate as Nitrogen	10	**11**	mg/L		<0.100	<0.100	0.441	1.3	2.23	0.115	<0.100	<0.100	<0.100	0.588	2.5	<0.100	0.744	5.12	4.59	<25.0	<0.100
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	<0.500	<0.050	<0.050	<1.25	<1.25	<12.5	<0.050
pH Field	6.5-8.5	**6.0-8.5**	pH units		6.42	7.43	7.02	6.79	6.63	6.88	6.44	**4.66**	7.78	6.73	**3.82**	7.94	6.44	**2.9**	**2.23**	**1.97**	**3.31**
Selenium - Dissolved	0.02	**0.024**	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.0051	<0.00100	<0.00100	<0.00100	<0.00100	0.0159	<0.00100	<0.00100	**0.0379**	<0.100	<0.400	0.00213
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	<0.0500	<0.100	<0.500	<0.0050
Sodium - Dissolved	NA	NA	mg/L		9.54	10.50	19.4	24.9	25.4	40.6	13.9	12.5	37.1	16.8	40.3	33.2	9.72	13	41.6	<50.0	24.1
Sulfate - Total	**250**	NA	mg/L		58.4	20.6	**346**	63.5	93.7	**1,550**	181	246	32.6	58.5	**8,660**	13.8	20.5	**27,200**	**32,500**	**83,100**	**1,640**
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	<0.000200	<0.000200	<0.00200	<0.0200	<0.0200	<0.000200
Total Dissolved Solids	NA	NA	mg/L		211	224	716	302	300	2,190	299	376	227	178	11,400	182	82	32,900	44,200	120,000	2,300
Uranium - Dissolved	**0.03**	NA	mg/L		<0.000100	0.00418	0.00614	0.00508	0.00267	**0.0606**	<0.000100	0.00031	0.00361	0.000583	**3.06**	0.00337	0.000101	**10.4**	**13.1**	**74.3**	**0.462**
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	0.0092	<0.0050	<0.0050	0.0881	**0.189**	**0.811**	0.0085
Zinc - Dissolved	**2**	**2**	mg/L		0.0121	<0.0100	<0.0100	<0.0100	<0.0100	0.126	0.29	1.18	<0.0100	<0.0100	**58.9**	<0.0100	<0.0100	**199**	**172**	**1,930**	**28.1**

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

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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: **X4H0064**
Victor, CO 80860	Reported: 22-Aug-24 14:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-26A	X4H0064-01	Ground Water	05-Aug-24 09:15	TR	06-Aug-2024	
GVMW-26B	X4H0064-02	Ground Water	05-Aug-24 10:22	TR	06-Aug-2024	
GVMW-22A	X4H0064-03	Ground Water	05-Aug-24 11:30	TR	06-Aug-2024	
GVMW-22B	X4H0064-04	Ground Water	05-Aug-24 12:12	TR	06-Aug-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: X4H0064

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
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0064**
Reported: 22-Aug-24 14:33

Client Sample ID: **GVMW-26A**
SVL Sample ID: **X4H0064-01 (Ground Water)**

Sampled: 05-Aug-24 09:15
Received: 06-Aug-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**	30.1	mg/L	0.100	0.069		X433072	SJN	08/16/24 10:36	
EPA 200.7	**Magnesium**	6.75	mg/L	0.500	0.090		X433072	SJN	08/16/24 10:36	
EPA 200.7	**Potassium**	0.87	mg/L	0.50	0.18		X433072	SJN	08/16/24 10:36	
SM 2340 B	**Hardness (as CaCO3)**	111	mg/L	2.31	0.543		N/A		08/19/24 10:56	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X433054	SJN	08/19/24 10:56	
EPA 200.7	**Barium**	0.212	mg/L	0.0020	0.0019		X433054	SJN	08/19/24 10:56	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X433054	SJN	08/19/24 10:56	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X433054	SJN	08/19/24 10:56	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X433054	SJN	08/19/24 10:56	
EPA 200.7	**Calcium**	33.1	mg/L	0.100	0.069		X433054	SJN	08/19/24 10:56	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X433054	SJN	08/19/24 10:56	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X433054	SJN	08/19/24 10:56	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X433054	SJN	08/19/24 10:56	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X433054	SJN	08/19/24 10:56	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X433054	SJN	08/19/24 10:56	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X433054	SJN	08/19/24 10:56	
EPA 200.7	**Magnesium**	7.49	mg/L	0.500	0.090		X433054	SJN	08/19/24 10:56	
EPA 200.7	**Manganese**	0.0080	mg/L	0.0080	0.0034		X433054	SJN	08/19/24 10:56	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X433054	SJN	08/19/24 10:56	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X433054	SJN	08/19/24 10:56	
EPA 200.7	**Potassium**	1.23	mg/L	0.50	0.18		X433054	SJN	08/19/24 10:56	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X433054	SJN	08/19/24 10:56	
EPA 200.7	**Sodium**	33.2	mg/L	0.50	0.12		X433054	SJN	08/19/24 10:56	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X433054	SJN	08/19/24 10:56	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X433054	SJN	08/19/24 10:56	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X433027	JRR	08/21/24 08:23	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X433027	JRR	08/21/24 08:23	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X433027	JRR	08/21/24 08:23	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X433027	JRR	08/21/24 08:23	
EPA 200.8	**Uranium**	0.00337	mg/L	0.000100	0.000052		X433027	JRR	08/21/24 08:23	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X432182	MAC	08/12/24 13:20	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X433108	DD	08/14/24 12:23	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X433008	DD	08/13/24 10:06	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X432187	DD	08/09/24 13:38	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X433190	DD	08/16/24 13:54	
SM 2310 B	**Acidity to pH 8.3**	-163	mg/L as CaCO3	10.0			X432207	MWD	08/09/24 14:25	
SM 2320 B	**Total Alkalinity**	157	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:06	
SM 2320 B	**Bicarbonate**	157	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:06	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:06	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:06	
SM 2540 C	**Total Diss. Solids**	182	mg/L	10			X432108	TJL	08/08/24 12:45	
SM 2540 D	**Total Susp. Solids**	6.0	mg/L	5.0			X432109	TJL	08/08/24 13:15	
SM 4500 H B	**pH @23.8°C**	7.9	pH Units				X432118	MWD	08/07/24 18:06	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: **X4H0064**
Reported: 22-Aug-24 14:33

Client Sample ID: **GVMW-26A**
SVL Sample ID: **X4H0064-01 (Ground Water)**

Sampled: 05-Aug-24 09:15
Received: 06-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.30	mg/L	0.20	0.02		X432102	RS	08/06/24 13:48	
EPA 300.0	**Fluoride**	1.94	mg/L	0.100	0.017		X432102	RS	08/06/24 13:48	
EPA 300.0	**Nitrate as N**	0.050	mg/L	0.050	0.013		X432102	RS	08/06/24 13:48	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X432102	RS	08/06/24 13:48	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X432102	RS	08/06/24 13:48	
EPA 300.0	**Sulfate as SO4**	13.8	mg/L	0.30	0.18		X432102	RS	08/06/24 13:48	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.54 meq/L Anion Sum: 3.57 meq/L C/A Balance: -0.37 % Calculated TDS: 184 TDS/cTDS: 0.99

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0064**
Reported: 22-Aug-24 14:33

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X4H0064-02 (Ground Water)**

Sampled: 05-Aug-24 10:22
Received: 06-Aug-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**	10.8	mg/L	0.100	0.069		X433072	SJN	08/16/24 10:40	
EPA 200.7	**Magnesium**	2.20	mg/L	0.500	0.090		X433072	SJN	08/16/24 10:40	
EPA 200.7	**Potassium**	0.75	mg/L	0.50	0.18		X433072	SJN	08/16/24 10:40	
SM 2340 B	**Hardness (as CaCO3)**	36.0	mg/L	2.31	0.543		N/A		08/19/24 11:00	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X433054	SJN	08/19/24 11:00	
EPA 200.7	**Barium**	0.101	mg/L	0.0020	0.0019		X433054	SJN	08/19/24 11:00	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X433054	SJN	08/19/24 11:00	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X433054	SJN	08/19/24 11:00	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X433054	SJN	08/19/24 11:00	
EPA 200.7	**Calcium**	10.6	mg/L	0.100	0.069		X433054	SJN	08/19/24 11:00	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X433054	SJN	08/19/24 11:00	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X433054	SJN	08/19/24 11:00	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X433054	SJN	08/19/24 11:00	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X433054	SJN	08/19/24 11:00	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X433054	SJN	08/19/24 11:00	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X433054	SJN	08/19/24 11:00	
EPA 200.7	**Magnesium**	2.21	mg/L	0.500	0.090		X433054	SJN	08/19/24 11:00	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X433054	SJN	08/19/24 11:00	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X433054	SJN	08/19/24 11:00	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X433054	SJN	08/19/24 11:00	
EPA 200.7	**Potassium**	0.77	mg/L	0.50	0.18		X433054	SJN	08/19/24 11:00	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X433054	SJN	08/19/24 11:00	
EPA 200.7	**Sodium**	9.72	mg/L	0.50	0.12		X433054	SJN	08/19/24 11:00	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X433054	SJN	08/19/24 11:00	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X433054	SJN	08/19/24 11:00	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X433027	JRR	08/21/24 08:31	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X433027	JRR	08/21/24 08:31	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X433027	JRR	08/21/24 08:31	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X433027	JRR	08/21/24 08:31	
EPA 200.8	**Uranium**	0.000101	mg/L	0.000100	0.000052		X433027	JRR	08/21/24 08:31	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X432182	MAC	08/12/24 13:22	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X433108	DD	08/14/24 12:31	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X433008	DD	08/13/24 10:09	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X432187	DD	08/09/24 13:40	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X433190	DD	08/16/24 13:56	
SM 2310 B	**Acidity to pH 8.3**	-28.8	mg/L as CaCO3	10.0			X432207	MWD	08/09/24 14:25	
SM 2320 B	**Total Alkalinity**	33.7	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:12	
SM 2320 B	**Bicarbonate**	33.7	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:12	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:12	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:12	
SM 2540 C	**Total Diss. Solids**	82	mg/L	10			X432108	TJL	08/08/24 12:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X432109	TJL	08/08/24 13:15	
SM 4500 H B	**pH @23.9°C**	6.6	pH Units				X432118	MWD	08/07/24 18:12	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: **X4H0064**
Reported: 22-Aug-24 14:33

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X4H0064-02 (Ground Water)**

Sampled: 05-Aug-24 10:22
Received: 06-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.88	mg/L	0.20	0.02		X432102	RS	08/06/24 12:26	
EPA 300.0	**Fluoride**	0.224	mg/L	0.100	0.017		X432102	RS	08/06/24 12:26	
EPA 300.0	**Nitrate as N**	0.744	mg/L	0.050	0.013		X432102	RS	08/06/24 12:26	
EPA 300.0	**Nitrate+Nitrite as N**	0.744	mg/L	0.100	0.044		X432102	RS	08/06/24 12:26	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X432102	RS	08/06/24 12:26	
EPA 300.0	**Sulfate as SO4**	20.5	mg/L	0.30	0.18		X432102	RS	08/06/24 12:26	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.17 meq/L Anion Sum: 1.22 meq/L C/A Balance: -2.17 % Calculated TDS: 70 TDS/cTDS: 1.18

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0064**
Reported: 22-Aug-24 14:33

Client Sample ID: **GVMW-22A**
SVL Sample ID: **X4H0064-03 (Ground Water)**

Sampled: 05-Aug-24 11:30
Received: 06-Aug-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**	29.6	mg/L	0.100	0.069		X433072	SJN	08/16/24 10:43	
EPA 200.7	**Magnesium**	11.7	mg/L	0.500	0.090		X433072	SJN	08/16/24 10:43	
EPA 200.7	**Potassium**	1.31	mg/L	0.50	0.18		X433072	SJN	08/16/24 10:43	
SM 2340 B	**Hardness (as CaCO3)**	122	mg/L	2.31	0.543		N/A		08/19/24 11:03	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X433054	SJN	08/19/24 11:03	
EPA 200.7	**Barium**	0.0983	mg/L	0.0020	0.0019		X433054	SJN	08/19/24 11:03	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X433054	SJN	08/19/24 11:03	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X433054	SJN	08/19/24 11:03	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X433054	SJN	08/19/24 11:03	
EPA 200.7	**Calcium**	28.8	mg/L	0.100	0.069		X433054	SJN	08/19/24 11:03	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X433054	SJN	08/19/24 11:03	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X433054	SJN	08/19/24 11:03	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X433054	SJN	08/19/24 11:03	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X433054	SJN	08/19/24 11:03	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X433054	SJN	08/19/24 11:03	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X433054	SJN	08/19/24 11:03	
EPA 200.7	**Magnesium**	11.9	mg/L	0.500	0.090		X433054	SJN	08/19/24 11:03	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X433054	SJN	08/19/24 11:03	
EPA 200.7	**Molybdenum**	0.0085	mg/L	0.0080	0.0034		X433054	SJN	08/19/24 11:03	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X433054	SJN	08/19/24 11:03	
EPA 200.7	**Potassium**	1.39	mg/L	0.50	0.18		X433054	SJN	08/19/24 11:03	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X433054	SJN	08/19/24 11:03	
EPA 200.7	**Sodium**	37.1	mg/L	0.50	0.12		X433054	SJN	08/19/24 11:03	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X433054	SJN	08/19/24 11:03	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X433054	SJN	08/19/24 11:03	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X433027	JRR	08/21/24 08:33	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X433027	JRR	08/21/24 08:33	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X433027	JRR	08/21/24 08:33	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X433027	JRR	08/21/24 08:33	
EPA 200.8	**Uranium**	0.00361	mg/L	0.000100	0.000052		X433027	JRR	08/21/24 08:33	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X432182	MAC	08/12/24 13:24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X433108	DD	08/14/24 12:33	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X433008	DD	08/13/24 10:11	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X432187	DD	08/09/24 13:42	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X433190	DD	08/16/24 13:57	
SM 2310 B	**Acidity to pH 8.3**	-163	mg/L as CaCO3	10.0			X432207	MWD	08/09/24 14:25	
SM 2320 B	**Total Alkalinity**	167	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:17	
SM 2320 B	**Bicarbonate**	167	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:17	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:17	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:17	
SM 2540 C	**Total Diss. Solids**	227	mg/L	10			X432108	TJL	08/08/24 12:45	
SM 2540 D	**Total Susp. Solids**	6.0	mg/L	5.0			X432109	TJL	08/08/24 13:15	
SM 4500 H B	**pH @23.9°C**	7.9	pH Units				X432118	MWD	08/07/24 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: **X4H0064**
Reported: 22-Aug-24 14:33

Client Sample ID: **GVMW-22A**
SVL Sample ID: **X4H0064-03 (Ground Water)**

Sampled: 05-Aug-24 11:30
Received: 06-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	3.86	mg/L	0.20	0.02		X432102	RS	08/06/24 14:22	
EPA 300.0	**Fluoride**	2.23	mg/L	0.100	0.017		X432102	RS	08/06/24 14:22	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X432102	RS	08/06/24 14:22	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X432102	RS	08/06/24 14:22	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X432102	RS	08/06/24 14:22	
EPA 300.0	**Sulfate as SO4**	32.6	mg/L	0.30	0.18		X432102	RS	08/06/24 14:22	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.06 meq/L Anion Sum: 4.24 meq/L C/A Balance: -2.21 % Calculated TDS: 218 TDS/cTDS: 1.04

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0064**
Reported: 22-Aug-24 14:33

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X4H0064-04 (Ground Water)**

Sampled: 05-Aug-24 12:12
Received: 06-Aug-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**	29.7	mg/L	0.100	0.069		X433072	SJN	08/16/24 10:47	
EPA 200.7	**Magnesium**	7.34	mg/L	0.500	0.090		X433072	SJN	08/16/24 10:47	
EPA 200.7	**Potassium**	1.37	mg/L	0.50	0.18		X433072	SJN	08/16/24 10:47	
SM 2340 B	**Hardness (as CaCO3)**	106	mg/L	2.31	0.543		N/A		08/16/24 10:47	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X433054	SJN	08/19/24 11:16	
EPA 200.7	**Barium**	0.0537	mg/L	0.0020	0.0019		X433054	SJN	08/19/24 11:16	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X433054	SJN	08/19/24 11:16	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X433054	SJN	08/19/24 11:16	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X433054	SJN	08/19/24 11:16	
EPA 200.7	**Calcium**	29.9	mg/L	0.100	0.069		X433054	SJN	08/19/24 11:16	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X433054	SJN	08/19/24 11:16	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X433054	SJN	08/19/24 11:16	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X433054	SJN	08/19/24 11:16	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X433054	SJN	08/19/24 11:16	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X433054	SJN	08/19/24 11:16	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X433054	SJN	08/19/24 11:16	
EPA 200.7	**Magnesium**	7.80	mg/L	0.500	0.090		X433054	SJN	08/19/24 11:16	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X433054	SJN	08/19/24 11:16	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X433054	SJN	08/19/24 11:16	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X433054	SJN	08/19/24 11:16	
EPA 200.7	**Potassium**	1.39	mg/L	0.50	0.18		X433054	SJN	08/19/24 11:16	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X433054	SJN	08/19/24 11:16	
EPA 200.7	**Sodium**	16.8	mg/L	0.50	0.12		X433054	SJN	08/19/24 11:16	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X433054	SJN	08/19/24 11:16	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X433054	SJN	08/19/24 11:16	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X433027	JRR	08/21/24 08:36	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X433027	JRR	08/21/24 08:36	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X433027	JRR	08/21/24 08:36	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X433027	JRR	08/21/24 08:36	
EPA 200.8	**Uranium**	0.000583	mg/L	0.000100	0.000052		X433027	JRR	08/21/24 08:36	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X432182	MAC	08/12/24 13:26	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X433108	DD	08/14/24 12:35	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X433008	DD	08/13/24 11:49	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X432187	DD	08/09/24 13:45	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X433190	DD	08/16/24 13:59	
SM 2310 B	**Acidity to pH 8.3**	-58.6	mg/L as CaCO3	10.0			X432207	MWD	08/09/24 14:25	
SM 2320 B	**Total Alkalinity**	64.9	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:23	
SM 2320 B	**Bicarbonate**	64.9	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:23	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:23	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:23	
SM 2540 C	**Total Diss. Solids**	178	mg/L	10			X432108	TJL	08/08/24 12:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X432109	TJL	08/08/24 13:15	
SM 4500 H B	**pH @24.4°C**	6.9	pH Units				X432118	MWD	08/07/24 18:23	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: **X4H0064**
Reported: 22-Aug-24 14:33

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X4H0064-04 (Ground Water)**

Sampled: 05-Aug-24 12:12
Received: 06-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	10.1	mg/L	0.20	0.02		X432102	RS	08/06/24 15:28	
EPA 300.0	**Fluoride**	0.386	mg/L	0.100	0.017		X432102	RS	08/06/24 15:28	
EPA 300.0	**Nitrate as N**	0.588	mg/L	0.050	0.013		X432102	RS	08/06/24 15:28	
EPA 300.0	**Nitrate+Nitrite as N**	0.588	mg/L	0.100	0.044		X432102	RS	08/06/24 15:28	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X432102	RS	08/06/24 15:28	
EPA 300.0	**Sulfate as SO4**	58.5	mg/L	3.00	1.80	10	X432102	RS	08/06/24 15:44	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 2.87 meq/L Anion Sum: 2.86 meq/L C/A Balance: 0.06 % Calculated TDS: 166 TDS/cTDS: 1.07

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0064**
Reported: 22-Aug-24 14:33

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X433072	16-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X433072	16-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X433072	16-Aug-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X433054	19-Aug-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X433054	19-Aug-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X433054	19-Aug-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X433054	19-Aug-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X433054	19-Aug-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X433054	19-Aug-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X433054	19-Aug-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X433054	19-Aug-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X433054	19-Aug-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X433054	19-Aug-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X433054	19-Aug-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X433054	19-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X433054	19-Aug-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X433054	19-Aug-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X433054	19-Aug-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X433054	19-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X433054	19-Aug-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X433054	19-Aug-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X433054	19-Aug-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X433054	19-Aug-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X433054	19-Aug-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X433027	21-Aug-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X433027	21-Aug-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X433027	21-Aug-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X433027	21-Aug-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X433027	21-Aug-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X432182	12-Aug-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X433108	14-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X433008	13-Aug-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X432187	09-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X433190	16-Aug-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X432207	09-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X432118	07-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X432118	07-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X432118	07-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X432118	07-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X432108	08-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X432109	08-Aug-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X432102	06-Aug-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X432102	06-Aug-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X432102	06-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X432102	06-Aug-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X432102	06-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X432102	06-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0064**
Reported: 22-Aug-24 14:33

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	20.7	20.0	103	85 - 115	X433072	16-Aug-24	
EPA 200.7	Magnesium	mg/L	20.4	20.0	102	85 - 115	X433072	16-Aug-24	
EPA 200.7	Potassium	mg/L	20.7	20.0	104	85 - 115	X433072	16-Aug-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.969	1.00	96.9	85 - 115	X433054	19-Aug-24	
EPA 200.7	Barium	mg/L	0.960	1.00	96.0	85 - 115	X433054	19-Aug-24	
EPA 200.7	Beryllium	mg/L	0.971	1.00	97.1	85 - 115	X433054	19-Aug-24	
EPA 200.7	Boron	mg/L	0.960	1.00	96.0	85 - 115	X433054	19-Aug-24	
EPA 200.7	Cadmium	mg/L	0.967	1.00	96.7	85 - 115	X433054	19-Aug-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	98.0	85 - 115	X433054	19-Aug-24	
EPA 200.7	Chromium	mg/L	1.02	1.00	102	85 - 115	X433054	19-Aug-24	
EPA 200.7	Cobalt	mg/L	0.968	1.00	96.8	85 - 115	X433054	19-Aug-24	
EPA 200.7	Copper	mg/L	0.982	1.00	98.2	85 - 115	X433054	19-Aug-24	
EPA 200.7	Iron	mg/L	9.89	10.0	98.9	85 - 115	X433054	19-Aug-24	
EPA 200.7	Lead	mg/L	0.974	1.00	97.4	85 - 115	X433054	19-Aug-24	
EPA 200.7	Lithium	mg/L	0.943	1.00	94.3	85 - 115	X433054	19-Aug-24	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.6	85 - 115	X433054	19-Aug-24	
EPA 200.7	Manganese	mg/L	0.960	1.00	96.0	85 - 115	X433054	19-Aug-24	
EPA 200.7	Molybdenum	mg/L	0.978	1.00	97.8	85 - 115	X433054	19-Aug-24	
EPA 200.7	Nickel	mg/L	0.979	1.00	97.9	85 - 115	X433054	19-Aug-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.8	85 - 115	X433054	19-Aug-24	
EPA 200.7	Silver	mg/L	0.0503	0.0500	101	85 - 115	X433054	19-Aug-24	
EPA 200.7	Sodium	mg/L	18.2	19.0	96.0	85 - 115	X433054	19-Aug-24	
EPA 200.7	Vanadium	mg/L	1.02	1.00	102	85 - 115	X433054	19-Aug-24	
EPA 200.7	Zinc	mg/L	0.988	1.00	98.8	85 - 115	X433054	19-Aug-24	
EPA 200.8	Antimony	mg/L	0.0251	0.0250	101	85 - 115	X433027	21-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0257	0.0250	103	85 - 115	X433027	21-Aug-24	
EPA 200.8	Selenium	mg/L	0.0254	0.0250	102	85 - 115	X433027	21-Aug-24	
EPA 200.8	Thallium	mg/L	0.0252	0.0250	101	85 - 115	X433027	21-Aug-24	
EPA 200.8	Uranium	mg/L	0.0251	0.0250	100	85 - 115	X433027	21-Aug-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00217	0.00200	109	85 - 115	X432182	12-Aug-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.100	98.0	90 - 110	X433108	14-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X433008	13-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X432187	09-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	0.100	97.0	90 - 110	X433190	16-Aug-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	101	95.4 - 104	X432207	09-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.1	99.3	99.8	96.4 - 105	X432118	07-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	399	397	101	96.4 - 105	X432118	07-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X432118	08-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X432109	08-Aug-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.05	3.00	102	90 - 110	X432102	06-Aug-24	
EPA 300.0	Fluoride	mg/L	2.03	2.00	101	90 - 110	X432102	06-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.02	2.00	101	90 - 110	X432102	06-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X432102	06-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.55	2.50	102	90 - 110	X432102	06-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X432102	06-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0064**
Reported: 22-Aug-24 14:33

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	7380	7380	0.0	20	X432207 - X4G0508-01	09-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	176	177	0.5	20	X432118 - X4H0021-03	07-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	176	177	0.5	20	X432118 - X4H0021-03	07-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X432118 - X4H0021-03	07-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X432118 - X4H0021-03	07-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	231	227	1.8	10	X432108 - X4H0064-03	08-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	250	257	2.8	10	X432108 - X4H0070-02	08-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	6.0	6.0	0.0	10	X432109 - X4H0064-03	08-Aug-24	
SM 4500 H B	pH @23.5°C	pH Units	8.0	8.0	0.1	20	X432118 - X4H0021-03	07-Aug-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	51.7	30.1	20.0	108	70 - 130	X433072 - X4H0064-01	16-Aug-24	
EPA 200.7	Calcium	mg/L	25.8	4.65	20.0	106	70 - 130	X433072 - X4H0101-01	16-Aug-24	
EPA 200.7	Magnesium	mg/L	27.7	6.75	20.0	105	70 - 130	X433072 - X4H0064-01	16-Aug-24	
EPA 200.7	Magnesium	mg/L	21.2	<0.500	20.0	104	70 - 130	X433072 - X4H0101-01	16-Aug-24	
EPA 200.7	Potassium	mg/L	21.7	0.87	20.0	104	70 - 130	X433072 - X4H0064-01	16-Aug-24	
EPA 200.7	Potassium	mg/L	21.3	<0.50	20.0	105	70 - 130	X433072 - X4H0101-01	16-Aug-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.969	<0.080	1.00	96.9	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Aluminum	mg/L	1.04	<0.080	1.00	104	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Barium	mg/L	1.17	0.212	1.00	96.0	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Barium	mg/L	1.06	0.0284	1.00	103	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Beryllium	mg/L	0.963	<0.00200	1.00	96.3	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Boron	mg/L	1.05	<0.0400	1.00	102	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Boron	mg/L	1.26	0.263	1.00	100	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Cadmium	mg/L	1.03	<0.0020	1.00	103	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Cadmium	mg/L	1.01	<0.0020	1.00	101	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Calcium	mg/L	50.6	33.1	20.0	87.4	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Calcium	mg/L	127	104	20.0	114	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Chromium	mg/L	1.02	<0.0060	1.00	102	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Chromium	mg/L	1.09	<0.0060	1.00	109	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Cobalt	mg/L	1.01	<0.0060	1.00	101	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Cobalt	mg/L	0.974	<0.0060	1.00	97.4	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Copper	mg/L	0.981	<0.0100	1.00	98.1	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Copper	mg/L	1.04	<0.0100	1.00	104	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	101	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Iron	mg/L	10.7	<0.100	10.0	107	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Lead	mg/L	1.01	<0.0075	1.00	101	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Lead	mg/L	0.985	<0.0075	1.00	98.5	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Lithium	mg/L	0.959	<0.040	1.00	95.9	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Magnesium	mg/L	26.8	7.49	20.0	96.5	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Magnesium	mg/L	50.3	28.7	20.0	108	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Manganese	mg/L	0.951	0.0080	1.00	94.3	70 - 130	X433054 - X4H0064-01	19-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0064**
Reported: 22-Aug-24 14:33

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	1.07	0.0413	1.00	103	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Molybdenum	mg/L	0.985	<0.0080	1.00	98.5	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Nickel	mg/L	1.02	<0.0100	1.00	102	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Nickel	mg/L	0.977	<0.0100	1.00	97.7	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Potassium	mg/L	21.0	1.23	20.0	98.8	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Potassium	mg/L	35.1	13.6	20.0	108	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Silver	mg/L	0.0518	<0.0050	0.0500	104	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Silver	mg/L	0.0545	<0.0050	0.0500	109	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Sodium	mg/L	49.2	33.2	19.0	84.2	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Sodium	mg/L	96.4	76.2	19.0	106	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Vanadium	mg/L	1.09	0.0051	1.00	108	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Zinc	mg/L	1.04	<0.0100	1.00	104	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Zinc	mg/L	1.04	0.0272	1.00	101	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.8	Antimony	mg/L	0.0247	<0.00100	0.0250	98.9	70 - 130	X433027 - X4H0064-01	21-Aug-24	
EPA 200.8	Antimony	mg/L	0.0240	<0.00500	0.0250	95.8	70 - 130	X433027 - X4H0071-01	21-Aug-24	D18
EPA 200.8	Arsenic	mg/L	0.0250	<0.00100	0.0250	100	70 - 130	X433027 - X4H0064-01	21-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0242	<0.00500	0.0250	96.6	70 - 130	X433027 - X4H0071-01	21-Aug-24	D18
EPA 200.8	Selenium	mg/L	0.0251	<0.00100	0.0250	99.0	70 - 130	X433027 - X4H0064-01	21-Aug-24	
EPA 200.8	Selenium	mg/L	0.0382	0.0114	0.0250	107	70 - 130	X433027 - X4H0071-01	21-Aug-24	D18
EPA 200.8	Thallium	mg/L	0.0232	<0.000200	0.0250	92.9	70 - 130	X433027 - X4H0064-01	21-Aug-24	
EPA 200.8	Thallium	mg/L	0.0236	<0.00100	0.0250	94.6	70 - 130	X433027 - X4H0071-01	21-Aug-24	D18
EPA 200.8	Uranium	mg/L	0.0264	0.00337	0.0250	92.3	70 - 130	X433027 - X4H0064-01	21-Aug-24	
EPA 200.8	Uranium	mg/L	0.0476	0.0239	0.0250	94.6	70 - 130	X433027 - X4H0071-01	21-Aug-24	D18
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00215	<0.000200	0.00200	108	70 - 130	X432182 - X4H0021-02	12-Aug-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	<0.0050	0.100	107	79 - 121	X433108 - X4H0007-01	14-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X433008 - X4H0007-01	13-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X433008 - X4H0007-02	13-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.06	<0.030	1.00	104	90 - 110	X432187 - X4H0064-01	09-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	101	90 - 110	X432187 - X4H0064-02	09-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	0.103	<0.0050	0.100	101	82 - 118	X433190 - X4H0064-01	16-Aug-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.01	1.88	3.00	104	90 - 110	X432102 - X4H0064-02	06-Aug-24	
EPA 300.0	Chloride	mg/L	3.93	0.85	3.00	103	90 - 110	X432102 - X4H0066-02	06-Aug-24	
EPA 300.0	Fluoride	mg/L	2.26	0.224	2.00	102	90 - 110	X432102 - X4H0064-02	06-Aug-24	
EPA 300.0	Fluoride	mg/L	2.09	<0.100	2.00	102	90 - 110	X432102 - X4H0066-02	06-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.79	0.744	2.00	102	90 - 110	X432102 - X4H0064-02	06-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	102	90 - 110	X432102 - X4H0066-02	06-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.84	0.744	4.00	102	90 - 110	X432102 - X4H0064-02	06-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	<0.100	4.00	102	90 - 110	X432102 - X4H0066-02	06-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	103	90 - 110	X432102 - X4H0064-02	06-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	102	90 - 110	X432102 - X4H0066-02	06-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	30.8	20.5	10.0	103	90 - 110	X432102 - X4H0064-02	06-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.7	0.48	10.0	102	90 - 110	X432102 - X4H0066-02	06-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0064**
Reported: 22-Aug-24 14:33

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	52.0	51.7	20.0	0.4	20	109	X433072 - X4H0064-01	
EPA 200.7	Magnesium	mg/L	27.8	27.7	20.0	0.4	20	105	X433072 - X4H0064-01	
EPA 200.7	Potassium	mg/L	21.8	21.7	20.0	0.3	20	105	X433072 - X4H0064-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.980	0.969	1.00	1.1	20	98.0	X433054 - X4H0064-01	
EPA 200.7	Barium	mg/L	1.15	1.17	1.00	2.2	20	93.5	X433054 - X4H0064-01	
EPA 200.7	Beryllium	mg/L	0.956	0.963	1.00	0.7	20	95.6	X433054 - X4H0064-01	
EPA 200.7	Boron	mg/L	0.958	1.05	1.00	8.9	20	93.5	X433054 - X4H0064-01	
EPA 200.7	Cadmium	mg/L	0.955	1.03	1.00	7.3	20	95.5	X433054 - X4H0064-01	
EPA 200.7	Calcium	mg/L	48.6	50.6	20.0	4.0	20	77.4	X433054 - X4H0064-01	
EPA 200.7	Chromium	mg/L	0.995	1.02	1.00	2.0	20	99.5	X433054 - X4H0064-01	
EPA 200.7	Cobalt	mg/L	0.944	1.01	1.00	7.1	20	94.4	X433054 - X4H0064-01	
EPA 200.7	Copper	mg/L	0.964	0.981	1.00	1.7	20	96.4	X433054 - X4H0064-01	
EPA 200.7	Iron	mg/L	9.78	10.1	10.0	3.4	20	97.8	X433054 - X4H0064-01	
EPA 200.7	Lead	mg/L	0.945	1.01	1.00	6.5	20	94.5	X433054 - X4H0064-01	
EPA 200.7	Lithium	mg/L	0.935	0.959	1.00	2.6	20	93.5	X433054 - X4H0064-01	
EPA 200.7	Magnesium	mg/L	26.0	26.8	20.0	3.1	20	92.4	X433054 - X4H0064-01	
EPA 200.7	Manganese	mg/L	0.950	0.951	1.00	0.1	20	94.2	X433054 - X4H0064-01	
EPA 200.7	Molybdenum	mg/L	0.950	1.02	1.00	7.1	20	94.5	X433054 - X4H0064-01	
EPA 200.7	Nickel	mg/L	0.950	1.02	1.00	6.8	20	95.0	X433054 - X4H0064-01	
EPA 200.7	Potassium	mg/L	20.6	21.0	20.0	1.8	20	96.9	X433054 - X4H0064-01	
EPA 200.7	Silver	mg/L	0.0497	0.0518	0.0500	4.3	20	99.3	X433054 - X4H0064-01	
EPA 200.7	Sodium	mg/L	48.0	49.2	19.0	2.6	20	77.5	X433054 - X4H0064-01	
EPA 200.7	Vanadium	mg/L	0.995	1.01	1.00	1.7	20	99.5	X433054 - X4H0064-01	
EPA 200.7	Zinc	mg/L	0.970	1.04	1.00	7.2	20	97.0	X433054 - X4H0064-01	
EPA 200.8	Antimony	mg/L	0.0256	0.0247	0.0250	3.6	20	102	X433027 - X4H0064-01	
EPA 200.8	Arsenic	mg/L	0.0257	0.0250	0.0250	2.8	20	103	X433027 - X4H0064-01	
EPA 200.8	Selenium	mg/L	0.0258	0.0251	0.0250	2.9	20	102	X433027 - X4H0064-01	
EPA 200.8	Thallium	mg/L	0.0240	0.0232	0.0250	3.1	20	95.9	X433027 - X4H0064-01	
EPA 200.8	Uranium	mg/L	0.0280	0.0264	0.0250	5.8	20	98.6	X433027 - X4H0064-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00216	0.00215	0.00200	0.3	20	108	X432182 - X4H0021-02	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.110	0.107	0.100	2.8	11	110	X433108 - X4H0007-01	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.103	0.100	0.1	20	103	X433008 - X4H0007-01	
EPA 350.1	Ammonia as N	mg/L	1.05	1.06	1.00	1.1	20	103	X432187 - X4H0064-01	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.103	0.100	2.0	11	99.0	X433190 - X4H0064-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.04	5.01	3.00	0.7	20	105	X432102 - X4H0064-02	
EPA 300.0	Fluoride	mg/L	2.29	2.26	2.00	1.2	20	103	X432102 - X4H0064-02	
EPA 300.0	Nitrate as N	mg/L	2.81	2.79	2.00	0.7	20	103	X432102 - X4H0064-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.90	4.84	4.00	1.2	20	104	X432102 - X4H0064-02	
EPA 300.0	Nitrite as N	mg/L	2.09	2.05	2.00	1.9	20	105	X432102 - X4H0064-02	
EPA 300.0	Sulfate as SO4	mg/L	30.9	30.8	10.0	0.3	20	104	X432102 - X4H0064-02	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0064**
Victor, CO 80860	Reported: 22-Aug-24 14:33

Notes and Definitions

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.
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: **X4H0233**
Victor, CO 80860	Reported: 05-Sep-24 15:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GV-06	X4H0233-01	Surface Water	13-Aug-24 11:24	TR	14-Aug-2024	
GV-4.5	X4H0233-02	Surface Water	13-Aug-24 11:50	TR	14-Aug-2024	
GV-5	X4H0233-03	Surface Water	13-Aug-24 12:20	TR	14-Aug-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: X4H0233

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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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Client Sample ID: **GV-06**
SVL Sample ID: **X4H0233-01 (Surface Water)**

Sampled: 13-Aug-24 11:24
Received: 14-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 1631E	**Mercury**	1.32	ng/L	0.500	0.120		X433208	MAC	08/16/24 20:19	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X434033	MAC	08/27/24 15:43	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.135	mg/L	0.0020	0.0019		X434069	NMS	08/26/24 11:19	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X434069	NMS	08/26/24 11:19	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X434069	NMS	08/26/24 11:19	
EPA 200.7	**Calcium**	45.9	mg/L	0.100	0.069		X434069	NMS	08/26/24 11:19	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X434069	NMS	08/26/24 11:19	
EPA 200.7	**Iron**	2.34	mg/L	0.100	0.056		X434069	NMS	08/26/24 11:19	
EPA 200.7	**Magnesium**	11.0	mg/L	0.500	0.090		X434069	NMS	08/26/24 11:19	
EPA 200.7	**Manganese**	1.04	mg/L	0.0080	0.0034		X434069	NMS	08/26/24 11:19	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X434069	NMS	08/26/24 11:19	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X434069	NMS	08/26/24 11:19	
EPA 200.7	**Phosphorus**	0.094	mg/L	0.050	0.013		X434069	NMS	08/26/24 11:19	
EPA 200.7	**Potassium**	1.79	mg/L	0.50	0.18		X434069	NMS	08/26/24 11:19	
EPA 200.7	**Sodium**	12.6	mg/L	0.50	0.12		X434069	NMS	08/26/24 11:19	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X434069	NMS	08/26/24 11:19	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X434151	SMU	08/26/24 12:28	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X434151	SMU	08/26/24 12:28	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X434151	SMU	08/26/24 12:28	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X434151	SMU	08/26/24 12:28	
EPA 200.8	**Copper**	0.00079	mg/L	0.00040	0.00036		X434151	SMU	08/26/24 12:28	
EPA 200.8	**Lead**	0.00090	mg/L	0.00020	0.00014		X434151	SMU	08/26/24 12:28	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X434151	SMU	08/26/24 12:28	
SM 2340 B	**Hardness (as CaC03)**	173	mg/L	2.31	0.543		N/A		08/20/24 12:30	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X433215	SJN	08/20/24 12:30	
EPA 200.7	**Barium**	0.108	mg/L	0.0020	0.0019		X433215	SJN	08/20/24 12:30	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X433215	SJN	08/20/24 12:30	
EPA 200.7	**Calcium**	51.2	mg/L	0.100	0.069		X433215	SJN	08/20/24 12:30	B7
EPA 200.7	**Iron**	0.369	mg/L	0.100	0.056		X433215	SJN	08/20/24 12:30	
EPA 200.7	**Magnesium**	12.6	mg/L	0.500	0.090		X433215	SJN	08/20/24 12:30	
EPA 200.7	**Manganese**	0.366	mg/L	0.0080	0.0034		X433215	SJN	08/20/24 12:30	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X433215	SJN	08/20/24 12:30	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X433215	SJN	08/20/24 12:30	
EPA 200.7	**Potassium**	1.94	mg/L	0.50	0.18		X433215	SJN	08/20/24 12:30	
EPA 200.7	**Sodium**	14.2	mg/L	0.50	0.12		X433215	SJN	08/20/24 12:30	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X433215	SJN	08/20/24 12:30	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X434185	SMU	08/29/24 12:10	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X434185	SMU	08/29/24 12:10	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X434185	SMU	08/29/24 12:10	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X434185	SMU	08/29/24 12:10	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X434185	SMU	08/29/24 12:10	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X434185	SMU	08/29/24 12:10	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X434185	SMU	08/29/24 12:10	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X434185	SMU	08/29/24 12:10	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X434185	SMU	08/29/24 12:10	
EPA 200.8	**Uranium**	0.00182	mg/L	0.000100	0.000052		X434185	SMU	08/29/24 12:10	

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: **X4H0233**
Reported: 05-Sep-24 15:35

Client Sample ID: **GV-06**
SVL Sample ID: **X4H0233-01 (Surface Water)**

Sampled: 13-Aug-24 11:24
Received: 14-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435204	DD	09/04/24 08:47	H1
Calculation	Chromium(III)	< 0.0560	mg/L	0.0560	0.0210		N/A		08/26/24 11:19	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X434007	DD	08/20/24 09:51	
EPA 350.1	**Ammonia as N**	0.040	mg/L	0.030	0.013		X433157	DD	08/19/24 11:48	
EPA 351.2	**TKN**	1.46	mg/L	0.50	0.31		X433149	DD	08/15/24 12:39	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X433190	DD	08/16/24 14:20	
SM 2310 B	**Acidity to pH 8.3**	-133	mg/L as CaCO3	10.0			X434227	MWD	08/23/24 12:23	
SM 2320 B	**Total Alkalinity**	135	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:35	
SM 2320 B	**Bicarbonate**	135	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:35	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:35	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:35	
SM 2540 C	**Total Diss. Solids**	283	mg/L	10			X433201	TJL	08/19/24 13:05	
SM 2540 D	**Total Susp. Solids**	10.0	mg/L	5.0			X433202	TJL	08/19/24 15:00	
SM 4500 H B	**pH @21.1°C**	7.9	pH Units				X433222	MWD	08/16/24 14:35	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X433097	NMS	08/15/24 12:05	
SM 4500-O-G	**Dissolved Oxygen**	6.7	mg/L	0.1			X433164	TJL	08/15/24 12:10	H3,H5
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0500	mg/L	0.0500	0.0190	10	X433193	NMS	08/15/24 17:49	D11
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.0510	mg/L	0.0510	0.0192		N/A		08/29/24 12:10	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.00	mg/L	0.20	0.02		X433154	RS	08/14/24 12:20	
EPA 300.0	**Fluoride**	0.600	mg/L	0.100	0.017		X433154	RS	08/14/24 12:20	
EPA 300.0	**Nitrate as N**	0.153	mg/L	0.050	0.013		X433154	RS	08/14/24 12:20	
EPA 300.0	**Nitrate+Nitrite as N**	0.162	mg/L	0.100	0.044		X433154	RS	08/14/24 12:20	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X433154	RS	08/14/24 12:20	
EPA 300.0	**Sulfate as SO4**	55.7	mg/L	3.00	1.80	10	X433154	RS	08/14/24 12:36	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.83 meq/L Anion Sum: 4.13 meq/L C/A Balance: -3.76 % Calculated TDS: 222 TDS/cTDS: 1.28

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

Tawnya M. Hall
Project Manager Assistant

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: **X4H0233**
Reported: 05-Sep-24 15:35

Client Sample ID: **GV-4.5**
SVL Sample ID: **X4H0233-02 (Surface Water)**

Sampled: 13-Aug-24 11:50
Received: 14-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 1631E	**Mercury**	0.901	ng/L	0.500	0.120		X433208	MAC	08/16/24 20:24	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X434033	MAC	08/27/24 15:45	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.0914	mg/L	0.0020	0.0019		X434069	NMS	08/26/24 11:23	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X434069	NMS	08/26/24 11:23	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X434069	NMS	08/26/24 11:23	
EPA 200.7	**Calcium**	42.5	mg/L	0.100	0.069		X434069	NMS	08/26/24 11:23	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X434069	NMS	08/26/24 11:23	
EPA 200.7	**Iron**	2.23	mg/L	0.100	0.056		X434069	NMS	08/26/24 11:23	
EPA 200.7	**Magnesium**	9.83	mg/L	0.500	0.090		X434069	NMS	08/26/24 11:23	
EPA 200.7	**Manganese**	0.417	mg/L	0.0080	0.0034		X434069	NMS	08/26/24 11:23	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X434069	NMS	08/26/24 11:23	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X434069	NMS	08/26/24 11:23	
EPA 200.7	Phosphorus	< 0.050	mg/L	0.050	0.013		X434069	NMS	08/26/24 11:23	
EPA 200.7	**Potassium**	1.15	mg/L	0.50	0.18		X434069	NMS	08/26/24 11:23	
EPA 200.7	**Sodium**	13.2	mg/L	0.50	0.12		X434069	NMS	08/26/24 11:23	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X434069	NMS	08/26/24 11:23	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X434151	SMU	08/26/24 12:37	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X434151	SMU	08/26/24 12:37	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X434151	SMU	08/26/24 12:37	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X434151	SMU	08/26/24 12:37	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X434151	SMU	08/26/24 12:37	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X434151	SMU	08/26/24 12:37	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X434151	SMU	08/26/24 12:37	
SM 2340 B	**Hardness (as CaC03)**	162	mg/L	2.31	0.543		N/A		08/26/24 11:23	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X433215	SJN	08/20/24 12:34	
EPA 200.7	**Barium**	0.0989	mg/L	0.0020	0.0019		X433215	SJN	08/20/24 12:34	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X433215	SJN	08/20/24 12:34	
EPA 200.7	**Calcium**	47.0	mg/L	0.100	0.069		X433215	SJN	08/20/24 12:34	B7
EPA 200.7	**Iron**	1.80	mg/L	0.100	0.056		X433215	SJN	08/20/24 12:34	
EPA 200.7	**Magnesium**	10.9	mg/L	0.500	0.090		X433215	SJN	08/20/24 12:34	
EPA 200.7	**Manganese**	0.462	mg/L	0.0080	0.0034		X433215	SJN	08/20/24 12:34	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X433215	SJN	08/20/24 12:34	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X433215	SJN	08/20/24 12:34	
EPA 200.7	**Potassium**	1.24	mg/L	0.50	0.18		X433215	SJN	08/20/24 12:34	
EPA 200.7	**Sodium**	14.5	mg/L	0.50	0.12		X433215	SJN	08/20/24 12:34	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X433215	SJN	08/20/24 12:34	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X434185	SMU	08/29/24 12:13	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X434185	SMU	08/29/24 12:13	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X434185	SMU	08/29/24 12:13	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X434185	SMU	08/29/24 12:13	
EPA 200.8	**Copper**	0.00040	mg/L	0.00040	0.00036		X434185	SMU	08/29/24 12:13	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X434185	SMU	08/29/24 12:13	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X434185	SMU	08/29/24 12:13	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X434185	SMU	08/29/24 12:13	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X434185	SMU	08/29/24 12:13	
EPA 200.8	**Uranium**	0.000612	mg/L	0.000100	0.000052		X434185	SMU	08/29/24 12:13	

SVL holds the following certifications:
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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: **X4H0233**
Reported: 05-Sep-24 15:35

Client Sample ID: **GV-4.5**
SVL Sample ID: **X4H0233-02 (Surface Water)**

Sampled: 13-Aug-24 11:50
Received: 14-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435204	DD	09/04/24 08:49	H1
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		08/26/24 11:23	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X434007	DD	08/20/24 09:54	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X433157	DD	08/19/24 11:50	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X433226	DD	08/30/24 11:55	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X433190	DD	08/16/24 14:21	
SM 2310 B	**Acidity to pH 8.3**	-118	mg/L as CaCO3	10.0			X434227	MWD	08/23/24 12:23	
SM 2320 B	**Total Alkalinity**	114	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:41	
SM 2320 B	**Bicarbonate**	114	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:41	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:41	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:41	
SM 2540 C	**Total Diss. Solids**	258	mg/L	10			X433201	TJL	08/19/24 13:05	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X433202	TJL	08/19/24 15:00	
SM 4500 H B	**pH @21.2°C**	7.0	pH Units				X433222	MWD	08/16/24 14:41	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X433097	NMS	08/15/24 12:05	
SM 4500-O-G	**Dissolved Oxygen**	6.3	mg/L	0.1			X433164	TJL	08/15/24 12:10	H3,H5
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X433193	NMS	08/15/24 17:49	
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		08/29/24 12:13	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	32.6	mg/L	2.00	0.22	10	X433154	RS	08/14/24 22:07	
EPA 300.0	**Fluoride**	0.474	mg/L	0.100	0.017		X433154	RS	08/14/24 12:53	
EPA 300.0	**Nitrate as N**	0.161	mg/L	0.050	0.013		X433154	RS	08/14/24 12:53	
EPA 300.0	**Nitrate+Nitrite as N**	0.161	mg/L	0.100	0.044		X433154	RS	08/14/24 12:53	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X433154	RS	08/14/24 12:53	
EPA 300.0	**Sulfate as SO4**	41.3	mg/L	0.30	0.18		X433154	RS	08/14/24 12:53	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.62 meq/L Anion Sum: 4.09 meq/L C/A Balance: -6.12 % Calculated TDS: 214 TDS/cTDS: 1.21

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

Tawnya M. Hall
Project Manager Assistant

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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: **X4H0233**
Reported: 05-Sep-24 15:35

Client Sample ID: **GV-5**
SVL Sample ID: **X4H0233-03 (Surface Water)**

Sampled: 13-Aug-24 12:20
Received: 14-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 1631E	**Mercury**	1.16	ng/L	0.500	0.120		X433208	MAC	08/16/24 20:29	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X434033	MAC	08/27/24 15:48	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.0450	mg/L	0.0020	0.0019		X434069	NMS	08/26/24 11:27	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X434069	NMS	08/26/24 11:27	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X434069	NMS	08/26/24 11:27	
EPA 200.7	**Calcium**	44.2	mg/L	0.100	0.069		X434069	NMS	08/26/24 11:27	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X434069	NMS	08/26/24 11:27	
EPA 200.7	**Iron**	2.43	mg/L	0.100	0.056		X434069	NMS	08/26/24 11:27	
EPA 200.7	**Magnesium**	11.0	mg/L	0.500	0.090		X434069	NMS	08/26/24 11:27	
EPA 200.7	**Manganese**	1.04	mg/L	0.0080	0.0034		X434069	NMS	08/26/24 11:27	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X434069	NMS	08/26/24 11:27	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X434069	NMS	08/26/24 11:27	
EPA 200.7	**Phosphorus**	0.064	mg/L	0.050	0.013		X434069	NMS	08/26/24 11:27	
EPA 200.7	**Potassium**	2.01	mg/L	0.50	0.18		X434069	NMS	08/26/24 11:27	
EPA 200.7	**Sodium**	13.7	mg/L	0.50	0.12		X434069	NMS	08/26/24 11:27	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X434069	NMS	08/26/24 11:27	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X434151	SMU	08/26/24 12:40	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X434151	SMU	08/26/24 12:40	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X434151	SMU	08/26/24 12:40	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X434151	SMU	08/26/24 12:40	
EPA 200.8	**Copper**	0.00044	mg/L	0.00040	0.00036		X434151	SMU	08/26/24 12:40	
EPA 200.8	**Lead**	0.00040	mg/L	0.00020	0.00014		X434151	SMU	08/26/24 12:40	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X434151	SMU	08/26/24 12:40	
SM 2340 B	**Hardness (as CaC03)**	170	mg/L	2.31	0.543		N/A		08/20/24 12:37	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X433215	SJN	08/20/24 12:37	
EPA 200.7	**Barium**	0.0291	mg/L	0.0020	0.0019		X433215	SJN	08/20/24 12:37	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X433215	SJN	08/20/24 12:37	
EPA 200.7	**Calcium**	50.0	mg/L	0.100	0.069		X433215	SJN	08/20/24 12:37	B7
EPA 200.7	**Iron**	0.117	mg/L	0.100	0.056		X433215	SJN	08/20/24 12:37	
EPA 200.7	**Magnesium**	12.4	mg/L	0.500	0.090		X433215	SJN	08/20/24 12:37	
EPA 200.7	**Manganese**	0.407	mg/L	0.0080	0.0034		X433215	SJN	08/20/24 12:37	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X433215	SJN	08/20/24 12:37	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X433215	SJN	08/20/24 12:37	
EPA 200.7	**Potassium**	2.14	mg/L	0.50	0.18		X433215	SJN	08/20/24 12:37	
EPA 200.7	**Sodium**	15.4	mg/L	0.50	0.12		X433215	SJN	08/20/24 12:37	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X433215	SJN	08/20/24 12:37	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X434185	SMU	08/29/24 12:16	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X434185	SMU	08/29/24 12:16	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X434185	SMU	08/29/24 12:16	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X434185	SMU	08/29/24 12:16	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X434185	SMU	08/29/24 12:16	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X434185	SMU	08/29/24 12:16	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X434185	SMU	08/29/24 12:16	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X434185	SMU	08/29/24 12:16	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X434185	SMU	08/29/24 12:16	
EPA 200.8	**Uranium**	0.00118	mg/L	0.000100	0.000052		X434185	SMU	08/29/24 12:16	

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: **X4H0233**
Reported: 05-Sep-24 15:35

Client Sample ID: **GV-5**
SVL Sample ID: **X4H0233-03 (Surface Water)**

Sampled: 13-Aug-24 12:20
Received: 14-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435204	DD	09/04/24 08:51	H1
Calculation	Chromium(III)	< 0.0560	mg/L	0.0560	0.0210		N/A		08/26/24 11:27	
EPA 335.4	**Cyanide (total)**	0.0051	mg/L	0.0050	0.0038		X434007	DD	08/20/24 09:57	
EPA 350.1	**Ammonia as N**	0.040	mg/L	0.030	0.013		X433157	DD	08/19/24 12:02	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X433226	DD	08/30/24 11:56	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X433190	DD	08/16/24 14:59	
SM 2310 B	**Acidity to pH 8.3**	-148	mg/L as CaCO3	10.0			X434227	MWD	08/23/24 12:23	
SM 2320 B	**Total Alkalinity**	143	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:55	
SM 2320 B	**Bicarbonate**	143	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:55	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:55	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X433222	MWD	08/16/24 14:55	
SM 2540 C	**Total Diss. Solids**	263	mg/L	10			X433201	TJL	08/19/24 13:05	
SM 2540 D	**Total Susp. Solids**	18.0	mg/L	5.0			X433202	TJL	08/19/24 15:00	
SM 4500 H B	**pH @21.4°C**	8.1	pH Units				X433222	MWD	08/16/24 14:55	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X433097	NMS	08/15/24 12:05	
SM 4500-O-G	**Dissolved Oxygen**	5.8	mg/L	0.1			X433164	TJL	08/15/24 12:10	H3,H5
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0500	mg/L	0.0500	0.0190	10	X433193	NMS	08/15/24 17:49	D11
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.0510	mg/L	0.0510	0.0192		N/A		08/29/24 12:16	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	13.8	mg/L	2.00	0.22	10	X433154	RS	08/14/24 16:36	
EPA 300.0	**Fluoride**	0.739	mg/L	0.100	0.017		X433154	RS	08/14/24 16:19	
EPA 300.0	**Nitrate as N**	0.078	mg/L	0.050	0.013		X433154	RS	08/14/24 16:19	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X433154	RS	08/14/24 16:19	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X433154	RS	08/14/24 16:19	
EPA 300.0	**Sulfate as SO4**	45.1	mg/L	0.30	0.18		X433154	RS	08/14/24 16:19	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.79 meq/L Anion Sum: 4.23 meq/L C/A Balance: -5.50 % Calculated TDS: 221 TDS/cTDS: 1.19

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

Tawnya M. Hall
Project Manager Assistant

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X433208	16-Aug-24	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X433208	16-Aug-24	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X433208	16-Aug-24	
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X434033	27-Aug-24	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X434069	26-Aug-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X434069	26-Aug-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X434069	26-Aug-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X434069	26-Aug-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X434069	26-Aug-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X434069	26-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X434069	26-Aug-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X434069	26-Aug-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X434069	26-Aug-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X434069	26-Aug-24	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X434069	26-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X434069	26-Aug-24	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X434069	26-Aug-24	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X434069	26-Aug-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X434151	26-Aug-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X434151	26-Aug-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X434151	26-Aug-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X434151	26-Aug-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X434151	26-Aug-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X434151	26-Aug-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X434151	26-Aug-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X433215	20-Aug-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X433215	20-Aug-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X433215	20-Aug-24	
EPA 200.7	Calcium	mg/L	0.353	0.069	0.100	X433215	20-Aug-24	B7
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X433215	20-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X433215	20-Aug-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X433215	20-Aug-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X433215	20-Aug-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X433215	20-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X433215	20-Aug-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X433215	20-Aug-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X433215	20-Aug-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X434185	29-Aug-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X434185	29-Aug-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X434185	29-Aug-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X434185	29-Aug-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X434185	29-Aug-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X434185	29-Aug-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X434185	29-Aug-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X434185	29-Aug-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X434185	29-Aug-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X434185	29-Aug-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X435204	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X434007	20-Aug-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X433157	19-Aug-24	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X433149	15-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)								
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X433226	30-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X433190	16-Aug-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X434227	23-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X433222	16-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X433222	16-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X433222	16-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X433222	16-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X433201	19-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X433202	19-Aug-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X433097	15-Aug-24	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X433193	15-Aug-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X433154	14-Aug-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X433154	14-Aug-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X433154	14-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X433154	14-Aug-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X433154	14-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X433154	14-Aug-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 1631E	Mercury	ng/L	4.81	5.00	96.2	77 - 123	X433208	16-Aug-24	
EPA 245.1	Mercury	mg/L	0.00212	0.00200	106	85 - 115	X434033	27-Aug-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	0.915	1.00	91.5	85 - 115	X434069	26-Aug-24	
EPA 200.7	Beryllium	mg/L	0.915	1.00	91.5	85 - 115	X434069	26-Aug-24	
EPA 200.7	Boron	mg/L	0.941	1.00	94.1	85 - 115	X434069	26-Aug-24	
EPA 200.7	Calcium	mg/L	18.0	20.0	90	85 - 115	X434069	26-Aug-24	
EPA 200.7	Chromium	mg/L	0.918	1.00	91.8	85 - 115	X434069	26-Aug-24	
EPA 200.7	Iron	mg/L	9.26	10.0	92.6	85 - 115	X434069	26-Aug-24	
EPA 200.7	Magnesium	mg/L	18.5	20.0	92.5	85 - 115	X434069	26-Aug-24	
EPA 200.7	Manganese	mg/L	0.895	1.00	89.5	85 - 115	X434069	26-Aug-24	
EPA 200.7	Molybdenum	mg/L	0.930	1.00	93.0	85 - 115	X434069	26-Aug-24	
EPA 200.7	Nickel	mg/L	0.890	1.00	89.0	85 - 115	X434069	26-Aug-24	
EPA 200.7	Phosphorus	mg/L	0.955	1.00	95.5	85 - 115	X434069	26-Aug-24	
EPA 200.7	Potassium	mg/L	18.5	20.0	92.6	85 - 115	X434069	26-Aug-24	
EPA 200.7	Sodium	mg/L	17.8	19.0	93.5	85 - 115	X434069	26-Aug-24	
EPA 200.7	Zinc	mg/L	0.909	1.00	90.9	85 - 115	X434069	26-Aug-24	
EPA 200.8	Antimony	mg/L	0.0235	0.0250	94.0	85 - 115	X434151	26-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0239	0.0250	95.6	85 - 115	X434151	26-Aug-24	
EPA 200.8	Cadmium	mg/L	0.0229	0.0250	91.7	85 - 115	X434151	26-Aug-24	
EPA 200.8	Chromium	mg/L	0.0234	0.0250	93.6	85 - 115	X434151	26-Aug-24	
EPA 200.8	Copper	mg/L	0.0240	0.0250	95.9	85 - 115	X434151	26-Aug-24	
EPA 200.8	Lead	mg/L	0.0240	0.0250	95.9	85 - 115	X434151	26-Aug-24	
EPA 200.8	Selenium	mg/L	0.0228	0.0250	91.2	85 - 115	X434151	26-Aug-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.984	1.00	98.4	85 - 115	X433215	20-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Dissolved) (Continued)									
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X433215	20-Aug-24	
EPA 200.7	Beryllium	mg/L	1.02	1.00	102	85 - 115	X433215	20-Aug-24	
EPA 200.7	Calcium	mg/L	20.3	20.0	101	85 - 115	X433215	20-Aug-24	B7
EPA 200.7	Iron	mg/L	10.2	10.0	102	85 - 115	X433215	20-Aug-24	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X433215	20-Aug-24	
EPA 200.7	Manganese	mg/L	0.997	1.00	99.7	85 - 115	X433215	20-Aug-24	
EPA 200.7	Molybdenum	mg/L	0.967	1.00	96.7	85 - 115	X433215	20-Aug-24	
EPA 200.7	Nickel	mg/L	0.995	1.00	99.5	85 - 115	X433215	20-Aug-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	101	85 - 115	X433215	20-Aug-24	
EPA 200.7	Sodium	mg/L	20.5	19.0	108	85 - 115	X433215	20-Aug-24	
EPA 200.7	Zinc	mg/L	1.02	1.00	102	85 - 115	X433215	20-Aug-24	
EPA 200.8	Antimony	mg/L	0.0230	0.0250	92.2	85 - 115	X434185	29-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0238	0.0250	95.1	85 - 115	X434185	29-Aug-24	
EPA 200.8	Cadmium	mg/L	0.0237	0.0250	94.6	85 - 115	X434185	29-Aug-24	
EPA 200.8	Chromium	mg/L	0.0239	0.0250	95.6	85 - 115	X434185	29-Aug-24	
EPA 200.8	Copper	mg/L	0.0245	0.0250	97.9	85 - 115	X434185	29-Aug-24	
EPA 200.8	Lead	mg/L	0.0234	0.0250	93.5	85 - 115	X434185	29-Aug-24	
EPA 200.8	Selenium	mg/L	0.0224	0.0250	89.6	85 - 115	X434185	29-Aug-24	
EPA 200.8	Silver	mg/L	0.0234	0.0250	93.4	85 - 115	X434185	29-Aug-24	
EPA 200.8	Thallium	mg/L	0.0231	0.0250	92.2	85 - 115	X434185	29-Aug-24	
EPA 200.8	Uranium	mg/L	0.0228	0.0250	91.2	85 - 115	X434185	29-Aug-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X435204	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	0.100	102	90 - 110	X434007	20-Aug-24	
EPA 350.1	Ammonia as N	mg/L	0.997	1.00	99.7	90 - 110	X433157	19-Aug-24	
EPA 351.2	TKN	mg/L	7.36	8.00	92.0	90 - 110	X433149	15-Aug-24	
EPA 351.2	TKN	mg/L	8.31	8.00	104	90 - 110	X433226	30-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	0.100	97.0	90 - 110	X433190	16-Aug-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	101	95.4 - 104	X434227	23-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	102	96.4 - 105	X433222	16-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X433202	19-Aug-24	
SM 4500 S D	Sulfide	mg/L	0.433	0.500	86.6	85 - 115	X433097	15-Aug-24	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.105	0.100	105	80 - 120	X433193	15-Aug-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.06	3.00	102	90 - 110	X433154	14-Aug-24	
EPA 300.0	Fluoride	mg/L	2.03	2.00	101	90 - 110	X433154	14-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	101	90 - 110	X433154	14-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.59	4.50	102	90 - 110	X433154	14-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X433154	14-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X433154	14-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

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	X434227 - X4H0187-01	23-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	124	123	0.2	20	X433222 - X4H0232-02	16-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	124	123	0.2	20	X433222 - X4H0232-02	16-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X433222 - X4H0232-02	16-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X433222 - X4H0232-02	16-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	252	258	2.4	10	X433201 - X4H0233-02	19-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	259	263	1.5	10	X433201 - X4H0233-03	19-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	18.0	18.0	0.0	10	X433202 - X4H0233-03	19-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X433202 - X4H0233-02	19-Aug-24	
SM 4500 H B	pH @20.9°C	pH Units	8.2	8.2	0.0	20	X433222 - X4H0232-02	16-Aug-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	6.7	6.7	0.0	20	X433164 - X4H0207-01	15-Aug-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	7.1	7.2	1.4	20	X433164 - X4H0238-01	15-Aug-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)										
EPA 1631E	Mercury	ng/L	2.81	<0.500	2.50	98.3	71 - 125	X433208 - X4H0292-01	16-Aug-24	
EPA 1631E	Mercury	ng/L	3.10	0.590	2.50	100	71 - 125	X433208 - X4H0260-01	16-Aug-24	
EPA 245.1	Mercury	mg/L	0.00210	<0.000093	0.00200	105	70 - 130	X434033 - X4H0202-03	27-Aug-24	
EPA 245.1	Mercury	mg/L	0.00211	<0.000093	0.00200	105	70 - 130	X434033 - X4H0202-10	27-Aug-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.12	0.210	1.00	91.4	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Barium	mg/L	0.926	0.0407	1.00	88.5	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Beryllium	mg/L	0.939	<0.00200	1.00	93.9	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Beryllium	mg/L	0.944	<0.00200	1.00	94.4	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Boron	mg/L	0.979	<0.0400	1.00	96.2	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Boron	mg/L	1.05	0.0541	1.00	99.5	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Calcium	mg/L	60.8	41.6	20.0	96	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Calcium	mg/L	300	275	20.0	126	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Chromium	mg/L	0.928	<0.0060	1.00	92.8	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Chromium	mg/L	0.932	<0.0060	1.00	93.2	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Iron	mg/L	9.95	0.560	10.0	93.9	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Iron	mg/L	9.88	0.239	10.0	96.4	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Magnesium	mg/L	38.6	19.3	20.0	96.8	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Magnesium	mg/L	236	210	20.0	0.30R>S	70 - 130	X434069 - X4H0238-01	26-Aug-24	M3
EPA 200.7	Manganese	mg/L	0.974	0.0707	1.00	90.4	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Manganese	mg/L	1.92	0.962	1.00	95.8	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Molybdenum	mg/L	0.942	<0.0080	1.00	94.2	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Molybdenum	mg/L	0.970	<0.0080	1.00	96.6	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Nickel	mg/L	0.889	<0.0100	1.00	88.2	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Nickel	mg/L	0.995	0.0904	1.00	90.4	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Phosphorus	mg/L	1.03	0.053	1.00	97.4	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Phosphorus	mg/L	1.08	<0.050	1.00	104	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Potassium	mg/L	20.2	1.28	20.0	94.5	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Potassium	mg/L	24.3	4.32	20.0	99.9	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.7	Sodium	mg/L	21.2	3.17	19.0	94.9	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Sodium	mg/L	88.2	67.9	19.0	107	70 - 130	X434069 - X4H0238-01	26-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Zinc	mg/L	0.943	0.0276	1.00	91.5	70 - 130	X434069 - X4H0207-01	26-Aug-24	
EPA 200.7	Zinc	mg/L	1.09	0.143	1.00	94.8	70 - 130	X434069 - X4H0238-01	26-Aug-24	
EPA 200.8	Antimony	mg/L	0.0224	<0.00100	0.0250	89.7	70 - 130	X434151 - X4H0233-01	26-Aug-24	
EPA 200.8	Antimony	mg/L	0.0218	<0.00100	0.0250	87.2	70 - 130	X434151 - X4H0294-01	26-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0240	<0.00100	0.0250	92.6	70 - 130	X434151 - X4H0233-01	26-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0222	<0.00100	0.0250	86.6	70 - 130	X434151 - X4H0294-01	26-Aug-24	
EPA 200.8	Cadmium	mg/L	0.0216	<0.000100	0.0250	86.3	70 - 130	X434151 - X4H0233-01	26-Aug-24	
EPA 200.8	Cadmium	mg/L	0.0202	<0.000100	0.0250	80.9	70 - 130	X434151 - X4H0294-01	26-Aug-24	
EPA 200.8	Chromium	mg/L	0.0234	<0.00100	0.0250	92.5	70 - 130	X434151 - X4H0233-01	26-Aug-24	
EPA 200.8	Chromium	mg/L	0.0223	<0.00100	0.0250	88.5	70 - 130	X434151 - X4H0294-01	26-Aug-24	
EPA 200.8	Copper	mg/L	0.0236	0.00079	0.0250	91.2	70 - 130	X434151 - X4H0233-01	26-Aug-24	
EPA 200.8	Copper	mg/L	0.0223	0.00082	0.0250	86.1	70 - 130	X434151 - X4H0294-01	26-Aug-24	
EPA 200.8	Lead	mg/L	0.0243	0.00090	0.0250	93.5	70 - 130	X434151 - X4H0233-01	26-Aug-24	
EPA 200.8	Lead	mg/L	0.0224	0.00026	0.0250	88.4	70 - 130	X434151 - X4H0294-01	26-Aug-24	
EPA 200.8	Selenium	mg/L	0.0224	<0.00100	0.0250	88.6	70 - 130	X434151 - X4H0233-01	26-Aug-24	
EPA 200.8	Selenium	mg/L	0.0221	0.00134	0.0250	83.2	70 - 130	X434151 - X4H0294-01	26-Aug-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.12	<0.080	1.00	112	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Aluminum	mg/L	1.07	<0.080	1.00	107	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Barium	mg/L	1.13	0.0163	1.00	112	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Barium	mg/L	1.10	0.0291	1.00	108	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Beryllium	mg/L	1.12	<0.00200	1.00	112	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Beryllium	mg/L	1.09	<0.00200	1.00	109	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Calcium	mg/L	99.9	65.6	20.0	171	70 - 130	X433215 - X4H0188-01	20-Aug-24	B7,M1
EPA 200.7	Calcium	mg/L	74.3	50.0	20.0	122	70 - 130	X433215 - X4H0233-03	20-Aug-24	B7
EPA 200.7	Iron	mg/L	13.6	1.92	10.0	117	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Iron	mg/L	11.1	0.117	10.0	110	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Magnesium	mg/L	52.8	25.9	20.0	134	70 - 130	X433215 - X4H0188-01	20-Aug-24	M1
EPA 200.7	Magnesium	mg/L	34.7	12.4	20.0	111	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Manganese	mg/L	1.31	0.184	1.00	113	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Manganese	mg/L	1.48	0.407	1.00	107	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Molybdenum	mg/L	1.06	<0.0080	1.00	106	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Molybdenum	mg/L	1.11	<0.0080	1.00	111	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Nickel	mg/L	1.03	<0.0100	1.00	103	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Nickel	mg/L	1.10	<0.0100	1.00	110	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Potassium	mg/L	34.9	10.8	20.0	120	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Potassium	mg/L	23.9	2.14	20.0	109	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Sodium	mg/L	76.2	48.3	19.0	147	70 - 130	X433215 - X4H0188-01	20-Aug-24	M1
EPA 200.7	Sodium	mg/L	35.9	15.4	19.0	108	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.7	Zinc	mg/L	1.07	<0.0100	1.00	107	70 - 130	X433215 - X4H0188-01	20-Aug-24	
EPA 200.7	Zinc	mg/L	1.13	<0.0100	1.00	113	70 - 130	X433215 - X4H0233-03	20-Aug-24	
EPA 200.8	Antimony	mg/L	0.0294	<0.00100	0.0250	118	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Antimony	mg/L	0.0322	0.00152	0.0250	123	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0303	0.00132	0.0250	116	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0313	<0.00100	0.0250	123	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Cadmium	mg/L	0.0282	<0.000100	0.0250	113	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Cadmium	mg/L	0.0298	<0.000100	0.0250	119	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Chromium	mg/L	0.0271	<0.00100	0.0250	108	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Chromium	mg/L	0.0476	0.0183	0.0250	117	70 - 130	X434185 - X4H0295-01	29-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Copper	mg/L	0.0272	0.00077	0.0250	106	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Copper	mg/L	0.0305	0.00243	0.0250	112	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Lead	mg/L	0.0281	<0.00020	0.0250	112	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Lead	mg/L	0.0295	<0.00020	0.0250	118	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Selenium	mg/L	0.0296	<0.00100	0.0250	117	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Selenium	mg/L	0.0314	0.00103	0.0250	121	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Silver	mg/L	0.0266	<0.00008	0.0250	106	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Silver	mg/L	0.0279	<0.00008	0.0250	111	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Thallium	mg/L	0.0269	<0.000200	0.0250	107	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Thallium	mg/L	0.0302	<0.000200	0.0250	121	70 - 130	X434185 - X4H0295-01	29-Aug-24	
EPA 200.8	Uranium	mg/L	0.0284	<0.000100	0.0250	113	70 - 130	X434185 - X4H0260-01	29-Aug-24	
EPA 200.8	Uranium	mg/L	0.0310	<0.000100	0.0250	124	70 - 130	X434185 - X4H0295-01	29-Aug-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	<0.0050	0.100	107	79 - 121	X435204 - X4H0232-01	04-Sep-24	H1
EPA 335.4	Cyanide (total)	mg/L	0.104	<0.0050	0.100	104	90 - 110	X434007 - X4H0296-08	20-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X434007 - X4H0296-09	20-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.02	0.037	1.00	98.3	90 - 110	X433157 - X4H0207-01	19-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.04	0.030	1.00	101	90 - 110	X433157 - X4H0207-02	19-Aug-24	
EPA 351.2	TKN	mg/L	8.25	<0.50	8.00	103	90 - 110	X433149 - X4H0009-01	15-Aug-24	
EPA 351.2	TKN	mg/L	8.46	<0.50	8.00	102	90 - 110	X433226 - X4H0233-02	30-Aug-24	
EPA 351.2	TKN	mg/L	8.57	<0.50	8.00	101	90 - 110	X433226 - X4H0233-03	30-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	0.103	<0.0050	0.100	101	82 - 118	X433190 - X4H0064-01	16-Aug-24	
SM 4500 S D	Sulfide	mg/L	0.228	<0.050	0.200	114	75 - 125	X433097 - X4H0207-04	15-Aug-24	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0196	<0.0050	0.0200	97.9	75 - 125	X433193 - X4H0146-01	15-Aug-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	16.6	13.8	3.00	92.4	90 - 110	X433154 - X4H0233-03	14-Aug-24	
EPA 300.0	Chloride	mg/L	3.15	<0.20	3.00	105	90 - 110	X433154 - X4H0238-03	14-Aug-24	
EPA 300.0	Fluoride	mg/L	2.73	0.739	2.00	99.4	90 - 110	X433154 - X4H0233-03	14-Aug-24	
EPA 300.0	Fluoride	mg/L	2.06	<0.100	2.00	103	90 - 110	X433154 - X4H0238-03	14-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.14	0.078	2.00	103	90 - 110	X433154 - X4H0233-03	14-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.13	0.057	2.00	104	90 - 110	X433154 - X4H0238-03	14-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.20	<0.100	4.00	103	90 - 110	X433154 - X4H0233-03	14-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.19	<0.100	4.00	103	90 - 110	X433154 - X4H0238-03	14-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X433154 - X4H0233-03	14-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	103	90 - 110	X433154 - X4H0238-03	14-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	55.4	45.1	10.0	102	90 - 110	X433154 - X4H0233-03	14-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	<0.30	10.0	102	90 - 110	X433154 - X4H0238-03	14-Aug-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)										
EPA 1631E	Mercury	ng/L	3.18	2.81	2.50	12.3	24	113	X433208 - X4H0292-01	
EPA 1631E	Mercury	ng/L	3.20	3.10	2.50	3.0	24	104	X433208 - X4H0260-01	
EPA 245.1	Mercury	mg/L	0.00217	0.00210	0.00200	3.1	20	108	X434033 - X4H0202-03	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.14	1.12	1.00	1.7	20	93.4	X434069 - X4H0207-01	

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: **X4H0233**
Reported: 05-Sep-24 15:35

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 (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.7	Beryllium	mg/L	0.971	0.939	1.00	3.4	20	97.1	X434069 - X4H0207-01	
EPA 200.7	Boron	mg/L	1.00	0.979	1.00	2.4	20	98.6	X434069 - X4H0207-01	
EPA 200.7	Calcium	mg/L	62.3	60.8	20.0	2.0	20	103	X434069 - X4H0207-01	
EPA 200.7	Chromium	mg/L	0.950	0.928	1.00	2.4	20	95.0	X434069 - X4H0207-01	
EPA 200.7	Iron	mg/L	10.2	9.95	10.0	2.8	20	96.7	X434069 - X4H0207-01	
EPA 200.7	Magnesium	mg/L	39.3	38.6	20.0	1.6	20	99.9	X434069 - X4H0207-01	
EPA 200.7	Manganese	mg/L	1.00	0.974	1.00	2.8	20	93.2	X434069 - X4H0207-01	
EPA 200.7	Molybdenum	mg/L	0.964	0.942	1.00	2.3	20	96.4	X434069 - X4H0207-01	
EPA 200.7	Nickel	mg/L	0.907	0.889	1.00	2.0	20	90.0	X434069 - X4H0207-01	
EPA 200.7	Phosphorus	mg/L	1.05	1.03	1.00	2.3	20	99.8	X434069 - X4H0207-01	
EPA 200.7	Potassium	mg/L	20.7	20.2	20.0	2.6	20	97.2	X434069 - X4H0207-01	
EPA 200.7	Sodium	mg/L	21.8	21.2	19.0	2.7	20	98.0	X434069 - X4H0207-01	
EPA 200.7	Zinc	mg/L	0.971	0.943	1.00	2.9	20	94.4	X434069 - X4H0207-01	
EPA 200.8	Antimony	mg/L	0.0231	0.0224	0.0250	3.1	20	92.6	X434151 - X4H0233-01	
EPA 200.8	Arsenic	mg/L	0.0245	0.0240	0.0250	1.7	20	94.3	X434151 - X4H0233-01	
EPA 200.8	Cadmium	mg/L	0.0223	0.0216	0.0250	3.4	20	89.3	X434151 - X4H0233-01	
EPA 200.8	Chromium	mg/L	0.0238	0.0234	0.0250	1.7	20	94.1	X434151 - X4H0233-01	
EPA 200.8	Copper	mg/L	0.0241	0.0236	0.0250	1.9	20	93.0	X434151 - X4H0233-01	
EPA 200.8	Lead	mg/L	0.0247	0.0243	0.0250	1.6	20	95.1	X434151 - X4H0233-01	
EPA 200.8	Selenium	mg/L	0.0234	0.0224	0.0250	4.2	20	92.5	X434151 - X4H0233-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.974	1.12	1.00	13.6	20	97.4	X433215 - X4H0188-01	
EPA 200.7	Barium	mg/L	1.00	1.13	1.00	12.1	20	98.8	X433215 - X4H0188-01	
EPA 200.7	Beryllium	mg/L	0.999	1.12	1.00	11.7	20	99.9	X433215 - X4H0188-01	
EPA 200.7	Calcium	mg/L	87.7	99.9	20.0	13.0	20	111	X433215 - X4H0188-01	B7
EPA 200.7	Iron	mg/L	12.0	13.6	10.0	12.8	20	101	X433215 - X4H0188-01	
EPA 200.7	Magnesium	mg/L	46.8	52.8	20.0	12.0	20	104	X433215 - X4H0188-01	
EPA 200.7	Manganese	mg/L	1.17	1.31	1.00	11.5	20	98.3	X433215 - X4H0188-01	
EPA 200.7	Molybdenum	mg/L	0.997	1.06	1.00	5.7	20	99.7	X433215 - X4H0188-01	
EPA 200.7	Nickel	mg/L	0.978	1.03	1.00	5.1	20	97.8	X433215 - X4H0188-01	
EPA 200.7	Potassium	mg/L	31.4	34.9	20.0	10.5	20	103	X433215 - X4H0188-01	
EPA 200.7	Sodium	mg/L	68.3	76.2	19.0	11.0	20	105	X433215 - X4H0188-01	
EPA 200.7	Zinc	mg/L	1.02	1.07	1.00	5.3	20	101	X433215 - X4H0188-01	
EPA 200.8	Antimony	mg/L	0.0288	0.0294	0.0250	1.9	20	115	X434185 - X4H0260-01	
EPA 200.8	Arsenic	mg/L	0.0300	0.0303	0.0250	0.9	20	115	X434185 - X4H0260-01	
EPA 200.8	Cadmium	mg/L	0.0284	0.0282	0.0250	0.8	20	114	X434185 - X4H0260-01	
EPA 200.8	Chromium	mg/L	0.0271	0.0271	0.0250	0.2	20	109	X434185 - X4H0260-01	
EPA 200.8	Copper	mg/L	0.0272	0.0272	0.0250	0.2	20	106	X434185 - X4H0260-01	
EPA 200.8	Lead	mg/L	0.0283	0.0281	0.0250	0.6	20	113	X434185 - X4H0260-01	
EPA 200.8	Selenium	mg/L	0.0301	0.0296	0.0250	1.7	20	119	X434185 - X4H0260-01	
EPA 200.8	Silver	mg/L	0.0266	0.0266	0.0250	0.1	20	106	X434185 - X4H0260-01	
EPA 200.8	Thallium	mg/L	0.0271	0.0269	0.0250	0.8	20	108	X434185 - X4H0260-01	
EPA 200.8	Uranium	mg/L	0.0285	0.0284	0.0250	0.4	20	114	X434185 - X4H0260-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.112	0.107	0.100	4.6	11	112	X435204 - X4H0232-01	H1
EPA 335.4	Cyanide (total)	mg/L	0.101	0.104	0.100	2.8	20	101	X434007 - X4H0296-08	
EPA 350.1	Ammonia as N	mg/L	1.00	1.02	1.00	1.8	20	96.5	X433157 - X4H0207-01	
EPA 351.2	TKN	mg/L	7.17	8.25	8.00	14.0	20	89.6	X433149 - X4H0009-01	M2
EPA 351.2	TKN	mg/L	8.96	8.46	8.00	5.8	20	108	X433226 - X4H0233-02	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.103	0.100	2.0	11	99.0	X433190 - X4H0064-01	
SM 4500 S D	Sulfide	mg/L	0.215	0.228	0.200	5.9	20	108	X433097 - X4H0207-04	
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0204	0.0196	0.0200	4.3	20	102	X433193 - X4H0146-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0233**
Reported: 05-Sep-24 15:35

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	16.7	16.6	3.00	1.0	20	97.9	X433154 - X4H0233-03	
EPA 300.0	Fluoride	mg/L	2.75	2.73	2.00	0.9	20	101	X433154 - X4H0233-03	
EPA 300.0	Nitrate as N	mg/L	2.16	2.14	2.00	1.2	20	104	X433154 - X4H0233-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.27	4.20	4.00	1.6	20	105	X433154 - X4H0233-03	
EPA 300.0	Nitrite as N	mg/L	2.11	2.06	2.00	2.1	20	105	X433154 - X4H0233-03	
EPA 300.0	Sulfate as SO4	mg/L	55.0	55.4	10.0	0.6	20	98.7	X433154 - X4H0233-03	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0233**
Victor, CO 80860	Reported: 05-Sep-24 15:35

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.
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.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
U	Indicates the analyte was analyzed for but was not detected, result was less than the MDL.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0376**
Victor, CO 80860	Reported: 09-Sep-24 09:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-8 A	X4H0376-01	Ground Water	20-Aug-24 10:15	TR	21-Aug-2024	
GVMW-8 B	X4H0376-02	Ground Water	20-Aug-24 14:30	TR	21-Aug-2024	
GVMW-15 A	X4H0376-03	Ground Water	20-Aug-24 12:19	TR	21-Aug-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: X4H0376

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
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0376**
Reported: 09-Sep-24 09:11

Client Sample ID: **GVMW-8 A**
SVL Sample ID: **X4H0376-01 (Ground Water)**

Sampled: 20-Aug-24 10:15
Received: 21-Aug-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**	49.6	mg/L	0.100	0.069		X435012	SJN	08/28/24 15:50	
EPA 200.7	**Magnesium**	6.33	mg/L	0.500	0.090		X435012	SJN	08/28/24 15:50	
EPA 200.7	**Potassium**	0.83	mg/L	0.50	0.18		X435012	SJN	08/28/24 15:50	
SM 2340 B	**Hardness (as CaCO3)**	150	mg/L	2.31	0.543		N/A		09/04/24 22:01	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X435022	SJN	09/04/24 22:01	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X435022	SJN	09/04/24 22:59	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X435022	SJN	09/04/24 22:01	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X435022	SJN	09/04/24 22:01	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X435022	SJN	09/04/24 22:01	
EPA 200.7	**Calcium**	51.6	mg/L	0.100	0.069		X435022	SJN	09/04/24 22:01	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X435022	SJN	09/04/24 22:01	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X435022	SJN	09/04/24 22:01	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X435022	SJN	09/04/24 22:01	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X435022	SJN	09/04/24 22:01	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X435022	SJN	09/04/24 22:59	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X435022	SJN	09/04/24 22:01	
EPA 200.7	**Magnesium**	6.26	mg/L	0.500	0.090		X435022	SJN	09/04/24 22:01	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:01	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:01	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X435022	SJN	09/04/24 22:01	
EPA 200.7	**Potassium**	0.78	mg/L	0.50	0.18		X435022	SJN	09/04/24 22:01	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:01	
EPA 200.7	**Sodium**	24.9	mg/L	0.50	0.12		X435022	SJN	09/04/24 22:01	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:01	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X435022	SJN	09/04/24 22:01	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X435071	SMU	09/04/24 21:33	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X435071	SMU	09/04/24 21:33	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X435071	SMU	09/04/24 21:33	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X435071	SMU	09/04/24 21:33	
EPA 200.8	**Uranium**	0.00508	mg/L	0.000100	0.000052		X435071	SMU	09/04/24 21:33	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X434037	MAC	08/27/24 17:11	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435205	DD	09/04/24 14:36	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X434282	DD	08/27/24 13:42	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X435119	DD	08/29/24 13:06	B10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X436133	DD	09/06/24 11:47	H1
SM 2310 B	**Acidity to pH 8.3**	-58.7	mg/L as CaCO3	10.0			X435133	MWD	08/30/24 12:05	
SM 2320 B	**Total Alkalinity**	50.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:31	
SM 2320 B	**Bicarbonate**	50.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:31	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:31	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:31	
SM 2540 C	**Total Diss. Solids**	302	mg/L	10			X434204	TJL	08/23/24 12:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X434205	TJL	08/23/24 11:30	
SM 4500 H B	**pH @21.5°C**	7.1	pH Units				X435004	MWD	08/26/24 17:31	H5

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0376**
Reported: 09-Sep-24 09:11

Client Sample ID: **GVMW-8 A**
SVL Sample ID: **X4H0376-01 (Ground Water)**

Sampled: 20-Aug-24 10:15
Received: 21-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	62.9	mg/L	2.00	0.22	10	X434175	RS	08/21/24 15:55	
EPA 300.0	**Fluoride**	1.90	mg/L	0.100	0.017		X434175	RS	08/21/24 15:39	
EPA 300.0	**Nitrate as N**	1.30	mg/L	0.050	0.013		X434175	RS	08/21/24 15:39	
EPA 300.0	**Nitrate+Nitrite as N**	1.30	mg/L	0.100	0.044		X434175	RS	08/21/24 15:39	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X434175	RS	08/21/24 15:39	
EPA 300.0	**Sulfate as SO4**	63.5	mg/L	3.00	1.80	10	X434175	RS	08/21/24 15:55	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 4.11 meq/L Anion Sum: 4.29 meq/L C/A Balance: -2.17 % Calculated TDS: 247 TDS/cTDS: 1.22

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

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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: **X4H0376**
Reported: 09-Sep-24 09:11

Client Sample ID: **GVMW-8 B**
SVL Sample ID: **X4H0376-02 (Ground Water)**

Sampled: 20-Aug-24 14:30
Received: 21-Aug-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**	45.9	mg/L	0.100	0.069		X435012	SJN	08/28/24 15:54	
EPA 200.7	**Magnesium**	7.23	mg/L	0.500	0.090		X435012	SJN	08/28/24 15:54	
EPA 200.7	**Potassium**	1.27	mg/L	0.50	0.18		X435012	SJN	08/28/24 15:54	
SM 2340 B	**Hardness (as CaCO3)**	144	mg/L	2.31	0.543		N/A		09/04/24 22:05	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X435022	SJN	09/04/24 22:05	
EPA 200.7	**Barium**	0.0055	mg/L	0.0020	0.0019		X435022	SJN	09/04/24 23:02	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X435022	SJN	09/04/24 22:05	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X435022	SJN	09/04/24 22:05	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X435022	SJN	09/04/24 22:05	
EPA 200.7	**Calcium**	47.7	mg/L	0.100	0.069		X435022	SJN	09/04/24 22:05	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X435022	SJN	09/04/24 22:05	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X435022	SJN	09/04/24 22:05	
EPA 200.7	**Copper**	0.0214	mg/L	0.0100	0.0027		X435022	SJN	09/04/24 22:05	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X435022	SJN	09/04/24 22:05	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X435022	SJN	09/04/24 23:02	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X435022	SJN	09/04/24 22:05	
EPA 200.7	**Magnesium**	7.05	mg/L	0.500	0.090		X435022	SJN	09/04/24 22:05	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:05	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:05	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X435022	SJN	09/04/24 22:05	
EPA 200.7	**Potassium**	1.50	mg/L	0.50	0.18		X435022	SJN	09/04/24 22:05	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:05	
EPA 200.7	**Sodium**	25.4	mg/L	0.50	0.12		X435022	SJN	09/04/24 22:05	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:05	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X435022	SJN	09/04/24 22:05	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X435071	SMU	09/04/24 21:49	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X435071	SMU	09/04/24 21:49	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X435071	SMU	09/04/24 21:49	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X435071	SMU	09/04/24 21:49	
EPA 200.8	**Uranium**	0.00267	mg/L	0.000100	0.000052		X435071	SMU	09/04/24 21:49	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X434037	MAC	08/27/24 17:13	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435205	DD	09/04/24 14:38	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X434282	DD	08/27/24 13:45	
EPA 350.1	**Ammonia as N**	0.035	mg/L	0.030	0.013		X435119	DD	08/29/24 13:08	B10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X436133	DD	09/06/24 11:49	H1
SM 2310 B	**Acidity to pH 8.3**	-43.8	mg/L as CaCO3	10.0			X435133	MWD	08/30/24 12:05	
SM 2320 B	**Total Alkalinity**	38.6	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:36	
SM 2320 B	**Bicarbonate**	38.6	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:36	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:36	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:36	
SM 2540 C	**Total Diss. Solids**	300	mg/L	10			X434204	TJL	08/23/24 12:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X434205	TJL	08/23/24 11:30	
SM 4500 H B	**pH @21.5°C**	7.0	pH Units				X435004	MWD	08/26/24 17:36	H5

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0376**
Reported: 09-Sep-24 09:11

Client Sample ID: **GVMW-8 B**
SVL Sample ID: **X4H0376-02 (Ground Water)**

Sampled: 20-Aug-24 14:30
Received: 21-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	42.2	mg/L	2.00	0.22	10	X434175	RS	08/21/24 16:27	
EPA 300.0	**Fluoride**	2.14	mg/L	0.100	0.017		X434175	RS	08/21/24 16:11	
EPA 300.0	**Nitrate as N**	2.23	mg/L	0.050	0.013		X434175	RS	08/21/24 16:11	
EPA 300.0	**Nitrate+Nitrite as N**	2.23	mg/L	0.100	0.044		X434175	RS	08/21/24 16:11	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X434175	RS	08/21/24 16:11	
EPA 300.0	**Sulfate as SO4**	93.7	mg/L	3.00	1.80	10	X434175	RS	08/21/24 16:27	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 4.02 meq/L Anion Sum: 4.18 meq/L C/A Balance: -1.97 % Calculated TDS: 252 TDS/cTDS: 1.19

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0376**
Reported: 09-Sep-24 09:11

Client Sample ID: **GVMW-15 A**
SVL Sample ID: **X4H0376-03 (Ground Water)**

Sampled: 20-Aug-24 12:19
Received: 21-Aug-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**	19.4	mg/L	0.100	0.069		X435012	SJN	08/28/24 15:58	
EPA 200.7	**Magnesium**	17.7	mg/L	0.500	0.090		X435012	SJN	08/28/24 15:58	
EPA 200.7	**Potassium**	1.78	mg/L	0.50	0.18		X435012	SJN	08/28/24 15:58	
SM 2340 B	**Hardness (as CaCO3)**	122	mg/L	2.31	0.543		N/A		09/04/24 22:09	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X435022	SJN	09/04/24 22:09	
EPA 200.7	**Barium**	0.0544	mg/L	0.0020	0.0019		X435022	SJN	09/04/24 23:06	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X435022	SJN	09/04/24 22:09	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X435022	SJN	09/04/24 22:09	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X435022	SJN	09/04/24 22:09	
EPA 200.7	**Calcium**	19.7	mg/L	0.100	0.069		X435022	SJN	09/04/24 22:09	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X435022	SJN	09/04/24 22:09	
EPA 200.7	**Cobalt**	0.0296	mg/L	0.0060	0.0046		X435022	SJN	09/04/24 22:09	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X435022	SJN	09/04/24 22:09	
EPA 200.7	**Iron**	33.0	mg/L	0.100	0.056		X435022	SJN	09/04/24 22:09	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X435022	SJN	09/04/24 23:06	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X435022	SJN	09/04/24 22:09	
EPA 200.7	**Magnesium**	17.6	mg/L	0.500	0.090		X435022	SJN	09/04/24 22:09	
EPA 200.7	**Manganese**	1.91	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:09	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:09	
EPA 200.7	**Nickel**	0.0430	mg/L	0.0100	0.0048		X435022	SJN	09/04/24 22:09	
EPA 200.7	**Potassium**	1.76	mg/L	0.50	0.18		X435022	SJN	09/04/24 22:09	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:09	
EPA 200.7	**Sodium**	13.9	mg/L	0.50	0.12		X435022	SJN	09/04/24 22:09	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:09	
EPA 200.7	**Zinc**	0.290	mg/L	0.0100	0.0054		X435022	SJN	09/04/24 22:09	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X435071	SMU	09/04/24 21:52	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X435071	SMU	09/04/24 21:52	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X435071	SMU	09/04/24 21:52	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X435071	SMU	09/04/24 21:52	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X435071	SMU	09/04/24 21:52	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X434037	MAC	08/27/24 17:15	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435205	DD	09/04/24 14:46	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X434282	DD	08/27/24 13:47	
EPA 350.1	**Ammonia as N**	0.034	mg/L	0.030	0.013		X435119	DD	08/29/24 13:10	B10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X436133	DD	09/06/24 11:50	H1
SM 2310 B	**Acidity to pH 8.3**	30.9	mg/L as CaCO3	10.0			X435133	MWD	08/30/24 12:05	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:41	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:41	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:41	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:41	
SM 2540 C	**Total Diss. Solids**	299	mg/L	10			X434204	TJL	08/23/24 12:20	
SM 2540 D	**Total Susp. Solids**	28.0	mg/L	5.0			X434205	TJL	08/23/24 11:30	
SM 4500 H B	**pH @21.5°C**	4.8	pH Units				X435004	MWD	08/26/24 17:41	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: **X4H0376**
Reported: 09-Sep-24 09:11

Client Sample ID: **GVMW-15 A**
SVL Sample ID: **X4H0376-03 (Ground Water)**

Sampled: 20-Aug-24 12:19
Received: 21-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.41	mg/L	0.20	0.02		X434175	RS	08/21/24 17:14	
EPA 300.0	**Fluoride**	0.297	mg/L	0.100	0.017		X434175	RS	08/21/24 17:14	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X434175	RS	08/21/24 17:14	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X434175	RS	08/21/24 17:14	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X434175	RS	08/21/24 17:14	
EPA 300.0	**Sulfate as SO4**	181	mg/L	3.00	1.80	10	X434175	RS	08/21/24 17:30	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 3.68 meq/L Anion Sum: 3.85 meq/L C/A Balance: -2.16 % Calculated TDS: 236 TDS/cTDS: 1.27

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0376**
Reported: 09-Sep-24 09:11

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	X435012	28-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X435012	28-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X435012	28-Aug-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X435022	04-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X435022	04-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X435022	04-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X435022	04-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X435022	04-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X435022	04-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X435022	04-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X435022	04-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X435022	04-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X435022	04-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X435022	04-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X435022	04-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X435022	04-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X435022	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X435022	04-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X435022	04-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X435022	04-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X435022	04-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X435022	04-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X435022	04-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X435022	04-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X435071	04-Sep-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X435071	04-Sep-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X435071	04-Sep-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X435071	04-Sep-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X435071	04-Sep-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X434037	27-Aug-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X435205	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X434282	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X435119	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X435133	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X434204	23-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X434205	23-Aug-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X434175	21-Aug-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X434175	21-Aug-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X434175	21-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X434175	21-Aug-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X434175	21-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X434175	21-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0376**
Reported: 09-Sep-24 09:11

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.3	20.0	96	85 - 115	X435012	28-Aug-24	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.7	85 - 115	X435012	28-Aug-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X435012	28-Aug-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.985	1.00	98.5	85 - 115	X435022	04-Sep-24	
EPA 200.7	Barium	mg/L	0.983	1.00	98.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Beryllium	mg/L	0.987	1.00	98.7	85 - 115	X435022	04-Sep-24	
EPA 200.7	Boron	mg/L	0.980	1.00	98.0	85 - 115	X435022	04-Sep-24	
EPA 200.7	Cadmium	mg/L	0.982	1.00	98.2	85 - 115	X435022	04-Sep-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	98.1	85 - 115	X435022	04-Sep-24	
EPA 200.7	Chromium	mg/L	0.984	1.00	98.4	85 - 115	X435022	04-Sep-24	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X435022	04-Sep-24	
EPA 200.7	Copper	mg/L	0.969	1.00	96.9	85 - 115	X435022	04-Sep-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X435022	04-Sep-24	
EPA 200.7	Lead	mg/L	0.976	1.00	97.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Lithium	mg/L	0.966	1.00	96.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.7	85 - 115	X435022	04-Sep-24	
EPA 200.7	Manganese	mg/L	0.983	1.00	98.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.996	1.00	99.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Nickel	mg/L	0.964	1.00	96.4	85 - 115	X435022	04-Sep-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	101	85 - 115	X435022	04-Sep-24	
EPA 200.7	Silver	mg/L	0.0499	0.0500	99.8	85 - 115	X435022	04-Sep-24	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Vanadium	mg/L	0.981	1.00	98.1	85 - 115	X435022	04-Sep-24	
EPA 200.7	Zinc	mg/L	0.964	1.00	96.4	85 - 115	X435022	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0245	0.0250	97.9	85 - 115	X435071	05-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0269	0.0250	108	85 - 115	X435071	05-Sep-24	
EPA 200.8	Selenium	mg/L	0.0264	0.0250	106	85 - 115	X435071	05-Sep-24	
EPA 200.8	Thallium	mg/L	0.0257	0.0250	103	85 - 115	X435071	05-Sep-24	
EPA 200.8	Uranium	mg/L	0.0265	0.0250	106	85 - 115	X435071	05-Sep-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00214	0.00200	107	85 - 115	X434037	27-Aug-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	0.100	107	90 - 110	X435205	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.100	104	90 - 110	X434282	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X435119	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	867	884	98.1	95.4 - 104	X435133	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X435004	26-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	103	99.3	103	96.4 - 105	X435004	26-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X434205	23-Aug-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.8	90 - 110	X434175	21-Aug-24	
EPA 300.0	Fluoride	mg/L	2.01	2.00	101	90 - 110	X434175	21-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X434175	21-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.53	4.50	101	90 - 110	X434175	21-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.6	90 - 110	X434175	21-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X434175	21-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0376**
Reported: 09-Sep-24 09:11

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	X435133 - X4H0376-01	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	50.2	50.0	0.4	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	50.2	50.0	0.4	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X435004 - X4H0376-01	26-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	290	300	3.4	10	X434204 - X4H0376-02	23-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	311	299	3.9	10	X434204 - X4H0376-03	23-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	30.0	28.0	6.9	10	X434205 - X4H0376-03	23-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X434205 - X4H0376-02	23-Aug-24	
SM 4500 H B	pH @21.5°C	pH Units	7.1	7.1	0.4	20	X435004 - X4H0376-01	26-Aug-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	69.1	49.6	20.0	97	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Calcium	mg/L	86.4	64.2	20.0	111	70 - 130	X435012 - X4H0442-01	28-Aug-24	
EPA 200.7	Magnesium	mg/L	26.4	6.33	20.0	100	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Magnesium	mg/L	23.6	2.61	20.0	105	70 - 130	X435012 - X4H0442-01	28-Aug-24	
EPA 200.7	Potassium	mg/L	20.9	0.83	20.0	100	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Potassium	mg/L	25.7	4.64	20.0	105	70 - 130	X435012 - X4H0442-01	28-Aug-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.987	<0.080	1.00	98.7	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Barium	mg/L	0.971	<0.0020	1.00	97.1	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Beryllium	mg/L	0.964	<0.00200	1.00	96.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	99.0	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Cadmium	mg/L	0.973	<0.0020	1.00	97.3	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Calcium	mg/L	70.4	51.6	20.0	93.8	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Chromium	mg/L	0.986	<0.0060	1.00	98.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Cobalt	mg/L	0.942	<0.0060	1.00	94.2	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Copper	mg/L	0.970	<0.0100	1.00	96.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Lead	mg/L	0.946	<0.0075	1.00	94.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Lithium	mg/L	0.964	<0.040	1.00	96.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Magnesium	mg/L	25.6	6.26	20.0	96.9	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Manganese	mg/L	0.978	<0.0080	1.00	97.2	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.983	<0.0080	1.00	98.3	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Nickel	mg/L	0.929	<0.0100	1.00	92.9	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Potassium	mg/L	21.3	0.78	20.0	103	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Silver	mg/L	0.0504	<0.0050	0.0500	101	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Sodium	mg/L	43.0	24.9	19.0	95.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Vanadium	mg/L	0.986	<0.0050	1.00	98.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Zinc	mg/L	0.977	<0.0100	1.00	97.7	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0267	<0.00100	0.0250	107	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0308	0.00295	0.0250	111	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0270	<0.00100	0.0250	108	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Selenium	mg/L	0.0273	<0.00100	0.0250	107	70 - 130	X435071 - X4H0362-01	04-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0376**
Reported: 09-Sep-24 09:11

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Selenium	mg/L	0.0294	<0.00100	0.0250	116	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Thallium	mg/L	0.0304	0.000361	0.0250	120	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Thallium	mg/L	0.0263	<0.000200	0.0250	105	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Uranium	mg/L	0.0358	0.00385	0.0250	128	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Uranium	mg/L	0.0330	0.00511	0.0250	112	70 - 130	X435071 - X4H0377-01	04-Sep-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00218	<0.000200	0.00200	109	70 - 130	X434037 - X4H0241-01	27-Aug-24	
EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	109	70 - 130	X434037 - X4H0376-01	27-Aug-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0940	<0.0050	0.100	94.0	79 - 121	X435205 - X4H0346-01	04-Sep-24	H1,R4
EPA 335.4	Cyanide (total)	mg/L	0.108	<0.0050	0.100	108	90 - 110	X434282 - X4H0346-01	27-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.106	<0.0050	0.100	106	90 - 110	X434282 - X4H0346-02	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	105	90 - 110	X435119 - X4H0346-01	29-Aug-24	B10
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X435119 - X4H0346-02	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.117	0.0070	0.100	110	82 - 118	X436133 - X4H0346-01	06-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.45	0.45	3.00	99.8	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Chloride	mg/L	3.37	0.37	3.00	99.8	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Fluoride	mg/L	1.99	<0.100	2.00	98.6	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Fluoride	mg/L	2.36	0.345	2.00	101	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.05	<0.050	2.00	101	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.08	<0.050	2.00	102	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	<0.100	4.00	101	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.10	<0.100	4.00	101	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.5	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.8	0.68	10.0	101	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	12.7	2.51	10.0	102	90 - 110	X434175 - X4H0389-01	21-Aug-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	68.8	69.1	20.0	0.5	20	96	X435012 - X4H0376-01	
EPA 200.7	Magnesium	mg/L	26.6	26.4	20.0	0.7	20	101	X435012 - X4H0376-01	
EPA 200.7	Potassium	mg/L	20.9	20.9	20.0	0.1	20	100	X435012 - X4H0376-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.984	0.987	1.00	0.3	20	98.4	X435022 - X4H0376-01	
EPA 200.7	Barium	mg/L	0.960	0.971	1.00	1.1	20	96.0	X435022 - X4H0376-01	
EPA 200.7	Beryllium	mg/L	0.982	0.964	1.00	1.8	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Boron	mg/L	1.00	1.01	1.00	0.3	20	98.6	X435022 - X4H0376-01	
EPA 200.7	Cadmium	mg/L	0.968	0.973	1.00	0.6	20	96.8	X435022 - X4H0376-01	
EPA 200.7	Calcium	mg/L	71.4	70.4	20.0	1.4	20	98.6	X435022 - X4H0376-01	
EPA 200.7	Chromium	mg/L	0.980	0.986	1.00	0.6	20	98.0	X435022 - X4H0376-01	
EPA 200.7	Cobalt	mg/L	0.938	0.942	1.00	0.4	20	93.8	X435022 - X4H0376-01	
EPA 200.7	Copper	mg/L	0.962	0.970	1.00	0.7	20	95.9	X435022 - X4H0376-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0376**
Reported: 09-Sep-24 09:11

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Iron	mg/L	10.3	10.2	10.0	0.7	20	103	X435022 - X4H0376-01	
EPA 200.7	Lead	mg/L	0.926	0.946	1.00	2.1	20	92.6	X435022 - X4H0376-01	
EPA 200.7	Lithium	mg/L	0.972	0.964	1.00	0.8	20	97.2	X435022 - X4H0376-01	
EPA 200.7	Magnesium	mg/L	25.6	25.6	20.0	0.2	20	96.6	X435022 - X4H0376-01	
EPA 200.7	Manganese	mg/L	0.972	0.978	1.00	0.6	20	96.6	X435022 - X4H0376-01	
EPA 200.7	Molybdenum	mg/L	0.982	0.983	1.00	0.1	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Nickel	mg/L	0.925	0.929	1.00	0.5	20	92.5	X435022 - X4H0376-01	
EPA 200.7	Potassium	mg/L	21.7	21.3	20.0	1.9	20	105	X435022 - X4H0376-01	
EPA 200.7	Silver	mg/L	0.0501	0.0504	0.0500	0.6	20	100	X435022 - X4H0376-01	
EPA 200.7	Sodium	mg/L	43.5	43.0	19.0	1.2	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Vanadium	mg/L	0.979	0.986	1.00	0.8	20	97.9	X435022 - X4H0376-01	
EPA 200.7	Zinc	mg/L	0.968	0.977	1.00	0.9	20	96.8	X435022 - X4H0376-01	
EPA 200.8	Antimony	mg/L	0.0261	0.0259	0.0250	0.8	20	104	X435071 - X4H0362-01	
EPA 200.8	Arsenic	mg/L	0.0316	0.0308	0.0250	2.7	20	115	X435071 - X4H0362-01	
EPA 200.8	Selenium	mg/L	0.0276	0.0273	0.0250	1.2	20	108	X435071 - X4H0362-01	
EPA 200.8	Thallium	mg/L	0.0305	0.0304	0.0250	0.5	20	121	X435071 - X4H0362-01	
EPA 200.8	Uranium	mg/L	0.0364	0.0358	0.0250	1.7	20	130	X435071 - X4H0362-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00217	0.00218	0.00200	0.1	20	109	X434037 - X4H0241-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0830	0.0940	0.100	12.4	11	83.0	X435205 - X4H0346-01	H1,R4
EPA 335.4	Cyanide (total)	mg/L	0.106	0.108	0.100	1.8	20	106	X434282 - X4H0346-01	
EPA 350.1	Ammonia as N	mg/L	1.06	1.07	1.00	0.2	20	104	X435119 - X4H0346-01	B10
OIA 1677	Cyanide (WAD)	mg/L	0.118	0.117	0.100	0.9	11	111	X436133 - X4H0346-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.50	3.45	3.00	1.5	20	102	X434175 - X4H0382-01	
EPA 300.0	Fluoride	mg/L	2.03	1.99	2.00	1.9	20	100	X434175 - X4H0382-01	
EPA 300.0	Nitrate as N	mg/L	2.09	2.05	2.00	1.6	20	102	X434175 - X4H0382-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.10	4.04	4.00	1.4	20	102	X434175 - X4H0382-01	
EPA 300.0	Nitrite as N	mg/L	2.01	1.99	2.00	1.2	20	101	X434175 - X4H0382-01	
EPA 300.0	Sulfate as SO4	mg/L	10.8	10.8	10.0	0.8	20	102	X434175 - X4H0382-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0376**
Victor, CO 80860	Reported: 09-Sep-24 09:11

Notes and Definitions

B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0516**
Victor, CO 80860	Reported: 13-Sep-24 13:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-25	X4H0516-01	Ground Water	28-Aug-24 14:25	TR	29-Aug-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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Case Narrative: X4H0516

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: **X4H0516**
Reported: 13-Sep-24 13:33

Client Sample ID: **GVMW-25**
SVL Sample ID: **X4H0516-01 (Ground Water)**

Sampled: 28-Aug-24 14:25
Received: 29-Aug-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**	549	mg/L	1.00	0.690	10	X437031	SJN	09/10/24 14:01	
EPA 200.7	**Magnesium**	355	mg/L	0.500	0.090		X437031	SJN	09/10/24 12:48	
EPA 200.7	**Potassium**	7.11	mg/L	0.50	0.18		X437031	SJN	09/10/24 12:48	
SM 2340 B	**Hardness (as CaCO3)**	2830	mg/L	4.56	2.09		N/A		09/09/24 11:37	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	856	mg/L	0.080	0.054		X436095	SJN	09/09/24 16:46	M3
EPA 200.7	**Barium**	0.0078	mg/L	0.0020	0.0019		X436095	SJN	09/09/24 11:37	
EPA 200.7	**Beryllium**	0.515	mg/L	0.00200	0.00080		X436095	SJN	09/09/24 11:37	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X436095	SJN	09/09/24 11:37	
EPA 200.7	**Cadmium**	1.64	mg/L	0.0020	0.0016		X436095	SJN	09/09/24 11:37	
EPA 200.7	**Calcium**	538	mg/L	0.100	0.069		X436095	SJN	09/09/24 11:37	M3
EPA 200.7	**Chromium**	0.148	mg/L	0.0060	0.0020		X436095	SJN	09/09/24 11:37	
EPA 200.7	**Cobalt**	1.75	mg/L	0.0060	0.0046		X436095	SJN	09/09/24 11:37	
EPA 200.7	**Copper**	3.07	mg/L	0.0100	0.0027		X436095	SJN	09/09/24 11:37	
EPA 200.7	**Iron**	3.77	mg/L	0.100	0.056		X436095	SJN	09/09/24 11:37	
EPA 200.7	**Lead**	0.0254	mg/L	0.0075	0.0049		X436095	SJN	09/09/24 11:37	
EPA 200.7	**Lithium**	0.218	mg/L	0.040	0.025		X436095	SJN	09/09/24 11:37	
EPA 200.7	**Magnesium**	350	mg/L	0.500	0.090		X436095	SJN	09/09/24 11:37	M3
EPA 200.7	**Manganese**	229	mg/L	0.0800	0.0340	10	X436095	SJN	09/09/24 15:09	M4
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X436095	SJN	09/09/24 11:37	
EPA 200.7	**Nickel**	2.37	mg/L	0.0100	0.0048		X436095	SJN	09/09/24 11:37	
EPA 200.7	**Potassium**	6.93	mg/L	0.50	0.18		X436095	SJN	09/09/24 11:37	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X436095	SJN	09/09/24 11:37	M2
EPA 200.7	**Sodium**	40.3	mg/L	0.50	0.12		X436095	SJN	09/09/24 11:37	
EPA 200.7	**Vanadium**	0.0092	mg/L	0.0050	0.0019		X436095	SJN	09/09/24 11:37	
EPA 200.7	**Zinc**	58.9	mg/L	0.100	0.0540	10	X436095	SJN	09/09/24 15:09	M4
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X436125	SMU	09/11/24 11:58	
EPA 200.8	**Arsenic**	0.236	mg/L	0.00100	0.00021		X436125	SMU	09/11/24 11:58	
EPA 200.8	**Selenium**	0.0159	mg/L	0.00100	0.00024		X436125	SMU	09/11/24 11:58	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X436125	SMU	09/11/24 11:58	
EPA 200.8	**Uranium**	3.06	mg/L	0.0100	0.00520	100	X436125	SMU	09/11/24 12:52	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X435030	MAC	09/05/24 17:52	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435206	DD	09/05/24 11:23	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X436044	DD	09/05/24 09:27	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X436065	DD	09/11/24 18:11	B10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X436133	DD	09/06/24 12:01	
SM 2310 B	**Acidity to pH 8.3**	5610	mg/L as CaCO3	10.0			X435134	MWD	08/30/24 12:02	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X435179	MWD	08/29/24 15:09	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X435179	MWD	08/29/24 15:09	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X435179	MWD	08/29/24 15:09	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X435179	MWD	08/29/24 15:09	
SM 2540 C	**Total Diss. Solids**	11400	mg/L	100			X435185	TJL	09/03/24 12:45	
SM 2540 D	**Total Susp. Solids**	11.0	mg/L	5.0			X435186	TJL	09/03/24 12:20	
SM 4500 H B	**pH @19.1°C**	3.6	pH Units				X435179	MWD	08/29/24 15:09	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: **X4H0516**
Reported: 13-Sep-24 13:33

Client Sample ID: **GVMW-25**
SVL Sample ID: **X4H0516-01 (Ground Water)**

Sampled: 28-Aug-24 14:25
Received: 29-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	22.8	mg/L	2.00	0.22	10	X435177	RS	08/29/24 14:36	
EPA 300.0	**Fluoride**	76.5	mg/L	25.0	4.25	250	X435177	RS	08/30/24 10:58	
EPA 300.0	**Nitrate as N**	2.50	mg/L	0.500	0.130	10	X435177	RS	08/29/24 14:36	D18
EPA 300.0	**Nitrate+Nitrite as N**	2.50	mg/L	1.00	0.440	10	X435177	RS	08/29/24 14:36	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X435177	RS	08/29/24 14:36	D18
EPA 300.0	**Sulfate as SO4**	8660	mg/L	75.0	45.0	250	X435177	RS	08/29/24 14:52	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 170 meq/L Anion Sum: 185 meq/L C/A Balance: -4.33 % Calculated TDS: 9714 TDS/cTDS: 1.17

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0516**
Reported: 13-Sep-24 13:33

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X437031	10-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X437031	10-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X437031	10-Sep-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X436095	09-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X436095	09-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X436095	09-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X436095	09-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X436095	09-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X436095	09-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X436095	09-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X436095	09-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X436095	09-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X436095	09-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X436095	09-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X436095	09-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X436095	09-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X436095	09-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X436095	09-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X436095	09-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X436095	09-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X436095	09-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X436095	09-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X436095	09-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X436095	09-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X436125	11-Sep-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X436125	11-Sep-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X436125	11-Sep-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X436125	11-Sep-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X436125	11-Sep-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X435030	05-Sep-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X435206	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X436044	05-Sep-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X436065	11-Sep-24	B10
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X435134	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X435179	29-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X435179	29-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X435179	29-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X435179	29-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X435185	03-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X435186	03-Sep-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X435177	29-Aug-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X435177	29-Aug-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X435177	29-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X435177	29-Aug-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X435177	29-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X435177	29-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0516**
Reported: 13-Sep-24 13:33

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.0	20.0	95	85 - 115	X437031	10-Sep-24	
EPA 200.7	Magnesium	mg/L	19.0	20.0	95.2	85 - 115	X437031	10-Sep-24	
EPA 200.7	Potassium	mg/L	19.5	20.0	97.4	85 - 115	X437031	10-Sep-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.981	1.00	98.1	85 - 115	X436095	09-Sep-24	
EPA 200.7	Barium	mg/L	0.994	1.00	99.4	85 - 115	X436095	09-Sep-24	
EPA 200.7	Beryllium	mg/L	0.999	1.00	99.9	85 - 115	X436095	09-Sep-24	
EPA 200.7	Boron	mg/L	1.00	1.00	100	85 - 115	X436095	09-Sep-24	
EPA 200.7	Cadmium	mg/L	0.994	1.00	99.4	85 - 115	X436095	09-Sep-24	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.7	85 - 115	X436095	09-Sep-24	
EPA 200.7	Chromium	mg/L	1.01	1.00	101	85 - 115	X436095	09-Sep-24	
EPA 200.7	Cobalt	mg/L	0.991	1.00	99.1	85 - 115	X436095	09-Sep-24	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X436095	09-Sep-24	
EPA 200.7	Iron	mg/L	9.88	10.0	98.8	85 - 115	X436095	09-Sep-24	
EPA 200.7	Lead	mg/L	0.985	1.00	98.5	85 - 115	X436095	09-Sep-24	
EPA 200.7	Lithium	mg/L	0.980	1.00	98.0	85 - 115	X436095	09-Sep-24	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.6	85 - 115	X436095	09-Sep-24	
EPA 200.7	Manganese	mg/L	0.948	1.00	94.8	85 - 115	X436095	09-Sep-24	
EPA 200.7	Molybdenum	mg/L	1.00	1.00	100	85 - 115	X436095	09-Sep-24	
EPA 200.7	Nickel	mg/L	1.00	1.00	100	85 - 115	X436095	09-Sep-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	97.9	85 - 115	X436095	09-Sep-24	
EPA 200.7	Silver	mg/L	0.0450	0.0500	90.0	85 - 115	X436095	09-Sep-24	
EPA 200.7	Sodium	mg/L	18.6	19.0	97.8	85 - 115	X436095	09-Sep-24	
EPA 200.7	Vanadium	mg/L	1.02	1.00	102	85 - 115	X436095	09-Sep-24	
EPA 200.7	Zinc	mg/L	0.989	1.00	98.9	85 - 115	X436095	09-Sep-24	
EPA 200.8	Antimony	mg/L	0.0257	0.0250	103	85 - 115	X436125	11-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0267	0.0250	107	85 - 115	X436125	11-Sep-24	
EPA 200.8	Selenium	mg/L	0.0272	0.0250	109	85 - 115	X436125	11-Sep-24	
EPA 200.8	Thallium	mg/L	0.0258	0.0250	103	85 - 115	X436125	11-Sep-24	
EPA 200.8	Uranium	mg/L	0.0269	0.0250	107	85 - 115	X436125	11-Sep-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00188	0.00200	94.2	85 - 115	X435030	05-Sep-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0950	0.100	95.0	90 - 110	X435206	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X436044	05-Sep-24	
EPA 350.1	Ammonia as N	mg/L	0.966	1.00	96.6	90 - 110	X436065	11-Sep-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	101	95.4 - 104	X435134	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X435179	29-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	103	96.4 - 105	X435179	29-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	407	397	103	96.4 - 105	X435179	29-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X435186	03-Sep-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.01	3.00	100	90 - 110	X435177	29-Aug-24	
EPA 300.0	Fluoride	mg/L	1.96	2.00	97.8	90 - 110	X435177	29-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X435177	29-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.54	4.50	101	90 - 110	X435177	29-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	100	90 - 110	X435177	29-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X435177	29-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0516**
Reported: 13-Sep-24 13:33

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X435134 - X4H0384-01	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	282	284	0.7	20	X435179 - X4H0490-02	29-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	282	284	0.7	20	X435179 - X4H0490-02	29-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X435179 - X4H0490-02	29-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X435179 - X4H0490-02	29-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	284	294	3.5	10	X435185 - X4H0517-07	03-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	317	301	5.2	10	X435185 - X4H0517-06	03-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	11.0	11.0	0.0	10	X435186 - X4H0517-06	03-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	72.0	72.0	0.0	10	X435186 - X4H0517-07	03-Sep-24	
SM 4500 H B	pH @19.5°C	pH Units	7.8	7.8	0.1	20	X435179 - X4H0490-02	29-Aug-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	125	106	20.0	96	70 - 130	X437031 - X4H0526-01	10-Sep-24	
EPA 200.7	Magnesium	mg/L	60.4	39.9	20.0	103	70 - 130	X437031 - X4H0526-01	10-Sep-24	
EPA 200.7	Potassium	mg/L	26.3	6.30	20.0	99.8	70 - 130	X437031 - X4H0526-01	10-Sep-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Aluminum	mg/L	856	856	1.00	0.30R>S	70 - 130	X436095 - X4H0516-01	09-Sep-24	M3
EPA 200.7	Barium	mg/L	0.994	0.0078	1.00	98.6	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Barium	mg/L	1.11	0.0910	1.00	102	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Beryllium	mg/L	1.49	0.515	1.00	97.3	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Beryllium	mg/L	1.00	<0.00200	1.00	100	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Boron	mg/L	0.942	<0.0400	1.00	94.2	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	99.4	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Cadmium	mg/L	2.66	1.64	1.00	102	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Cadmium	mg/L	0.997	<0.0020	1.00	99.7	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Calcium	mg/L	561	538	20.0	118	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Calcium	mg/L	274	252	20.0	110	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Chromium	mg/L	1.14	0.148	1.00	98.8	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Chromium	mg/L	0.970	<0.0060	1.00	97.0	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Cobalt	mg/L	2.69	1.75	1.00	94.5	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Cobalt	mg/L	0.959	<0.0060	1.00	95.9	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Copper	mg/L	4.24	3.07	1.00	117	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	100	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Iron	mg/L	13.2	3.77	10.0	94.7	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	99.4	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Lead	mg/L	0.955	0.0254	1.00	93.0	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Lead	mg/L	0.955	<0.0075	1.00	95.5	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Lithium	mg/L	1.23	0.218	1.00	102	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Magnesium	mg/L	369	350	20.0	91.2	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Magnesium	mg/L	137	117	20.0	99.2	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Manganese	mg/L	228	229	1.00	0.30R>S	70 - 130	X436095 - X4H0516-01	09-Sep-24	M4
EPA 200.7	Manganese	mg/L	0.951	<0.0080	1.00	95.1	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.949	<0.0080	1.00	94.9	70 - 130	X436095 - X4H0516-01	09-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0516**
Reported: 13-Sep-24 13:33

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Nickel	mg/L	3.29	2.37	1.00	91.2	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Nickel	mg/L	0.974	0.0233	1.00	95.1	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Potassium	mg/L	27.2	6.93	20.0	101	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Potassium	mg/L	23.3	2.69	20.0	103	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	<0.0050	0.0500	N/A	70 - 130	X436095 - X4H0516-01	09-Sep-24	M2
EPA 200.7	Silver	mg/L	0.0444	<0.0050	0.0500	88.7	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Sodium	mg/L	58.9	40.3	19.0	97.9	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Sodium	mg/L	98.0	79.6	19.0	97.0	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Vanadium	mg/L	1.03	0.0092	1.00	102	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Zinc	mg/L	0.981	<0.0100	1.00	98.1	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Zinc	mg/L	61.0	58.9	1.00	0.30R>S	70 - 130	X436095 - X4H0516-01	09-Sep-24	M4
EPA 200.8	Antimony	mg/L	0.0263	<0.00100	0.0250	105	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Antimony	mg/L	0.0272	<0.00100	0.0250	109	70 - 130	X436125 - X4H0529-01	11-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0547	0.0266	0.0250	112	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X436125 - X4H0529-01	11-Sep-24	
EPA 200.8	Selenium	mg/L	0.0298	0.00213	0.0250	111	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Selenium	mg/L	0.0313	<0.00100	0.0250	125	70 - 130	X436125 - X4H0529-01	11-Sep-24	
EPA 200.8	Thallium	mg/L	0.0289	<0.000200	0.0250	115	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Thallium	mg/L	0.0246	<0.000200	0.0250	98.4	70 - 130	X436125 - X4H0529-01	11-Sep-24	
EPA 200.8	Uranium	mg/L	0.486	0.462	0.0250	97.0	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Uranium	mg/L	0.0301	0.000307	0.0250	119	70 - 130	X436125 - X4H0529-01	11-Sep-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00199	<0.000200	0.00200	99.4	70 - 130	X435030 - X4H0427-02	05-Sep-24	
EPA 245.1	Mercury	mg/L	0.00198	<0.000200	0.00200	99.1	70 - 130	X435030 - X4H0435-02	05-Sep-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	<0.0050	0.100	98.0	79 - 121	X435206 - X4H0406-01	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X436044 - X4H0495-02	05-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X436044 - X4H0501-01	05-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	100	90 - 110	X436065 - X4H0516-01	11-Sep-24	B10
EPA 350.1	Ammonia as N	mg/L	0.999	<0.030	1.00	99.9	90 - 110	X436065 - X4H0517-01	11-Sep-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.117	0.0070	0.100	110	82 - 118	X436133 - X4H0346-01	06-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.15	1.12	3.00	101	90 - 110	X435177 - X4H0514-02	29-Aug-24	
EPA 300.0	Chloride	mg/L	3.25	0.23	3.00	101	90 - 110	X435177 - X4H0517-01	29-Aug-24	
EPA 300.0	Fluoride	mg/L	2.06	<0.100	2.00	102	90 - 110	X435177 - X4H0517-01	30-Aug-24	
EPA 300.0	Fluoride	mg/L	2.08	<0.100	2.00	101	90 - 110	X435177 - X4H0514-02	30-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.13	0.113	2.00	101	90 - 110	X435177 - X4H0514-02	29-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.05	<0.050	2.00	101	90 - 110	X435177 - X4H0517-01	29-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.14	0.113	4.00	101	90 - 110	X435177 - X4H0514-02	29-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.05	<0.100	4.00	101	90 - 110	X435177 - X4H0517-01	29-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X435177 - X4H0514-02	29-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X435177 - X4H0517-01	29-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	12.4	2.34	10.0	101	90 - 110	X435177 - X4H0514-02	29-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.9	0.78	10.0	101	90 - 110	X435177 - X4H0517-01	29-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0516**
Reported: 13-Sep-24 13:33

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	127	125	20.0	1.0	20	104	X437031 - X4H0526-01	
EPA 200.7	Magnesium	mg/L	60.4	60.4	20.0	0.1	20	103	X437031 - X4H0526-01	
EPA 200.7	Potassium	mg/L	26.7	26.3	20.0	1.5	20	102	X437031 - X4H0526-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	856	856	1.00	0.0	20	0.30R>S	X436095 - X4H0516-01	M3
EPA 200.7	Barium	mg/L	0.974	0.994	1.00	2.1	20	96.6	X436095 - X4H0516-01	
EPA 200.7	Beryllium	mg/L	1.45	1.49	1.00	2.8	20	93.1	X436095 - X4H0516-01	
EPA 200.7	Boron	mg/L	0.944	0.942	1.00	0.2	20	94.4	X436095 - X4H0516-01	
EPA 200.7	Cadmium	mg/L	2.65	2.66	1.00	0.3	20	101	X436095 - X4H0516-01	
EPA 200.7	Calcium	mg/L	550	561	20.0	2.1	20	0.30R>S	X436095 - X4H0516-01	M3
EPA 200.7	Chromium	mg/L	1.10	1.14	1.00	3.6	20	94.7	X436095 - X4H0516-01	
EPA 200.7	Cobalt	mg/L	2.69	2.69	1.00	0.2	20	94.0	X436095 - X4H0516-01	
EPA 200.7	Copper	mg/L	4.13	4.24	1.00	2.7	20	105	X436095 - X4H0516-01	
EPA 200.7	Iron	mg/L	12.9	13.2	10.0	2.7	20	91.2	X436095 - X4H0516-01	
EPA 200.7	Lead	mg/L	0.940	0.955	1.00	1.6	20	91.5	X436095 - X4H0516-01	
EPA 200.7	Lithium	mg/L	1.21	1.23	1.00	1.9	20	99.3	X436095 - X4H0516-01	
EPA 200.7	Magnesium	mg/L	359	369	20.0	2.6	20	0.30R>S	X436095 - X4H0516-01	M3
EPA 200.7	Manganese	mg/L	229	228	1.00	0.1	20	0.30R>S	X436095 - X4H0516-01	M4
EPA 200.7	Molybdenum	mg/L	0.940	0.949	1.00	0.9	20	94.0	X436095 - X4H0516-01	
EPA 200.7	Nickel	mg/L	3.27	3.29	1.00	0.4	20	89.8	X436095 - X4H0516-01	
EPA 200.7	Potassium	mg/L	26.8	27.2	20.0	1.5	20	99.2	X436095 - X4H0516-01	
EPA 200.7	Silver	mg/L	<0.0050	<0.0050	0.0500	N/A	20	N/A	X436095 - X4H0516-01	M2
EPA 200.7	Sodium	mg/L	58.2	58.9	19.0	1.3	20	94.1	X436095 - X4H0516-01	
EPA 200.7	Vanadium	mg/L	1.00	1.03	1.00	3.1	20	99.1	X436095 - X4H0516-01	
EPA 200.7	Zinc	mg/L	60.2	61.0	1.00	1.4	20	126	X436095 - X4H0516-01	
EPA 200.8	Antimony	mg/L	0.0264	0.0263	0.0250	0.0	20	105	X436125 - X4H0495-02	
EPA 200.8	Arsenic	mg/L	0.0546	0.0547	0.0250	0.1	20	112	X436125 - X4H0495-02	
EPA 200.8	Selenium	mg/L	0.0294	0.0298	0.0250	1.4	20	109	X436125 - X4H0495-02	
EPA 200.8	Thallium	mg/L	0.0294	0.0289	0.0250	1.7	20	117	X436125 - X4H0495-02	
EPA 200.8	Uranium	mg/L	0.490	0.486	0.0250	0.8	20	112	X436125 - X4H0495-02	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00198	0.00199	0.00200	0.6	20	98.8	X435030 - X4H0427-02	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0920	0.0980	0.100	6.3	11	92.0	X435206 - X4H0406-01	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.103	0.100	0.4	20	104	X436044 - X4H0495-02	
EPA 350.1	Ammonia as N	mg/L	1.06	1.02	1.00	3.9	20	104	X436065 - X4H0516-01	B10
OIA 1677	Cyanide (WAD)	mg/L	0.118	0.117	0.100	0.9	11	111	X436133 - X4H0346-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.22	4.15	3.00	1.8	20	103	X435177 - X4H0514-02	
EPA 300.0	Fluoride	mg/L	2.14	2.08	2.00	2.7	20	104	X435177 - X4H0514-02	
EPA 300.0	Nitrate as N	mg/L	2.19	2.13	2.00	2.7	20	104	X435177 - X4H0514-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.24	4.14	4.00	2.4	20	103	X435177 - X4H0514-02	
EPA 300.0	Nitrite as N	mg/L	2.05	2.01	2.00	2.1	20	103	X435177 - X4H0514-02	
EPA 300.0	Sulfate as SO4	mg/L	12.7	12.4	10.0	1.8	20	103	X435177 - X4H0514-02	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0516**
Victor, CO 80860	Reported: 13-Sep-24 13:33

Notes and Definitions

B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
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.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0529**
Victor, CO 80860	Reported: 20-Sep-24 14:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-15B	X4H0529-01	Ground Water	29-Aug-24 12:22	TR	30-Aug-2024	
OSABH-17	X4H0529-02	Ground Water	29-Aug-24 11:30	TR	30-Aug-2024	Q5C
GVMW-10	X4H0529-03	Ground Water	29-Aug-24 10:18	TR	30-Aug-2024	
Seep-2	X4H0529-04	Ground Water	29-Aug-24 10:18	TR	30-Aug-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.

Case Narrative: X4H0529

Samples treated with CdCO3 before CN analysis for sulfide interference at client request.
The state of origin only accredits for drinking water analyses.

Diluted with NaOH and filtered several times to get rid of matrix interferent that precipitates out when pH rises. Samples known to cause CCV failure even at high dilution with pre-treatment as stated for CN Free ASTM D7237.

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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: **X4H0529**
Reported: 20-Sep-24 14:52

Client Sample ID: **GVMW-15B**
SVL Sample ID: **X4H0529-01 (Ground Water)**

Sampled: 29-Aug-24 12:22
Received: 30-Aug-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**	35.2	mg/L	0.100	0.069		X437038	SJN	09/13/24 12:18	
EPA 200.7	**Magnesium**	20.2	mg/L	0.500	0.090		X437038	SJN	09/13/24 12:18	
EPA 200.7	**Potassium**	2.17	mg/L	0.50	0.18		X437038	SJN	09/13/24 12:18	
SM 2340 B	**Hardness (as CaCO3)**	179	mg/L	2.31	0.543		N/A		09/13/24 12:18	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	0.410	mg/L	0.080	0.054		X436095	SJN	09/09/24 15:27	
EPA 200.7	**Barium**	0.0137	mg/L	0.0020	0.0019		X436095	SJN	09/09/24 12:03	
EPA 200.7	**Beryllium**	0.0304	mg/L	0.00200	0.00080		X436095	SJN	09/09/24 12:03	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X436095	SJN	09/09/24 12:03	
EPA 200.7	**Cadmium**	0.0024	mg/L	0.0020	0.0016		X436095	SJN	09/09/24 12:03	
EPA 200.7	**Calcium**	36.7	mg/L	0.100	0.069		X436095	SJN	09/09/24 12:03	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X436095	SJN	09/09/24 12:03	
EPA 200.7	**Cobalt**	0.0575	mg/L	0.0060	0.0046		X436095	SJN	09/09/24 12:03	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X436095	SJN	09/09/24 12:03	
EPA 200.7	**Iron**	19.7	mg/L	0.100	0.056		X436095	SJN	09/09/24 12:03	
EPA 200.7	**Lead**	0.0378	mg/L	0.0075	0.0049		X436095	SJN	09/09/24 12:03	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X436095	SJN	09/09/24 12:03	
EPA 200.7	**Magnesium**	21.3	mg/L	0.500	0.090		X436095	SJN	09/09/24 12:03	
EPA 200.7	**Manganese**	1.16	mg/L	0.0080	0.0034		X436095	SJN	09/09/24 15:27	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X436095	SJN	09/09/24 12:03	
EPA 200.7	**Nickel**	0.0984	mg/L	0.0100	0.0048		X436095	SJN	09/09/24 12:03	
EPA 200.7	**Potassium**	2.16	mg/L	0.50	0.18		X436095	SJN	09/09/24 12:03	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X436095	SJN	09/09/24 12:03	
EPA 200.7	**Sodium**	12.5	mg/L	0.50	0.12		X436095	SJN	09/09/24 12:03	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X436095	SJN	09/09/24 12:03	
EPA 200.7	**Zinc**	1.18	mg/L	0.0100	0.0054		X436095	SJN	09/09/24 12:03	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X436125	SMU	09/11/24 12:07	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X436125	SMU	09/11/24 12:07	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X436125	SMU	09/11/24 12:07	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X436125	SMU	09/11/24 12:07	
EPA 200.8	**Uranium**	0.000307	mg/L	0.000100	0.000052		X436125	SMU	09/11/24 12:07	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X435030	MAC	09/05/24 17:54	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X436134	DD	09/15/24 15:07	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X436044	DD	09/05/24 09:30	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X436064	DD	09/11/24 17:38	B10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X436133	DD	09/06/24 14:32	
SM 2310 B	**Acidity to pH 8.3**	44.8	mg/L as CaCO3	10.0			X437159	MWD	09/12/24 12:09	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:09	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:09	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:09	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:09	
SM 2540 C	**Total Diss. Solids**	376	mg/L	10			X435221	TJL	09/04/24 13:15	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X435222	TJL	09/05/24 12:55	
SM 4500 H B	**pH @22.4°C**	3.6	pH Units				X436041	MWD	09/04/24 13:09	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: **X4H0529**
Reported: 20-Sep-24 14:52

Client Sample ID: **GVMW-15B**
SVL Sample ID: **X4H0529-01 (Ground Water)**

Sampled: 29-Aug-24 12:22
Received: 30-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.02	mg/L	0.20	0.02		X435216	RS	08/30/24 16:12	
EPA 300.0	**Fluoride**	0.357	mg/L	0.100	0.017		X435216	RS	08/30/24 16:12	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X435216	RS	08/30/24 16:12	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X435216	RS	08/30/24 16:12	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X435216	RS	08/30/24 16:12	
EPA 300.0	**Sulfate as SO4**	246	mg/L	3.00	1.80	10	X435216	RS	08/30/24 16:28	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.91 meq/L Anion Sum: 5.19 meq/L C/A Balance: -2.76 % Calculated TDS: 319 TDS/cTDS: 1.18

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0529**
Reported: 20-Sep-24 14:52

Client Sample ID: **OSABH-17**
SVL Sample ID: **X4H0529-02 (Ground Water)**

Sampled: 29-Aug-24 11:30
Received: 30-Aug-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**	425	mg/L	1.00	0.690	10	X437038	SJN	09/13/24 13:10	
EPA 200.7	**Magnesium**	1220	mg/L	5.00	0.900	10	X437038	SJN	09/13/24 13:10	
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X437038	SJN	09/13/24 13:10	D11
SM 2340 B	**Hardness (as CaCO3)**	5770	mg/L	23.1	5.43		N/A		09/13/24 13:10	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	2780	mg/L	0.800	0.540	10	X436095	SJN	09/09/24 15:31	D11
EPA 200.7	Barium	< 0.0200	mg/L	0.0200	0.0190	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	**Beryllium**	0.514	mg/L	0.0200	0.00800	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	Boron	< 0.400	mg/L	0.400	0.0780	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	**Cadmium**	5.59	mg/L	0.0200	0.0160	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	**Calcium**	408	mg/L	1.00	0.690	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	**Chromium**	0.596	mg/L	0.0600	0.0200	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	**Cobalt**	12.7	mg/L	0.0600	0.0460	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	**Copper**	10.7	mg/L	0.100	0.0270	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	**Iron**	101	mg/L	1.00	0.560	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	Lead	< 0.0750	mg/L	0.0750	0.0490	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	**Lithium**	1.08	mg/L	0.400	0.250	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	**Magnesium**	1150	mg/L	5.00	0.900	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	**Manganese**	839	mg/L	0.0800	0.0340	10	X436095	SJN	09/09/24 15:31	D11
EPA 200.7	Molybdenum	< 0.0800	mg/L	0.0800	0.0340	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	**Nickel**	11.2	mg/L	0.100	0.0480	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	Silver	< 0.0500	mg/L	0.0500	0.0190	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	**Sodium**	13.0	mg/L	5.00	1.20	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	**Vanadium**	0.0881	mg/L	0.0500	0.0190	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.7	**Zinc**	199	mg/L	0.100	0.0540	10	X436095	SJN	09/09/24 12:06	D11
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X436125	SMU	09/11/24 12:13	D11
EPA 200.8	**Arsenic**	0.537	mg/L	0.0100	0.00210	10	X436125	SMU	09/11/24 12:13	
EPA 200.8	**Selenium**	0.0379	mg/L	0.0100	0.00240	10	X436125	SMU	09/11/24 12:13	D11
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X436125	SMU	09/11/24 12:13	D11
EPA 200.8	**Uranium**	10.4	mg/L	0.00100	0.000520	10	X436125	SMU	09/11/24 12:13	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X435030	MAC	09/05/24 17:56	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0250	mg/L	0.0250	0.0240	5	X436134	DD	09/16/24 14:12	D13,H1,Q12, V9
EPA 335.4	**Cyanide (total)**	0.0142	mg/L	0.0050	0.0038		X436044	DD	09/05/24 09:33	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X436064	DD	09/11/24 17:40	B10
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X436133	DD	09/06/24 14:33	D15,Q12
SM 2310 B	**Acidity to pH 8.3**	17900	mg/L as CaCO3	10.0			X437159	MWD	09/12/24 12:09	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:18	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:18	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:18	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:18	
SM 2540 C	**Total Diss. Solids**	32900	mg/L	100			X435221	TJL	09/04/24 13:15	E11
SM 2540 D	**Total Susp. Solids**	74.0	mg/L	5.0			X435222	TJL	09/05/24 12:55	
SM 4500 H B	**pH @22.6°C**	3.0	pH Units				X436041	MWD	09/04/24 13:18	H5

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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: **X4H0529**
Reported: 20-Sep-24 14:52

Client Sample ID: **OSABH-17**
SVL Sample ID: **X4H0529-02 (Ground Water)**

Sampled: 29-Aug-24 11:30
Received: 30-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	19.0	mg/L	5.00	0.55	25	X435216	RS	08/30/24 18:24	
EPA 300.0	**Fluoride**	556	mg/L	50.0	8.50	500	X435216	RS	08/30/24 18:41	
EPA 300.0	**Nitrate as N**	5.12	mg/L	1.25	0.325	25	X435216	RS	08/30/24 18:24	D18
EPA 300.0	**Nitrate+Nitrite as N**	5.12	mg/L	2.50	1.10	25	X435216	RS	08/30/24 18:24	D18
EPA 300.0	Nitrite as N	< 1.25	mg/L	1.25	0.775	25	X435216	RS	08/30/24 18:24	D18
EPA 300.0	**Sulfate as SO4**	27200	mg/L	300	180	1000	X435216	RS	09/03/24 13:18	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 474 meq/L Anion Sum: 596 meq/L C/A Balance: -11.48 % Calculated TDS: 29412 TDS/cTDS: 1.12

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0529**
Reported: 20-Sep-24 14:52

Client Sample ID: **GVMW-10**
SVL Sample ID: **X4H0529-03 (Ground Water)**

Sampled: 29-Aug-24 10:18
Received: 30-Aug-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**	400	mg/L	0.100	0.069		X437038	SJN	09/13/24 12:25	
EPA 200.7	**Magnesium**	159	mg/L	0.500	0.090		X437038	SJN	09/13/24 12:25	
EPA 200.7	**Potassium**	2.72	mg/L	0.50	0.18		X437038	SJN	09/13/24 12:25	
SM 2340 B	**Hardness (as CaCO3)**	1650	mg/L	2.31	0.543		N/A		09/09/24 12:10	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X436095	SJN	09/09/24 15:34	
EPA 200.7	**Barium**	0.0198	mg/L	0.0020	0.0019		X436095	SJN	09/09/24 12:10	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X436095	SJN	09/09/24 12:10	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X436095	SJN	09/09/24 12:10	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X436095	SJN	09/09/24 12:10	
EPA 200.7	**Calcium**	394	mg/L	0.100	0.069		X436095	SJN	09/09/24 12:10	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X436095	SJN	09/09/24 12:10	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X436095	SJN	09/09/24 12:10	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X436095	SJN	09/09/24 12:10	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X436095	SJN	09/09/24 12:10	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X436095	SJN	09/09/24 12:10	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X436095	SJN	09/09/24 12:10	
EPA 200.7	**Magnesium**	160	mg/L	0.500	0.090		X436095	SJN	09/09/24 12:10	
EPA 200.7	**Manganese**	1.03	mg/L	0.0080	0.0034		X436095	SJN	09/09/24 15:34	
EPA 200.7	**Molybdenum**	0.0249	mg/L	0.0080	0.0034		X436095	SJN	09/09/24 12:10	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X436095	SJN	09/09/24 12:10	
EPA 200.7	**Potassium**	2.57	mg/L	0.50	0.18		X436095	SJN	09/09/24 12:10	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X436095	SJN	09/09/24 12:10	
EPA 200.7	**Sodium**	40.6	mg/L	0.50	0.12		X436095	SJN	09/09/24 12:10	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X436095	SJN	09/09/24 12:10	
EPA 200.7	**Zinc**	0.126	mg/L	0.0100	0.0054		X436095	SJN	09/09/24 12:10	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X436125	SMU	09/11/24 12:16	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X436125	SMU	09/11/24 12:16	
EPA 200.8	**Selenium**	0.00506	mg/L	0.00100	0.00024		X436125	SMU	09/11/24 12:16	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X436125	SMU	09/11/24 12:16	
EPA 200.8	**Uranium**	0.0606	mg/L	0.000100	0.000052		X436125	SMU	09/11/24 12:16	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X435030	MAC	09/05/24 17:58	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X436134	DD	09/15/24 15:09	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X436044	DD	09/05/24 09:35	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X436064	DD	09/11/24 17:52	B10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X436133	DD	09/06/24 14:35	
SM 2310 B	**Acidity to pH 8.3**	-310	mg/L as CaCO3	10.0			X437159	MWD	09/12/24 12:09	
SM 2320 B	**Total Alkalinity**	314	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:37	
SM 2320 B	**Bicarbonate**	314	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:37	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:37	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:37	
SM 2540 C	**Total Diss. Solids**	2190	mg/L	40			X435221	TJL	09/04/24 13:15	
SM 2540 D	**Total Susp. Solids**	5.0	mg/L	5.0			X435222	TJL	09/05/24 12:55	
SM 4500 H B	**pH @22.6°C**	7.1	pH Units				X436041	MWD	09/04/24 13:37	H5

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

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Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0529**
Reported: 20-Sep-24 14:52

Client Sample ID: **GVMW-10**
SVL Sample ID: **X4H0529-03 (Ground Water)**

Sampled: 29-Aug-24 10:18
Received: 30-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	5.12	mg/L	0.20	0.02		X435216	RS	08/30/24 18:57	
EPA 300.0	**Fluoride**	0.341	mg/L	0.100	0.017		X435216	RS	08/30/24 18:57	
EPA 300.0	**Nitrate as N**	0.115	mg/L	0.050	0.013		X435216	RS	08/30/24 18:57	
EPA 300.0	**Nitrate+Nitrite as N**	0.115	mg/L	0.100	0.044		X435216	RS	08/30/24 18:57	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X435216	RS	08/30/24 18:57	
EPA 300.0	**Sulfate as SO4**	1550	mg/L	15.0	9.00	50	X435216	RS	08/30/24 19:14	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 34.6 meq/L Anion Sum: 38.7 meq/L C/A Balance: -5.57 % Calculated TDS: 2344 TDS/cTDS: 0.93

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0529**
Reported: 20-Sep-24 14:52

Client Sample ID: **Seep-2**
SVL Sample ID: **X4H0529-04 (Ground Water)**

Sampled: 29-Aug-24 10:18
Received: 30-Aug-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**	444	mg/L	10.0	6.90	100	X437038	SJN	09/13/24 13:14	
EPA 200.7	**Magnesium**	1250	mg/L	50.0	9.00	100	X437038	SJN	09/13/24 13:14	
EPA 200.7	Potassium	< 50.0	mg/L	50.0	18.0	100	X437038	SJN	09/13/24 13:14	D11
SM 2340 B	**Hardness (as CaCO3)**	6230	mg/L	231	54.3		N/A		09/09/24 12:13	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	8930	mg/L	8.00	5.40	100	X436095	SJN	09/09/24 15:38	D11
EPA 200.7	Barium	< 0.200	mg/L	0.200	0.190	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	**Beryllium**	0.654	mg/L	0.200	0.0800	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	Boron	< 4.00	mg/L	4.00	0.780	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	**Cadmium**	44.9	mg/L	0.200	0.160	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	**Calcium**	437	mg/L	10.0	6.90	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	**Chromium**	2.60	mg/L	0.600	0.200	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	**Cobalt**	24.7	mg/L	0.600	0.460	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	**Copper**	106	mg/L	1.00	0.270	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	**Iron**	7550	mg/L	10.0	5.60	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	Lead	< 0.750	mg/L	0.750	0.490	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	Lithium	< 4.00	mg/L	4.00	2.50	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	**Magnesium**	1220	mg/L	50.0	9.00	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	**Manganese**	3270	mg/L	0.800	0.340	100	X436095	SJN	09/09/24 15:38	D11
EPA 200.7	Molybdenum	< 0.800	mg/L	0.800	0.340	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	**Nickel**	15.9	mg/L	1.00	0.480	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	Potassium	< 50.0	mg/L	50.0	18.0	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	Silver	< 0.500	mg/L	0.500	0.190	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	Sodium	< 50.0	mg/L	50.0	12.0	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	**Vanadium**	0.811	mg/L	0.500	0.190	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.7	**Zinc**	1930	mg/L	1.00	0.540	100	X436095	SJN	09/09/24 12:13	D11
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X436125	SMU	09/11/24 12:37	D11
EPA 200.8	**Arsenic**	12.2	mg/L	0.100	0.0210	100	X436125	SMU	09/11/24 12:37	
EPA 200.8	Selenium	< 0.400	mg/L	0.400	0.0960	400	X436125	SMU	09/11/24 13:34	D11
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X436125	SMU	09/11/24 12:37	D11
EPA 200.8	**Uranium**	74.3	mg/L	0.0100	0.00520	100	X436125	SMU	09/11/24 12:37	
Metals (Filtered)										
EPA 245.1	**Mercury**	0.000210	mg/L	0.000200	0.000093		X435030	MAC	09/05/24 18:05	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0500	mg/L	0.0500	0.0480	10	X436134	DD	09/16/24 14:14	D13,H1,Q12, V9
EPA 335.4	**Cyanide (total)**	0.0111	mg/L	0.0050	0.0038		X436044	DD	09/05/24 09:38	
EPA 350.1	Ammonia as N	< 3.00	mg/L	3.00	1.27	100	X436064	DD	09/11/24 17:53	B10,D14
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X436133	DD	09/06/24 14:36	D15,Q12
SM 2310 B	**Acidity to pH 8.3**	70800	mg/L as CaCO3	10.0			X437159	MWD	09/12/24 12:09	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:44	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:44	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:44	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X436041	MWD	09/04/24 13:44	
SM 2540 C	**Total Diss. Solids**	120000	mg/L	100			X435221	TJL	09/04/24 13:15	E11
SM 2540 D	**Total Susp. Solids**	314	mg/L	5.0			X435222	TJL	09/05/24 12:55	
SM 4500 H B	**pH @22.8°C**	2.4	pH Units				X436041	MWD	09/04/24 13:44	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: **X4H0529**
Reported: 20-Sep-24 14:52

Client Sample ID: **Seep-2**
SVL Sample ID: **X4H0529-04 (Ground Water)**

Sampled: 29-Aug-24 10:18
Received: 30-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 50.0	mg/L	50.0	5.50	250	X435216	RS	08/30/24 19:30	D18
EPA 300.0	**Fluoride**	532	mg/L	25.0	4.25	250	X435216	RS	08/30/24 19:30	
EPA 300.0	Nitrate as N	< 12.5	mg/L	12.5	3.25	250	X435216	RS	08/30/24 19:30	
EPA 300.0	Nitrate+Nitrite as N	< 25.0	mg/L	25.0	11.0	250	X435216	RS	08/30/24 19:30	
EPA 300.0	Nitrite as N	< 12.5	mg/L	12.5	7.75	250	X435216	RS	08/30/24 19:30	D18
EPA 300.0	**Sulfate as SO4**	83100	mg/L	1500	900	5000	X435216	RS	08/30/24 19:47	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1,569 meq/L Anion Sum: 1,759 meq/L C/A Balance: -5.72 % Calculated TDS: 85308 TDS/cTDS: 1.41

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0529**
Reported: 20-Sep-24 14:52

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X437038	13-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X437038	13-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X437038	13-Sep-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X436095	09-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X436095	09-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X436095	09-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X436095	09-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X436095	09-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X436095	09-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X436095	09-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X436095	09-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X436095	09-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X436095	09-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X436095	09-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X436095	09-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X436095	09-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X436095	09-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X436095	09-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X436095	09-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X436095	09-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X436095	09-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X436095	09-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X436095	09-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X436095	09-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X436125	11-Sep-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X436125	11-Sep-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X436125	11-Sep-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X436125	11-Sep-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X436125	11-Sep-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X435030	05-Sep-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X436134	15-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X436044	05-Sep-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X436064	11-Sep-24	B10
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X437159	12-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X436041	04-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X436041	04-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X436041	04-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X436041	04-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X435221	04-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X435222	05-Sep-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X435216	30-Aug-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X435216	30-Aug-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X435216	30-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X435216	30-Aug-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X435216	30-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X435216	30-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0529**
Reported: 20-Sep-24 14:52

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.1	20.0	96	85 - 115	X437038	13-Sep-24	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.5	85 - 115	X437038	13-Sep-24	
EPA 200.7	Potassium	mg/L	19.9	20.0	99.5	85 - 115	X437038	13-Sep-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.981	1.00	98.1	85 - 115	X436095	09-Sep-24	
EPA 200.7	Barium	mg/L	0.994	1.00	99.4	85 - 115	X436095	09-Sep-24	
EPA 200.7	Beryllium	mg/L	0.999	1.00	99.9	85 - 115	X436095	09-Sep-24	
EPA 200.7	Boron	mg/L	1.00	1.00	100	85 - 115	X436095	09-Sep-24	
EPA 200.7	Cadmium	mg/L	0.994	1.00	99.4	85 - 115	X436095	09-Sep-24	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.7	85 - 115	X436095	09-Sep-24	
EPA 200.7	Chromium	mg/L	1.01	1.00	101	85 - 115	X436095	09-Sep-24	
EPA 200.7	Cobalt	mg/L	0.991	1.00	99.1	85 - 115	X436095	09-Sep-24	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X436095	09-Sep-24	
EPA 200.7	Iron	mg/L	9.88	10.0	98.8	85 - 115	X436095	09-Sep-24	
EPA 200.7	Lead	mg/L	0.985	1.00	98.5	85 - 115	X436095	09-Sep-24	
EPA 200.7	Lithium	mg/L	0.980	1.00	98.0	85 - 115	X436095	09-Sep-24	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.6	85 - 115	X436095	09-Sep-24	
EPA 200.7	Manganese	mg/L	0.948	1.00	94.8	85 - 115	X436095	09-Sep-24	
EPA 200.7	Molybdenum	mg/L	1.00	1.00	100	85 - 115	X436095	09-Sep-24	
EPA 200.7	Nickel	mg/L	1.00	1.00	100	85 - 115	X436095	09-Sep-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	97.9	85 - 115	X436095	09-Sep-24	
EPA 200.7	Silver	mg/L	0.0450	0.0500	90.0	85 - 115	X436095	09-Sep-24	
EPA 200.7	Sodium	mg/L	18.6	19.0	97.8	85 - 115	X436095	09-Sep-24	
EPA 200.7	Vanadium	mg/L	1.02	1.00	102	85 - 115	X436095	09-Sep-24	
EPA 200.7	Zinc	mg/L	0.989	1.00	98.9	85 - 115	X436095	09-Sep-24	
EPA 200.8	Antimony	mg/L	0.0257	0.0250	103	85 - 115	X436125	11-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0267	0.0250	107	85 - 115	X436125	11-Sep-24	
EPA 200.8	Selenium	mg/L	0.0272	0.0250	109	85 - 115	X436125	11-Sep-24	
EPA 200.8	Thallium	mg/L	0.0258	0.0250	103	85 - 115	X436125	11-Sep-24	
EPA 200.8	Uranium	mg/L	0.0269	0.0250	107	85 - 115	X436125	11-Sep-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00188	0.00200	94.2	85 - 115	X435030	05-Sep-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.100	97.0	90 - 110	X436134	15-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X436044	05-Sep-24	
EPA 350.1	Ammonia as N	mg/L	0.961	1.00	96.1	90 - 110	X436064	11-Sep-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	102	95.4 - 104	X437159	12-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X436041	04-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.8	99.3	101	96.4 - 105	X436041	04-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X435222	05-Sep-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.06	3.00	102	90 - 110	X435216	30-Aug-24	
EPA 300.0	Fluoride	mg/L	2.05	2.00	102	90 - 110	X435216	30-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X435216	30-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.62	4.50	103	90 - 110	X435216	30-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X435216	30-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X435216	30-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0529**
Reported: 20-Sep-24 14:52

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	44.8	44.8	0.0	20	X437159 - X4H0529-01	12-Sep-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	83.6	83.9	0.4	20	X436041 - X4H0523-07	04-Sep-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	83.6	83.9	0.4	20	X436041 - X4H0523-07	04-Sep-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X436041 - X4H0523-07	04-Sep-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X436041 - X4H0523-07	04-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	157	147	6.6	10	X435221 - X4H0530-02	04-Sep-24	
SM 2540 C	Total Diss. Solids	mg/L	370	376	1.6	10	X435221 - X4H0529-01	04-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X435222 - X4H0529-01	05-Sep-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X435222 - X4H0530-02	05-Sep-24	
SM 4500 H B	pH @22.2°C	pH Units	7.6	7.6	0.1	20	X436041 - X4H0523-07	04-Sep-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	55.7	35.2	20.0	103	70 - 130	X437038 - X4H0529-01	13-Sep-24	
EPA 200.7	Calcium	mg/L	50.1	31.1	20.0	95	70 - 130	X437038 - X4I0033-01	13-Sep-24	
EPA 200.7	Magnesium	mg/L	40.8	20.2	20.0	103	70 - 130	X437038 - X4H0529-01	13-Sep-24	
EPA 200.7	Magnesium	mg/L	27.9	8.29	20.0	97.9	70 - 130	X437038 - X4I0033-01	13-Sep-24	
EPA 200.7	Potassium	mg/L	22.8	2.17	20.0	103	70 - 130	X437038 - X4H0529-01	13-Sep-24	
EPA 200.7	Potassium	mg/L	21.6	1.51	20.0	100	70 - 130	X437038 - X4I0033-01	13-Sep-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Aluminum	mg/L	856	856	1.00	0.30R>S	70 - 130	X436095 - X4H0516-01	09-Sep-24	M3
EPA 200.7	Barium	mg/L	0.994	0.0078	1.00	98.6	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Barium	mg/L	1.11	0.0910	1.00	102	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Beryllium	mg/L	1.49	0.515	1.00	97.3	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Beryllium	mg/L	1.00	<0.00200	1.00	100	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Boron	mg/L	0.942	<0.0400	1.00	94.2	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	99.4	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Cadmium	mg/L	2.66	1.64	1.00	102	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Cadmium	mg/L	0.997	<0.0020	1.00	99.7	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Calcium	mg/L	561	538	20.0	118	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Calcium	mg/L	274	252	20.0	110	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Chromium	mg/L	1.14	0.148	1.00	98.8	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Chromium	mg/L	0.970	<0.0060	1.00	97.0	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Cobalt	mg/L	2.69	1.75	1.00	94.5	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Cobalt	mg/L	0.959	<0.0060	1.00	95.9	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Copper	mg/L	4.24	3.07	1.00	117	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	100	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Iron	mg/L	13.2	3.77	10.0	94.7	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	99.4	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Lead	mg/L	0.955	0.0254	1.00	93.0	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Lead	mg/L	0.955	<0.0075	1.00	95.5	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Lithium	mg/L	1.23	0.218	1.00	102	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Magnesium	mg/L	369	350	20.0	91.2	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Magnesium	mg/L	137	117	20.0	99.2	70 - 130	X436095 - X4I0036-05	09-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0529**
Reported: 20-Sep-24 14:52

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	228	229	1.00	0.30R>S	70 - 130	X436095 - X4H0516-01	09-Sep-24	M4
EPA 200.7	Manganese	mg/L	0.951	<0.0080	1.00	95.1	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.949	<0.0080	1.00	94.9	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Nickel	mg/L	3.29	2.37	1.00	91.2	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Nickel	mg/L	0.974	0.0233	1.00	95.1	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Potassium	mg/L	27.2	6.93	20.0	101	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Potassium	mg/L	23.3	2.69	20.0	103	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	<0.0050	0.0500	N/A	70 - 130	X436095 - X4H0516-01	09-Sep-24	M2
EPA 200.7	Silver	mg/L	0.0444	<0.0050	0.0500	88.7	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Sodium	mg/L	58.9	40.3	19.0	97.9	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Sodium	mg/L	98.0	79.6	19.0	97.0	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Vanadium	mg/L	1.03	0.0092	1.00	102	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Zinc	mg/L	0.981	<0.0100	1.00	98.1	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Zinc	mg/L	61.0	58.9	1.00	0.30R>S	70 - 130	X436095 - X4H0516-01	09-Sep-24	M4
EPA 200.8	Antimony	mg/L	0.0263	<0.00100	0.0250	105	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Antimony	mg/L	0.0272	<0.00100	0.0250	109	70 - 130	X436125 - X4H0529-01	11-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0547	0.0266	0.0250	112	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X436125 - X4H0529-01	11-Sep-24	
EPA 200.8	Selenium	mg/L	0.0298	0.00213	0.0250	111	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Selenium	mg/L	0.0313	<0.00100	0.0250	125	70 - 130	X436125 - X4H0529-01	11-Sep-24	
EPA 200.8	Thallium	mg/L	0.0289	<0.000200	0.0250	115	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Thallium	mg/L	0.0246	<0.000200	0.0250	98.4	70 - 130	X436125 - X4H0529-01	11-Sep-24	
EPA 200.8	Uranium	mg/L	0.486	0.462	0.0250	97.0	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Uranium	mg/L	0.0301	0.000307	0.0250	119	70 - 130	X436125 - X4H0529-01	11-Sep-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00199	<0.000200	0.00200	99.4	70 - 130	X435030 - X4H0427-02	05-Sep-24	
EPA 245.1	Mercury	mg/L	0.00198	<0.000200	0.00200	99.1	70 - 130	X435030 - X4H0435-02	05-Sep-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.106	0.0050	0.100	101	79 - 121	X436134 - X4H0413-06	15-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X436044 - X4H0495-02	05-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X436044 - X4H0501-01	05-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X436064 - X4H0490-01	11-Sep-24	B10
EPA 350.1	Ammonia as N	mg/L	1.00	<0.030	1.00	97.4	90 - 110	X436064 - X4H0490-02	11-Sep-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.117	0.0070	0.100	110	82 - 118	X436133 - X4H0346-01	06-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.13	<0.20	3.00	104	90 - 110	X435216 - X4H0530-07	30-Aug-24	
EPA 300.0	Chloride	mg/L	3.07	<0.20	3.00	102	90 - 110	X435216 - X4H0530-08	30-Aug-24	
EPA 300.0	Fluoride	mg/L	2.06	<0.100	2.00	103	90 - 110	X435216 - X4H0530-07	30-Aug-24	
EPA 300.0	Fluoride	mg/L	2.04	<0.100	2.00	102	90 - 110	X435216 - X4H0530-08	30-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X435216 - X4H0530-07	30-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X435216 - X4H0530-08	30-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.15	<0.100	4.00	104	90 - 110	X435216 - X4H0530-07	30-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.11	<0.100	4.00	103	90 - 110	X435216 - X4H0530-08	30-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.10	<0.050	2.00	105	90 - 110	X435216 - X4H0530-07	30-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.08	<0.050	2.00	104	90 - 110	X435216 - X4H0530-08	30-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	<0.30	10.0	102	90 - 110	X435216 - X4H0530-07	30-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0529**
Reported: 20-Sep-24 14:52

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	10.4	<0.30	10.0	102	90 - 110	X435216 - X4H0530-08	30-Aug-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	55.6	55.7	20.0	0.3	20	102	X437038 - X4H0529-01	
EPA 200.7	Magnesium	mg/L	40.9	40.8	20.0	0.2	20	104	X437038 - X4H0529-01	
EPA 200.7	Potassium	mg/L	22.5	22.8	20.0	1.2	20	102	X437038 - X4H0529-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	856	856	1.00	0.0	20	0.30R>S	X436095 - X4H0516-01	M3
EPA 200.7	Barium	mg/L	0.974	0.994	1.00	2.1	20	96.6	X436095 - X4H0516-01	
EPA 200.7	Beryllium	mg/L	1.45	1.49	1.00	2.8	20	93.1	X436095 - X4H0516-01	
EPA 200.7	Boron	mg/L	0.944	0.942	1.00	0.2	20	94.4	X436095 - X4H0516-01	
EPA 200.7	Cadmium	mg/L	2.65	2.66	1.00	0.3	20	101	X436095 - X4H0516-01	
EPA 200.7	Calcium	mg/L	550	561	20.0	2.1	20	0.30R>S	X436095 - X4H0516-01	M3
EPA 200.7	Chromium	mg/L	1.10	1.14	1.00	3.6	20	94.7	X436095 - X4H0516-01	
EPA 200.7	Cobalt	mg/L	2.69	2.69	1.00	0.2	20	94.0	X436095 - X4H0516-01	
EPA 200.7	Copper	mg/L	4.13	4.24	1.00	2.7	20	105	X436095 - X4H0516-01	
EPA 200.7	Iron	mg/L	12.9	13.2	10.0	2.7	20	91.2	X436095 - X4H0516-01	
EPA 200.7	Lead	mg/L	0.940	0.955	1.00	1.6	20	91.5	X436095 - X4H0516-01	
EPA 200.7	Lithium	mg/L	1.21	1.23	1.00	1.9	20	99.3	X436095 - X4H0516-01	
EPA 200.7	Magnesium	mg/L	359	369	20.0	2.6	20	0.30R>S	X436095 - X4H0516-01	M3
EPA 200.7	Manganese	mg/L	229	228	1.00	0.1	20	0.30R>S	X436095 - X4H0516-01	M4
EPA 200.7	Molybdenum	mg/L	0.940	0.949	1.00	0.9	20	94.0	X436095 - X4H0516-01	
EPA 200.7	Nickel	mg/L	3.27	3.29	1.00	0.4	20	89.8	X436095 - X4H0516-01	
EPA 200.7	Potassium	mg/L	26.8	27.2	20.0	1.5	20	99.2	X436095 - X4H0516-01	
EPA 200.7	Silver	mg/L	<0.0050	<0.0050	0.0500	N/A	20	N/A	X436095 - X4H0516-01	M2
EPA 200.7	Sodium	mg/L	58.2	58.9	19.0	1.3	20	94.1	X436095 - X4H0516-01	
EPA 200.7	Vanadium	mg/L	1.00	1.03	1.00	3.1	20	99.1	X436095 - X4H0516-01	
EPA 200.7	Zinc	mg/L	60.2	61.0	1.00	1.4	20	126	X436095 - X4H0516-01	
EPA 200.8	Antimony	mg/L	0.0264	0.0263	0.0250	0.0	20	105	X436125 - X4H0495-02	
EPA 200.8	Arsenic	mg/L	0.0546	0.0547	0.0250	0.1	20	112	X436125 - X4H0495-02	
EPA 200.8	Selenium	mg/L	0.0294	0.0298	0.0250	1.4	20	109	X436125 - X4H0495-02	
EPA 200.8	Thallium	mg/L	0.0294	0.0289	0.0250	1.7	20	117	X436125 - X4H0495-02	
EPA 200.8	Uranium	mg/L	0.490	0.486	0.0250	0.8	20	112	X436125 - X4H0495-02	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00198	0.00199	0.00200	0.6	20	98.8	X435030 - X4H0427-02	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.106	0.100	8.9	11	92.0	X436134 - X4H0413-06	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.103	0.100	0.4	20	104	X436044 - X4H0495-02	
EPA 350.1	Ammonia as N	mg/L	1.01	1.03	1.00	1.6	20	101	X436064 - X4H0490-01	B10
OIA 1677	Cyanide (WAD)	mg/L	0.118	0.117	0.100	0.9	11	111	X436133 - X4H0346-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.15	3.13	3.00	0.5	20	105	X435216 - X4H0530-07	
EPA 300.0	Fluoride	mg/L	2.08	2.06	2.00	1.1	20	104	X435216 - X4H0530-07	
EPA 300.0	Nitrate as N	mg/L	2.07	2.06	2.00	0.9	20	104	X435216 - X4H0530-07	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.20	4.15	4.00	1.2	20	105	X435216 - X4H0530-07	
EPA 300.0	Nitrite as N	mg/L	2.13	2.10	2.00	1.4	20	106	X435216 - X4H0530-07	

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0529**
Reported: 20-Sep-24 14:52

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.5	10.0	1.7	20	104	X435216 - X4H0530-07	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0529**
Victor, CO 80860	Reported: 20-Sep-24 14:52

Notes and Definitions

B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
D13	Due to noticeable turbidity or opacity, a sample dilution was performed.
D14	Due to precipitates evident in sample/digestate, a sample dilution was performed.
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.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
V9	CCV recovery was below method acceptance limits.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0495**
Victor, CO 80860	Reported: 12-Sep-24 16:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
Seep-1	X4H0495-01	Ground Water	27-Aug-24 11:52	TR	28-Aug-2024	Q5C
EMP-17B	X4H0495-02	Ground Water	27-Aug-24 11:22	TR	28-Aug-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.
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Case Narrative: X4H0495

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: **X4H0495**
Reported: 12-Sep-24 16:06

Client Sample ID: **Seep-1**
SVL Sample ID: **X4H0495-01 (Ground Water)**

Sampled: 27-Aug-24 11:52
Received: 28-Aug-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**	443	mg/L	1.00	0.690	10	X436060	NMS	09/05/24 12:37	D11
EPA 200.7	**Magnesium**	860	mg/L	5.00	0.900	10	X436060	NMS	09/05/24 12:37	D11
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X436060	NMS	09/05/24 12:37	D11
SM 2340 B	**Hardness (as CaCO3)**	4650	mg/L	23.1	5.43		N/A		09/09/24 11:30	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	3670	mg/L	1.60	1.08	20	X436095	SJN	09/09/24 15:02	D11
EPA 200.7	Barium	< 0.0400	mg/L	0.0400	0.0380	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	**Beryllium**	0.471	mg/L	0.0400	0.0160	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	Boron	< 0.800	mg/L	0.800	0.156	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	**Cadmium**	10.7	mg/L	0.0400	0.0320	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	**Calcium**	423	mg/L	2.00	1.38	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	**Chromium**	0.965	mg/L	0.120	0.0400	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	**Cobalt**	10.9	mg/L	0.120	0.0920	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	**Copper**	23.4	mg/L	0.200	0.0540	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	**Iron**	1680	mg/L	2.00	1.12	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	Lead	< 0.150	mg/L	0.150	0.0980	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	**Lithium**	0.869	mg/L	0.800	0.500	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	**Magnesium**	767	mg/L	10.0	1.80	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	**Manganese**	979	mg/L	0.160	0.0680	20	X436095	SJN	09/09/24 15:02	D11
EPA 200.7	Molybdenum	< 0.160	mg/L	0.160	0.0680	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	**Nickel**	8.25	mg/L	0.200	0.0960	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	Potassium	< 10.0	mg/L	10.0	3.60	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	Silver	< 0.100	mg/L	0.100	0.0380	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	**Sodium**	41.6	mg/L	10.0	2.40	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	**Vanadium**	0.189	mg/L	0.100	0.0380	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.7	**Zinc**	172	mg/L	0.200	0.108	20	X436095	SJN	09/09/24 11:30	D11
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X436125	SMU	09/11/24 11:35	D11
EPA 200.8	**Arsenic**	0.976	mg/L	0.100	0.0210	100	X436125	SMU	09/11/24 11:35	D11
EPA 200.8	Selenium	< 0.100	mg/L	0.100	0.0240	100	X436125	SMU	09/11/24 11:35	D11
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X436125	SMU	09/11/24 11:35	D11
EPA 200.8	**Uranium**	13.1	mg/L	0.0100	0.00520	100	X436125	SMU	09/11/24 11:35	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X435030	MAC	09/05/24 17:44	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435206	DD	09/05/24 11:19	
EPA 335.4	**Cyanide (total)**	0.0117	mg/L	0.0050	0.0038		X436044	DD	09/05/24 10:37	
EPA 350.1	Ammonia as N	< 3.00	mg/L	3.00	1.27	100	X436064	DD	09/11/24 17:25	B10,D14
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X436133	DD	09/06/24 11:58	D15,Q12
SM 2310 B	**Acidity to pH 8.3**	27200	mg/L as CaCO3	10.0			X435134	MWD	08/30/24 12:02	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X435179	MWD	08/29/24 14:32	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X435179	MWD	08/29/24 14:32	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X435179	MWD	08/29/24 14:32	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X435179	MWD	08/29/24 14:32	
SM 2540 C	**Total Diss. Solids**	44200	mg/L	100			X435167	TJL	08/30/24 13:00	E11
SM 2540 D	**Total Susp. Solids**	70.0	mg/L	5.0			X435168	TJL	08/30/24 13:30	
SM 4500 H B	**pH @21.7°C**	2.5	pH Units				X435179	MWD	08/29/24 14:32	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: **X4H0495**
Reported: 12-Sep-24 16:06

Client Sample ID: **Seep-1**
SVL Sample ID: **X4H0495-01 (Ground Water)**

Sampled: 27-Aug-24 11:52
Received: 28-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	7.65	mg/L	5.00	0.55	25	X435142	RS	08/28/24 14:22	D18
EPA 300.0	**Fluoride**	302	mg/L	100	17.0	1000	X435142	RS	08/28/24 14:37	
EPA 300.0	**Nitrate as N**	4.59	mg/L	1.25	0.325	25	X435142	RS	08/28/24 14:22	D18
EPA 300.0	**Nitrate+Nitrite as N**	4.59	mg/L	2.50	1.10	25	X435142	RS	08/28/24 14:22	D18
EPA 300.0	Nitrite as N	< 1.25	mg/L	1.25	0.775	25	X435142	RS	08/28/24 14:22	D18
EPA 300.0	**Sulfate as SO4**	32500	mg/L	300	180	1000	X435142	RS	08/28/24 14:37	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 630 meq/L Anion Sum: 693 meq/L C/A Balance: -4.76 % Calculated TDS: 34118 TDS/cTDS: 1.30

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0495**
Reported: 12-Sep-24 16:06

Client Sample ID: **EMP-17B**
SVL Sample ID: **X4H0495-02 (Ground Water)**

Sampled: 27-Aug-24 11:22
Received: 28-Aug-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**	208	mg/L	0.100	0.069		X436060	NMS	09/05/24 12:30	
EPA 200.7	**Magnesium**	94.0	mg/L	0.500	0.090		X436060	NMS	09/05/24 12:30	
EPA 200.7	**Potassium**	6.17	mg/L	0.50	0.18		X436060	NMS	09/05/24 12:30	
SM 2340 B	**Hardness (as CaCO3)**	906	mg/L	2.31	0.543		N/A		09/09/24 11:33	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	104	mg/L	0.080	0.054		X436095	SJN	09/09/24 15:05	
EPA 200.7	**Barium**	0.0283	mg/L	0.0020	0.0019		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Beryllium**	0.0217	mg/L	0.00200	0.00080		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Boron**	0.0685	mg/L	0.0400	0.0078		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Cadmium**	0.727	mg/L	0.0020	0.0016		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Calcium**	199	mg/L	0.100	0.069		X436095	SJN	09/09/24 11:33	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Cobalt**	0.533	mg/L	0.0060	0.0046		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Copper**	0.785	mg/L	0.0100	0.0027		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Iron**	2.15	mg/L	0.100	0.056		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Lead**	0.0144	mg/L	0.0075	0.0049		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Lithium**	0.048	mg/L	0.040	0.025		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Magnesium**	91.0	mg/L	0.500	0.090		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Manganese**	82.7	mg/L	0.0080	0.0034		X436095	SJN	09/09/24 15:05	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Nickel**	0.394	mg/L	0.0100	0.0048		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Potassium**	6.34	mg/L	0.50	0.18		X436095	SJN	09/09/24 11:33	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Sodium**	24.1	mg/L	0.50	0.12		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Vanadium**	0.0085	mg/L	0.0050	0.0019		X436095	SJN	09/09/24 11:33	
EPA 200.7	**Zinc**	28.1	mg/L	0.0100	0.0054		X436095	SJN	09/09/24 11:33	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X436125	SMU	09/11/24 11:48	
EPA 200.8	**Arsenic**	0.0266	mg/L	0.00100	0.00021		X436125	SMU	09/11/24 11:48	
EPA 200.8	**Selenium**	0.00213	mg/L	0.00100	0.00024		X436125	SMU	09/11/24 11:48	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X436125	SMU	09/11/24 11:48	
EPA 200.8	**Uranium**	0.462	mg/L	0.000100	0.000052		X436125	SMU	09/11/24 11:48	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X435030	MAC	09/05/24 17:46	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435206	DD	09/05/24 11:21	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X436044	DD	09/05/24 10:39	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X436064	DD	09/11/24 17:27	B10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X436133	DD	09/06/24 11:59	
SM 2310 B	**Acidity to pH 8.3**	806	mg/L as CaCO3	10.0			X435134	MWD	08/30/24 12:02	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X435179	MWD	08/29/24 14:37	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X435179	MWD	08/29/24 14:37	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X435179	MWD	08/29/24 14:37	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X435179	MWD	08/29/24 14:37	
SM 2540 C	**Total Diss. Solids**	2300	mg/L	40			X435167	TJL	08/30/24 13:00	
SM 2540 D	**Total Susp. Solids**	8.0	mg/L	5.0			X435168	TJL	08/30/24 13:30	
SM 4500 H B	**pH @21.5°C**	3.6	pH Units				X435179	MWD	08/29/24 14:37	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: **X4H0495**
Reported: 12-Sep-24 16:06

Client Sample ID: **EMP-17B**
SVL Sample ID: **X4H0495-02 (Ground Water)**

Sampled: 27-Aug-24 11:22
Received: 28-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	2.61	mg/L	0.20	0.02		X435142	RS	08/28/24 14:53	
EPA 300.0	**Fluoride**	42.3	mg/L	5.00	0.850	50	X435142	RS	08/28/24 15:09	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X435142	RS	08/28/24 14:53	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X435142	RS	08/28/24 14:53	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X435142	RS	08/28/24 14:53	
EPA 300.0	**Sulfate as SO4**	1640	mg/L	15.0	9.00	50	X435142	RS	08/28/24 15:09	

Cation/Anion Balance and TDS Ratios

Cation Sum: 34.7 meq/L Anion Sum: 36.5 meq/L C/A Balance: -2.42 % Calculated TDS: 2011 TDS/cTDS: 1.14

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0495**
Reported: 12-Sep-24 16:06

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	X436060	05-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X436060	05-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X436060	05-Sep-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X436095	09-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X436095	09-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X436095	09-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X436095	09-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X436095	09-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X436095	09-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X436095	09-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X436095	09-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X436095	09-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X436095	09-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X436095	09-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X436095	09-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X436095	09-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X436095	09-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X436095	09-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X436095	09-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X436095	09-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X436095	09-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X436095	09-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X436095	09-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X436095	09-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X436125	11-Sep-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X436125	11-Sep-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X436125	11-Sep-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X436125	11-Sep-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X436125	11-Sep-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X435030	05-Sep-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X435206	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X436044	05-Sep-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X436064	11-Sep-24	B10
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X435134	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X435179	29-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X435179	29-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X435179	29-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X435179	29-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X435167	30-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X435168	30-Aug-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X435142	28-Aug-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X435142	28-Aug-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X435142	28-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X435142	28-Aug-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X435142	28-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X435142	28-Aug-24	

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Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0495**
Reported: 12-Sep-24 16:06

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	X436060	05-Sep-24	
EPA 200.7	Magnesium	mg/L	19.8	20.0	99.2	85 - 115	X436060	05-Sep-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X436060	05-Sep-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.981	1.00	98.1	85 - 115	X436095	09-Sep-24	
EPA 200.7	Barium	mg/L	0.994	1.00	99.4	85 - 115	X436095	09-Sep-24	
EPA 200.7	Beryllium	mg/L	0.999	1.00	99.9	85 - 115	X436095	09-Sep-24	
EPA 200.7	Boron	mg/L	1.00	1.00	100	85 - 115	X436095	09-Sep-24	
EPA 200.7	Cadmium	mg/L	0.994	1.00	99.4	85 - 115	X436095	09-Sep-24	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.7	85 - 115	X436095	09-Sep-24	
EPA 200.7	Chromium	mg/L	1.01	1.00	101	85 - 115	X436095	09-Sep-24	
EPA 200.7	Cobalt	mg/L	0.991	1.00	99.1	85 - 115	X436095	09-Sep-24	
EPA 200.7	Copper	mg/L	1.00	1.00	100	85 - 115	X436095	09-Sep-24	
EPA 200.7	Iron	mg/L	9.88	10.0	98.8	85 - 115	X436095	09-Sep-24	
EPA 200.7	Lead	mg/L	0.985	1.00	98.5	85 - 115	X436095	09-Sep-24	
EPA 200.7	Lithium	mg/L	0.980	1.00	98.0	85 - 115	X436095	09-Sep-24	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.6	85 - 115	X436095	09-Sep-24	
EPA 200.7	Manganese	mg/L	0.948	1.00	94.8	85 - 115	X436095	09-Sep-24	
EPA 200.7	Molybdenum	mg/L	1.00	1.00	100	85 - 115	X436095	09-Sep-24	
EPA 200.7	Nickel	mg/L	1.00	1.00	100	85 - 115	X436095	09-Sep-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	97.9	85 - 115	X436095	09-Sep-24	
EPA 200.7	Silver	mg/L	0.0450	0.0500	90.0	85 - 115	X436095	09-Sep-24	
EPA 200.7	Sodium	mg/L	18.6	19.0	97.8	85 - 115	X436095	09-Sep-24	
EPA 200.7	Vanadium	mg/L	1.02	1.00	102	85 - 115	X436095	09-Sep-24	
EPA 200.7	Zinc	mg/L	0.989	1.00	98.9	85 - 115	X436095	09-Sep-24	
EPA 200.8	Antimony	mg/L	0.0257	0.0250	103	85 - 115	X436125	11-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0267	0.0250	107	85 - 115	X436125	11-Sep-24	
EPA 200.8	Selenium	mg/L	0.0272	0.0250	109	85 - 115	X436125	11-Sep-24	
EPA 200.8	Thallium	mg/L	0.0258	0.0250	103	85 - 115	X436125	11-Sep-24	
EPA 200.8	Uranium	mg/L	0.0269	0.0250	107	85 - 115	X436125	11-Sep-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00188	0.00200	94.2	85 - 115	X435030	05-Sep-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0950	0.100	95.0	90 - 110	X435206	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X436044	05-Sep-24	
EPA 350.1	Ammonia as N	mg/L	0.961	1.00	96.1	90 - 110	X436064	11-Sep-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	101	95.4 - 104	X435134	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X435179	29-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	103	96.4 - 105	X435179	29-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	407	397	103	96.4 - 105	X435179	29-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X435168	30-Aug-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X435142	28-Aug-24	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.8	90 - 110	X435142	28-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X435142	28-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.53	4.50	101	90 - 110	X435142	28-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.8	90 - 110	X435142	28-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X435142	28-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0495**
Reported: 12-Sep-24 16:06

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	X435134 - X4H0384-01	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	282	284	0.7	20	X435179 - X4H0490-02	29-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	282	284	0.7	20	X435179 - X4H0490-02	29-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X435179 - X4H0490-02	29-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X435179 - X4H0490-02	29-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	404	395	2.3	10	X435167 - X4H0490-02	30-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	508	516	1.6	10	X435167 - X4H0490-07	30-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X435168 - X4H0490-02	30-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	11.0	8.0	31.6	10	X435168 - X4H0490-07	30-Aug-24	R2B
SM 4500 H B	pH @19.5°C	pH Units	7.8	7.8	0.1	20	X435179 - X4H0490-02	29-Aug-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	61.5	39.4	20.0	111	70 - 130	X436060 - X4I0011-01	05-Sep-24	
EPA 200.7	Magnesium	mg/L	47.6	26.2	20.0	107	70 - 130	X436060 - X4I0011-01	05-Sep-24	
EPA 200.7	Potassium	mg/L	27.0	5.93	20.0	105	70 - 130	X436060 - X4I0011-01	05-Sep-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Aluminum	mg/L	856	856	1.00	0.30R>S	70 - 130	X436095 - X4H0516-01	09-Sep-24	M3
EPA 200.7	Barium	mg/L	0.994	0.0078	1.00	98.6	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Barium	mg/L	1.11	0.0910	1.00	102	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Beryllium	mg/L	1.49	0.515	1.00	97.3	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Beryllium	mg/L	1.00	<0.00200	1.00	100	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Boron	mg/L	0.942	<0.0400	1.00	94.2	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	99.4	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Cadmium	mg/L	2.66	1.64	1.00	102	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Cadmium	mg/L	0.997	<0.0020	1.00	99.7	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Calcium	mg/L	561	538	20.0	118	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Calcium	mg/L	274	252	20.0	110	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Chromium	mg/L	1.14	0.148	1.00	98.8	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Chromium	mg/L	0.970	<0.0060	1.00	97.0	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Cobalt	mg/L	2.69	1.75	1.00	94.5	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Cobalt	mg/L	0.959	<0.0060	1.00	95.9	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Copper	mg/L	4.24	3.07	1.00	117	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	100	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Iron	mg/L	13.2	3.77	10.0	94.7	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	99.4	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Lead	mg/L	0.955	0.0254	1.00	93.0	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Lead	mg/L	0.955	<0.0075	1.00	95.5	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Lithium	mg/L	1.23	0.218	1.00	102	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Magnesium	mg/L	369	350	20.0	91.2	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Magnesium	mg/L	137	117	20.0	99.2	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Manganese	mg/L	228	229	1.00	0.30R>S	70 - 130	X436095 - X4H0516-01	09-Sep-24	M4
EPA 200.7	Manganese	mg/L	0.951	<0.0080	1.00	95.1	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.949	<0.0080	1.00	94.9	70 - 130	X436095 - X4H0516-01	09-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0495**
Reported: 12-Sep-24 16:06

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Molybdenum	mg/L	1.00	<0.0080	1.00	100	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Nickel	mg/L	3.29	2.37	1.00	91.2	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Nickel	mg/L	0.974	0.0233	1.00	95.1	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Potassium	mg/L	27.2	6.93	20.0	101	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Potassium	mg/L	23.3	2.69	20.0	103	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	<0.0050	0.0500	N/A	70 - 130	X436095 - X4H0516-01	09-Sep-24	M2
EPA 200.7	Silver	mg/L	0.0444	<0.0050	0.0500	88.7	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Sodium	mg/L	58.9	40.3	19.0	97.9	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Sodium	mg/L	98.0	79.6	19.0	97.0	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Vanadium	mg/L	1.03	0.0092	1.00	102	70 - 130	X436095 - X4H0516-01	09-Sep-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Zinc	mg/L	0.981	<0.0100	1.00	98.1	70 - 130	X436095 - X4I0036-05	09-Sep-24	
EPA 200.7	Zinc	mg/L	61.0	58.9	1.00	0.30R>S	70 - 130	X436095 - X4H0516-01	09-Sep-24	M4
EPA 200.8	Antimony	mg/L	0.0263	<0.00100	0.0250	105	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Antimony	mg/L	0.0272	<0.00100	0.0250	109	70 - 130	X436125 - X4H0529-01	11-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0547	0.0266	0.0250	112	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X436125 - X4H0529-01	11-Sep-24	
EPA 200.8	Selenium	mg/L	0.0298	0.00213	0.0250	111	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Selenium	mg/L	0.0313	<0.00100	0.0250	125	70 - 130	X436125 - X4H0529-01	11-Sep-24	
EPA 200.8	Thallium	mg/L	0.0289	<0.000200	0.0250	115	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Thallium	mg/L	0.0246	<0.000200	0.0250	98.4	70 - 130	X436125 - X4H0529-01	11-Sep-24	
EPA 200.8	Uranium	mg/L	0.486	0.462	0.0250	97.0	70 - 130	X436125 - X4H0495-02	11-Sep-24	
EPA 200.8	Uranium	mg/L	0.0301	0.000307	0.0250	119	70 - 130	X436125 - X4H0529-01	11-Sep-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00199	<0.000200	0.00200	99.4	70 - 130	X435030 - X4H0427-02	05-Sep-24	
EPA 245.1	Mercury	mg/L	0.00198	<0.000200	0.00200	99.1	70 - 130	X435030 - X4H0435-02	05-Sep-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	<0.0050	0.100	98.0	79 - 121	X435206 - X4H0406-01	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X436044 - X4H0495-02	05-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X436044 - X4H0501-01	05-Sep-24	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X436064 - X4H0490-01	11-Sep-24	B10
EPA 350.1	Ammonia as N	mg/L	1.00	<0.030	1.00	97.4	90 - 110	X436064 - X4H0490-02	11-Sep-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.117	0.0070	0.100	110	82 - 118	X436133 - X4H0346-01	06-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.66	1.61	3.00	101	90 - 110	X435142 - X4H0494-01	28-Aug-24	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	96.9	90 - 110	X435142 - X4H0494-01	28-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.85	0.835	2.00	101	90 - 110	X435142 - X4H0494-01	28-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.85	0.835	4.00	100	90 - 110	X435142 - X4H0494-01	28-Aug-24	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.7	90 - 110	X435142 - X4H0494-01	28-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	17.7	7.70	10.0	100	90 - 110	X435142 - X4H0494-01	28-Aug-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	62.0	61.5	20.0	0.8	20	113	X436060 - X4I0011-01	
EPA 200.7	Magnesium	mg/L	47.6	47.6	20.0	0.0	20	107	X436060 - X4I0011-01	
EPA 200.7	Potassium	mg/L	27.3	27.0	20.0	1.0	20	107	X436060 - X4I0011-01	

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: **X4H0495**
Reported: 12-Sep-24 16:06

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	856	856	1.00	0.0	20	0.30R>S	X436095 - X4H0516-01	M3
EPA 200.7	Barium	mg/L	0.974	0.994	1.00	2.1	20	96.6	X436095 - X4H0516-01	
EPA 200.7	Beryllium	mg/L	1.45	1.49	1.00	2.8	20	93.1	X436095 - X4H0516-01	
EPA 200.7	Boron	mg/L	0.944	0.942	1.00	0.2	20	94.4	X436095 - X4H0516-01	
EPA 200.7	Cadmium	mg/L	2.65	2.66	1.00	0.3	20	101	X436095 - X4H0516-01	
EPA 200.7	Calcium	mg/L	550	561	20.0	2.1	20	0.30R>S	X436095 - X4H0516-01	M3
EPA 200.7	Chromium	mg/L	1.10	1.14	1.00	3.6	20	94.7	X436095 - X4H0516-01	
EPA 200.7	Cobalt	mg/L	2.69	2.69	1.00	0.2	20	94.0	X436095 - X4H0516-01	
EPA 200.7	Copper	mg/L	4.13	4.24	1.00	2.7	20	105	X436095 - X4H0516-01	
EPA 200.7	Iron	mg/L	12.9	13.2	10.0	2.7	20	91.2	X436095 - X4H0516-01	
EPA 200.7	Lead	mg/L	0.940	0.955	1.00	1.6	20	91.5	X436095 - X4H0516-01	
EPA 200.7	Lithium	mg/L	1.21	1.23	1.00	1.9	20	99.3	X436095 - X4H0516-01	
EPA 200.7	Magnesium	mg/L	359	369	20.0	2.6	20	0.30R>S	X436095 - X4H0516-01	M3
EPA 200.7	Manganese	mg/L	229	228	1.00	0.1	20	0.30R>S	X436095 - X4H0516-01	M4
EPA 200.7	Molybdenum	mg/L	0.940	0.949	1.00	0.9	20	94.0	X436095 - X4H0516-01	
EPA 200.7	Nickel	mg/L	3.27	3.29	1.00	0.4	20	89.8	X436095 - X4H0516-01	
EPA 200.7	Potassium	mg/L	26.8	27.2	20.0	1.5	20	99.2	X436095 - X4H0516-01	
EPA 200.7	Silver	mg/L	<0.0050	<0.0050	0.0500	N/A	20	N/A	X436095 - X4H0516-01	M2
EPA 200.7	Sodium	mg/L	58.2	58.9	19.0	1.3	20	94.1	X436095 - X4H0516-01	
EPA 200.7	Vanadium	mg/L	1.00	1.03	1.00	3.1	20	99.1	X436095 - X4H0516-01	
EPA 200.7	Zinc	mg/L	60.2	61.0	1.00	1.4	20	126	X436095 - X4H0516-01	
EPA 200.8	Antimony	mg/L	0.0264	0.0263	0.0250	0.0	20	105	X436125 - X4H0495-02	
EPA 200.8	Arsenic	mg/L	0.0546	0.0547	0.0250	0.1	20	112	X436125 - X4H0495-02	
EPA 200.8	Selenium	mg/L	0.0294	0.0298	0.0250	1.4	20	109	X436125 - X4H0495-02	
EPA 200.8	Thallium	mg/L	0.0294	0.0289	0.0250	1.7	20	117	X436125 - X4H0495-02	
EPA 200.8	Uranium	mg/L	0.490	0.486	0.0250	0.8	20	112	X436125 - X4H0495-02	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00198	0.00199	0.00200	0.6	20	98.8	X435030 - X4H0427-02	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0920	0.0980	0.100	6.3	11	92.0	X435206 - X4H0406-01	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.103	0.100	0.4	20	104	X436044 - X4H0495-02	
EPA 350.1	Ammonia as N	mg/L	1.01	1.03	1.00	1.6	20	101	X436064 - X4H0490-01	B10
OIA 1677	Cyanide (WAD)	mg/L	0.118	0.117	0.100	0.9	11	111	X436133 - X4H0346-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.62	4.66	3.00	0.8	20	100	X435142 - X4H0494-01	
EPA 300.0	Fluoride	mg/L	2.02	2.02	2.00	0.1	20	96.7	X435142 - X4H0494-01	
EPA 300.0	Nitrate as N	mg/L	2.83	2.85	2.00	0.7	20	99.9	X435142 - X4H0494-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.82	4.85	4.00	0.5	20	99.7	X435142 - X4H0494-01	
EPA 300.0	Nitrite as N	mg/L	1.99	1.99	2.00	0.3	20	99.5	X435142 - X4H0494-01	
EPA 300.0	Sulfate as SO4	mg/L	17.6	17.7	10.0	0.7	20	99.1	X435142 - X4H0494-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0495**
Victor, CO 80860	Reported: 12-Sep-24 16:06

Notes and Definitions

B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
D14	Due to precipitates evident in sample/digestate, a sample dilution was performed.
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.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0066**
Reported: 22-Aug-24 14:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-126F	X4H0066-01	Ground Water	05-Aug-24 09:15	TR	06-Aug-2024	
RB-0805	X4H0066-02	Ground Water	05-Aug-24 09:36	TR	06-Aug-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: X4H0066

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
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0066**
Reported: 22-Aug-24 14:26

Client Sample ID: **GVMW-126F**
SVL Sample ID: **X4H0066-01 (Ground Water)**

Sampled: 05-Aug-24 09:15
Received: 06-Aug-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**	30.7	mg/L	0.100	0.069		X433072	SJN	08/16/24 11:00	
EPA 200.7	**Magnesium**	6.81	mg/L	0.500	0.090		X433072	SJN	08/16/24 11:00	
EPA 200.7	**Potassium**	0.86	mg/L	0.50	0.18		X433072	SJN	08/16/24 11:00	
SM 2340 B	**Hardness (as CaCO3)**	111	mg/L	2.31	0.543		N/A		08/19/24 11:20	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X433054	SJN	08/19/24 11:20	
EPA 200.7	**Barium**	0.219	mg/L	0.0020	0.0019		X433054	SJN	08/19/24 11:20	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X433054	SJN	08/19/24 11:20	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X433054	SJN	08/19/24 11:20	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X433054	SJN	08/19/24 11:20	
EPA 200.7	**Calcium**	33.1	mg/L	0.100	0.069		X433054	SJN	08/19/24 11:20	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X433054	SJN	08/19/24 11:20	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X433054	SJN	08/19/24 11:20	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X433054	SJN	08/19/24 11:20	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X433054	SJN	08/19/24 11:20	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X433054	SJN	08/19/24 11:20	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X433054	SJN	08/19/24 11:20	
EPA 200.7	**Magnesium**	7.64	mg/L	0.500	0.090		X433054	SJN	08/19/24 11:20	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X433054	SJN	08/19/24 11:20	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X433054	SJN	08/19/24 11:20	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X433054	SJN	08/19/24 11:20	
EPA 200.7	**Potassium**	0.99	mg/L	0.50	0.18		X433054	SJN	08/19/24 11:20	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X433054	SJN	08/19/24 11:20	
EPA 200.7	**Sodium**	34.1	mg/L	0.50	0.12		X433054	SJN	08/19/24 11:20	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X433054	SJN	08/19/24 11:20	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X433054	SJN	08/19/24 11:20	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X433027	JRR	08/21/24 08:38	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X433027	JRR	08/21/24 08:38	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X433027	JRR	08/21/24 08:38	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X433027	JRR	08/21/24 08:38	
EPA 200.8	**Uranium**	0.00334	mg/L	0.000100	0.000052		X433027	JRR	08/21/24 08:38	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X432182	MAC	08/12/24 13:29	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X433108	DD	08/14/24 12:37	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X433008	DD	08/13/24 10:27	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X432187	DD	08/09/24 13:47	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X433190	DD	08/16/24 14:00	
SM 2310 B	**Acidity to pH 8.3**	-163	mg/L as CaCO3	10.0			X432207	MWD	08/09/24 14:25	
SM 2320 B	**Total Alkalinity**	157	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:52	
SM 2320 B	**Bicarbonate**	157	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:52	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:52	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:52	
SM 2540 C	**Total Diss. Solids**	203	mg/L	10			X432108	TJL	08/08/24 12:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X432109	TJL	08/08/24 13:15	
SM 4500 H B	**pH @24.4°C**	7.9	pH Units				X432118	MWD	08/07/24 18:52	H5

SVL holds the following certifications:
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0066**
Reported: 22-Aug-24 14:26

Client Sample ID: **GVMW-126F**
SVL Sample ID: **X4H0066-01 (Ground Water)**

Sampled: 05-Aug-24 09:15
Received: 06-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.30	mg/L	0.20	0.02		X432102	RS	08/06/24 16:01	
EPA 300.0	**Fluoride**	1.93	mg/L	0.100	0.017		X432102	RS	08/06/24 16:01	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X432102	RS	08/06/24 16:01	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X432102	RS	08/06/24 16:01	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X432102	RS	08/06/24 16:01	
EPA 300.0	**Sulfate as SO4**	13.8	mg/L	0.30	0.18		X432102	RS	08/06/24 16:01	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.61 meq/L Anion Sum: 3.57 meq/L C/A Balance: 0.67 % Calculated TDS: 185 TDS/cTDS: 1.10

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0066**
Reported: 22-Aug-24 14:26

Client Sample ID: **RB-0805**
SVL Sample ID: **X4H0066-02 (Ground Water)**

Sampled: 05-Aug-24 09:36
Received: 06-Aug-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**	0.228	mg/L	0.100	0.069		X433072	SJN	08/16/24 11:20	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X433072	SJN	08/16/24 11:20	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X433072	SJN	08/16/24 11:20	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		08/16/24 11:20	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X433054	SJN	08/19/24 11:24	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X433054	SJN	08/19/24 11:24	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X433054	SJN	08/19/24 11:24	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X433054	SJN	08/19/24 11:24	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X433054	SJN	08/19/24 11:24	
EPA 200.7	**Calcium**	0.120	mg/L	0.100	0.069		X433054	SJN	08/19/24 11:24	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X433054	SJN	08/19/24 11:24	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X433054	SJN	08/19/24 11:24	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X433054	SJN	08/19/24 11:24	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X433054	SJN	08/19/24 11:24	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X433054	SJN	08/19/24 11:24	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X433054	SJN	08/19/24 11:24	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X433054	SJN	08/19/24 11:24	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X433054	SJN	08/19/24 11:24	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X433054	SJN	08/19/24 11:24	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X433054	SJN	08/19/24 11:24	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X433054	SJN	08/19/24 11:24	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X433054	SJN	08/19/24 11:24	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X433054	SJN	08/19/24 11:24	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X433054	SJN	08/19/24 11:24	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X433054	SJN	08/19/24 11:24	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X433027	JRR	08/21/24 08:41	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X433027	JRR	08/21/24 08:41	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X433027	JRR	08/21/24 08:41	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X433027	JRR	08/21/24 08:41	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X433027	JRR	08/21/24 08:41	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X432182	MAC	08/12/24 13:31	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X433108	DD	08/14/24 12:39	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X433008	DD	08/13/24 10:32	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X432187	DD	08/09/24 13:49	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X433190	DD	08/16/24 14:02	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X432207	MWD	08/09/24 14:25	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:58	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:58	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:58	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X432118	MWD	08/07/24 18:58	
SM 2540 C	**Total Diss. Solids**	15	mg/L	10			X432108	TJL	08/08/24 12:45	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X432109	TJL	08/08/24 13:15	
SM 4500 H B	**pH @24.5°C**	5.5	pH Units				X432118	MWD	08/07/24 18:58	H5

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

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0066**
Reported: 22-Aug-24 14:26

Client Sample ID: **RB-0805**
SVL Sample ID: **X4H0066-02 (Ground Water)**

Sampled: 05-Aug-24 09:36
Received: 06-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.85	mg/L	0.20	0.02		X432102	RS	08/06/24 16:34	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X432102	RS	08/06/24 16:34	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X432102	RS	08/06/24 16:34	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X432102	RS	08/06/24 16:34	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X432102	RS	08/06/24 16:34	
EPA 300.0	**Sulfate as SO4**	0.48	mg/L	0.30	0.18		X432102	RS	08/06/24 16:34	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.04 meq/L Anion Sum: 0.06 meq/L C/A Balance: -23.15 % Calculated TDS: 2 TDS/cTDS: 9.97

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

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: **X4H0066**
Reported: 22-Aug-24 14:26

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	X433072	16-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X433072	16-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X433072	16-Aug-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X433054	19-Aug-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X433054	19-Aug-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X433054	19-Aug-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X433054	19-Aug-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X433054	19-Aug-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X433054	19-Aug-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X433054	19-Aug-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X433054	19-Aug-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X433054	19-Aug-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X433054	19-Aug-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X433054	19-Aug-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X433054	19-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X433054	19-Aug-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X433054	19-Aug-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X433054	19-Aug-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X433054	19-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X433054	19-Aug-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X433054	19-Aug-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X433054	19-Aug-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X433054	19-Aug-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X433054	19-Aug-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X433027	21-Aug-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X433027	21-Aug-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X433027	21-Aug-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X433027	21-Aug-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X433027	21-Aug-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X432182	12-Aug-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X433108	14-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X433008	13-Aug-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X432187	09-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X433190	16-Aug-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X432207	09-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X432118	07-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X432118	07-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X432118	07-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X432118	07-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X432108	08-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X432109	08-Aug-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X432102	06-Aug-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X432102	06-Aug-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X432102	06-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X432102	06-Aug-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X432102	06-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X432102	06-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0066**
Reported: 22-Aug-24 14:26

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	20.7	20.0	103	85 - 115	X433072	16-Aug-24	
EPA 200.7	Magnesium	mg/L	20.4	20.0	102	85 - 115	X433072	16-Aug-24	
EPA 200.7	Potassium	mg/L	20.7	20.0	104	85 - 115	X433072	16-Aug-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.969	1.00	96.9	85 - 115	X433054	19-Aug-24	
EPA 200.7	Barium	mg/L	0.960	1.00	96.0	85 - 115	X433054	19-Aug-24	
EPA 200.7	Beryllium	mg/L	0.971	1.00	97.1	85 - 115	X433054	19-Aug-24	
EPA 200.7	Boron	mg/L	0.960	1.00	96.0	85 - 115	X433054	19-Aug-24	
EPA 200.7	Cadmium	mg/L	0.967	1.00	96.7	85 - 115	X433054	19-Aug-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	98.0	85 - 115	X433054	19-Aug-24	
EPA 200.7	Chromium	mg/L	1.02	1.00	102	85 - 115	X433054	19-Aug-24	
EPA 200.7	Cobalt	mg/L	0.968	1.00	96.8	85 - 115	X433054	19-Aug-24	
EPA 200.7	Copper	mg/L	0.982	1.00	98.2	85 - 115	X433054	19-Aug-24	
EPA 200.7	Iron	mg/L	9.89	10.0	98.9	85 - 115	X433054	19-Aug-24	
EPA 200.7	Lead	mg/L	0.974	1.00	97.4	85 - 115	X433054	19-Aug-24	
EPA 200.7	Lithium	mg/L	0.943	1.00	94.3	85 - 115	X433054	19-Aug-24	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.6	85 - 115	X433054	19-Aug-24	
EPA 200.7	Manganese	mg/L	0.960	1.00	96.0	85 - 115	X433054	19-Aug-24	
EPA 200.7	Molybdenum	mg/L	0.978	1.00	97.8	85 - 115	X433054	19-Aug-24	
EPA 200.7	Nickel	mg/L	0.979	1.00	97.9	85 - 115	X433054	19-Aug-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.8	85 - 115	X433054	19-Aug-24	
EPA 200.7	Silver	mg/L	0.0503	0.0500	101	85 - 115	X433054	19-Aug-24	
EPA 200.7	Sodium	mg/L	18.2	19.0	96.0	85 - 115	X433054	19-Aug-24	
EPA 200.7	Vanadium	mg/L	1.02	1.00	102	85 - 115	X433054	19-Aug-24	
EPA 200.7	Zinc	mg/L	0.988	1.00	98.8	85 - 115	X433054	19-Aug-24	
EPA 200.8	Antimony	mg/L	0.0251	0.0250	101	85 - 115	X433027	21-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0257	0.0250	103	85 - 115	X433027	21-Aug-24	
EPA 200.8	Selenium	mg/L	0.0254	0.0250	102	85 - 115	X433027	21-Aug-24	
EPA 200.8	Thallium	mg/L	0.0252	0.0250	101	85 - 115	X433027	21-Aug-24	
EPA 200.8	Uranium	mg/L	0.0251	0.0250	100	85 - 115	X433027	21-Aug-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00217	0.00200	109	85 - 115	X432182	12-Aug-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0980	0.100	98.0	90 - 110	X433108	14-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X433008	13-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X432187	09-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	0.100	97.0	90 - 110	X433190	16-Aug-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	897	884	101	95.4 - 104	X432207	09-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.1	99.3	99.8	96.4 - 105	X432118	07-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	399	397	101	96.4 - 105	X432118	07-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	96.4 - 105	X432118	08-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X432109	08-Aug-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.05	3.00	102	90 - 110	X432102	06-Aug-24	
EPA 300.0	Fluoride	mg/L	2.03	2.00	101	90 - 110	X432102	06-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.02	2.00	101	90 - 110	X432102	06-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X432102	06-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.55	2.50	102	90 - 110	X432102	06-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.3	10.0	103	90 - 110	X432102	06-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0066**
Reported: 22-Aug-24 14:26

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	7380	7380	0.0	20	X432207 - X4G0508-01	09-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	176	177	0.5	20	X432118 - X4H0021-03	07-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	176	177	0.5	20	X432118 - X4H0021-03	07-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X432118 - X4H0021-03	07-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X432118 - X4H0021-03	07-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	231	227	1.8	10	X432108 - X4H0064-03	08-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	250	257	2.8	10	X432108 - X4H0070-02	08-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	6.0	6.0	0.0	10	X432109 - X4H0064-03	08-Aug-24	
SM 4500 H B	pH @23.5°C	pH Units	8.0	8.0	0.1	20	X432118 - X4H0021-03	07-Aug-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	51.7	30.1	20.0	108	70 - 130	X433072 - X4H0064-01	16-Aug-24	
EPA 200.7	Calcium	mg/L	25.8	4.65	20.0	106	70 - 130	X433072 - X4H0101-01	16-Aug-24	
EPA 200.7	Magnesium	mg/L	27.7	6.75	20.0	105	70 - 130	X433072 - X4H0064-01	16-Aug-24	
EPA 200.7	Magnesium	mg/L	21.2	<0.500	20.0	104	70 - 130	X433072 - X4H0101-01	16-Aug-24	
EPA 200.7	Potassium	mg/L	21.7	0.87	20.0	104	70 - 130	X433072 - X4H0064-01	16-Aug-24	
EPA 200.7	Potassium	mg/L	21.3	<0.50	20.0	105	70 - 130	X433072 - X4H0101-01	16-Aug-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.969	<0.080	1.00	96.9	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Aluminum	mg/L	1.04	<0.080	1.00	104	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Barium	mg/L	1.17	0.212	1.00	96.0	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Barium	mg/L	1.06	0.0284	1.00	103	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Beryllium	mg/L	0.963	<0.00200	1.00	96.3	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Boron	mg/L	1.05	<0.0400	1.00	102	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Boron	mg/L	1.26	0.263	1.00	100	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Cadmium	mg/L	1.03	<0.0020	1.00	103	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Cadmium	mg/L	1.01	<0.0020	1.00	101	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Calcium	mg/L	50.6	33.1	20.0	87.4	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Calcium	mg/L	127	104	20.0	114	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Chromium	mg/L	1.02	<0.0060	1.00	102	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Chromium	mg/L	1.09	<0.0060	1.00	109	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Cobalt	mg/L	1.01	<0.0060	1.00	101	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Cobalt	mg/L	0.974	<0.0060	1.00	97.4	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Copper	mg/L	0.981	<0.0100	1.00	98.1	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Copper	mg/L	1.04	<0.0100	1.00	104	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	101	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Iron	mg/L	10.7	<0.100	10.0	107	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Lead	mg/L	1.01	<0.0075	1.00	101	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Lead	mg/L	0.985	<0.0075	1.00	98.5	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Lithium	mg/L	0.959	<0.040	1.00	95.9	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Lithium	mg/L	1.04	<0.040	1.00	104	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Magnesium	mg/L	26.8	7.49	20.0	96.5	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Magnesium	mg/L	50.3	28.7	20.0	108	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Manganese	mg/L	0.951	0.0080	1.00	94.3	70 - 130	X433054 - X4H0064-01	19-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0066**
Reported: 22-Aug-24 14:26

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	1.07	0.0413	1.00	103	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Molybdenum	mg/L	0.985	<0.0080	1.00	98.5	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Nickel	mg/L	1.02	<0.0100	1.00	102	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Nickel	mg/L	0.977	<0.0100	1.00	97.7	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Potassium	mg/L	21.0	1.23	20.0	98.8	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Potassium	mg/L	35.1	13.6	20.0	108	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Silver	mg/L	0.0518	<0.0050	0.0500	104	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Silver	mg/L	0.0545	<0.0050	0.0500	109	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Sodium	mg/L	49.2	33.2	19.0	84.2	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Sodium	mg/L	96.4	76.2	19.0	106	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Vanadium	mg/L	1.09	0.0051	1.00	108	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.7	Zinc	mg/L	1.04	<0.0100	1.00	104	70 - 130	X433054 - X4H0064-01	19-Aug-24	
EPA 200.7	Zinc	mg/L	1.04	0.0272	1.00	101	70 - 130	X433054 - X4H0144-14	19-Aug-24	
EPA 200.8	Antimony	mg/L	0.0247	<0.00100	0.0250	98.9	70 - 130	X433027 - X4H0064-01	21-Aug-24	
EPA 200.8	Antimony	mg/L	0.0240	<0.00500	0.0250	95.8	70 - 130	X433027 - X4H0071-01	21-Aug-24	D18
EPA 200.8	Arsenic	mg/L	0.0250	<0.00100	0.0250	100	70 - 130	X433027 - X4H0064-01	21-Aug-24	
EPA 200.8	Arsenic	mg/L	0.0242	<0.00500	0.0250	96.6	70 - 130	X433027 - X4H0071-01	21-Aug-24	D18
EPA 200.8	Selenium	mg/L	0.0251	<0.00100	0.0250	99.0	70 - 130	X433027 - X4H0064-01	21-Aug-24	
EPA 200.8	Selenium	mg/L	0.0382	0.0114	0.0250	107	70 - 130	X433027 - X4H0071-01	21-Aug-24	D18
EPA 200.8	Thallium	mg/L	0.0232	<0.000200	0.0250	92.9	70 - 130	X433027 - X4H0064-01	21-Aug-24	
EPA 200.8	Thallium	mg/L	0.0236	<0.00100	0.0250	94.6	70 - 130	X433027 - X4H0071-01	21-Aug-24	D18
EPA 200.8	Uranium	mg/L	0.0264	0.00337	0.0250	92.3	70 - 130	X433027 - X4H0064-01	21-Aug-24	
EPA 200.8	Uranium	mg/L	0.0476	0.0239	0.0250	94.6	70 - 130	X433027 - X4H0071-01	21-Aug-24	D18
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00215	<0.000200	0.00200	108	70 - 130	X432182 - X4H0021-02	12-Aug-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	<0.0050	0.100	107	79 - 121	X433108 - X4H0007-01	14-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X433008 - X4H0007-01	13-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X433008 - X4H0007-02	13-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.06	<0.030	1.00	104	90 - 110	X432187 - X4H0064-01	09-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	101	90 - 110	X432187 - X4H0064-02	09-Aug-24	
OIA 1677	Cyanide (WAD)	mg/L	0.103	<0.0050	0.100	101	82 - 118	X433190 - X4H0064-01	16-Aug-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.01	1.88	3.00	104	90 - 110	X432102 - X4H0064-02	06-Aug-24	
EPA 300.0	Chloride	mg/L	3.93	0.85	3.00	103	90 - 110	X432102 - X4H0066-02	06-Aug-24	
EPA 300.0	Fluoride	mg/L	2.26	0.224	2.00	102	90 - 110	X432102 - X4H0064-02	06-Aug-24	
EPA 300.0	Fluoride	mg/L	2.09	<0.100	2.00	102	90 - 110	X432102 - X4H0066-02	06-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.79	0.744	2.00	102	90 - 110	X432102 - X4H0064-02	06-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	102	90 - 110	X432102 - X4H0066-02	06-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.84	0.744	4.00	102	90 - 110	X432102 - X4H0064-02	06-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	<0.100	4.00	102	90 - 110	X432102 - X4H0066-02	06-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	103	90 - 110	X432102 - X4H0064-02	06-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.05	<0.050	2.00	102	90 - 110	X432102 - X4H0066-02	06-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	30.8	20.5	10.0	103	90 - 110	X432102 - X4H0064-02	06-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.7	0.48	10.0	102	90 - 110	X432102 - X4H0066-02	06-Aug-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: **X4H0066**
Reported: 22-Aug-24 14:26

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	52.0	51.7	20.0	0.4	20	109	X433072 - X4H0064-01	
EPA 200.7	Magnesium	mg/L	27.8	27.7	20.0	0.4	20	105	X433072 - X4H0064-01	
EPA 200.7	Potassium	mg/L	21.8	21.7	20.0	0.3	20	105	X433072 - X4H0064-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.980	0.969	1.00	1.1	20	98.0	X433054 - X4H0064-01	
EPA 200.7	Barium	mg/L	1.15	1.17	1.00	2.2	20	93.5	X433054 - X4H0064-01	
EPA 200.7	Beryllium	mg/L	0.956	0.963	1.00	0.7	20	95.6	X433054 - X4H0064-01	
EPA 200.7	Boron	mg/L	0.958	1.05	1.00	8.9	20	93.5	X433054 - X4H0064-01	
EPA 200.7	Cadmium	mg/L	0.955	1.03	1.00	7.3	20	95.5	X433054 - X4H0064-01	
EPA 200.7	Calcium	mg/L	48.6	50.6	20.0	4.0	20	77.4	X433054 - X4H0064-01	
EPA 200.7	Chromium	mg/L	0.995	1.02	1.00	2.0	20	99.5	X433054 - X4H0064-01	
EPA 200.7	Cobalt	mg/L	0.944	1.01	1.00	7.1	20	94.4	X433054 - X4H0064-01	
EPA 200.7	Copper	mg/L	0.964	0.981	1.00	1.7	20	96.4	X433054 - X4H0064-01	
EPA 200.7	Iron	mg/L	9.78	10.1	10.0	3.4	20	97.8	X433054 - X4H0064-01	
EPA 200.7	Lead	mg/L	0.945	1.01	1.00	6.5	20	94.5	X433054 - X4H0064-01	
EPA 200.7	Lithium	mg/L	0.935	0.959	1.00	2.6	20	93.5	X433054 - X4H0064-01	
EPA 200.7	Magnesium	mg/L	26.0	26.8	20.0	3.1	20	92.4	X433054 - X4H0064-01	
EPA 200.7	Manganese	mg/L	0.950	0.951	1.00	0.1	20	94.2	X433054 - X4H0064-01	
EPA 200.7	Molybdenum	mg/L	0.950	1.02	1.00	7.1	20	94.5	X433054 - X4H0064-01	
EPA 200.7	Nickel	mg/L	0.950	1.02	1.00	6.8	20	95.0	X433054 - X4H0064-01	
EPA 200.7	Potassium	mg/L	20.6	21.0	20.0	1.8	20	96.9	X433054 - X4H0064-01	
EPA 200.7	Silver	mg/L	0.0497	0.0518	0.0500	4.3	20	99.3	X433054 - X4H0064-01	
EPA 200.7	Sodium	mg/L	48.0	49.2	19.0	2.6	20	77.5	X433054 - X4H0064-01	
EPA 200.7	Vanadium	mg/L	0.995	1.01	1.00	1.7	20	99.5	X433054 - X4H0064-01	
EPA 200.7	Zinc	mg/L	0.970	1.04	1.00	7.2	20	97.0	X433054 - X4H0064-01	
EPA 200.8	Antimony	mg/L	0.0256	0.0247	0.0250	3.6	20	102	X433027 - X4H0064-01	
EPA 200.8	Arsenic	mg/L	0.0257	0.0250	0.0250	2.8	20	103	X433027 - X4H0064-01	
EPA 200.8	Selenium	mg/L	0.0258	0.0251	0.0250	2.9	20	102	X433027 - X4H0064-01	
EPA 200.8	Thallium	mg/L	0.0240	0.0232	0.0250	3.1	20	95.9	X433027 - X4H0064-01	
EPA 200.8	Uranium	mg/L	0.0280	0.0264	0.0250	5.8	20	98.6	X433027 - X4H0064-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00216	0.00215	0.00200	0.3	20	108	X432182 - X4H0021-02	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.110	0.107	0.100	2.8	11	110	X433108 - X4H0007-01	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.103	0.100	0.1	20	103	X433008 - X4H0007-01	
EPA 350.1	Ammonia as N	mg/L	1.05	1.06	1.00	1.1	20	103	X432187 - X4H0064-01	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.103	0.100	2.0	11	99.0	X433190 - X4H0064-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.04	5.01	3.00	0.7	20	105	X432102 - X4H0064-02	
EPA 300.0	Fluoride	mg/L	2.29	2.26	2.00	1.2	20	103	X432102 - X4H0064-02	
EPA 300.0	Nitrate as N	mg/L	2.81	2.79	2.00	0.7	20	103	X432102 - X4H0064-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.90	4.84	4.00	1.2	20	104	X432102 - X4H0064-02	
EPA 300.0	Nitrite as N	mg/L	2.09	2.05	2.00	1.9	20	105	X432102 - X4H0064-02	
EPA 300.0	Sulfate as SO4	mg/L	30.9	30.8	10.0	0.3	20	104	X432102 - X4H0064-02	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0066**
Victor, CO 80860	Reported: 22-Aug-24 14:26

Notes and Definitions

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.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0377**
Reported: 09-Sep-24 09:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-108 F	X4H0377-01	Ground Water	20-Aug-24 10:15	TR	21-Aug-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: X4H0377

The state of origin only accredits for drinking water analyses.

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

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: **X4H0377**
Reported: 09-Sep-24 09:37

Client Sample ID: **GVMW-108 F**
SVL Sample ID: **X4H0377-01 (Ground Water)**

Sampled: 20-Aug-24 10:15
Received: 21-Aug-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**	50.1	mg/L	0.100	0.069		X435012	SJN	08/28/24 16:01	
EPA 200.7	**Magnesium**	6.36	mg/L	0.500	0.090		X435012	SJN	08/28/24 16:01	
EPA 200.7	**Potassium**	0.72	mg/L	0.50	0.18		X435012	SJN	08/28/24 16:01	
SM 2340 B	**Hardness (as CaCO3)**	151	mg/L	2.31	0.543		N/A		09/04/24 22:12	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X435022	SJN	09/04/24 22:12	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X435022	SJN	09/04/24 23:09	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X435022	SJN	09/04/24 22:12	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X435022	SJN	09/04/24 22:12	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X435022	SJN	09/04/24 22:12	
EPA 200.7	**Calcium**	50.3	mg/L	0.100	0.069		X435022	SJN	09/04/24 22:12	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X435022	SJN	09/04/24 22:12	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X435022	SJN	09/04/24 22:12	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X435022	SJN	09/04/24 22:12	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X435022	SJN	09/04/24 22:12	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X435022	SJN	09/04/24 23:09	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X435022	SJN	09/04/24 22:12	
EPA 200.7	**Magnesium**	6.26	mg/L	0.500	0.090		X435022	SJN	09/04/24 22:12	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:12	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X435022	SJN	09/04/24 22:12	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X435022	SJN	09/04/24 22:12	
EPA 200.7	**Potassium**	0.82	mg/L	0.50	0.18		X435022	SJN	09/04/24 22:12	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:12	
EPA 200.7	**Sodium**	24.3	mg/L	0.50	0.12		X435022	SJN	09/04/24 22:12	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X435022	SJN	09/04/24 22:12	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X435022	SJN	09/04/24 22:12	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X435071	SMU	09/04/24 21:55	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X435071	SMU	09/04/24 21:55	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X435071	SMU	09/04/24 21:55	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X435071	SMU	09/04/24 21:55	
EPA 200.8	**Uranium**	0.00511	mg/L	0.000100	0.000052		X435071	SMU	09/04/24 21:55	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X434037	MAC	08/27/24 17:17	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X435205	DD	09/04/24 14:48	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X434282	DD	08/27/24 13:50	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X435119	DD	08/29/24 13:12	B10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X436133	DD	09/06/24 11:52	H1
SM 2310 B	**Acidity to pH 8.3**	-43.8	mg/L as CaCO3	10.0			X435133	MWD	08/30/24 12:05	
SM 2320 B	**Total Alkalinity**	49.8	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:45	
SM 2320 B	**Bicarbonate**	49.8	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:45	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:45	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X435004	MWD	08/26/24 17:45	
SM 2540 C	**Total Diss. Solids**	298	mg/L	10			X434204	TJL	08/23/24 12:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X434205	TJL	08/23/24 11:30	
SM 4500 H B	**pH @21.5°C**	7.1	pH Units				X435004	MWD	08/26/24 17:45	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: **X4H0377**
Reported: 09-Sep-24 09:37

Client Sample ID: **GVMW-108 F**
SVL Sample ID: **X4H0377-01 (Ground Water)**

Sampled: 20-Aug-24 10:15
Received: 21-Aug-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	63.0	mg/L	2.00	0.22	10	X434175	RS	08/21/24 18:02	
EPA 300.0	**Fluoride**	1.87	mg/L	0.100	0.017		X434175	RS	08/21/24 17:46	
EPA 300.0	**Nitrate as N**	1.30	mg/L	0.050	0.013		X434175	RS	08/21/24 17:46	
EPA 300.0	**Nitrate+Nitrite as N**	1.30	mg/L	0.100	0.044		X434175	RS	08/21/24 17:46	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X434175	RS	08/21/24 17:46	
EPA 300.0	**Sulfate as SO4**	63.5	mg/L	3.00	1.80	10	X434175	RS	08/21/24 18:02	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 4.10 meq/L Anion Sum: 4.29 meq/L C/A Balance: -2.17 % Calculated TDS: 246 TDS/cTDS: 1.21

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

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0377**
Reported: 09-Sep-24 09:37

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X435012	28-Aug-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X435012	28-Aug-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X435012	28-Aug-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X435022	04-Sep-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X435022	04-Sep-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X435022	04-Sep-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X435022	04-Sep-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X435022	04-Sep-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X435022	04-Sep-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X435022	04-Sep-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X435022	04-Sep-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X435022	04-Sep-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X435022	04-Sep-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X435022	04-Sep-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X435022	04-Sep-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X435022	04-Sep-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X435022	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X435022	04-Sep-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X435022	04-Sep-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X435022	04-Sep-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X435022	04-Sep-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X435022	04-Sep-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X435022	04-Sep-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X435022	04-Sep-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X435071	04-Sep-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X435071	04-Sep-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X435071	04-Sep-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X435071	04-Sep-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X435071	04-Sep-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X434037	27-Aug-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X435205	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X434282	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X435119	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X435133	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X435004	26-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X434204	23-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X434205	23-Aug-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X434175	21-Aug-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X434175	21-Aug-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X434175	21-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X434175	21-Aug-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X434175	21-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X434175	21-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0377**
Reported: 09-Sep-24 09:37

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.3	20.0	96	85 - 115	X435012	28-Aug-24	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.7	85 - 115	X435012	28-Aug-24	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X435012	28-Aug-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.985	1.00	98.5	85 - 115	X435022	04-Sep-24	
EPA 200.7	Barium	mg/L	0.983	1.00	98.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Beryllium	mg/L	0.987	1.00	98.7	85 - 115	X435022	04-Sep-24	
EPA 200.7	Boron	mg/L	0.980	1.00	98.0	85 - 115	X435022	04-Sep-24	
EPA 200.7	Cadmium	mg/L	0.982	1.00	98.2	85 - 115	X435022	04-Sep-24	
EPA 200.7	Calcium	mg/L	19.6	20.0	98.1	85 - 115	X435022	04-Sep-24	
EPA 200.7	Chromium	mg/L	0.984	1.00	98.4	85 - 115	X435022	04-Sep-24	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X435022	04-Sep-24	
EPA 200.7	Copper	mg/L	0.969	1.00	96.9	85 - 115	X435022	04-Sep-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X435022	04-Sep-24	
EPA 200.7	Lead	mg/L	0.976	1.00	97.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Lithium	mg/L	0.966	1.00	96.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.7	85 - 115	X435022	04-Sep-24	
EPA 200.7	Manganese	mg/L	0.983	1.00	98.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.996	1.00	99.6	85 - 115	X435022	04-Sep-24	
EPA 200.7	Nickel	mg/L	0.964	1.00	96.4	85 - 115	X435022	04-Sep-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	101	85 - 115	X435022	04-Sep-24	
EPA 200.7	Silver	mg/L	0.0499	0.0500	99.8	85 - 115	X435022	04-Sep-24	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.3	85 - 115	X435022	04-Sep-24	
EPA 200.7	Vanadium	mg/L	0.981	1.00	98.1	85 - 115	X435022	04-Sep-24	
EPA 200.7	Zinc	mg/L	0.964	1.00	96.4	85 - 115	X435022	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0245	0.0250	97.9	85 - 115	X435071	05-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0269	0.0250	108	85 - 115	X435071	05-Sep-24	
EPA 200.8	Selenium	mg/L	0.0264	0.0250	106	85 - 115	X435071	05-Sep-24	
EPA 200.8	Thallium	mg/L	0.0257	0.0250	103	85 - 115	X435071	05-Sep-24	
EPA 200.8	Uranium	mg/L	0.0265	0.0250	106	85 - 115	X435071	05-Sep-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00214	0.00200	107	85 - 115	X434037	27-Aug-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.107	0.100	107	90 - 110	X435205	04-Sep-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.100	104	90 - 110	X434282	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X435119	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X436133	06-Sep-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	867	884	98.1	95.4 - 104	X435133	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X435004	26-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	103	99.3	103	96.4 - 105	X435004	26-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X434205	23-Aug-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.8	90 - 110	X434175	21-Aug-24	
EPA 300.0	Fluoride	mg/L	2.01	2.00	101	90 - 110	X434175	21-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X434175	21-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.53	4.50	101	90 - 110	X434175	21-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.6	90 - 110	X434175	21-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.4	10.0	104	90 - 110	X434175	21-Aug-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0377**
Reported: 09-Sep-24 09:37

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X435133 - X4H0376-01	30-Aug-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	50.2	50.0	0.4	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	50.2	50.0	0.4	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X435004 - X4H0376-01	26-Aug-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X435004 - X4H0376-01	26-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	290	300	3.4	10	X434204 - X4H0376-02	23-Aug-24	
SM 2540 C	Total Diss. Solids	mg/L	311	299	3.9	10	X434204 - X4H0376-03	23-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	30.0	28.0	6.9	10	X434205 - X4H0376-03	23-Aug-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X434205 - X4H0376-02	23-Aug-24	
SM 4500 H B	pH @21.5°C	pH Units	7.1	7.1	0.4	20	X435004 - X4H0376-01	26-Aug-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	69.1	49.6	20.0	97	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Calcium	mg/L	86.4	64.2	20.0	111	70 - 130	X435012 - X4H0442-01	28-Aug-24	
EPA 200.7	Magnesium	mg/L	26.4	6.33	20.0	100	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Magnesium	mg/L	23.6	2.61	20.0	105	70 - 130	X435012 - X4H0442-01	28-Aug-24	
EPA 200.7	Potassium	mg/L	20.9	0.83	20.0	100	70 - 130	X435012 - X4H0376-01	28-Aug-24	
EPA 200.7	Potassium	mg/L	25.7	4.64	20.0	105	70 - 130	X435012 - X4H0442-01	28-Aug-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.987	<0.080	1.00	98.7	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Barium	mg/L	0.971	<0.0020	1.00	97.1	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Beryllium	mg/L	0.964	<0.00200	1.00	96.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	99.0	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Cadmium	mg/L	0.973	<0.0020	1.00	97.3	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Calcium	mg/L	70.4	51.6	20.0	93.8	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Chromium	mg/L	0.986	<0.0060	1.00	98.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Cobalt	mg/L	0.942	<0.0060	1.00	94.2	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Copper	mg/L	0.970	<0.0100	1.00	96.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Lead	mg/L	0.946	<0.0075	1.00	94.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Lithium	mg/L	0.964	<0.040	1.00	96.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Magnesium	mg/L	25.6	6.26	20.0	96.9	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Manganese	mg/L	0.978	<0.0080	1.00	97.2	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Molybdenum	mg/L	0.983	<0.0080	1.00	98.3	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Nickel	mg/L	0.929	<0.0100	1.00	92.9	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Potassium	mg/L	21.3	0.78	20.0	103	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Silver	mg/L	0.0504	<0.0050	0.0500	101	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Sodium	mg/L	43.0	24.9	19.0	95.4	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Vanadium	mg/L	0.986	<0.0050	1.00	98.6	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.7	Zinc	mg/L	0.977	<0.0100	1.00	97.7	70 - 130	X435022 - X4H0376-01	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Antimony	mg/L	0.0267	<0.00100	0.0250	107	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0308	0.00295	0.0250	111	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Arsenic	mg/L	0.0270	<0.00100	0.0250	108	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Selenium	mg/L	0.0273	<0.00100	0.0250	107	70 - 130	X435071 - X4H0362-01	04-Sep-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0377**
Reported: 09-Sep-24 09:37

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Selenium	mg/L	0.0294	<0.00100	0.0250	116	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Thallium	mg/L	0.0304	0.000361	0.0250	120	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Thallium	mg/L	0.0263	<0.000200	0.0250	105	70 - 130	X435071 - X4H0377-01	04-Sep-24	
EPA 200.8	Uranium	mg/L	0.0358	0.00385	0.0250	128	70 - 130	X435071 - X4H0362-01	04-Sep-24	
EPA 200.8	Uranium	mg/L	0.0330	0.00511	0.0250	112	70 - 130	X435071 - X4H0377-01	04-Sep-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00218	<0.000200	0.00200	109	70 - 130	X434037 - X4H0241-01	27-Aug-24	
EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	109	70 - 130	X434037 - X4H0376-01	27-Aug-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0940	<0.0050	0.100	94.0	79 - 121	X435205 - X4H0346-01	04-Sep-24	H1,R4
EPA 335.4	Cyanide (total)	mg/L	0.108	<0.0050	0.100	108	90 - 110	X434282 - X4H0346-01	27-Aug-24	
EPA 335.4	Cyanide (total)	mg/L	0.106	<0.0050	0.100	106	90 - 110	X434282 - X4H0346-02	27-Aug-24	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	105	90 - 110	X435119 - X4H0346-01	29-Aug-24	B10
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X435119 - X4H0346-02	29-Aug-24	B10
OIA 1677	Cyanide (WAD)	mg/L	0.117	0.0070	0.100	110	82 - 118	X436133 - X4H0346-01	06-Sep-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.45	0.45	3.00	99.8	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Chloride	mg/L	3.37	0.37	3.00	99.8	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Fluoride	mg/L	1.99	<0.100	2.00	98.6	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Fluoride	mg/L	2.36	0.345	2.00	101	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.05	<0.050	2.00	101	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Nitrate as N	mg/L	2.08	<0.050	2.00	102	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	<0.100	4.00	101	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.10	<0.100	4.00	101	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.5	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X434175 - X4H0389-01	21-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	10.8	0.68	10.0	101	90 - 110	X434175 - X4H0382-01	21-Aug-24	
EPA 300.0	Sulfate as SO4	mg/L	12.7	2.51	10.0	102	90 - 110	X434175 - X4H0389-01	21-Aug-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	68.8	69.1	20.0	0.5	20	96	X435012 - X4H0376-01	
EPA 200.7	Magnesium	mg/L	26.6	26.4	20.0	0.7	20	101	X435012 - X4H0376-01	
EPA 200.7	Potassium	mg/L	20.9	20.9	20.0	0.1	20	100	X435012 - X4H0376-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.984	0.987	1.00	0.3	20	98.4	X435022 - X4H0376-01	
EPA 200.7	Barium	mg/L	0.960	0.971	1.00	1.1	20	96.0	X435022 - X4H0376-01	
EPA 200.7	Beryllium	mg/L	0.982	0.964	1.00	1.8	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Boron	mg/L	1.00	1.01	1.00	0.3	20	98.6	X435022 - X4H0376-01	
EPA 200.7	Cadmium	mg/L	0.968	0.973	1.00	0.6	20	96.8	X435022 - X4H0376-01	
EPA 200.7	Calcium	mg/L	71.4	70.4	20.0	1.4	20	98.6	X435022 - X4H0376-01	
EPA 200.7	Chromium	mg/L	0.980	0.986	1.00	0.6	20	98.0	X435022 - X4H0376-01	
EPA 200.7	Cobalt	mg/L	0.938	0.942	1.00	0.4	20	93.8	X435022 - X4H0376-01	
EPA 200.7	Copper	mg/L	0.962	0.970	1.00	0.7	20	95.9	X435022 - X4H0376-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4H0377**
Reported: 09-Sep-24 09:37

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Iron	mg/L	10.3	10.2	10.0	0.7	20	103	X435022 - X4H0376-01	
EPA 200.7	Lead	mg/L	0.926	0.946	1.00	2.1	20	92.6	X435022 - X4H0376-01	
EPA 200.7	Lithium	mg/L	0.972	0.964	1.00	0.8	20	97.2	X435022 - X4H0376-01	
EPA 200.7	Magnesium	mg/L	25.6	25.6	20.0	0.2	20	96.6	X435022 - X4H0376-01	
EPA 200.7	Manganese	mg/L	0.972	0.978	1.00	0.6	20	96.6	X435022 - X4H0376-01	
EPA 200.7	Molybdenum	mg/L	0.982	0.983	1.00	0.1	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Nickel	mg/L	0.925	0.929	1.00	0.5	20	92.5	X435022 - X4H0376-01	
EPA 200.7	Potassium	mg/L	21.7	21.3	20.0	1.9	20	105	X435022 - X4H0376-01	
EPA 200.7	Silver	mg/L	0.0501	0.0504	0.0500	0.6	20	100	X435022 - X4H0376-01	
EPA 200.7	Sodium	mg/L	43.5	43.0	19.0	1.2	20	98.2	X435022 - X4H0376-01	
EPA 200.7	Vanadium	mg/L	0.979	0.986	1.00	0.8	20	97.9	X435022 - X4H0376-01	
EPA 200.7	Zinc	mg/L	0.968	0.977	1.00	0.9	20	96.8	X435022 - X4H0376-01	
EPA 200.8	Antimony	mg/L	0.0261	0.0259	0.0250	0.8	20	104	X435071 - X4H0362-01	
EPA 200.8	Arsenic	mg/L	0.0316	0.0308	0.0250	2.7	20	115	X435071 - X4H0362-01	
EPA 200.8	Selenium	mg/L	0.0276	0.0273	0.0250	1.2	20	108	X435071 - X4H0362-01	
EPA 200.8	Thallium	mg/L	0.0305	0.0304	0.0250	0.5	20	121	X435071 - X4H0362-01	
EPA 200.8	Uranium	mg/L	0.0364	0.0358	0.0250	1.7	20	130	X435071 - X4H0362-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00217	0.00218	0.00200	0.1	20	109	X434037 - X4H0241-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0830	0.0940	0.100	12.4	11	83.0	X435205 - X4H0346-01	H1,R4
EPA 335.4	Cyanide (total)	mg/L	0.106	0.108	0.100	1.8	20	106	X434282 - X4H0346-01	
EPA 350.1	Ammonia as N	mg/L	1.06	1.07	1.00	0.2	20	104	X435119 - X4H0346-01	B10
OIA 1677	Cyanide (WAD)	mg/L	0.118	0.117	0.100	0.9	11	111	X436133 - X4H0346-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.50	3.45	3.00	1.5	20	102	X434175 - X4H0382-01	
EPA 300.0	Fluoride	mg/L	2.03	1.99	2.00	1.9	20	100	X434175 - X4H0382-01	
EPA 300.0	Nitrate as N	mg/L	2.09	2.05	2.00	1.6	20	102	X434175 - X4H0382-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.10	4.04	4.00	1.4	20	102	X434175 - X4H0382-01	
EPA 300.0	Nitrite as N	mg/L	2.01	1.99	2.00	1.2	20	101	X434175 - X4H0382-01	
EPA 300.0	Sulfate as SO4	mg/L	10.8	10.8	10.0	0.8	20	102	X434175 - X4H0382-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4H0377**
Victor, CO 80860	Reported: 09-Sep-24 09:37

Notes and Definitions

B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Attachment 2

Surface Water Calculations

GV-06

Sample Date: 8/13/2024

Data for Calculations:		
pH	7.93	std units
Hardness	173	mg/L
Temperature	17	Celsius

Regulation 32 (5 CCR 1002-32) COARUA24 Standards			GV-06 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.5 - 9.0	---	7.93
Temperature (^{o}C)	< 21.7	< 17	17
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	2.288838865	6.401324001	0.04
Boron	0.750	---	<0.0400
Chloride	250.000	---	8
Chlorine	0.011	0.019	--
Cyanide (Free)	---	0.005	<0.0050
Nitrate	---	10.000	0.153
Nitrite	0.050	---	<0.050
Sulfide	0.002	---	<0.050
Sulfate	250.000	---	55.7
Phosporus	0.110	---	0.094
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Arsenic	0.34000	---	<0.00100
Arsenic (T)	---	0.00300	<0.00100
Cadmium	0.00299	0.00108	<0.000100
Cadmium (T)	0.00500	---	<0.000100
Chromium (III)	---	0.11611	<0.0510
Chromium (III) (T)	0.05000	---	<0.0560
Hexavalent Chromium	0.01600	0.01100	<0.0500
Copper	0.02253	0.01431	<0.00040
Iron	---	0.30000	**0.369**
Iron (T)	---	1.00000	**2.34**
Lead	0.11666	0.00455	<0.00020
Lead (T)	0.05000	---	0.0009
Manganese	3.58374	1.98002	0.366
Mercury (T)	---	0.00001	<0.000093
Molybdenum (T)	---	0.15000	<0.0080
Nickel	0.74448	0.08269	<0.0100
Nickel (T)	---	0.10000	<0.0100
Selenium	0.01840	0.00460	<0.00100
Silver	0.00521	0.00019	<0.00008
Uranium	0.01680	0.01680	0.00182
Zinc	0.26340	0.19950	<0.0100

Temporary Modification for chronic arsenic concentration applied. See Regulation 5 CCR 1002-32 32.6 (2)(c)(iii)

Bold text indicates that an Acute and/or Chronic standard has been exceeded.

- Invalid results, past regulatory hold time

GV-05

Sample Date: 8/13/2024

Data for Calculations:		
pH	7.73	std units
Hardness	170	mg/L
Temperature	18.1	Celsius

Regulation 32 (5 CCR 1002-32) COARUA24 Standards			GV-05 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.5 - 9.0	---	7.73
Temperature (^{o}C)	< 21.7	< 17	18.1
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	2.746	9.162	0.04
Boron	0.750	---	<0.0400
Chloride	250.000	---	13.8
Chlorine	0.011	0.019	--
Cyanide (Free)	---	0.005	<0.0050
Nitrate	---	10.000	0.078
Nitrite	0.050	---	<0.050
Sulfide	0.002	---	<0.050
Sulfate	250.000	---	45.1
Phosporus	0.110	---	0.064
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Arsenic	0.34000	---	<0.00100
Arsenic (T)	---	0.00300	<0.00100
Cadmium	0.00294	0.00107	<0.000100
Cadmium (T)	0.00500	---	<0.000100
Chromium (III)	---	0.11446	<0.0510
Chromium (III) (T)	0.05000	---	<0.0560
Hexavalent Chromium	0.01600	0.01100	<0.0500
Copper	0.02216	0.01409	<0.00040
Iron	---	0.30000	0.117
Iron (T)	---	1.00000	**2.43**
Lead	0.11450	0.00446	<0.00020
Lead (T)	0.05000	---	0.0004
Manganese	3.56292	1.96851	0.407
Mercury (T)	---	0.00001	<0.000093
Molybdenum (T)	---	0.15000	<0.0080
Nickel	0.73354	0.08147	<0.0100
Nickel (T)	---	0.10000	<0.0100
Selenium	0.01840	0.00460	<0.00100
Silver	0.00506	0.00019	<0.00008
Uranium	0.01680	0.01680	0.00118
Zinc	0.25924	0.19635	<0.0100

Temporary Modification for chronic arsenic concentration applied. See Regulation 5 CCR 1002-32 32.6 (2)(c)(iii)

Bold text indicates that an Acute and/or Chronic standard has been exceeded.

- Invalid results, past regulatory hold time

GV-4.5

Sample Date: 8/13/2024

Data for Calculations:		
pH	7.01	std units
Hardness	162	mg/L
Temperature	14.2	Celsius

Regulation 32 (5 CCR 1002-32) COARUA24 Standards			GV-4.5 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.5 - 9.0	---	7.01
Temperature (^{o}C)	< 21.7	< 17	14.2
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	5.887	23.892	<0.030
Boron	0.750	---	<0.0400
Chloride	250.000	---	32.6
Chlorine	0.011	0.019	--
Cyanide (Free)	---	0.005	<0.0050
Nitrate	---	10.000	0.161
Nitrite	0.050	---	<0.050
Sulfide	0.002	---	<0.050
Sulfate	250.000	---	41.3
Phosporus	0.110	---	<0.050
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Arsenic	0.34000	---	<0.00100
Arsenic (T)	---	0.00300	<0.00100
Cadmium	0.00282	0.00103	<0.000100
Cadmium (T)	0.00500	---	<0.000100
Chromium (III)	---	0.11003	<0.00600
Chromium (III) (T)	0.05000	---	<0.0110
Hexavalent Chromium	0.01600	0.01100	<0.0050
Copper	0.02117	0.01353	0.0004
Iron	---	0.30000	**1.8**
Iron (T)	---	1.00000	**2.23**
Lead	0.10874	0.00424	<0.00020
Lead (T)	0.05000	---	<0.00020
Manganese	3.50617	1.93716	0.462
Mercury (T)	---	0.00001	<0.000093
Molybdenum (T)	---	0.15000	<0.0080
Nickel	0.70423	0.07822	<0.0100
Nickel (T)	---	0.10000	<0.0100
Selenium	0.01840	0.00460	<0.00100
Silver	0.00465	0.00017	<0.00008
Uranium	0.01680	0.01680	0.000612
Zinc	0.24812	0.18793	<0.0100

Temporary Modification for chronic arsenic concentration applied. See Regulation 5 CCR 1002-32 32.6 (2)(c)(iii)

Bold text indicates that an Acute and/or Chronic standard has been exceeded.

- Invalid results, past regulatory hold time

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Attachment 3

Sampling Logs

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

Location: EMP-16 **Date:** 8/27/24

Technician: Trenton Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
1015 8		Insufficient			

Sample Method: —

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 63° Sunny

Signature:

Comments / Notes:

EMP-16 is Insufficient

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

Location: EMP-17 **Date:** 8/27/24

Technician: Trenton Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
11:08		DRY			

Sample Method:

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

Turbid ~~[Y / N]~~

Clear ~~[Y / N]~~

Weather: 63° Sunny

Signature:

Comments / Notes:

EMP is Dry.

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

Location: EMP-17A **Date:** 8/27/24

Technician: Trenton Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
11:12		DRY			

Sample Method: —

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

Turbid ~~[Y / N]~~

Clear ~~[Y / N]~~

Weather: 62° Sunny

Signature:

Comments / Notes:

EMP-17A is Dry

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

Location: EMP-17B **Date:** 8/27/24

Technician: Trenton Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
11:22	3.31	2305	16.3	386	—

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 63° Sunny

Signature:

Comments / Notes:

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

Location: EMP-20 **Date:** 8/22/24

Technician: Trenton Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
11:32		DRY			

Sample Method: —

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

Turbid ~~[Y / N]~~

Clear ~~[Y / N]~~

Weather: 63° Sunny

Signature:

Comments / Notes:

EMP-20 is Dry

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

Location: GV-02 **Date:** ~~8/27/24~~ 8/27/24

Technician: Trenton Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
12:32		DRY	No Flow		

Sample Method: —

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

Turbid [Y/N]

Clear ~~[Y/N]~~

Weather: 66° Sunny

Signature:

Comments / Notes:

DRY No Flow

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

Location: GV-03 **Date:** 8/13/24

Technician: Trenten Reed **Quarter:** 3

Time	pH (S.U.}	Cond. (uS/cm)	Temp. (°C)	ORP
11:14	Dry	Dry	Dry	Dry

Sample Method: —

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: —

Signature:

Comments / Notes:

Dry No Flow

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

Location: GV-4.5 **Date:** 8/13/24

Technician: Trenton Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
11:50	7.01	401.3	14.2	.3

Chlorine 0.106

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 64° overcast

Signature:

Comments / Notes:

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

Location: GU-05 **Date:** 8/13/24

Technician: Trenton Reed **Quarter:** 3

Time	pH (S.U.}	Cond. (uS/cm)	Temp. (°C)	ORP
12:20	7.73	342.0	18.1	183

chlorine 0.17B

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 67° Partly cloudy

Signature: [signature]

Comments / Notes:

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

Location: GV-06 **Date:** 8/13/24

Technician: Trenton Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
11:24	7.93	3858	17.0	5

Chlorine 0.197

Sample Method: Grab

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: 64° Overcast

Signature: T Reed

Comments / Notes:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 8/6/24
Technician: Trenton Reed
Quarter: 3
Static Water Level (DTW): 39.55
Well ID: GVMW-41
Is well Dry? —
If so Dry at: — feet
Well Depth (TD): 480

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1:24			6.69	1569	5.6	18.05	83.3	
1:29	39.70	0.15	6.46	638.7	4.4	5.75	15.2	
1:34	39.74	0.04	6.46	445.7	4.3	4.93	2.2	
1:39	39.74	0.00	6.45	454.3	5.0	4.26	-9.9	~ 0.1 L/m
1:44	39.74	0.00	6.45	438.7	5.1	4.40	-12.2	
1:49	39.74	0.00	6.40	441.6	5.1	4.26	-17.3	
1:54	39.74	0.00	6.42	449.1	5.2	4.37	-19.3	
	Total							
	DrowDown							
	0.19							

Sample Method: Low Flow
Rate (gpm): 0.04 * Flow rate at stabilization (during sample collection)
Time Start: 1:24 Time End: 1:54

Final Parameter	Stabilization Guidance		Met?	Comments
pH	6.42	±0.1	(Y) / N	
Conductivity	449.1	3%	(Y) / N	
Temp (deg C)	5.2	3%	(Y) / N	
Dissolved Oxyger	4.37	10%	(Y) / N	
Turbidity		10%	Y / N	
Oxidation/Reduction	-19.3	±10	(Y) / N	
DTW Stabilized	39.74	feet	(Y) / N	
Final H2O level	39.74	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) ~2.5 gal

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

Weather: 73° 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 5gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: Trenton Reed
Date: 8/6/24
Quarter: 3
Static Water Level (DTW): 29.5
Well ID: GUMW-~~22~~ 7A
Is well Dry? NO
If so Dry at: —
Well Depth (TD): 200 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:57			7.25	757.6	5.6	10.09	88.2	
10:02	29.65	0.10	7.39	638.0	4.9	5.55	39.4	
10:07	29.80	0.15	7.43	627.9	4.9	3.97	-7.1	
10:12	29.83	0.03	7.43	627.8	5.0	3.69	-18.5	0.3 L/m
10:17	29.90	0.07	7.42	630.7	5.0	3.39	-26.4	
10:22	29.94	~~0.03~~ 0.04	7.43	627.2	5.0	3.22	-30.2	
10:27	29.98	0.04	7.43	626.6	5.1	3.15	-34.8	
total								
Draw Down								
	0.43							

Sample Method: Low Flow
Rate (gpm): .01 gal * Flow rate at stabilization (during sample collection)
Time Start: 9:57
Time End:

Final Parameter	Stabilization Guidance		Met?	Comments
pH	7.43	±0.1	(Y) / N	
Conductivity	626.6	3%	(Y) / N	
Temp (deg C)	5.1	3%	(Y) / N	
Dissolved Oxygen	~~3.03~~ 3.15	10%	(Y) / N	
Turbidity	—	~~10%~~	~~Y / N~~	
Oxidation/Reduction	-34.8	±10	(Y) / N	
DTW Stabilized	29.98	feet	(Y) / N	
Final H2O level	29.98	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: 1.44
Actual vol. pumped (gal) ~ 3 gal

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

Weather: 61° 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:
0.3 + 1.14 = 1.44 gal
Use 5 gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley **Date:** 8/6/24
Technician: Trenton Reed **Quarter:** 3
Static Water Level (DTW): 24.95 **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
11:08			6.43	1250	12.4	20.45	147.8	
11:13	24.95	0.00	6.85	1573	10.1	18.15	149.5	
11:18	24.97	0.02	6.96	1624	8.4	20.3	156.2	
11:23	24.97	0.00	7.00	1639	8.3	19.09	161.6	0.1 L/M
11:28	24.97	0.00	7.03	1650	8.0	21.72	168.2	
11:33	24.97	0.00	7.03	1625	8.1	21.62	171.8	
11:38	24.97	0.00	7.02	1621	8.1	21.58	175.5	
Total								
Drawdown								
0.02								

Sample Method: Low Flow **Rate (gpm):** 0.02 **Time Start:** 11:08 **Time End:** 11:38
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.02	±0.1	(Y) / N	
Conductivity	1621	3%	(Y) / N	
Temp (deg C)	8.1	3%	(Y) / N	
Dissolved Oxygen	21.58	10%	(Y) / N	
~~Turbidity~~		~~10%~~	~~Y / N~~	
Oxidation/Reduction	175.5	±10	(Y) / N	
DTW Stabilized	24.97	feet	(Y) / N	
Final H2O level	24.97	feet		

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

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

Weather: 66° Sunny
Signature:

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: Trenton Reed
Static Water Level (DTW):
Is well Dry? NO
If so Dry at: —
Date: 8/20/24
Quarter: 3
Well ID: GVMW-108F
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
10:15	124.25	—	6.79	815	6.2	30.16	89.9	

Sample Method: Low Flow
Rate (gpm): 0.1 * Flow rate at stabilization (during sample collection)
Time Start: 10:15 Time End: 10:15

Final Parameter	Stabilization Guidance		Met?	Comments
pH	6.79	±0.1	(Y) / N	
Conductivity	815	3%	(Y) / N	
Temp (deg C)	6.7	3%	(Y) / N	
Dissolved Oxygen	30.16	10%	(Y) / N	
~~Turbidity~~	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	89.9	±10	(Y) / N	
DTW Stabilized	124.25	feet	(Y) / N	
Final H2O level	124.25	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 gal

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

Weather: 63° 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-8A Duplicate

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 8/20/24
Technician: Trenton Reed
Quarter: 3
Static Water Level (DTW): 124.10
Well ID: GOMW-8A
Well Depth (TD): 250 feet
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:40			7.19	936	5.4	31.28	43.5	
9:45	124.25	0.15	6.98	817	5.6	35.56	42.2	
9:50	124.25	0.00	6.88	813	5.7	30.04	53.0	.38 L/M
9:55	124.25	0.00	6.82	815	5.7	29.02	74.8	
10:00	124.25	0.00	6.81	819	6.1	30.31	85.6	
10:05	124.25	000	6.78	812	6.2	30.32	87.7	
10:15	124.25	0.00	6.79	815	6.2	30.16	89.9	
10:25								
	total							
	Draw Down							
	0.15							

Sample Method: low Flow
Rate (gpm): 0.1 * Flow rate at stabilization (during sample collection)
Time Start: 9:40 Time End: 10:15

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.79	±0.1	(Y) / N	
Conductivity	815	3%	(Y) / N	
Temp (deg C)	6.2	3%	(Y) / N	
Dissolved Oxygen	30.16	10%	(Y) / N	
Turbidity		~~10%~~	~~Y / N~~	
Oxidation/Reduction	89.9	±10	(Y) / N	
DTW Stabilized	124.25	feet	(Y) / N	
Final H2O level	124.25	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 gal

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: submersible dedicated pump

Weather: 63° 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 5gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: Trenton Reed
Static Water Level (DTW): 33 80
Date: 8/20/24
Quarter: 3
Well ID: GVMW-8B
Well Depth (TD): 50'
Is well Dry? NO
If so Dry at: —
feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
2:05			6.67	776	7.8	47.84	131.9	
2:10	34.45	0.65	6.64	787	7.2	57.38	149.0	
2:15	35.00	0.55	6.65	775	7.7	40.86	159.1	0.3 L/m
2:20	35.10	0.10	6.63	775	7.7	39.23	164.6	
2:25	35.15	0.05	6.64	763	7.7	39.47	164.9	
2:30	35.15	0.00	6.63	776	7.7	39.11	165.7	
	total							
	Drawdown							
	1.8							

Sample Method: Low Flow
Rate (gpm): 0.09 * Flow rate at stabilization (during sample collection)
Time Start: 2:05 **Time End:** 2:30

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.63	±0.1	(Y) / N	
Conductivity	776	3%	(Y) / N	
Temp (deg C)	7.7	3%	(Y) / N	
Dissolved Oxygen	39.11	10%	(Y) / N	
~~Turbidity~~	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	165.7	±10	(Y) / N	
DTW Stabilized	35.15	feet	(Y) / N	
Final H2O level	35.15	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: 1.09 Actual vol. pumped (gal): 3 gal

O/G visible: Y / (N)
Equipment Decontaminated: Y / (N)
Turbid? Y / (N)
Decontamination procedure used: Dedicated pump
Weather: 740 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:
0.8 + 0.29 = 1.09 gal
use 5 gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 8/29/24
Technician: T. Reed
Quarter: 3
Static Water Level (DTW): ~~22~~ 219.95
Well ID: GUMW-10
Well Depth (TD): 270
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
9:48			6.71	2645	4.1	31.19	90.1	
9:53	220.0	0.05	6.83	2676	4.2	23.61	78.3	
9:58	220.05	0.05	6.85	2675	3.4	25.42	77.9	~~0.5~~ C/m
10:03	220.05	0.00	6.86	2663	4.3	19.10	80.3	
10:08	220.05	0.00	6.88	2637	4.4	17.69	81.2	
10:13	220.05	0.00	6.89	2624	4.4	17.21	81.4	
10:18	220.05	0.00	6.88	2624	4.5	16.81	81.9	

total Drawdown 0.10

Sample Method: Low Flow **Rate (gpm):** ~~0.~~ 0.13 **Time Start:** 9:48 **Time End:** 10:18
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.88	±0.1	(Y) / N	
Conductivity	2624	3%	(Y) / N	
Temp (deg C)	4.5	3%	(Y) / N	
Dissolved Oxygen	16.81	10%	(Y) / N	
Turbidity	—	~~10%~~	~~Y / N~~	
Oxidation/Reduction	81.9	±10	(Y) / N	
DTW Stabilized	220.05	feet	(Y) / N	
Final H2O level	220.05	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): — Actual vol. pumped (gal) 4.5 gal
** See Field Volume Guide* following stabilization

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

Decontamination procedure used: triple Rinse liquid knox

Weather: 60° overcast

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 5gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Date: 8/20/24
Technician: Trenton Reed
Quarter: 3
Static Water Level (DTW): 91.5
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
11:49			6.45	878	5.7	26.03	13.6	
11:54	91.55	0.05	6.47	782.4	5.3	21.32	-0.3	
11:59	91.60	0.05	6.46	775.3	6.0	18.24	-8.0	0.2 L/m
12:04	91.65	0.05	6.45	775.6	6.1	16.41	-12.0	
12:09	91.70	0.05	6.44	775.8	6.2	15.14	-15.9	
12:14	91.70	0.00	6.44	776.1	6.1	15.26	-16.1	
12:19	91.70	0.00	6.44	777.0	6.1	15.41	-18.1	
	total							
	Drawdown							
	0.2							

Sample Method: low flow **Rate (gpm):** 0.06 **Time Start:** 11:49 **Time End:** 12:19
** Flow rate at stabilization (during sample collection)*

Final Parameter	Stabilization Guidance		Met?	Comments
pH	6.44	±0.1	(Y) / N	
Conductivity	777.0	3%	(Y) / N	
Temp (deg C)	6.1	3%	(Y) / N	
Dissolved Oxyge	15.41	10%	(Y) / N	
Turbidity	—	10%	(Y) / N	
Oxidation/Red uction	-18.1	±10	(Y) / N	
DTW Stabilized	91.70	feet	(Y) / N	
Final H2O level	91.70	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): — Actual vol. pumped (gal) ~2.5 gal
** See Field Volume Guide* following stabilization

O/G visible: Y / (N) Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: Triple Rinse liquid Knox

Weather: 69° 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
Date: 8/29/24
Technician: T. Reed
Quarter: 3
Static Water Level (DTW): 79.68
Well ID: GVMW-15B
Well Depth (TD): 102
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
11:57			4.54	553.8	5.9	39.25	240.6	
12:02	79.87	0.19	4.69	540.4	4.7	23.54	209.3	
12:07	79.87	0.00	4.69	538.8	5.3	17.64	192.4	0.3 L/m
12:12	79.87	0.00	4.67	538.4	5.9	15.81	188.0	
12:17	79.87	0.00	4.66	535.9	5.8	14.86	185.0	
12:22	79.87	0.00	4.66	535.7	5.9	14.66	182.9	
12:27								

Total Drawdown 0.19

Sample Method: Low Flow
Rate (gpm): 0.08 * Flow rate at stabilization (during sample collection)
Time Start: 11:57 Time End: 12:22

Final Parameter	Stabilization Guidance		Met?	Comments
pH	4.66	±0.1	(Y) / N	
Conductivity	535.7	3%	(Y) / N	
Temp (deg C)	5.9	3%	(Y) / N	
Dissolved Oxygen	14.66	10%	(Y) / N	
Turbidity	—	~~10%~~	~~Y / N~~	
Oxidation/Reduction	182.9	±10	(Y) / N	
DTW Stabilized	79.87	feet	(Y) / N	
Final H2O level	79.87	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) 2.5 gal

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

Weather: 62 Partly 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 5gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: Trenton Reed
Static Water Level (DTW): — DRY
Is well Dry? Yes
If so Dry at: 419 feet

Date: 8/20/24
Quarter: 3
Well ID: GVMW-15C
Well Depth (TD): 419

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

Sample Method: —
Rate (gpm): —
** Flow rate at stabilization (during sample collection)*
Time Start: —
Time End: —

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

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

O/G visible: ~~Y / N~~
Equipment Decontaminated: ~~Y / N~~
Turbid? ~~Y / N~~
Decontamination procedure used: 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:** Well is Dry

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley **Date:** 8/5/24
Technician: Trenton Reed **Quarter:** 3
Static Water Level (DTW): 3.22 **Well ID:** GUMW-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
11:00			7.68	672.0	5.4	12.14	122	
11:05	3.78	0.56	7.76	655.0	6.0	9.79	115.3	
11:10	4.12	0.34	7.78	672.0	6.9	7.16	106.4	
11:15	4.25	0.13	7.77	650.9	6.9	6.17	103.7	- 0.1 GPM
11:20	4.30	0.05	7.78	654.5	6.9	6.23	99.2	
11:25	4.30	0.00	7.77	648.2	6.9	6.28	97.1	
11:30	4.30	0.00	7.78	650.3	6.8	6.21	94.3	
	Total							
	Drawdown							
	1.08							

Sample Method: Low Flow **Rate (gpm):** 0.02 **Time Start:** 11:00 **Time End:** 11:30
** Flow rate at stabilization (during sample collection)*

Final Parameter	Stabilization Guidance		Met?	Comments
pH	7.78	±0.1	(Y) / N	
Conductivity	650.3	3%	(Y) / N	
Temp (deg C)	6.8	3%	(Y) / N	
Dissolved Oxygen	6.21	10%	(Y) / N	
~~Turbidity~~	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	94.3	±10	(Y) / N	
DTW Stabilized	4.30	feet	(Y) / N	
Final H2O level	4.30	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: 1.2 Actual vol. pumped (gal): ~3 gal

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

Weather: 71° 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:
0.8 x 0.40 = 1.2 gal
Use 5 gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley **Date:** 8/5/24

Technician: Trenton Rueck **Quarter:** 3

Static Water Level (DTW): 3.95 **Well ID:** GVMW-2213

Is well Dry? NO **If so Dry at:** — **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
11:47			6.87	477.8	7.2	12.16	154.7	
11:52	3.97	0.02	6.76	486.9	6.9	7.41	150.2	
11:57	4.10	0.03	6.75	500.2	4.9	3.99	139.7	0.32 L/m
12:02	4.10	0.00	6.74	494.9	4.8	3.89	135.7	
12:07	4.10	0.00	6.74	493.5	4.8	3.72	132.5	
12:12	4.10	0.00	6.73	493.4	4.9	3.59	130.3	
12:17								
	Total Drawdown 0.05							

Sample Method: Low Flow **Rate (gpm):** 0.08 **Time Start:** 11:47 **Time End:** 12:12

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

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.73	±0.1	(Y) / N	
Conductivity	493.4	3%	(Y) / N	
Temp (deg C)	4.9	3%	(Y) / N	
Dissolved Oxyger	3.59	10%	(Y) / N	
Turbidity		10%	Y / N	
Oxidation/Reduction	130.3	±10	(Y) / N	
DTW Stabilized	4.10	feet	(Y) / N	
Final H2O level	4.10	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)** ~2 gal

O/G visible: Y / (N)

Turbid? Y / (N)

Equipment Decontaminated: (Y) / N

Decontamination procedure used: triple Rinse liquid knox

Weather: Sunny 72°

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: 8/20/24
Technician: T. Reed
Quarter: 3
Static Water Level (DTW): —
Well ID: GVMW-24B
Is well Dry? yes
If so Dry at: 100
Well Depth (TD): 100 **feet**

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

DRY
No sample

Sample Method: —
Rate (gpm): —
* *Flow rate at stabilization (during sample collection)*
Time Start: —
Time End: —

Final Parameters	Stabilization Guidance		Met?	Comments
pH		±0.1	Y / N	
Conductivity		3%	Y / N	
Temp (deg C)		3%	Y / N	
Dissolved 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:

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:
Use Sounder

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Date: 8/28/24
Technician: Trenton Reed
Quarter: 3
Static Water Level (DTW): 47.45
Well ID: GVMW-25
Well Depth (TD): 79
Is well Dry? No
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1:55			3.72	6423	7.7	315.22	338.9	
2:00	47.50	0.05	3.80	6874	5.5	247.85	438.7	
2:05	47.60	0.10	3.78	6775	6.4	222.55	457.9	
2:10	47.60	0.00	3.76	6774	6.9	256.25	470.3	
2:15	47.60	0.00	3.81	6739	6.1	214.34	480.8	
2:20	47.60	0.00	3.83	6759	6.1	211.19	484.2	
2:25	47.60	0.00	3.82	6732	6.2	217.13	489.8	
	total							
	Drawdown							
	0.15							

Sample Method: Low Flow **Rate (gpm):** 0.07 **Time Start:** 1:55 **Time End:** 2:25
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	3.82	±0.1	(Y) / N	
Conductivity	6732	3%	(Y) / N	
Temp (deg C)	6.2	3%	(Y) / N	
Dissolved Oxyger	217.13	10%	(Y) / N	
.Turbidity		10%	Y / N	
Oxidation/Reduction	489.8	±10	(Y) / N	
DTW Stabilized	47.60	feet	(Y) / N	
Final H2O level	47.60	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): — Actual vol. pumped (gal) 2.5 gal
** See Field Volume Guide* following stabilization

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

Weather: 68° 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 5gal Bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 8/5/24
Technician: Trenton Reed
Quarter: 3
Static Water Level (DTW): 6.05
Well ID: CCMW-264
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
8:45	6.1	0.05	7.70	651.1	4.2	11.82	81.8	
8:50	6.2	0.1	7.89	678.9	4.0	11.62	58.7	
8:55	6.25	0.05	7.94	549.2	4.1	8.35	81.6	
9:00	6.40	0.15	7.89	645.4	4.0	5.41	77.2	.75 L/m
9:05	6.60	0.20	7.92	544.8	3.9	3.87	69.2	
9:10	6.65	0.05	7.93	544.4	3.9	3.69	65.9	
9:15	6.70	0.05	7.94	544.7	3.9	3.67	64.0	
		total						
		Drawdown						
		0.65						

Sample Method: Low Flow
Rate (gpm): 0.2 * Flow rate at stabilization (during sample collection)
Time Start: 8:45 Time End: 9:15

Final Parameter	Stabilization Guidance		Met?	Comments
pH	7.94	±0.1	(Y) / N	
Conductivity	544.7	3%	(Y) / N	
Temp (deg C)	3.9	3%	(Y) / N	
Dissolved Oxyger	3.67	10%	(Y) / N	
Turbidity	—	~~10%~~	~~Y / N~~	
Oxidation/Reduction	64.0	±10	(Y) / N	
DTW Stabilized	6.70	feet	(Y) / N	
Final H2O level	6.70	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: 0.91
Actual vol. pumped (gal): ~5 gal

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

Weather: 69° 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:

0.5 + 0.41 = 0.91 gal Use 5gal Bucket

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

Location: Grassy Valley Gumw-12BF **Date:** 8/5/24

Technician: Trenton Reed **Quarter:** 3

Time	pH (S.U.}	Cond. (uS/cm)	Temp. (°C)	ORP
9:15	7.94	544.7	3.9	64.0

Sample Method: Low Flow

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 71° Sunny

Signature:

Comments / Notes:

Dup Gumw -26A

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Technician: Trevton Reed
Static Water Level (DTW): 6.05
Is well Dry? NO
If so Dry at: —
Date: 8/5/24
Quarter: 3
Well ID: GVMW-[redacted]26B
Well Depth (TD): 25 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:57			6.34	255.4	5.9	40.95	179.3	
10:02	6.1	0.05	6.37	247.3	5.4	39.77	175.5	
10:07	6.12	0.02	6.43	236.6	4.7	37.07	173.5	0.3 L/m
10:12	6.12	0.00	6.44	236.0	4.8	37.29	175.4	
10:17	6.12	0.00	6.45	238.4	4.7	37.06	177.6	
10:22	6.12	0.00	6.44	236.4	4.7	36.89	179.5	
	total Drawdown							
	0.07							

Sample Method: Low Flow **Rate (gpm):** 0.08 **Time Start:** 9:57 **Time End:** 10:22
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.44	±0.1	(Y) / N	
Conductivity	236.4	3%	(Y) / N	
Temp (deg C)	4.7	3%	(Y) / N	
Dissolved Oxygen	36.89	10%	(Y) / N	
Turbidity	—	~~10%~~	~~Y~~ / N	
Oxidation/Reduction	179.5	±10	(Y) / N	
DTW Stabilized	6.12	feet	(Y) / N	
Final H2O level	6.12	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) ~2.5 gal

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

Weather: 71° 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: T. Reed
Static Water Level (DTW): —

Date: 8/20/24
Quarter: 3
Well ID: OSABH-12
Well Depth (TD): 39 feet

Is well Dry? Yes **If so Dry at:** 39

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

DRY
No sample

Sample Method: — **Rate (gpm):** — **Time Start:** — **Time End:** —
** Flow rate at stabilization (during sample collection)*

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

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

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

Decontamination procedure used:

Weather:

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 Sonder

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley **Date:** 8/20/24

Technician: T. Reed **Quarter:** 3

Static Water Level (DTW): — **Well ID:** OSABH-14

Is well Dry? Yes **If so Dry at:** 28.7 **Well Depth (TD):** 28.7 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
								DRY No sample

Sample Method: — **Rate (gpm):** — **Time Start:** — **Time End:** —
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH		±0.1	Y / N	
Conductivity		3%	Y / N	
Temp (deg C)		3%	Y / N	
Dissolved 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
Equipment Decontaminated: Y / N — Turbid? Y / N

Decontamination procedure used:

Weather:

Signature:

Volume Calculations:

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

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

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

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

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

Show Calculations:
use sounder

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Technician: T. Reed
Static Water Level (DTW): 34.84
Is well Dry? No
If so Dry at: —

Date: 8/29/24
Quarter: 3
Well ID: ~~GS~~ABH-16
Well Depth (TD): 35.7 feet

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

Insufficient
No Sample

Sample Method: —
Rate (gpm): —
** Flow rate at stabilization (during sample collection)*
Time Start: —
Time End: —

Final Parameters	Stabilization Guidance		Met?	Comments
pH		±0.1	Y / N	
Conductivity		3%	Y / N	
Temp (deg C)		3%	Y / N	
Dissolved 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: —

Weather: 60° Sunny
Signature:

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

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

Show Calculations:

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 8/29/24
Technician: T. Reed Quarter: 3
Static Water Level (DTW): 13.73 Well ID: OSABH-17
Is well Dry? NO If so Dry at: — Well Depth (TD): 30.35 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:05			2.86	16388	5.8	704.86	527.3	
11:10	14.00	0.27	2.90	15470	4.7	581.80	533.4	
11:15	14.00	0.00	2.91	15339	4.5	476.42	538.8	0.3 L/m
11:20	14.00	0.00	2.90	15343	4.4	452.82	539.2	
11:25	14.00	0.00	2.90	15373	4.4	428.78	540.9	
11:30	14.00	0.00	2.90	15351	4.5	415.92	541.0	
11:35								
	total							
	Drawdown							
	0.27							

Sample Method: Low Flow Rate (gpm): 0.08 Time Start: 11:05 Time End: 11:30
* Flow rate at stabilization (during sample collection)

Final Parameters	Stabilization Guidance		Met?	Comments
pH	2.9	±0.1	(Y) / N	
Conductivity	15351	3%	(Y) / N	
Temp (deg C)	4.5	3%	(Y) / N	
Dissolved Oxygen	415.92	10%	(Y) / N	
Turbidity		~~10%~~	Y / N	
Oxidation/Reduction	541.0	±10	(Y) / N	
DTW Stabilized	14.00	feet	(Y) / N	
Final H2O level	14.00	feet		

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

O/G visible: Y / (N) Turbid? (Y) / N
Equipment Decontaminated: (Y) / N
Decontamination procedure used: triple Rinse liquid Knox
Slightly turbid.
Weather: 62° 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 **Date:** 8/20/24

Technician: Trenton Reed **Quarter:** 3

Static Water Level (DTW): — **Well ID:** OSAGH-18

Is well Dry? Yes **If so Dry at:** 51.7 **Well Depth (TD):** 51.7 feet

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

Decontamination procedure used: NA

Weather: NA

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:** well is DRY

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

Location: RB-0805 **Date:** 8/5/24

Technician: Trenton Reed **Quarter:** 3

Time	pH (S.U.}	Cond. (uS/cm)	Temp. (°C)	ORP
9:36	6.39	58.8	20.4	110.8

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 69° Sunny

Signature: TM

Comments / Notes:

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

Location: Seep-1 **Date:** 8/24/24

Technician: TRENTON REED **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
11:52	2.23	17.31	19.8	545	—

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [(Y) N]

Clear [Y / (N)]

Weather: 64° Sunny

Signature: [signature]

Comments / Notes:

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

Location: Seep 2 **Date:** 8/29/24

Technician: T. Reed **Quarter:** 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
9:17	1.97	29.49	11.3	471	—

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [(Y) / N]

Clear [(Y) / N]

Weather: 59° Overcast

Signature:

Comments / Notes:

Newmont
NORTH AMERICA

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Attachment 4

GVMW-25 Historical Graphs