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Newmont
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Cripple Creek & Victor
Gold Mining Company
P.O. Box 191
100 North 3rd Street
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November 28, 2024

SENT VIA EMAIL

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

Re: Monthly Grassy Valley October 2024 Report Submission, October 28, 2024

Dear Mr. Russell,

Newmont Corporation's Cripple Creek & Victor Gold Mining Company (CC&V) hereby provides the Grassy Valley Monthly Monitoring Report, as 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 October 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 October 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 was dry;
- GVMW-29 and GVMW-31 were dry and GVMW-32 had insufficient water to sample;
- OSABH-12, OSABH-14, and OSABH-18 were dry;
- EMP-16, EMP-17, EMP-17A, EMP-17C, and EMP-020 were dry; and
- GV-02 and GV-03 had no observed flowing water.

Groundwater Level Measurements

Prior to the collection of groundwater samples, depth to groundwater was measured using a Geotech™ water level indicator. The water level indicator was decontaminated with Alconox™ soap

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and rinsed with de-ionized water prior to each measurement to prevent cross contamination.

Groundwater Sampling

CC&V utilized both dedicated and deployable pumps to purge water and collect groundwater samples. Samples were collected using either the low-flow, volumetric, or purge and return sampling methods described in the *Quality Assurance Project Plan (QAPP)* dated February 27, 2023.

Groundwater samples were collected by filling both preserved and unpreserved laboratory-supplied sample containers with the appropriate amount of water and then capping to prevent sample degradation. Samples were labeled with date and time of sample collection, sample location, sample identification (ID#), initials of sample collector, whether the sample was filtered, and type of preservative used. Samples were sealed, packed on ice and submitted to SVL Analytical Inc. in Kellogg, Idaho for analysis of parameters listed in Table 3.1 – Groundwater Monitoring Parameters of the QAPP. Proper chain-of custody (COC) procedures were followed as described in Section 9.5 of the QAPP.

Surface Water Sampling

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

QA/QC Samples

CC&V collected three quality assurance/quality control (QA/QC) samples in October 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 October 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 highest concentrations around October, then declining throughout the year.

Trend graphs of various constituents from the GVMW-25 monitoring location, within the property boundaries, are presented in Attachment 4. In general, results at the GVMW-25 location show an increasing trend in concentrations as compared to the September 2024 data. Aluminum, arsenic, beryllium, cadmium, chromium, cobalt, copper, iron, lead, manganese nickel, nitrate, sulfate, and zinc concentrations have increased compared to September 2024. Chloride, fluoride, pH and selenium concentrations decreased slightly compared to September 2024. All other constituents

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remained consistent with the September 2024 results. Ammonia, antimony, cyanide, mercury, molybdenum, silver, thallium, and vanadium concentrations were not detected in the October 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 greater than the Regulation 41 Table Value Standards (TVS - the Basic Standards for Groundwater) for beryllium, cobalt, lead, and sulfate and greater than the existing site-wide Numeric Protection Limit (NPL) for iron. pH values recorded in October 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 this location is also similar to that observed at the surface seep locations.

GVMW-10 sulfate and uranium concentrations were greater than the Regulation 41 TVS. GVMW-8B and GVMW-22A fluoride concentrations were also greater than the TVS. Sulfate concentrations at GVMW-24B were recorded higher than the Reg 41 TVS.

At the deeper well, GVMW-15A, iron concentrations were higher than the existing site-wide NPL. 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 appropriate 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 the dewatering of the well. Samples collected from this well may not be representative of the aquifer conditions.

A sample was collected from GVMW-4A during the October 2024 sampling event, but stabilization of constituents 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 collect a sample and evaluate the water quality from this location.

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

Newly Constructed Monitoring Wells

During the October monitoring event, samples were collected from the newly installed monitoring wells in the Grassy Valley. These wells include GVMW-27, GVMW-28, GVMW-30, GVMW-33, GVMW-34, GVMW-35A, GVMW-35B, GVMW-36, GVMW-37A, and GVMW-37B. Water quality for these wells

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is included in Table 2 as compared to the existing NPL's and TVS. It should be noted that baseline conditions for these wells have not yet been established.

Surface water

Flowing water was observed at the GV-06, GV-4.5 and GV-05 monitoring locations in October 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, GV-4.5, and GV-05 exceeded Regulation 32 standards (Classification and Numeric Standards for Arkansas River Basin) for total iron. GV-06 monitoring location exceeded Regulation 32 standards for phosphorus. GV-4.5 exceeded the Regulation 32 standard for dissolved iron and the recorded pH was outside the specified range.

Stormwater Detention Ponds

All EMP's were dry during the October 2024 monitoring period and therefore no samples were collected.

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

Sincerely,

p.p. DocuSigned by: Joshua Adams 993A53E1E4FF4EC...

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

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Figures

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LEGEND

- MONITORING WELL
- PERMIT BOUNDARY

General Notes

No.	Revision/Issue	Date

Firm Name and Address

Newmont
CRIPPLE CREEK & VICTOR

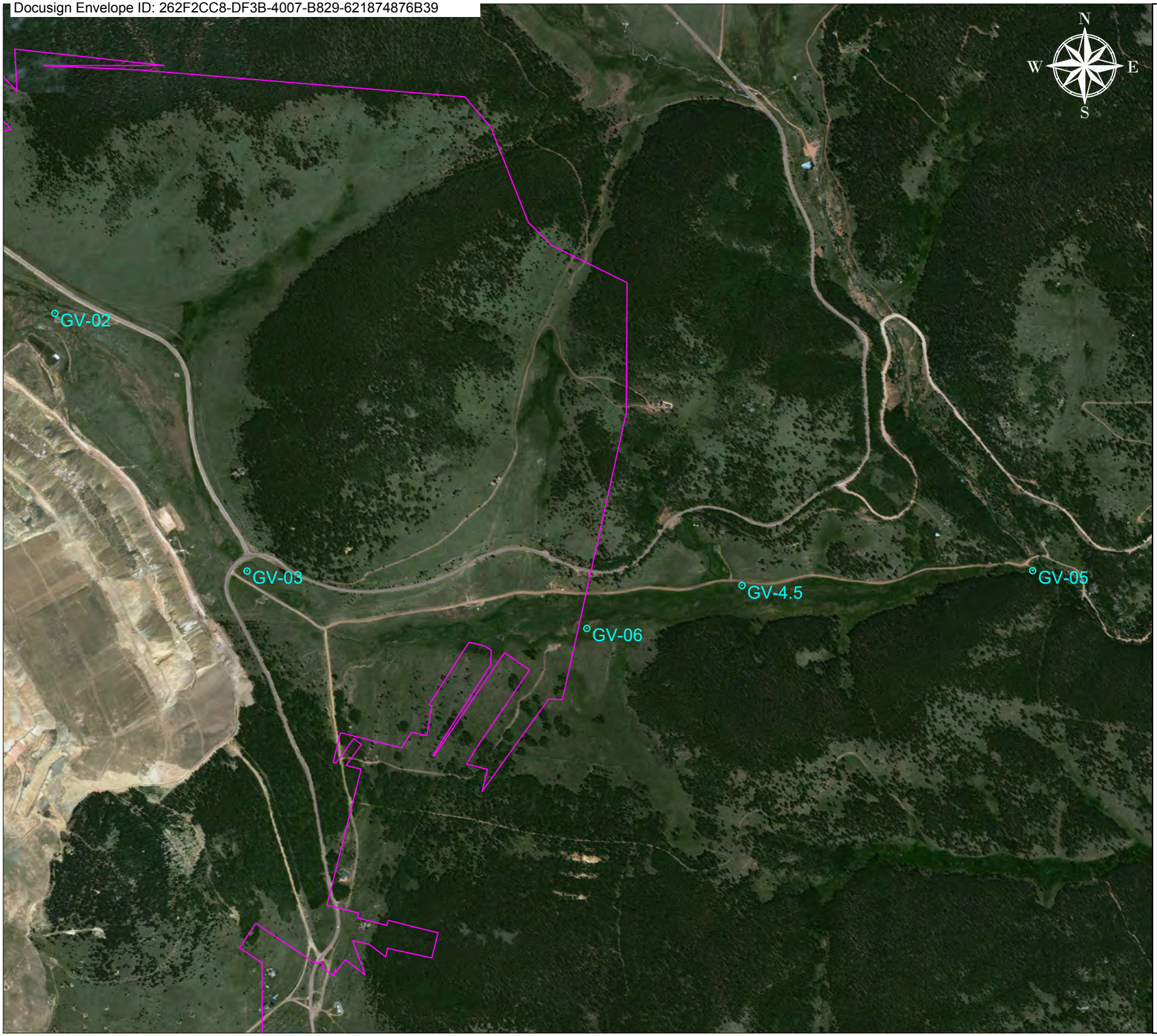
Drawing Name

GRASSY VALLEY
MONITORING WELLS

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

Scale: 0 500 1000 Feet

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39



LEGEND

- SURFACE WATER LOCATION
- PERMIT BOUNDARY

General Notes

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Drawing Name

GRASSY VALLEY
SURFACE WATER MONITORING

Project	Sheet
GRASSY VALLEY GAPP	G2
Date: 10/8/2024	

Scale: 0 700 1400 Feet

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LEGEND

- EMP
- PERMIT BOUNDARY

General Notes

No.	Revision/Issue	Date

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Drawing Name

GRASSY VALLEY
EMP MONITORING

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

Scale: 0 300 600 Feet

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LEGEND

- SEEP LOCATION
- PERMIT BOUNDARY

General Notes

No.	Revision/Issue	Date

Firm Name and Address

Newmont
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Drawing Name

GRASSY VALLEY
ECOSA SEEP MONITORING

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

Scale: 200 400 Feet

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Tables

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

Monitoring Location	Date Monitored	Status
GVMW-4A	10/7/2024	Sampled
GVMW-7A	10/7/2024	Sampled
GVMW-7B	10/7/2024	Sampled
GVMW-8A	10/9/2024	Sampled
GVMW-8B	10/9/2024	Sampled
GVMW-10	10/14/2024	Sampled
GVMW-15A	10/15/2024	Sampled
GVMW-15B	10/15/2024	Sampled
GVMW-15C	10/15/2024	Dry at 419' BTOC
GVMW-22A	10/1/2024	Sampled
GVMW-22B	10/1/2024	Sampled
GVMW-24A	10/14/2024	Not sampled due to sediment laden water causing the pump to overheat; unable to pump well
GVMW-24B	10/14/2024	Sampled
GVMW-25	10/9/2024	Sampled
GMVW-26A	10/1/2024	Sampled
GVMW-26B	10/1/2024	Sampled
GVMW-27	10/10/2024	Sampled
GVMW-28	10/14/2024	Sampled
GVMW-29	10/16/2024	Dry @ 38.38' BTOC
GVMW-30	10/16/2024	Sampled
GVMW-31	10/16/2024	Dry @ 61.82' BTOC
GVMW-32	10/16/2024	NS-IW
GVMW-33	10/16/2024	Sampled
GVMW-34	10/29/2024	Sampled
GVMW-35A	10/14/2024	Sampled
GVMW-35B	10/29/2024	Sampled
GVMW-36	10/29/2024	Sampled
GVMW-37A	10/15/2024	Sampled
GVMW-37B	10/15/2024	Sampled
OSABH-12	10/14/2024	Dry at 39' bgs
OSABH-14	10/9/2024	Dry at 29' bgs
OSABH-16	10/24/2024	Sampled
OSABH-17	10/24/2024	Sampled
OSABH-18	10/15/2024	Dry @ 52' BTOC
Ecosa Seep-1	10/28/2024	Sampled
Ecosa Seep-2	10/28/2024	Sampled
GV-02	10/21/2024	Dry
GV-03	10/21/2024	Dry
GV-06	10/21/2024	Sampled
GV-4.5	10/24/2024	Sampled
GV-05	10/21/2024	Sampled
EMP-016	10/28/2024	Dry
EMP-017	10/28/2024	Dry
EMP-017A	10/28/2024	Dry
EMP-17B	10/28/2024	Dry
EMP-17C	10/28/2024	Dry
EMP-020	10/28/2024	Dry

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

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

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D.	GVMW-4A	GVMW-7A	GVMW-7B	GVMW-8A*	GVMW-8B	GVMW-10	GVMW-15A	GVMW-15B	GVMW-22A	GVMW-22B	GVMW-24B	GVMW-25	GMVW-26A	GVMW-26B
				Sample Date	10/7/2024	10/7/2024	10/7/2024	10/9/2024	10/9/2024	10/14/2024	10/15/2024	10/15/2024	10/1/2024	10/1/2024	10/14/2024	10/9/2024	10/1/2024	10/1/2024
Aluminum - Dissolved	5	**7**	mg/L		<0.080	<0.080	<0.080	<0.080	<0.080	0.167	<0.080	0.526	<0.080	<0.080	0.132	**1,180**	<0.080	<0.080
Ammonia	NA	NA	mg/L		0.033	0.034	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Antimony - Dissolved	**0.006**	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Arsenic - Dissolved	**0.01**	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**0.244**	<0.00100	<0.00100
Barium - Dissolved	**2**	NA	mg/L		0.171	0.165	0.0217	<0.0020	0.0072	0.0136	0.0504	0.0148	0.101	0.0574	0.0123	0.0145	0.192	0.0984
Beryllium - Dissolved	**0.004**	NA	mg/L		<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**0.0302**	<0.00200	<0.00200	<0.00200	**0.715**	<0.00200	<0.00200
Boron - Total	**0.75**	NA	mg/L		<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	0.0416	<0.0400	<0.0400
Cadmium - Dissolved	**0.005**	**0.005**	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0021	<0.0020	<0.0020	0.002	**2.08**	<0.0020	<0.0020
Chloride - Total	**250**	NA	mg/L		4.88	10.3	47.6	61.6	43.4	5.01	1.53	1.08	3.52	8.04	18.7	19	1.26	1.85
Chromium - Dissolved	**0.1**	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	**0.187**	<0.0060	<0.0060
Cobalt - Dissolved	**0.05**	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	0.0086	<0.0060	0.0284	**0.0604**	<0.0060	<0.0060	<0.0060	**2.51**	<0.0060	<0.0060
Copper - Dissolved	**0.2**	**0.2**	mg/L		<0.0100	<0.0100	<0.0100	<0.0100	0.0275	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	**5.17**	<0.0100	<0.0100
Cyanide - Free	**0.2**	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide - Total	NA	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide - WAD	NA	**0.2**	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoride - Total F	**2**	**2**	mg/L		0.125	0.881	0.283	1.9	**2.15**	0.844	0.313	0.4	**2.23**	0.38	1.6	**82.8**	1.94	0.212
Iron - Dissolved	0.3	**14**	mg/L		7.23	1.43	<0.100	<0.100	<0.100	0.123	**31.2**	**20.9**	0.125	<0.100	0.126	**32.7**	<0.100	<0.100
Lead - Dissolved	**0.05**	NA	mg/L		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	**0.0577**	<0.0075	<0.0075	<0.0075	**0.0675**	<0.0075	<0.0075
Lithium - Dissolved	**2.5**	NA	mg/L		<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.263	<0.040	<0.040
Manganese - Dissolved	0.05	**3**	mg/L		1.91	0.252	0.0116	<0.0080	<0.0080	0.985	1.83	1.26	0.249	0.0103	1.08	**296**	0.0119	<0.0080
Mercury - Dissolved	**0.002**	**0.002**	mg/L		<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Molybdenum - Dissolved	**0.21**	NA	mg/L		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	0.0638	<0.0080	<0.0080	0.0096	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080
Nickel - Dissolved	**0.1**	NA	mg/L		<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0345	0.0788	<0.0100	<0.0100	0.0339	**3.23**	<0.0100	<0.0100
Nitrate as Nitrogen	**10**	**10**	mg/L		<0.050	<0.050	0.508	1.19	2.13	0.145	<0.050	<0.050	<0.050	0.379	1.81	3.16	<0.050	0.735
Nitrite + Nitrate as Nitrogen	10	**11**	mg/L		<0.100	<0.100	0.508	1.19	2.13	0.169	<0.100	<0.100	<0.100	0.379	1.81	3.16	<0.100	0.735
Nitrite as Nitrogen	**1**	**1**	mg/L		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.500	<0.050	<0.050
pH Field	6.5-8.5	**6.0-8.5**	pH units		6.51	7.42	6.37	6.91	6.74	7.01	6.5	**4.83**	7.8	6.75		**3.38**	7.87	6.53
Selenium - Dissolved	0.02	**0.024**	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00243	<0.00100	<0.00100	<0.00100	<0.00100	0.0021	0.0183	<0.00100	<0.00100
Silver - Dissolved	**0.05**	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Sodium - Dissolved	NA	NA	mg/L		8.96	9.35	21.3	24.6	25.5	39.5	13.8	12.8	37.2	19.9	22.1	42.6	31.2	9.67
Sulfate - Total	**250**	NA	mg/L		60.8	22.5	248	61	88.1	**1,590**	189	**270**	32.1	81.4	**1,780**	**10,700**	15	20.5
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	<0.00100	<0.000200	<0.000200
Total Dissolved Solids	NA	NA	mg/L		190	221	498	264	274	3,500	282	372	205	193	2,460	13,900	187	78
Uranium - Dissolved	**0.03**	NA	mg/L		<0.000100	0.00416	0.000244	0.00475	0.0026	**0.0726**	0.000189	0.00163	0.00383	0.000804	0.0177	**3.81**	0.00333	0.000133
Vanadium - Dissolved	**0.1**	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zinc - Dissolved	**2**	**2**	mg/L		0.0193	0.0106	<0.0100	<0.0100	<0.0100	0.0962	0.291	1.28	<0.0100	<0.0100	0.0585	**85.5**	<0.0100	<0.0100

Notes:

Applicable Standard vs. Non-applicable standard
* NPL of 1.0 mg/L for manganese and 6.5-8.5 for pH applies to GVMW-8A
Result below laboratory detection limit
BOLD - greater than applicable standard
< - less than
mg/L - milligrams per liter
NPL - Numeric Protection Limit
NS- Not sampled
TVS - table value standard

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

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D.	GVMW-27	GVMW-28	GVMW-30	GVMW-33	GVMW-34	GVMW-35A	GVMW-35B	GVMW-36	GVMW-37A	GVMW-37B	OSABH-17	OSABH-16	Seep-1	Seep-2
				Sample Date	10/10/2024	10/14/2024	10/16/2024	10/16/2024	10/29/2024	10/14/2024	10/29/2024	10/29/2024	10/15/2024	10/15/2024	10/24/2024	10/24/2024	10/28/2024	10/28/2024
Aluminum - Dissolved	5	**7**	mg/L		**451**	**2,060**	**341**	**946**	**9**	<0.080	<0.080	**911**	<0.080	0.101	**4,370**	**2,320**	**3,440**	**9,020**
Ammonia	NA	NA	mg/L		0.231	0.112	<0.030	0.777	<0.030	<0.030	0.142	0.123	<0.030	<0.030	<0.030	0.077	<3.00	3.8
Antimony - Dissolved	**0.006**	NA	mg/L		<0.00100	<0.0200	<0.00500	<0.00500	<0.00100	0.00247	0.00204	<0.00100	0.002	<0.00100	<0.500	<0.0500	<0.500	<1.00
Arsenic - Dissolved	**0.01**	NA	mg/L		**0.137**	<0.400	**0.0702**	**0.481**	<0.00100	0.00732	<0.00100	**0.0758**	0.00148	<0.00100	<0.500	<0.500	<0.500	**8.82**
Barium - Dissolved	**2**	NA	mg/L		0.0197	0.012	0.0196	0.0261	0.0333	0.0286	0.026	0.0224	0.112	0.0964	<0.0200	0.0245	<0.0200	0.0588
Beryllium - Dissolved	**0.004**	NA	mg/L		**0.258**	**0.948**	**0.601**	**0.918**	**0.0096**	<0.00200	<0.00200	**0.216**	<0.00200	<0.00200	**0.718**	**0.841**	**0.495**	**0.778**
Boron - Total	**0.75**	NA	mg/L		<0.0400	<0.200	<0.0400	0.0519	0.043	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.400	<0.400	<0.400	<0.800
Cadmium - Dissolved	**0.005**	**0.005**	mg/L		**1.19**	**3.83**	**0.249**	**2**	**0.0376**	<0.0020	<0.0020	**2.07**	<0.0020	<0.0020	**9.21**	**10**	**10.1**	**42.6**
Chloride - Total	**250**	NA	mg/L		38.4	5.18	3.15	6.87	29.3	15.3	79	8.16	4.36	4.24	15.8	<10.0	<10.0	<20.0
Chromium - Dissolved	**0.1**	NA	mg/L		**0.114**	**0.726**	**0.123**	0.0192	<0.0060	<0.0060	<0.0060	**0.222**	<0.0060	<0.0060	**1.3**	**0.474**	**0.525**	**1.95**
Cobalt - Dissolved	**0.05**	NA	mg/L		**1.42**	**4.24**	**0.358**	**1.75**	0.0342	<0.0060	<0.0060	**4.02**	<0.0060	<0.0060	**19.5**	**7.48**	**10.2**	**26.5**
Copper - Dissolved	**0.2**	**0.2**	mg/L		**1.56**	**12**	**0.230**	**3.31**	<0.0100	<0.0100	<0.0100	**4.71**	<0.0100	<0.0100	**19.7**	**16.1**	**18.8**	**99.8**
Cyanide - Free	**0.2**	NA	mg/L		<0.0500	<0.0500	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500	<0.0050	<0.0050
Cyanide - Total	NA	NA	mg/L		<0.0050	0.0064	<0.0050	0.0055	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0302	<0.0050	0.0233	0.0254
Cyanide - WAD	NA	**0.2**	mg/L		<0.0050	<0.0500	<0.0050	<0.0250	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500	<0.0500	<0.0500	<0.0500
Fluoride - Total F	**2**	**2**	mg/L		**46.8**	**133**	**52.3**	**108**	**18.1**	0.228	<0.100	**105**	1.39	**2.03**	**519**	**341**	**250**	**1,480**
Iron - Dissolved	0.3	**14**	mg/L		**74.3**	**407**	4.06	**39.9**	<0.100	<0.100	<0.100	**55.7**	<0.100	<0.100	**821**	**664**	**681**	**6,600**
Lead - Dissolved	**0.05**	NA	mg/L		0.023	0.0446	0.0319	**0.09**	<0.0075	<0.0075	<0.0075	**0.0712**	<0.0075	<0.0075	<0.0750	<0.0750	<0.0750	<0.150
Lithium - Dissolved	**2.5**	NA	mg/L		0.143	0.551	0.233	0.259	0.151	<0.040	<0.040	0.214	<0.040	<0.040	0.905	<0.400	<0.400	1.12
Manganese - Dissolved	0.05	**3**	mg/L		**172**	**440**	**59.4**	**328**	**52.8**	0.241	0.953	**226**	0.265	0.417	**1,380**	**1,650**	**960**	**3,280**
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	0.000265	<0.000200	<0.000200	0.000495
Molybdenum - Dissolved	**0.21**	NA	mg/L		<0.0080	<0.0400	<0.0080	<0.0080	<0.0080	0.0103	0.0107	0.0161	0.0237	0.011	0.0838	<0.0800	<0.0800	**0.366**
Nickel - Dissolved	**0.1**	NA	mg/L		**1.69**	**5.33**	**1.48**	**2.75**	**0.26**	<0.0100	<0.0100	**3.54**	<0.0100	<0.0100	**14.8**	**5.18**	**7.39**	**15.8**
Nitrate as Nitrogen	**10**	**10**	mg/L		1.56	5.43	1.46	4.77	**10.7**	<0.050	9.9	1.77	0.072	0.885	<2.50	<2.50	6.32	<5.00
Nitrite + Nitrate as Nitrogen	10	**11**	mg/L		1.56	5.43	1.46	4.77	10.8	<0.100	9.96	1.77	0.107	0.965	<5.00	<5.00	6.32	<10.0
Nitrite as Nitrogen	**1**	**1**	mg/L		<0.250	<1.25	<0.250	<0.500	<0.250	<0.050	0.065	<0.500	<0.050	0.08	<2.50	<2.50	<2.50	<5.00
pH Field	6.5-8.5	**6.0-8.5**	pH units		**4.33**	**2.76**	**3.44**	**3.3**	**5.8**		7.36	**3.35**	8.44		**2.64**	**2.6**	**2.21**	**2.01**
Selenium - Dissolved	0.02	**0.024**	mg/L		0.0169	<0.400	0.00569	**0.0381**	0.0126	<0.00100	0.0037	0.0162	<0.00100	0.00124	<0.500	<0.500	<0.500	<1.00
Silver - Dissolved	**0.05**	NA	mg/L		0.0068	<0.0250	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500	<0.0500	<0.0500	<0.100
Sodium - Dissolved	NA	NA	mg/L		225	36.1	47.2	201	48.7	18.4	18.1	44.3	35	31.6	11.8	26.5	47.7	36
Sulfate - Total	**250**	NA	mg/L		**6,070**	**18,200**	**4,670**	**9,800**	**2,640**	**518**	**1,190**	**9,430**	**273**	145	**36,500**	**20,400**	**27,000**	**75,400**
Thallium - Dissolved	**0.002**	NA	mg/L		<0.00100	<0.00400	<0.00100	<0.00100	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.100	<0.100	<0.100	<0.200
Total Dissolved Solids	NA	NA	mg/L		7,730	23,900	1,540	1,300	3,820	949	1,880	12,800	527	302	52,100	28,900	37,000	109,000
Uranium - Dissolved	**0.03**	NA	mg/L		**1.85**	**5.27**	**0.908**	**3.95**	0.0218	0.0202	0.00344	**5.23**	0.00551	0.00293	**17.8**	**22.3**	**10.9**	**63.2**
Vanadium - Dissolved	**0.1**	NA	mg/L		0.036	0.0994	<0.0050	0.0269	<0.0050	<0.0050	<0.0050	0.0059	<0.0050	<0.0050	0.0831	0.0779	<0.0500	**0.918**
Zinc - Dissolved	**2**	**2**	mg/L		**41**	**165**	**5.53**	**46.5**	**5.37**	0.104	0.0173	**88.1**	<0.0100	0.015	**323**	**345**	**172**	**1,700**

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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Newmont
NORTH AMERICA

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Attachment 1

Laboratory Analytical Reports

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09**
Post Office Box 191	Work Order: **X4J0074**
Victor, CO 80860	Reported: 18-Oct-24 13:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-26A	X4J0074-01	Ground Water	01-Oct-24 09:03	JC	03-Oct-2024	
GVMW-26B	X4J0074-02	Ground Water	01-Oct-24 09:51	JC	03-Oct-2024	
GVMW-22A	X4J0074-03	Ground Water	01-Oct-24 11:25	JR	03-Oct-2024	
GVMW-22B	X4J0074-04	Ground Water	01-Oct-24 12:10	JC	03-Oct-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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0074

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 / 2024-09
Work Order: **X4J0074**
Reported: 18-Oct-24 13:58

Client Sample ID: **GVMW-26A**
SVL Sample ID: **X4J0074-01 (Ground Water)**

Sampled: 01-Oct-24 09:03
Received: 03-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	29.6	mg/L	0.100	0.069		X440200	SJN	10/08/24 18:54	
EPA 200.7	**Magnesium**	6.96	mg/L	0.500	0.090		X440200	SJN	10/08/24 18:54	
EPA 200.7	**Potassium**	1.12	mg/L	0.50	0.18		X440200	SJN	10/08/24 18:54	
SM 2340 B	**Hardness (as CaCO3)**	100	mg/L	2.31	0.543		N/A		10/08/24 18:54	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X441053	SJN	10/08/24 16:33	
EPA 200.7	**Barium**	0.192	mg/L	0.0020	0.0019		X441053	SJN	10/08/24 16:33	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X441053	SJN	10/08/24 16:33	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X441053	SJN	10/08/24 16:33	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X441053	SJN	10/08/24 16:33	
EPA 200.7	**Calcium**	29.1	mg/L	0.100	0.069		X441053	SJN	10/08/24 16:33	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X441053	SJN	10/08/24 16:33	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X441053	SJN	10/08/24 16:33	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X441053	SJN	10/08/24 16:33	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X441053	SJN	10/08/24 16:33	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X441053	SJN	10/08/24 16:33	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X441053	SJN	10/08/24 16:33	
EPA 200.7	**Magnesium**	6.75	mg/L	0.500	0.090		X441053	SJN	10/08/24 16:33	
EPA 200.7	**Manganese**	0.0119	mg/L	0.0080	0.0034		X441053	SJN	10/08/24 16:33	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X441053	SJN	10/08/24 16:33	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X441053	SJN	10/08/24 16:33	
EPA 200.7	**Potassium**	0.95	mg/L	0.50	0.18		X441053	SJN	10/08/24 16:33	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X441053	SJN	10/08/24 16:33	
EPA 200.7	**Sodium**	31.2	mg/L	0.50	0.12		X441053	SJN	10/08/24 16:33	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X441053	SJN	10/08/24 16:33	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X441053	SJN	10/08/24 16:33	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X441013	SMU	10/18/24 09:13	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X441013	SMU	10/18/24 09:13	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X441013	SMU	10/18/24 09:13	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X441013	SMU	10/18/24 09:13	
EPA 200.8	**Uranium**	0.00333	mg/L	0.000100	0.000052		X441013	SMU	10/18/24 09:13	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X440214	MAC	10/11/24 16:57	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X441169	DD	10/10/24 19:59	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X441028	DD	10/08/24 11:36	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X441097	DD	10/09/24 17:04	M1
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X441036	DD	10/07/24 15:22	
SM 2310 B	**Acidity to pH 8.3**	-149	mg/L as CaCO3	10.0			X441194	MWD	10/11/24 12:59	
SM 2320 B	**Total Alkalinity**	155	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:16	
SM 2320 B	**Bicarbonate**	155	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:16	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:16	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:16	
SM 2540 C	**Total Diss. Solids**	187	mg/L	10			X440176	TJL	10/07/24 12:35	
SM 2540 D	**Total Susp. Solids**	7.0	mg/L	5.0			X440177	TJL	10/07/24 12:15	
SM 4500 H B	**pH @16.7°C**	7.9	pH Units				X441107	MWD	10/10/24 10:16	H5

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0074**
Reported: 18-Oct-24 13:58

Client Sample ID: **GVMW-26A**
SVL Sample ID: **X4J0074-01 (Ground Water)**

Sampled: 01-Oct-24 09:03
Received: 03-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.26	mg/L	0.20	0.02		X440166	RS	10/03/24 12:22	
EPA 300.0	**Fluoride**	1.94	mg/L	0.100	0.017		X440166	RS	10/03/24 12:22	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X440166	RS	10/03/24 12:22	H3
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X440166	RS	10/03/24 12:22	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X440166	RS	10/03/24 12:22	H3
EPA 300.0	**Sulfate as SO4**	15.0	mg/L	0.30	0.18		X440166	RS	10/03/24 12:22	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.41 meq/L Anion Sum: 3.55 meq/L C/A Balance: -2.08 % Calculated TDS: 180 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 / 2024-09
Work Order: **X4J0074**
Reported: 18-Oct-24 13:58

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X4J0074-02 (Ground Water)**

Sampled: 01-Oct-24 09:51
Received: 03-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	10.5	mg/L	0.100	0.069		X440200	SJN	10/08/24 18:58	
EPA 200.7	**Magnesium**	2.22	mg/L	0.500	0.090		X440200	SJN	10/08/24 18:58	
EPA 200.7	**Potassium**	0.96	mg/L	0.50	0.18		X440200	SJN	10/08/24 18:58	
SM 2340 B	**Hardness (as CaCO3)**	35.3	mg/L	2.31	0.543		N/A		10/08/24 16:36	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X441053	SJN	10/08/24 16:36	
EPA 200.7	**Barium**	0.0984	mg/L	0.0020	0.0019		X441053	SJN	10/08/24 16:36	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X441053	SJN	10/08/24 16:36	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X441053	SJN	10/08/24 16:36	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X441053	SJN	10/08/24 16:36	
EPA 200.7	**Calcium**	10.1	mg/L	0.100	0.069		X441053	SJN	10/08/24 16:36	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X441053	SJN	10/08/24 16:36	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X441053	SJN	10/08/24 16:36	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X441053	SJN	10/08/24 16:36	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X441053	SJN	10/08/24 16:36	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X441053	SJN	10/08/24 16:36	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X441053	SJN	10/08/24 16:36	
EPA 200.7	**Magnesium**	2.10	mg/L	0.500	0.090		X441053	SJN	10/08/24 16:36	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X441053	SJN	10/08/24 16:36	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X441053	SJN	10/08/24 16:36	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X441053	SJN	10/08/24 16:36	
EPA 200.7	**Potassium**	0.84	mg/L	0.50	0.18		X441053	SJN	10/08/24 16:36	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X441053	SJN	10/08/24 16:36	
EPA 200.7	**Sodium**	9.67	mg/L	0.50	0.12		X441053	SJN	10/08/24 16:36	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X441053	SJN	10/08/24 16:36	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X441053	SJN	10/08/24 16:36	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X441013	SMU	10/18/24 09:20	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X441013	SMU	10/18/24 09:20	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X441013	SMU	10/18/24 09:20	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X441013	SMU	10/18/24 09:20	
EPA 200.8	**Uranium**	0.000133	mg/L	0.000100	0.000052		X441013	SMU	10/18/24 09:20	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X440214	MAC	10/11/24 16:59	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X441169	DD	10/10/24 20:01	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X441028	DD	10/08/24 13:49	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X441097	DD	10/09/24 17:07	M1
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X441036	DD	10/07/24 15:24	
SM 2310 B	**Acidity to pH 8.3**	-30.0	mg/L as CaCO3	10.0			X441194	MWD	10/11/24 12:59	
SM 2320 B	**Total Alkalinity**	33.4	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:22	
SM 2320 B	**Bicarbonate**	33.4	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:22	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:22	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:22	
SM 2540 C	**Total Diss. Solids**	78	mg/L	10			X440176	TJL	10/07/24 12:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X440177	TJL	10/07/24 12:15	
SM 4500 H B	**pH @17.2°C**	6.7	pH Units				X441107	MWD	10/10/24 10:22	H5

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

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

Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0074**
Reported: 18-Oct-24 13:58

Client Sample ID: **GVMW-26B**
SVL Sample ID: **X4J0074-02 (Ground Water)**

Sampled: 01-Oct-24 09:51
Received: 03-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.85	mg/L	0.20	0.02		X440166	RS	10/03/24 12:53	
EPA 300.0	**Fluoride**	0.212	mg/L	0.100	0.017		X440166	RS	10/03/24 12:53	
EPA 300.0	**Nitrate as N**	0.735	mg/L	0.050	0.013		X440166	RS	10/03/24 12:53	H3
EPA 300.0	**Nitrate+Nitrite as N**	0.735	mg/L	0.100	0.044		X440166	RS	10/03/24 12:53	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X440166	RS	10/03/24 12:53	H3
EPA 300.0	**Sulfate as SO4**	20.5	mg/L	0.30	0.18		X440166	RS	10/03/24 12:53	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 1.13 meq/L Anion Sum: 1.21 meq/L C/A Balance: -3.27 % Calculated TDS: 69 TDS/cTDS: 1.13

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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0074**
Reported: 18-Oct-24 13:58

Client Sample ID: **GVMW-22A**
SVL Sample ID: **X4J0074-03 (Ground Water)**

Sampled: 01-Oct-24 11:25
Received: 03-Oct-24
Sampled By: JR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	28.8	mg/L	0.100	0.069		X440200	SJN	10/08/24 19:02	
EPA 200.7	**Magnesium**	11.9	mg/L	0.500	0.090		X440200	SJN	10/08/24 19:02	
EPA 200.7	**Potassium**	1.38	mg/L	0.50	0.18		X440200	SJN	10/08/24 19:02	
SM 2340 B	**Hardness (as CaCO3)**	121	mg/L	2.31	0.543		N/A		10/08/24 16:40	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X441053	SJN	10/08/24 16:40	
EPA 200.7	**Barium**	0.101	mg/L	0.0020	0.0019		X441053	SJN	10/08/24 16:40	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X441053	SJN	10/08/24 16:40	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X441053	SJN	10/08/24 16:40	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X441053	SJN	10/08/24 16:40	
EPA 200.7	**Calcium**	28.2	mg/L	0.100	0.069		X441053	SJN	10/08/24 16:40	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X441053	SJN	10/08/24 16:40	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X441053	SJN	10/08/24 16:40	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X441053	SJN	10/08/24 16:40	
EPA 200.7	**Iron**	0.125	mg/L	0.100	0.056		X441053	SJN	10/08/24 16:40	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X441053	SJN	10/08/24 16:40	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X441053	SJN	10/08/24 16:40	
EPA 200.7	**Magnesium**	11.5	mg/L	0.500	0.090		X441053	SJN	10/08/24 16:40	
EPA 200.7	**Manganese**	0.249	mg/L	0.0080	0.0034		X441053	SJN	10/08/24 16:40	
EPA 200.7	**Molybdenum**	0.0096	mg/L	0.0080	0.0034		X441053	SJN	10/08/24 16:40	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X441053	SJN	10/08/24 16:40	
EPA 200.7	**Potassium**	1.26	mg/L	0.50	0.18		X441053	SJN	10/08/24 16:40	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X441053	SJN	10/08/24 16:40	
EPA 200.7	**Sodium**	37.2	mg/L	0.50	0.12		X441053	SJN	10/08/24 16:40	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X441053	SJN	10/08/24 16:40	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X441053	SJN	10/08/24 16:40	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X441013	SMU	10/18/24 09:23	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X441013	SMU	10/18/24 09:23	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X441013	SMU	10/18/24 09:23	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X441013	SMU	10/18/24 09:23	
EPA 200.8	**Uranium**	0.00383	mg/L	0.000100	0.000052		X441013	SMU	10/18/24 09:23	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X440214	MAC	10/11/24 17:06	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X441169	DD	10/10/24 20:03	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X441028	DD	10/08/24 13:50	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X441097	DD	10/09/24 17:09	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X441036	DD	10/07/24 15:32	
SM 2310 B	**Acidity to pH 8.3**	-149	mg/L as CaCO3	10.0			X441194	MWD	10/11/24 12:59	
SM 2320 B	**Total Alkalinity**	160	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:37	
SM 2320 B	**Bicarbonate**	160	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:37	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:37	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:37	
SM 2540 C	**Total Diss. Solids**	205	mg/L	10			X440176	TJL	10/07/24 12:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X440177	TJL	10/07/24 12:15	
SM 4500 H B	**pH @18.1°C**	7.8	pH Units				X441107	MWD	10/10/24 10:37	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 / 2024-09
Work Order: **X4J0074**
Reported: 18-Oct-24 13:58

Client Sample ID: **GVMW-22A**
SVL Sample ID: **X4J0074-03 (Ground Water)**

Sampled: 01-Oct-24 11:25
Received: 03-Oct-24
Sampled By: JR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	3.52	mg/L	0.20	0.02		X440166	RS	10/03/24 14:13	
EPA 300.0	**Fluoride**	2.23	mg/L	0.100	0.017		X440166	RS	10/03/24 14:13	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X440166	RS	10/03/24 14:13	H3
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X440166	RS	10/03/24 14:13	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X440166	RS	10/03/24 14:13	H3
EPA 300.0	**Sulfate as SO4**	32.1	mg/L	0.30	0.18		X440166	RS	10/03/24 14:13	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 4.03 meq/L Anion Sum: 4.09 meq/L C/A Balance: -0.68 % Calculated TDS: 213 TDS/cTDS: 0.96

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

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0074**
Reported: 18-Oct-24 13:58

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X4J0074-04 (Ground Water)**

Sampled: 01-Oct-24 12:10
Received: 03-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	33.7	mg/L	0.100	0.069		X440200	SJN	10/08/24 19:06	
EPA 200.7	**Magnesium**	9.21	mg/L	0.500	0.090		X440200	SJN	10/08/24 19:06	
EPA 200.7	**Potassium**	1.61	mg/L	0.50	0.18		X440200	SJN	10/08/24 19:06	
SM 2340 B	**Hardness (as CaCO3)**	120	mg/L	2.31	0.543		N/A		10/08/24 19:06	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X441053	SJN	10/08/24 16:44	
EPA 200.7	**Barium**	0.0574	mg/L	0.0020	0.0019		X441053	SJN	10/08/24 16:44	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X441053	SJN	10/08/24 16:44	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X441053	SJN	10/08/24 16:44	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X441053	SJN	10/08/24 16:44	
EPA 200.7	**Calcium**	32.3	mg/L	0.100	0.069		X441053	SJN	10/08/24 16:44	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X441053	SJN	10/08/24 16:44	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X441053	SJN	10/08/24 16:44	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X441053	SJN	10/08/24 16:44	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X441053	SJN	10/08/24 16:44	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X441053	SJN	10/08/24 16:44	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X441053	SJN	10/08/24 16:44	
EPA 200.7	**Magnesium**	8.78	mg/L	0.500	0.090		X441053	SJN	10/08/24 16:44	
EPA 200.7	**Manganese**	0.0103	mg/L	0.0080	0.0034		X441053	SJN	10/08/24 16:44	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X441053	SJN	10/08/24 16:44	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X441053	SJN	10/08/24 16:44	
EPA 200.7	**Potassium**	1.59	mg/L	0.50	0.18		X441053	SJN	10/08/24 16:44	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X441053	SJN	10/08/24 16:44	
EPA 200.7	**Sodium**	19.9	mg/L	0.50	0.12		X441053	SJN	10/08/24 16:44	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X441053	SJN	10/08/24 16:44	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X441053	SJN	10/08/24 16:44	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X441013	SMU	10/18/24 09:25	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X441013	SMU	10/18/24 09:25	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X441013	SMU	10/18/24 09:25	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X441013	SMU	10/18/24 09:25	
EPA 200.8	**Uranium**	0.000804	mg/L	0.000100	0.000052		X441013	SMU	10/18/24 09:25	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X440214	MAC	10/11/24 17:08	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X441169	DD	10/10/24 20:05	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X441028	DD	10/08/24 13:53	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X441097	DD	10/09/24 17:11	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X441036	DD	10/07/24 15:34	
SM 2310 B	**Acidity to pH 8.3**	-74.8	mg/L as CaCO3	10.0			X441194	MWD	10/11/24 12:59	
SM 2320 B	**Total Alkalinity**	72.5	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:43	
SM 2320 B	**Bicarbonate**	72.5	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:43	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:43	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 10:43	
SM 2540 C	**Total Diss. Solids**	193	mg/L	10			X440176	TJL	10/07/24 12:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X440177	TJL	10/07/24 12:15	
SM 4500 H B	**pH @18.1°C**	6.9	pH Units				X441107	MWD	10/10/24 10:43	H5

SVL holds the following certifications:
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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0074**
Reported: 18-Oct-24 13:58

Client Sample ID: **GVMW-22B**
SVL Sample ID: **X4J0074-04 (Ground Water)**

Sampled: 01-Oct-24 12:10
Received: 03-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.04	mg/L	0.20	0.02		X440166	RS	10/03/24 11:09	
EPA 300.0	**Fluoride**	0.380	mg/L	0.100	0.017		X440166	RS	10/03/24 11:09	
EPA 300.0	**Nitrate as N**	0.379	mg/L	0.050	0.013		X440166	RS	10/03/24 11:09	
EPA 300.0	**Nitrate+Nitrite as N**	0.379	mg/L	0.100	0.044		X440166	RS	10/03/24 11:09	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X440166	RS	10/03/24 11:09	
EPA 300.0	**Sulfate as SO4**	81.4	mg/L	3.00	1.80	10	X440166	RS	10/03/24 11:34	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.25 meq/L Anion Sum: 3.42 meq/L C/A Balance: -2.44 % Calculated TDS: 198 TDS/cTDS: 0.97

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 / 2024-09
Work Order: **X4J0074**
Reported: 18-Oct-24 13:58

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X440200	08-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X440200	08-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X440200	08-Oct-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X441053	08-Oct-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X441053	08-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X441053	08-Oct-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X441053	08-Oct-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X441053	08-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X441053	08-Oct-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X441053	08-Oct-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X441053	08-Oct-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X441053	08-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X441053	08-Oct-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X441053	08-Oct-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X441053	08-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X441053	08-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X441053	08-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X441053	08-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X441053	08-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X441053	08-Oct-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X441053	08-Oct-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X441053	08-Oct-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X441053	08-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X441053	08-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X441013	18-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X441013	18-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X441013	18-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X441013	18-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X441013	18-Oct-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X440214	11-Oct-24	
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X440214	11-Oct-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X441169	10-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X441028	08-Oct-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X441097	09-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X441036	07-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X441194	11-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X441107	10-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X441107	10-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X441107	10-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X441107	10-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X440176	07-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X440177	07-Oct-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X440166	03-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X440166	03-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X440166	03-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X440166	03-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X440166	03-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X440166	03-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0074**
Reported: 18-Oct-24 13:58

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.6	20.0	98	85 - 115	X440200	08-Oct-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.5	85 - 115	X440200	08-Oct-24	
EPA 200.7	Potassium	mg/L	19.8	20.0	99.1	85 - 115	X440200	08-Oct-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.960	1.00	96.0	85 - 115	X441053	08-Oct-24	
EPA 200.7	Barium	mg/L	0.987	1.00	98.7	85 - 115	X441053	08-Oct-24	
EPA 200.7	Beryllium	mg/L	1.01	1.00	101	85 - 115	X441053	08-Oct-24	
EPA 200.7	Boron	mg/L	0.980	1.00	98.0	85 - 115	X441053	08-Oct-24	
EPA 200.7	Cadmium	mg/L	0.992	1.00	99.2	85 - 115	X441053	08-Oct-24	
EPA 200.7	Calcium	mg/L	19.5	20.0	97.6	85 - 115	X441053	08-Oct-24	
EPA 200.7	Chromium	mg/L	0.995	1.00	99.5	85 - 115	X441053	08-Oct-24	
EPA 200.7	Cobalt	mg/L	0.980	1.00	98.0	85 - 115	X441053	08-Oct-24	
EPA 200.7	Copper	mg/L	0.981	1.00	98.1	85 - 115	X441053	08-Oct-24	
EPA 200.7	Iron	mg/L	9.93	10.0	99.3	85 - 115	X441053	08-Oct-24	
EPA 200.7	Lead	mg/L	0.990	1.00	99.0	85 - 115	X441053	08-Oct-24	
EPA 200.7	Lithium	mg/L	0.950	1.00	95.0	85 - 115	X441053	08-Oct-24	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.4	85 - 115	X441053	08-Oct-24	
EPA 200.7	Manganese	mg/L	0.969	1.00	96.9	85 - 115	X441053	08-Oct-24	
EPA 200.7	Molybdenum	mg/L	1.01	1.00	101	85 - 115	X441053	08-Oct-24	
EPA 200.7	Nickel	mg/L	0.981	1.00	98.1	85 - 115	X441053	08-Oct-24	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.7	85 - 115	X441053	08-Oct-24	
EPA 200.7	Silver	mg/L	0.0501	0.0500	100	85 - 115	X441053	08-Oct-24	
EPA 200.7	Sodium	mg/L	18.8	19.0	98.7	85 - 115	X441053	08-Oct-24	
EPA 200.7	Vanadium	mg/L	0.999	1.00	99.9	85 - 115	X441053	08-Oct-24	
EPA 200.7	Zinc	mg/L	0.989	1.00	98.9	85 - 115	X441053	08-Oct-24	
EPA 200.8	Antimony	mg/L	0.0242	0.0250	96.8	85 - 115	X441013	18-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0248	0.0250	99.2	85 - 115	X441013	18-Oct-24	
EPA 200.8	Selenium	mg/L	0.0247	0.0250	98.9	85 - 115	X441013	18-Oct-24	
EPA 200.8	Thallium	mg/L	0.0250	0.0250	99.9	85 - 115	X441013	18-Oct-24	
EPA 200.8	Uranium	mg/L	0.0261	0.0250	104	85 - 115	X441013	18-Oct-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00200	0.00200	99.8	85 - 115	X440214	11-Oct-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.100	103	90 - 110	X441169	10-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.0976	0.100	97.6	90 - 110	X441028	08-Oct-24	
EPA 350.1	Ammonia as N	mg/L	0.975	1.00	97.5	90 - 110	X441097	09-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X441036	07-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	881	884	99.6	95.4 - 104	X441194	11-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.60	9.93	96.7	96.4 - 105	X441107	10-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X441107	10-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	412	397	104	96.4 - 105	X441107	10-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X440177	07-Oct-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.94	3.00	98.0	90 - 110	X440166	03-Oct-24	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.9	90 - 110	X440166	03-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.99	2.00	99.4	90 - 110	X440166	03-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.51	4.50	100	90 - 110	X440166	03-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.52	2.50	101	90 - 110	X440166	03-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X440166	03-Oct-24	

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0074**
Reported: 18-Oct-24 13:58

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X441194 - X4J0074-01	11-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	178	180	0.8	20	X441107 - X4J0075-01	10-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	178	180	0.8	20	X441107 - X4J0075-01	10-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X441107 - X4J0075-01	10-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X441107 - X4J0075-01	10-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	215	205	4.8	10	X440176 - X4J0074-03	07-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	232	239	3.0	10	X440176 - X4J0080-02	07-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X440177 - X4J0074-03	07-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X440177 - X4J0080-02	07-Oct-24	
SM 4500 H B	pH @18.1°C	pH Units	8.1	8.1	0.2	20	X441107 - X4J0075-01	10-Oct-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	49.2	29.6	20.0	98	70 - 130	X440200 - X4J0074-01	08-Oct-24	
EPA 200.7	Magnesium	mg/L	27.3	6.96	20.0	102	70 - 130	X440200 - X4J0074-01	08-Oct-24	
EPA 200.7	Potassium	mg/L	20.9	1.12	20.0	98.8	70 - 130	X440200 - X4J0074-01	08-Oct-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.993	<0.080	1.00	99.3	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Aluminum	mg/L	0.976	<0.080	1.00	97.6	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Barium	mg/L	1.04	0.0106	1.00	103	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Barium	mg/L	1.02	0.0152	1.00	101	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Beryllium	mg/L	1.03	<0.00200	1.00	102	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	101	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Boron	mg/L	1.03	<0.0400	1.00	101	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Cadmium	mg/L	1.03	<0.0020	1.00	103	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Cadmium	mg/L	0.997	<0.0020	1.00	99.7	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Calcium	mg/L	34.1	13.6	20.0	103	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Calcium	mg/L	120	98.7	20.0	107	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Chromium	mg/L	1.02	<0.0060	1.00	102	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Cobalt	mg/L	1.00	<0.0060	1.00	100	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Cobalt	mg/L	0.973	<0.0060	1.00	97.3	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Copper	mg/L	1.01	<0.0100	1.00	100	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Copper	mg/L	1.01	<0.0100	1.00	101	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Iron	mg/L	10.3	<0.100	10.0	103	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Lead	mg/L	0.976	<0.0075	1.00	97.6	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Lithium	mg/L	0.988	<0.040	1.00	98.8	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Magnesium	mg/L	20.5	<0.500	20.0	102	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Magnesium	mg/L	38.8	17.8	20.0	105	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Manganese	mg/L	1.00	<0.0080	1.00	100	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Manganese	mg/L	0.986	<0.0080	1.00	98.3	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X441053 - X4I0421-01	08-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0074**
Reported: 18-Oct-24 13:58

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	101	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Nickel	mg/L	1.01	<0.0100	1.00	101	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Nickel	mg/L	0.984	<0.0100	1.00	97.7	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Potassium	mg/L	20.7	<0.50	20.0	102	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Potassium	mg/L	21.6	1.30	20.0	101	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Silver	mg/L	0.0483	<0.0050	0.0500	96.6	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Silver	mg/L	0.0481	<0.0050	0.0500	96.1	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Sodium	mg/L	19.8	<0.50	19.0	102	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Sodium	mg/L	39.5	20.3	19.0	101	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Vanadium	mg/L	1.03	<0.0050	1.00	103	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Vanadium	mg/L	1.02	<0.0050	1.00	102	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.7	Zinc	mg/L	1.05	<0.0100	1.00	105	70 - 130	X441053 - X4I0421-01	08-Oct-24	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	102	70 - 130	X441053 - X4J0114-06	08-Oct-24	
EPA 200.8	Antimony	mg/L	0.0249	<0.00100	0.0250	99.6	70 - 130	X441013 - X4J0074-01	18-Oct-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.00100	0.0250	102	70 - 130	X441013 - X4J0075-02	18-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0254	<0.00100	0.0250	102	70 - 130	X441013 - X4J0074-01	18-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0243	<0.00100	0.0250	95.3	70 - 130	X441013 - X4J0075-02	18-Oct-24	
EPA 200.8	Selenium	mg/L	0.0251	<0.00100	0.0250	100	70 - 130	X441013 - X4J0074-01	18-Oct-24	
EPA 200.8	Selenium	mg/L	0.0220	<0.00100	0.0250	87.8	70 - 130	X441013 - X4J0075-02	18-Oct-24	
EPA 200.8	Thallium	mg/L	0.0246	<0.000200	0.0250	98.6	70 - 130	X441013 - X4J0074-01	18-Oct-24	
EPA 200.8	Thallium	mg/L	0.0240	<0.000200	0.0250	96.2	70 - 130	X441013 - X4J0075-02	18-Oct-24	
EPA 200.8	Uranium	mg/L	0.0299	0.00333	0.0250	106	70 - 130	X441013 - X4J0074-01	18-Oct-24	
EPA 200.8	Uranium	mg/L	0.0412	0.0147	0.0250	106	70 - 130	X441013 - X4J0075-02	18-Oct-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00208	<0.000200	0.00200	104	70 - 130	X440214 - X4J0040-01	11-Oct-24	
EPA 245.1	Mercury	mg/L	0.00203	<0.000200	0.00200	102	70 - 130	X440214 - X4J0075-01	11-Oct-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0960	<0.0050	0.100	96.0	79 - 121	X441169 - X4J0074-01	10-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.178	<0.0050	0.167	107	90 - 110	X441028 - X4J0009-03	08-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.180	<0.0050	0.167	108	90 - 110	X441028 - X4J0040-01	08-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.13	<0.030	1.00	111	90 - 110	X441097 - X4J0074-01	09-Oct-24	M1
EPA 350.1	Ammonia as N	mg/L	1.12	<0.030	1.00	112	90 - 110	X441097 - X4J0074-02	09-Oct-24	M1
OIA 1677	Cyanide (WAD)	mg/L	0.105	<0.0050	0.100	104	82 - 118	X441036 - X4J0074-01	07-Oct-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.81	1.85	3.00	98.6	90 - 110	X440166 - X4J0074-02	03-Oct-24	
EPA 300.0	Chloride	mg/L	3.95	0.89	3.00	102	90 - 110	X440166 - X4J0089-01	03-Oct-24	
EPA 300.0	Fluoride	mg/L	2.28	0.212	2.00	103	90 - 110	X440166 - X4J0074-02	03-Oct-24	
EPA 300.0	Fluoride	mg/L	2.05	<0.100	2.00	101	90 - 110	X440166 - X4J0089-01	03-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.70	0.735	2.00	98.2	90 - 110	X440166 - X4J0074-02	03-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.17	0.127	2.00	102	90 - 110	X440166 - X4J0089-01	03-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.71	0.735	4.00	99.3	90 - 110	X440166 - X4J0074-02	03-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.25	0.127	4.00	103	90 - 110	X440166 - X4J0089-01	03-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X440166 - X4J0074-02	03-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.08	<0.050	2.00	104	90 - 110	X440166 - X4J0089-01	03-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	30.5	20.5	10.0	100	90 - 110	X440166 - X4J0074-02	03-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	19.2	8.82	10.0	103	90 - 110	X440166 - X4J0089-01	03-Oct-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 / 2024-09
Work Order: **X4J0074**
Reported: 18-Oct-24 13:58

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	49.4	49.2	20.0	0.4	20	99	X440200 - X4J0074-01	
EPA 200.7	Magnesium	mg/L	27.2	27.3	20.0	0.3	20	101	X440200 - X4J0074-01	
EPA 200.7	Potassium	mg/L	21.0	20.9	20.0	0.4	20	99.2	X440200 - X4J0074-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.990	0.993	1.00	0.3	20	99.0	X441053 - X4I0421-01	
EPA 200.7	Barium	mg/L	1.02	1.04	1.00	1.7	20	101	X441053 - X4I0421-01	
EPA 200.7	Beryllium	mg/L	1.02	1.03	1.00	0.9	20	102	X441053 - X4I0421-01	
EPA 200.7	Boron	mg/L	0.999	1.01	1.00	0.7	20	99.9	X441053 - X4I0421-01	
EPA 200.7	Cadmium	mg/L	1.02	1.03	1.00	1.1	20	102	X441053 - X4I0421-01	
EPA 200.7	Calcium	mg/L	33.7	34.1	20.0	1.4	20	100	X441053 - X4I0421-01	
EPA 200.7	Chromium	mg/L	1.02	1.03	1.00	1.3	20	102	X441053 - X4I0421-01	
EPA 200.7	Cobalt	mg/L	0.996	1.00	1.00	0.8	20	99.6	X441053 - X4I0421-01	
EPA 200.7	Copper	mg/L	0.995	1.01	1.00	1.2	20	99.0	X441053 - X4I0421-01	
EPA 200.7	Iron	mg/L	10.2	10.3	10.0	0.6	20	102	X441053 - X4I0421-01	
EPA 200.7	Lead	mg/L	1.00	1.02	1.00	1.3	20	100	X441053 - X4I0421-01	
EPA 200.7	Lithium	mg/L	0.970	0.988	1.00	1.8	20	97.0	X441053 - X4I0421-01	
EPA 200.7	Magnesium	mg/L	20.1	20.5	20.0	2.1	20	100	X441053 - X4I0421-01	
EPA 200.7	Manganese	mg/L	0.986	1.00	1.00	1.8	20	98.6	X441053 - X4I0421-01	
EPA 200.7	Molybdenum	mg/L	1.02	1.02	1.00	0.2	20	102	X441053 - X4I0421-01	
EPA 200.7	Nickel	mg/L	1.00	1.01	1.00	1.3	20	100	X441053 - X4I0421-01	
EPA 200.7	Potassium	mg/L	20.6	20.7	20.0	0.7	20	102	X441053 - X4I0421-01	
EPA 200.7	Silver	mg/L	0.0478	0.0483	0.0500	1.1	20	95.6	X441053 - X4I0421-01	
EPA 200.7	Sodium	mg/L	19.6	19.8	19.0	1.0	20	101	X441053 - X4I0421-01	
EPA 200.7	Vanadium	mg/L	1.02	1.03	1.00	0.9	20	102	X441053 - X4I0421-01	
EPA 200.7	Zinc	mg/L	1.03	1.05	1.00	1.7	20	103	X441053 - X4I0421-01	
EPA 200.8	Antimony	mg/L	0.0252	0.0249	0.0250	1.1	20	101	X441013 - X4J0074-01	
EPA 200.8	Arsenic	mg/L	0.0259	0.0254	0.0250	2.0	20	104	X441013 - X4J0074-01	
EPA 200.8	Selenium	mg/L	0.0251	0.0251	0.0250	0.1	20	100	X441013 - X4J0074-01	
EPA 200.8	Thallium	mg/L	0.0250	0.0246	0.0250	1.3	20	99.9	X441013 - X4J0074-01	
EPA 200.8	Uranium	mg/L	0.0301	0.0299	0.0250	0.8	20	107	X441013 - X4J0074-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00203	0.00208	0.00200	2.5	20	102	X440214 - X4J0040-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.0960	0.100	3.1	11	99.0	X441169 - X4J0074-01	
EPA 335.4	Cyanide (total)	mg/L	0.176	0.178	0.167	1.3	20	106	X441028 - X4J0009-03	
EPA 350.1	Ammonia as N	mg/L	1.16	1.13	1.00	3.1	20	114	X441097 - X4J0074-01	M1
OIA 1677	Cyanide (WAD)	mg/L	0.112	0.105	0.100	6.5	11	111	X441036 - X4J0074-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.85	4.81	3.00	1.0	20	100	X440166 - X4J0074-02	
EPA 300.0	Fluoride	mg/L	2.30	2.28	2.00	1.0	20	105	X440166 - X4J0074-02	
EPA 300.0	Nitrate as N	mg/L	2.71	2.70	2.00	0.3	20	98.5	X440166 - X4J0074-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.75	4.71	4.00	0.8	20	100	X440166 - X4J0074-02	
EPA 300.0	Nitrite as N	mg/L	2.04	2.01	2.00	1.5	20	102	X440166 - X4J0074-02	
EPA 300.0	Sulfate as SO4	mg/L	30.6	30.5	10.0	0.3	20	101	X440166 - X4J0074-02	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09**
Post Office Box 191	Work Order: **X4J0074**
Victor, CO 80860	Reported: 18-Oct-24 13:58

Notes and Definitions

H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
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 / 2024-09**
Post Office Box 191	Work Order: **X4J0146**
Victor, CO 80860	Reported: 23-Oct-24 08:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-7A	X4J0146-01	Ground Water	07-Oct-24 09:08	JC	08-Oct-2024	
GVMW-7B	X4J0146-02	Ground Water	07-Oct-24 10:25	JC	08-Oct-2024	
GVMW-4A	X4J0146-03	Ground Water	07-Oct-24 11:52	JC	08-Oct-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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0146

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 / 2024-09
Work Order: **X4J0146**
Reported: 23-Oct-24 08:39

Client Sample ID: **GVMW-7A**
SVL Sample ID: **X4J0146-01 (Ground Water)**

Sampled: 07-Oct-24 09:08
Received: 08-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	40.2	mg/L	0.100	0.069		X441121	NMS	10/11/24 13:05	
EPA 200.7	**Magnesium**	18.5	mg/L	0.500	0.090		X441121	NMS	10/11/24 13:05	
EPA 200.7	**Potassium**	1.04	mg/L	0.50	0.18		X441121	NMS	10/11/24 13:05	
SM 2340 B	**Hardness (as CaCO3)**	171	mg/L	2.31	0.543		N/A		10/11/24 12:53	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X441201	NMS	10/11/24 12:53	
EPA 200.7	**Barium**	0.165	mg/L	0.0020	0.0019		X441201	NMS	10/11/24 12:53	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X441201	NMS	10/11/24 12:53	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X441201	NMS	10/11/24 12:53	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X441201	NMS	10/11/24 12:53	
EPA 200.7	**Calcium**	37.9	mg/L	0.100	0.069		X441201	NMS	10/11/24 12:53	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X441201	NMS	10/11/24 12:53	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X441201	NMS	10/11/24 12:53	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X441201	NMS	10/11/24 12:53	
EPA 200.7	**Iron**	1.43	mg/L	0.100	0.056		X441201	NMS	10/11/24 12:53	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X441201	NMS	10/11/24 12:53	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X441201	NMS	10/11/24 12:53	
EPA 200.7	**Magnesium**	16.9	mg/L	0.500	0.090		X441201	NMS	10/11/24 12:53	
EPA 200.7	**Manganese**	0.252	mg/L	0.0080	0.0034		X441201	NMS	10/11/24 12:53	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X441201	NMS	10/11/24 12:53	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X441201	NMS	10/11/24 12:53	
EPA 200.7	**Potassium**	0.96	mg/L	0.50	0.18		X441201	NMS	10/11/24 12:53	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X441201	NMS	10/11/24 12:53	
EPA 200.7	**Sodium**	9.35	mg/L	0.50	0.12		X441201	NMS	10/11/24 12:53	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X441201	NMS	10/11/24 12:53	
EPA 200.7	**Zinc**	0.0106	mg/L	0.0100	0.0054		X441201	NMS	10/11/24 12:53	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X442006	SMU	10/21/24 11:41	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X442006	SMU	10/21/24 11:41	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X442006	SMU	10/21/24 11:41	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X442006	SMU	10/21/24 11:41	
EPA 200.8	**Uranium**	0.00416	mg/L	0.000100	0.000052		X442006	SMU	10/21/24 11:41	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X441113	MAC	10/11/24 18:05	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X441169	DD	10/14/24 12:47	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X442002	JPM	10/15/24 10:45	
EPA 350.1	**Ammonia as N**	0.034	mg/L	0.030	0.013		X441098	DD	10/09/24 18:33	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442184	DD	10/18/24 09:27	
SM 2310 B	**Acidity to pH 8.3**	-164	mg/L as CaCO3	10.0			X441194	MWD	10/11/24 12:59	
SM 2320 B	**Total Alkalinity**	167	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:28	
SM 2320 B	**Bicarbonate**	167	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:28	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:28	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:28	
SM 2540 C	**Total Diss. Solids**	221	mg/L	10			X441129	TJL	10/11/24 13:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X441130	TJL	10/11/24 14:30	
SM 4500 H B	**pH @19.9°C**	8.0	pH Units				X441107	MWD	10/10/24 11:28	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 / 2024-09
Work Order: **X4J0146**
Reported: 23-Oct-24 08:39

Client Sample ID: **GVMW-7A**
SVL Sample ID: **X4J0146-01 (Ground Water)**

Sampled: 07-Oct-24 09:08
Received: 08-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	10.3	mg/L	0.20	0.02		X441067	RS	10/08/24 15:14	
EPA 300.0	**Fluoride**	0.881	mg/L	0.100	0.017		X441067	RS	10/08/24 15:14	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X441067	RS	10/08/24 15:14	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X441067	RS	10/08/24 15:14	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X441067	RS	10/08/24 15:14	
EPA 300.0	**Sulfate as SO4**	22.5	mg/L	0.30	0.18		X441067	RS	10/08/24 15:14	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.79 meq/L Anion Sum: 4.15 meq/L C/A Balance: -4.49 % Calculated TDS: 201 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 / 2024-09
Work Order: **X4J0146**
Reported: 23-Oct-24 08:39

Client Sample ID: **GVMW-7B**
SVL Sample ID: **X4J0146-02 (Ground Water)**

Sampled: 07-Oct-24 10:25
Received: 08-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	81.2	mg/L	0.100	0.069		X441121	NMS	10/11/24 13:17	
EPA 200.7	**Magnesium**	27.2	mg/L	0.500	0.090		X441121	NMS	10/11/24 13:17	
EPA 200.7	**Potassium**	1.41	mg/L	0.50	0.18		X441121	NMS	10/11/24 13:17	
SM 2340 B	**Hardness (as CaCO3)**	315	mg/L	2.31	0.543		N/A		10/11/24 12:57	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X441201	NMS	10/11/24 12:57	
EPA 200.7	**Barium**	0.0217	mg/L	0.0020	0.0019		X441201	NMS	10/11/24 12:57	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X441201	NMS	10/11/24 12:57	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X441201	NMS	10/11/24 12:57	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X441201	NMS	10/11/24 12:57	
EPA 200.7	**Calcium**	78.1	mg/L	0.100	0.069		X441201	NMS	10/11/24 12:57	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X441201	NMS	10/11/24 12:57	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X441201	NMS	10/11/24 12:57	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X441201	NMS	10/11/24 12:57	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X441201	NMS	10/11/24 12:57	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X441201	NMS	10/11/24 12:57	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X441201	NMS	10/11/24 12:57	
EPA 200.7	**Magnesium**	25.5	mg/L	0.500	0.090		X441201	NMS	10/11/24 12:57	
EPA 200.7	**Manganese**	0.0116	mg/L	0.0080	0.0034		X441201	NMS	10/11/24 12:57	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X441201	NMS	10/11/24 12:57	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X441201	NMS	10/11/24 12:57	
EPA 200.7	**Potassium**	1.15	mg/L	0.50	0.18		X441201	NMS	10/11/24 12:57	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X441201	NMS	10/11/24 12:57	
EPA 200.7	**Sodium**	21.3	mg/L	0.50	0.12		X441201	NMS	10/11/24 12:57	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X441201	NMS	10/11/24 12:57	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X441201	NMS	10/11/24 12:57	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X442006	SMU	10/21/24 11:48	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X442006	SMU	10/21/24 11:48	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X442006	SMU	10/21/24 11:48	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X442006	SMU	10/21/24 11:48	
EPA 200.8	**Uranium**	0.000244	mg/L	0.000100	0.000052		X442006	SMU	10/21/24 11:48	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X441113	MAC	10/11/24 18:07	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X441169	DD	10/14/24 12:49	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X442002	JPM	10/15/24 10:48	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X441098	DD	10/09/24 18:36	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442184	DD	10/18/24 09:29	
SM 2310 B	**Acidity to pH 8.3**	-44.9	mg/L as CaCO3	10.0			X441194	MWD	10/11/24 12:59	
SM 2320 B	**Total Alkalinity**	46.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:43	
SM 2320 B	**Bicarbonate**	46.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:43	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:43	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:43	
SM 2540 C	**Total Diss. Solids**	498	mg/L	10			X441129	TJL	10/11/24 13:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X441130	TJL	10/11/24 14:30	
SM 4500 H B	**pH @20.0°C**	7.1	pH Units				X441107	MWD	10/10/24 11:43	H5

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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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

Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0146**
Reported: 23-Oct-24 08:39

Client Sample ID: **GVMW-7B**
SVL Sample ID: **X4J0146-02 (Ground Water)**

Sampled: 07-Oct-24 10:25
Received: 08-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	47.6	mg/L	2.00	0.22	10	X441067	RS	10/08/24 16:07	
EPA 300.0	**Fluoride**	0.283	mg/L	0.100	0.017		X441067	RS	10/08/24 15:46	
EPA 300.0	**Nitrate as N**	0.508	mg/L	0.050	0.013		X441067	RS	10/08/24 15:46	
EPA 300.0	**Nitrate+Nitrite as N**	0.508	mg/L	0.100	0.044		X441067	RS	10/08/24 15:46	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X441067	RS	10/08/24 15:46	
EPA 300.0	**Sulfate as SO4**	248	mg/L	3.00	1.80	10	X441067	RS	10/08/24 16:07	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 6.97 meq/L Anion Sum: 7.48 meq/L C/A Balance: -3.54 % Calculated TDS: 454 TDS/cTDS: 1.10

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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0146**
Reported: 23-Oct-24 08:39

Client Sample ID: **GVMW-4A**
SVL Sample ID: **X4J0146-03 (Ground Water)**

Sampled: 07-Oct-24 11:52
Received: 08-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	17.9	mg/L	0.100	0.069		X441121	NMS	10/11/24 13:20	
EPA 200.7	**Magnesium**	10.8	mg/L	0.500	0.090		X441121	NMS	10/11/24 13:20	
EPA 200.7	**Potassium**	1.60	mg/L	0.50	0.18		X441121	NMS	10/11/24 13:20	
SM 2340 B	**Hardness (as CaCO3)**	83.2	mg/L	2.31	0.543		N/A		10/11/24 13:20	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X441201	NMS	10/11/24 13:00	
EPA 200.7	**Barium**	0.171	mg/L	0.0020	0.0019		X441201	NMS	10/11/24 13:00	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X441201	NMS	10/11/24 13:00	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X441201	NMS	10/11/24 13:00	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X441201	NMS	10/11/24 13:00	
EPA 200.7	**Calcium**	17.1	mg/L	0.100	0.069		X441201	NMS	10/11/24 13:00	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X441201	NMS	10/11/24 13:00	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X441201	NMS	10/11/24 13:00	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X441201	NMS	10/11/24 13:00	
EPA 200.7	**Iron**	7.23	mg/L	0.100	0.056		X441201	NMS	10/11/24 13:00	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X441201	NMS	10/11/24 13:00	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X441201	NMS	10/11/24 13:00	
EPA 200.7	**Magnesium**	9.86	mg/L	0.500	0.090		X441201	NMS	10/11/24 13:00	
EPA 200.7	**Manganese**	1.91	mg/L	0.0080	0.0034		X441201	NMS	10/11/24 13:00	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X441201	NMS	10/11/24 13:00	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X441201	NMS	10/11/24 13:00	
EPA 200.7	**Potassium**	1.20	mg/L	0.50	0.18		X441201	NMS	10/11/24 13:00	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X441201	NMS	10/11/24 13:00	
EPA 200.7	**Sodium**	8.96	mg/L	0.50	0.12		X441201	NMS	10/11/24 13:00	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X441201	NMS	10/11/24 13:00	
EPA 200.7	**Zinc**	0.0193	mg/L	0.0100	0.0054		X441201	NMS	10/11/24 13:00	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X442006	SMU	10/21/24 11:51	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X442006	SMU	10/21/24 11:51	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X442006	SMU	10/21/24 11:51	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X442006	SMU	10/21/24 11:51	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X442006	SMU	10/21/24 11:51	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X441113	MAC	10/11/24 18:09	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X441169	DD	10/14/24 12:51	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X442002	JPM	10/15/24 11:02	
EPA 350.1	**Ammonia as N**	0.033	mg/L	0.030	0.013		X441098	DD	10/09/24 18:38	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442184	DD	10/18/24 09:30	
SM 2310 B	**Acidity to pH 8.3**	-59.9	mg/L as CaCO3	10.0			X441194	MWD	10/11/24 12:59	
SM 2320 B	**Total Alkalinity**	55.7	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:49	
SM 2320 B	**Bicarbonate**	55.7	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:49	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:49	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:49	
SM 2540 C	**Total Diss. Solids**	190	mg/L	10			X441129	TJL	10/11/24 13:10	
SM 2540 D	**Total Susp. Solids**	10.0	mg/L	5.0			X441130	TJL	10/11/24 14:30	
SM 4500 H B	**pH @20.0°C**	7.1	pH Units				X441107	MWD	10/10/24 11:49	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 / 2024-09
Work Order: **X4J0146**
Reported: 23-Oct-24 08:39

Client Sample ID: **GVMW-4A**
SVL Sample ID: **X4J0146-03 (Ground Water)**

Sampled: 07-Oct-24 11:52
Received: 08-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	4.88	mg/L	0.20	0.02		X441067	RS	10/08/24 16:54	
EPA 300.0	**Fluoride**	0.125	mg/L	0.100	0.017		X441067	RS	10/08/24 16:54	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X441067	RS	10/08/24 16:54	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X441067	RS	10/08/24 17:10	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X441067	RS	10/08/24 16:54	
EPA 300.0	**Sulfate as SO4**	60.8	mg/L	3.00	1.80	10	X441067	RS	10/08/24 17:10	

Cation/Anion Balance and TDS Ratios

Cation Sum: 2.43 meq/L Anion Sum: 2.53 meq/L C/A Balance: -1.96 % Calculated TDS: 137 TDS/cTDS: 1.38

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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0146**
Reported: 23-Oct-24 08:39

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	X441121	11-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X441121	11-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X441121	11-Oct-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X441201	11-Oct-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X441201	11-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X441201	11-Oct-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X441201	11-Oct-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X441201	11-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X441201	11-Oct-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X441201	11-Oct-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X441201	11-Oct-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X441201	11-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X441201	11-Oct-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X441201	11-Oct-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X441201	11-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X441201	11-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X441201	11-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X441201	11-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X441201	11-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X441201	11-Oct-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X441201	11-Oct-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X441201	11-Oct-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X441201	11-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X441201	11-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X442006	21-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X442006	21-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X442006	21-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X442006	21-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X442006	21-Oct-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X441113	11-Oct-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X441169	10-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X442002	15-Oct-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X441098	09-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X442184	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X441194	11-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X441107	10-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X441107	10-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X441107	10-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X441107	10-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X441129	11-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X441130	11-Oct-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X441067	08-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X441067	08-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X441067	08-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X441067	08-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X441067	08-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X441067	08-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0146**
Reported: 23-Oct-24 08:39

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.7	20.0	98	85 - 115	X441121	11-Oct-24	
EPA 200.7	Magnesium	mg/L	20.1	20.0	101	85 - 115	X441121	11-Oct-24	
EPA 200.7	Potassium	mg/L	19.8	20.0	98.9	85 - 115	X441121	11-Oct-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.936	1.00	93.6	85 - 115	X441201	11-Oct-24	
EPA 200.7	Barium	mg/L	0.961	1.00	96.1	85 - 115	X441201	11-Oct-24	
EPA 200.7	Beryllium	mg/L	0.979	1.00	97.9	85 - 115	X441201	11-Oct-24	
EPA 200.7	Boron	mg/L	0.956	1.00	95.6	85 - 115	X441201	11-Oct-24	
EPA 200.7	Cadmium	mg/L	0.960	1.00	96.0	85 - 115	X441201	11-Oct-24	
EPA 200.7	Calcium	mg/L	19.0	20.0	94.9	85 - 115	X441201	11-Oct-24	
EPA 200.7	Chromium	mg/L	0.970	1.00	97.0	85 - 115	X441201	11-Oct-24	
EPA 200.7	Cobalt	mg/L	0.938	1.00	93.8	85 - 115	X441201	11-Oct-24	
EPA 200.7	Copper	mg/L	0.957	1.00	95.7	85 - 115	X441201	11-Oct-24	
EPA 200.7	Iron	mg/L	9.62	10.0	96.2	85 - 115	X441201	11-Oct-24	
EPA 200.7	Lead	mg/L	0.945	1.00	94.5	85 - 115	X441201	11-Oct-24	
EPA 200.7	Lithium	mg/L	0.928	1.00	92.8	85 - 115	X441201	11-Oct-24	
EPA 200.7	Magnesium	mg/L	18.6	20.0	92.9	85 - 115	X441201	11-Oct-24	
EPA 200.7	Manganese	mg/L	0.955	1.00	95.5	85 - 115	X441201	11-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.968	1.00	96.8	85 - 115	X441201	11-Oct-24	
EPA 200.7	Nickel	mg/L	0.944	1.00	94.4	85 - 115	X441201	11-Oct-24	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.5	85 - 115	X441201	11-Oct-24	
EPA 200.7	Silver	mg/L	0.0492	0.0500	98.5	85 - 115	X441201	11-Oct-24	
EPA 200.7	Sodium	mg/L	18.1	19.0	95.3	85 - 115	X441201	11-Oct-24	
EPA 200.7	Vanadium	mg/L	0.971	1.00	97.1	85 - 115	X441201	11-Oct-24	
EPA 200.7	Zinc	mg/L	0.967	1.00	96.7	85 - 115	X441201	11-Oct-24	
EPA 200.8	Antimony	mg/L	0.0241	0.0250	96.4	85 - 115	X442006	21-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0253	0.0250	101	85 - 115	X442006	21-Oct-24	
EPA 200.8	Selenium	mg/L	0.0256	0.0250	103	85 - 115	X442006	21-Oct-24	
EPA 200.8	Thallium	mg/L	0.0254	0.0250	102	85 - 115	X442006	21-Oct-24	
EPA 200.8	Uranium	mg/L	0.0262	0.0250	105	85 - 115	X442006	21-Oct-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00201	0.00200	100	85 - 115	X441113	11-Oct-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.100	103	90 - 110	X441169	10-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X442002	15-Oct-24	
EPA 350.1	Ammonia as N	mg/L	0.978	1.00	97.8	90 - 110	X441098	09-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X442184	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	881	884	99.6	95.4 - 104	X441194	11-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.60	9.93	96.7	96.4 - 105	X441107	10-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X441107	10-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	412	397	104	96.4 - 105	X441107	10-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X441130	11-Oct-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.92	3.00	97.4	90 - 110	X441067	08-Oct-24	
EPA 300.0	Fluoride	mg/L	1.94	2.00	97.2	90 - 110	X441067	08-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	98.1	90 - 110	X441067	08-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.46	4.50	99.2	90 - 110	X441067	08-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	100	90 - 110	X441067	08-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	9.89	10.0	98.9	90 - 110	X441067	08-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0146**
Reported: 23-Oct-24 08:39

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	X441194 - X4J0074-01	11-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	178	180	0.8	20	X441107 - X4J0075-01	10-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	178	180	0.8	20	X441107 - X4J0075-01	10-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X441107 - X4J0075-01	10-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X441107 - X4J0075-01	10-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	222	223	0.4	10	X441129 - X4J0147-02	11-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	254	254	0.0	10	X441129 - X4J0138-02	11-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	180	110	48.3	10	X441130 - X4J0138-02	11-Oct-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X441130 - X4J0147-02	11-Oct-24	
SM 4500 H B	pH @18.1°C	pH Units	8.1	8.1	0.2	20	X441107 - X4J0075-01	10-Oct-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	77.7	56.1	20.0	108	70 - 130	X441121 - X4J0138-02	11-Oct-24	
EPA 200.7	Calcium	mg/L	58.8	39.6	20.0	96	70 - 130	X441121 - X4J0147-02	11-Oct-24	
EPA 200.7	Magnesium	mg/L	28.6	7.50	20.0	106	70 - 130	X441121 - X4J0138-02	11-Oct-24	
EPA 200.7	Magnesium	mg/L	38.6	18.1	20.0	103	70 - 130	X441121 - X4J0147-02	11-Oct-24	
EPA 200.7	Potassium	mg/L	25.3	4.65	20.0	103	70 - 130	X441121 - X4J0138-02	11-Oct-24	
EPA 200.7	Potassium	mg/L	20.7	0.94	20.0	98.7	70 - 130	X441121 - X4J0147-02	11-Oct-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Aluminum	mg/L	0.945	<0.080	1.00	94.5	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Barium	mg/L	0.956	0.0174	1.00	93.9	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Barium	mg/L	0.956	<0.0020	1.00	95.6	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Beryllium	mg/L	0.987	<0.00200	1.00	98.7	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Beryllium	mg/L	0.985	<0.00200	1.00	98.5	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Boron	mg/L	1.06	0.0814	1.00	97.7	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Boron	mg/L	0.954	<0.0400	1.00	95.4	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Cadmium	mg/L	0.909	<0.0020	1.00	90.9	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Cadmium	mg/L	0.968	<0.0020	1.00	96.8	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Calcium	mg/L	457	427	20.0	0.30R>S	70 - 130	X441201 - X4J0219-01	11-Oct-24	M3
EPA 200.7	Calcium	mg/L	18.7	<0.100	20.0	93.5	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Chromium	mg/L	0.940	<0.0060	1.00	94.0	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Chromium	mg/L	0.973	<0.0060	1.00	97.3	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Cobalt	mg/L	0.916	<0.0060	1.00	91.6	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Cobalt	mg/L	0.936	<0.0060	1.00	93.6	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Copper	mg/L	1.02	0.0147	1.00	100	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Copper	mg/L	0.936	<0.0100	1.00	93.6	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Iron	mg/L	9.56	<0.100	10.0	95.6	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Iron	mg/L	9.56	<0.100	10.0	95.6	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Lead	mg/L	0.925	<0.0075	1.00	92.5	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Lead	mg/L	0.953	<0.0075	1.00	95.3	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	105	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Lithium	mg/L	0.917	<0.040	1.00	91.7	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Magnesium	mg/L	92.4	71.0	20.0	107	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Magnesium	mg/L	18.5	<0.500	20.0	92.7	70 - 130	X441201 - X4J0219-13	11-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0146**
Reported: 23-Oct-24 08:39

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	1.32	0.394	1.00	93.1	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Manganese	mg/L	0.956	<0.0080	1.00	95.6	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.948	<0.0080	1.00	94.8	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.969	<0.0080	1.00	96.9	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Nickel	mg/L	0.936	<0.0100	1.00	92.8	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Nickel	mg/L	0.950	<0.0100	1.00	95.0	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Potassium	mg/L	23.7	4.11	20.0	98.0	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Potassium	mg/L	19.0	<0.50	20.0	94.9	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Silver	mg/L	0.0527	<0.0050	0.0500	105	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Silver	mg/L	0.0502	<0.0050	0.0500	100	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Sodium	mg/L	55.8	36.7	19.0	101	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Sodium	mg/L	17.9	<0.50	19.0	94.0	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Vanadium	mg/L	0.960	<0.0050	1.00	96.0	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Vanadium	mg/L	0.973	<0.0050	1.00	97.3	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Zinc	mg/L	1.26	0.303	1.00	95.7	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Zinc	mg/L	0.978	<0.0100	1.00	97.8	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.8	Antimony	mg/L	0.0244	<0.00100	0.0250	97.6	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Antimony	mg/L	0.0275	<0.00100	0.0250	110	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0258	<0.00100	0.0250	101	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0301	<0.00100	0.0250	118	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Selenium	mg/L	0.0234	<0.00100	0.0250	93.6	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Selenium	mg/L	0.0301	<0.00100	0.0250	120	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Thallium	mg/L	0.0251	<0.000200	0.0250	100	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Thallium	mg/L	0.0285	<0.000200	0.0250	114	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Uranium	mg/L	0.0305	0.00416	0.0250	105	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Uranium	mg/L	0.0561	0.0262	0.0250	120	70 - 130	X442006 - X4J0236-01	22-Oct-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00198	<0.000200	0.00200	98.8	70 - 130	X441113 - X4J0144-01	11-Oct-24	
EPA 245.1	Mercury	mg/L	0.00204	<0.000200	0.00200	102	70 - 130	X441113 - X4J0146-02	11-Oct-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0960	<0.0050	0.100	96.0	79 - 121	X441169 - X4J0074-01	10-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X442002 - X4J0180-02	15-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X442002 - X4J0180-01	15-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.09	<0.030	1.00	109	90 - 110	X441098 - X4J0110-01	09-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.05	<0.030	1.00	105	90 - 110	X441098 - X4J0110-02	09-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0950	<0.0050	0.100	91.0	82 - 118	X442184 - X4J0146-01	18-Oct-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.87	<0.20	3.00	94.2	90 - 110	X441067 - X4J0145-01	08-Oct-24	
EPA 300.0	Chloride	mg/L	3.03	<0.20	3.00	97.0	90 - 110	X441067 - X4J0147-01	08-Oct-24	
EPA 300.0	Fluoride	mg/L	1.94	<0.100	2.00	97.0	90 - 110	X441067 - X4J0145-01	08-Oct-24	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	96.5	90 - 110	X441067 - X4J0147-01	08-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.91	<0.050	2.00	95.7	90 - 110	X441067 - X4J0145-01	08-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.92	<0.050	2.00	96.0	90 - 110	X441067 - X4J0147-01	08-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.89	<0.100	4.00	97.4	90 - 110	X441067 - X4J0145-01	08-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.92	<0.100	4.00	97.9	90 - 110	X441067 - X4J0147-01	08-Oct-24	
EPA 300.0	Nitrite as N	mg/L	1.98	<0.050	2.00	99.0	90 - 110	X441067 - X4J0145-01	08-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	99.8	90 - 110	X441067 - X4J0147-01	08-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	9.88	<0.30	10.0	98.8	90 - 110	X441067 - X4J0145-01	08-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0146**
Reported: 23-Oct-24 08:39

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	10.2	0.31	10.0	98.8	90 - 110	X441067 - X4J0147-01	08-Oct-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	76.2	77.7	20.0	2.0	20	101	X441121 - X4J0138-02	
EPA 200.7	Magnesium	mg/L	28.0	28.6	20.0	2.1	20	103	X441121 - X4J0138-02	
EPA 200.7	Potassium	mg/L	25.0	25.3	20.0	1.3	20	102	X441121 - X4J0138-02	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.02	1.00	0.8	20	101	X441201 - X4J0219-01	
EPA 200.7	Barium	mg/L	0.948	0.956	1.00	0.8	20	93.1	X441201 - X4J0219-01	
EPA 200.7	Beryllium	mg/L	1.00	0.987	1.00	1.4	20	100	X441201 - X4J0219-01	
EPA 200.7	Boron	mg/L	1.05	1.06	1.00	0.8	20	96.8	X441201 - X4J0219-01	
EPA 200.7	Cadmium	mg/L	0.931	0.909	1.00	2.4	20	93.1	X441201 - X4J0219-01	
EPA 200.7	Calcium	mg/L	453	457	20.0	0.8	20	126	X441201 - X4J0219-01	
EPA 200.7	Chromium	mg/L	0.954	0.940	1.00	1.6	20	95.4	X441201 - X4J0219-01	
EPA 200.7	Cobalt	mg/L	0.936	0.916	1.00	2.1	20	93.6	X441201 - X4J0219-01	
EPA 200.7	Copper	mg/L	1.02	1.02	1.00	0.8	20	101	X441201 - X4J0219-01	
EPA 200.7	Iron	mg/L	9.55	9.56	10.0	0.1	20	95.5	X441201 - X4J0219-01	
EPA 200.7	Lead	mg/L	0.940	0.925	1.00	1.7	20	94.0	X441201 - X4J0219-01	
EPA 200.7	Lithium	mg/L	1.04	1.05	1.00	1.2	20	104	X441201 - X4J0219-01	
EPA 200.7	Magnesium	mg/L	91.6	92.4	20.0	0.9	20	103	X441201 - X4J0219-01	
EPA 200.7	Manganese	mg/L	1.33	1.32	1.00	0.6	20	93.8	X441201 - X4J0219-01	
EPA 200.7	Molybdenum	mg/L	0.973	0.948	1.00	2.5	20	97.3	X441201 - X4J0219-01	
EPA 200.7	Nickel	mg/L	0.959	0.936	1.00	2.5	20	95.1	X441201 - X4J0219-01	
EPA 200.7	Potassium	mg/L	23.6	23.7	20.0	0.5	20	97.4	X441201 - X4J0219-01	
EPA 200.7	Silver	mg/L	0.0520	0.0527	0.0500	1.4	20	104	X441201 - X4J0219-01	
EPA 200.7	Sodium	mg/L	55.3	55.8	19.0	1.0	20	97.8	X441201 - X4J0219-01	
EPA 200.7	Vanadium	mg/L	0.974	0.960	1.00	1.4	20	97.4	X441201 - X4J0219-01	
EPA 200.7	Zinc	mg/L	1.28	1.26	1.00	1.9	20	98.1	X441201 - X4J0219-01	
EPA 200.8	Antimony	mg/L	0.0249	0.0244	0.0250	1.9	20	99.4	X442006 - X4J0146-01	
EPA 200.8	Arsenic	mg/L	0.0258	0.0258	0.0250	0.3	20	101	X442006 - X4J0146-01	
EPA 200.8	Selenium	mg/L	0.0261	0.0234	0.0250	10.9	20	104	X442006 - X4J0146-01	
EPA 200.8	Thallium	mg/L	0.0253	0.0251	0.0250	0.9	20	101	X442006 - X4J0146-01	
EPA 200.8	Uranium	mg/L	0.0310	0.0305	0.0250	1.9	20	107	X442006 - X4J0146-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	0.00198	0.00200	0.9	20	99.8	X441113 - X4J0144-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.0960	0.100	3.1	11	99.0	X441169 - X4J0074-01	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.102	0.100	1.1	20	103	X442002 - X4J0180-02	
EPA 350.1	Ammonia as N	mg/L	1.10	1.09	1.00	0.7	20	110	X441098 - X4J0110-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	0.0950	0.100	1.1	11	92.0	X442184 - X4J0146-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.04	3.03	3.00	0.4	20	97.4	X441067 - X4J0147-01	
EPA 300.0	Fluoride	mg/L	2.03	2.02	2.00	0.6	20	97.2	X441067 - X4J0147-01	
EPA 300.0	Nitrate as N	mg/L	1.94	1.92	2.00	1.2	20	97.2	X441067 - X4J0147-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.95	3.92	4.00	0.9	20	98.9	X441067 - X4J0147-01	
EPA 300.0	Nitrite as N	mg/L	2.01	2.00	2.00	0.7	20	101	X441067 - X4J0147-01	

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

Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0146**
Reported: 23-Oct-24 08:39

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	10.2	10.2	10.0	0.1	20	98.9	X441067 - X4J0147-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09**
Post Office Box 191	Work Order: **X4J0146**
Victor, CO 80860	Reported: 23-Oct-24 08:39

Notes and Definitions

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

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09**
Post Office Box 191	Work Order: **X4J0147**
Victor, CO 80860	Reported: 23-Oct-24 09:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
RB-1007	X4J0147-01	Ground Water	07-Oct-24 09:22	JC	08-Oct-2024	
GVMW-107F	X4J0147-02	Ground Water	07-Oct-24 09:08	JC	08-Oct-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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0147

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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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0147**
Reported: 23-Oct-24 09:52

Client Sample ID: **RB-1007**
SVL Sample ID: **X4J0147-01 (Ground Water)**

Sampled: 07-Oct-24 09:22
Received: 08-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	0.146	mg/L	0.100	0.069		X441121	NMS	10/11/24 13:24	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X441121	NMS	10/11/24 13:24	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X441121	NMS	10/11/24 13:24	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		10/11/24 13:04	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X441201	NMS	10/11/24 13:04	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X441201	NMS	10/11/24 13:04	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X441201	NMS	10/11/24 13:04	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X441201	NMS	10/11/24 13:04	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X441201	NMS	10/11/24 13:04	
EPA 200.7	**Calcium**	0.189	mg/L	0.100	0.069		X441201	NMS	10/11/24 13:04	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X441201	NMS	10/11/24 13:04	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X441201	NMS	10/11/24 13:04	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X441201	NMS	10/11/24 13:04	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X441201	NMS	10/11/24 13:04	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X441201	NMS	10/11/24 13:04	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X441201	NMS	10/11/24 13:04	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X441201	NMS	10/11/24 13:04	
EPA 200.7	**Manganese**	0.0093	mg/L	0.0080	0.0034		X441201	NMS	10/11/24 13:04	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X441201	NMS	10/11/24 13:04	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X441201	NMS	10/11/24 13:04	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X441201	NMS	10/11/24 13:04	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X441201	NMS	10/11/24 13:04	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X441201	NMS	10/11/24 13:04	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X441201	NMS	10/11/24 13:04	
EPA 200.7	**Zinc**	0.0150	mg/L	0.0100	0.0054		X441201	NMS	10/11/24 13:04	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X442006	SMU	10/21/24 11:53	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X442006	SMU	10/21/24 11:53	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X442006	SMU	10/21/24 11:53	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X442006	SMU	10/21/24 11:53	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X442006	SMU	10/21/24 11:53	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X441113	MAC	10/11/24 18:12	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X441169	DD	10/14/24 12:53	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X442002	JPM	10/15/24 11:04	
EPA 350.1	**Ammonia as N**	0.032	mg/L	0.030	0.013		X441098	DD	10/09/24 18:40	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442184	DD	10/18/24 09:32	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X441194	MWD	10/11/24 12:59	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:54	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:54	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:54	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:54	
SM 2540 C	**Total Diss. Solids**	24	mg/L	10			X441129	TJL	10/11/24 13:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X441130	TJL	10/11/24 14:30	
SM 4500 H B	**pH @20.0°C**	5.6	pH Units				X441107	MWD	10/10/24 11:54	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 / 2024-09
Work Order: **X4J0147**
Reported: 23-Oct-24 09:52

Client Sample ID: **RB-1007**
SVL Sample ID: **X4J0147-01 (Ground Water)**

Sampled: 07-Oct-24 09:22
Received: 08-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 0.20	mg/L	0.20	0.02		X441067	RS	10/08/24 17:25	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X441067	RS	10/08/24 17:25	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X441067	RS	10/08/24 17:25	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X441067	RS	10/08/24 17:25	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X441067	RS	10/08/24 17:25	
EPA 300.0	**Sulfate as SO4**	0.31	mg/L	0.30	0.18		X441067	RS	10/08/24 17:25	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.04 meq/L Anion Sum: 0.03 meq/L C/A Balance: 11.61 % Calculated TDS: 0 TDS/cTDS: 50.26

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 / 2024-09
Work Order: **X4J0147**
Reported: 23-Oct-24 09:52

Client Sample ID: **GVMW-107F**
SVL Sample ID: **X4J0147-02 (Ground Water)**

Sampled: 07-Oct-24 09:08
Received: 08-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	39.6	mg/L	0.100	0.069		X441121	NMS	10/11/24 13:28	
EPA 200.7	**Magnesium**	18.1	mg/L	0.500	0.090		X441121	NMS	10/11/24 13:28	
EPA 200.7	**Potassium**	0.94	mg/L	0.50	0.18		X441121	NMS	10/11/24 13:28	
SM 2340 B	**Hardness (as CaCO3)**	173	mg/L	2.31	0.543		N/A		10/11/24 13:08	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X441201	NMS	10/11/24 13:08	
EPA 200.7	**Barium**	0.165	mg/L	0.0020	0.0019		X441201	NMS	10/11/24 13:08	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X441201	NMS	10/11/24 13:08	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X441201	NMS	10/11/24 13:08	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X441201	NMS	10/11/24 13:08	
EPA 200.7	**Calcium**	37.6	mg/L	0.100	0.069		X441201	NMS	10/11/24 13:08	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X441201	NMS	10/11/24 13:08	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X441201	NMS	10/11/24 13:08	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X441201	NMS	10/11/24 13:08	
EPA 200.7	**Iron**	1.42	mg/L	0.100	0.056		X441201	NMS	10/11/24 13:08	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X441201	NMS	10/11/24 13:08	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X441201	NMS	10/11/24 13:08	
EPA 200.7	**Magnesium**	16.9	mg/L	0.500	0.090		X441201	NMS	10/11/24 13:08	
EPA 200.7	**Manganese**	0.257	mg/L	0.0080	0.0034		X441201	NMS	10/11/24 13:08	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X441201	NMS	10/11/24 13:08	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X441201	NMS	10/11/24 13:08	
EPA 200.7	**Potassium**	0.90	mg/L	0.50	0.18		X441201	NMS	10/11/24 13:08	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X441201	NMS	10/11/24 13:08	
EPA 200.7	**Sodium**	9.36	mg/L	0.50	0.12		X441201	NMS	10/11/24 13:08	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X441201	NMS	10/11/24 13:08	
EPA 200.7	**Zinc**	0.0113	mg/L	0.0100	0.0054		X441201	NMS	10/11/24 13:08	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X442006	SMU	10/21/24 11:56	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X442006	SMU	10/21/24 11:56	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X442006	SMU	10/21/24 11:56	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X442006	SMU	10/21/24 11:56	
EPA 200.8	**Uranium**	0.00412	mg/L	0.000100	0.000052		X442006	SMU	10/21/24 11:56	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X441113	MAC	10/11/24 18:14	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X441169	DD	10/14/24 12:55	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X442002	JPM	10/15/24 11:07	
EPA 350.1	**Ammonia as N**	0.031	mg/L	0.030	0.013		X441098	DD	10/09/24 18:42	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442184	DD	10/18/24 09:33	
SM 2310 B	**Acidity to pH 8.3**	-164	mg/L as CaCO3	10.0			X441194	MWD	10/11/24 12:59	
SM 2320 B	**Total Alkalinity**	169	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:58	
SM 2320 B	**Bicarbonate**	169	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:58	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:58	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X441107	MWD	10/10/24 11:58	
SM 2540 C	**Total Diss. Solids**	223	mg/L	10			X441129	TJL	10/11/24 13:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X441130	TJL	10/11/24 14:30	
SM 4500 H B	**pH @20.0°C**	8.0	pH Units				X441107	MWD	10/10/24 11:58	H5

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0147**
Reported: 23-Oct-24 09:52

Client Sample ID: **GVMW-107F**
SVL Sample ID: **X4J0147-02 (Ground Water)**

Sampled: 07-Oct-24 09:08
Received: 08-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	10.5	mg/L	0.20	0.02		X441067	RS	10/08/24 18:13	
EPA 300.0	**Fluoride**	0.855	mg/L	0.100	0.017		X441067	RS	10/08/24 18:13	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X441067	RS	10/08/24 18:13	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X441067	RS	10/08/24 18:13	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X441067	RS	10/08/24 18:13	
EPA 300.0	**Sulfate as SO4**	22.5	mg/L	0.30	0.18		X441067	RS	10/08/24 18:13	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.77 meq/L Anion Sum: 4.19 meq/L C/A Balance: -5.24 % Calculated TDS: 202 TDS/cTDS: 1.11

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 / 2024-09
Work Order: **X4J0147**
Reported: 23-Oct-24 09:52

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	X441121	11-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X441121	11-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X441121	11-Oct-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X441201	11-Oct-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X441201	11-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X441201	11-Oct-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X441201	11-Oct-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X441201	11-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X441201	11-Oct-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X441201	11-Oct-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X441201	11-Oct-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X441201	11-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X441201	11-Oct-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X441201	11-Oct-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X441201	11-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X441201	11-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X441201	11-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X441201	11-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X441201	11-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X441201	11-Oct-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X441201	11-Oct-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X441201	11-Oct-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X441201	11-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X441201	11-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X442006	21-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X442006	21-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X442006	21-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X442006	21-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X442006	21-Oct-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X441113	11-Oct-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X441169	10-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X442002	15-Oct-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X441098	09-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X442184	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X441194	11-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X441107	10-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X441107	10-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X441107	10-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X441107	10-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X441129	11-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X441130	11-Oct-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X441067	08-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X441067	08-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X441067	08-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X441067	08-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X441067	08-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X441067	08-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0147**
Reported: 23-Oct-24 09:52

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	19.7	20.0	98	85 - 115	X441121	11-Oct-24	
EPA 200.7	Magnesium	mg/L	20.1	20.0	101	85 - 115	X441121	11-Oct-24	
EPA 200.7	Potassium	mg/L	19.8	20.0	98.9	85 - 115	X441121	11-Oct-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.936	1.00	93.6	85 - 115	X441201	11-Oct-24	
EPA 200.7	Barium	mg/L	0.961	1.00	96.1	85 - 115	X441201	11-Oct-24	
EPA 200.7	Beryllium	mg/L	0.979	1.00	97.9	85 - 115	X441201	11-Oct-24	
EPA 200.7	Boron	mg/L	0.956	1.00	95.6	85 - 115	X441201	11-Oct-24	
EPA 200.7	Cadmium	mg/L	0.960	1.00	96.0	85 - 115	X441201	11-Oct-24	
EPA 200.7	Calcium	mg/L	19.0	20.0	94.9	85 - 115	X441201	11-Oct-24	
EPA 200.7	Chromium	mg/L	0.970	1.00	97.0	85 - 115	X441201	11-Oct-24	
EPA 200.7	Cobalt	mg/L	0.938	1.00	93.8	85 - 115	X441201	11-Oct-24	
EPA 200.7	Copper	mg/L	0.957	1.00	95.7	85 - 115	X441201	11-Oct-24	
EPA 200.7	Iron	mg/L	9.62	10.0	96.2	85 - 115	X441201	11-Oct-24	
EPA 200.7	Lead	mg/L	0.945	1.00	94.5	85 - 115	X441201	11-Oct-24	
EPA 200.7	Lithium	mg/L	0.928	1.00	92.8	85 - 115	X441201	11-Oct-24	
EPA 200.7	Magnesium	mg/L	18.6	20.0	92.9	85 - 115	X441201	11-Oct-24	
EPA 200.7	Manganese	mg/L	0.955	1.00	95.5	85 - 115	X441201	11-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.968	1.00	96.8	85 - 115	X441201	11-Oct-24	
EPA 200.7	Nickel	mg/L	0.944	1.00	94.4	85 - 115	X441201	11-Oct-24	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.5	85 - 115	X441201	11-Oct-24	
EPA 200.7	Silver	mg/L	0.0492	0.0500	98.5	85 - 115	X441201	11-Oct-24	
EPA 200.7	Sodium	mg/L	18.1	19.0	95.3	85 - 115	X441201	11-Oct-24	
EPA 200.7	Vanadium	mg/L	0.971	1.00	97.1	85 - 115	X441201	11-Oct-24	
EPA 200.7	Zinc	mg/L	0.967	1.00	96.7	85 - 115	X441201	11-Oct-24	
EPA 200.8	Antimony	mg/L	0.0241	0.0250	96.4	85 - 115	X442006	21-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0253	0.0250	101	85 - 115	X442006	21-Oct-24	
EPA 200.8	Selenium	mg/L	0.0256	0.0250	103	85 - 115	X442006	21-Oct-24	
EPA 200.8	Thallium	mg/L	0.0254	0.0250	102	85 - 115	X442006	21-Oct-24	
EPA 200.8	Uranium	mg/L	0.0262	0.0250	105	85 - 115	X442006	21-Oct-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00201	0.00200	100	85 - 115	X441113	11-Oct-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.103	0.100	103	90 - 110	X441169	10-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X442002	15-Oct-24	
EPA 350.1	Ammonia as N	mg/L	0.978	1.00	97.8	90 - 110	X441098	09-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X442184	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	881	884	99.6	95.4 - 104	X441194	11-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.60	9.93	96.7	96.4 - 105	X441107	10-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X441107	10-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	412	397	104	96.4 - 105	X441107	10-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X441130	11-Oct-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.92	3.00	97.4	90 - 110	X441067	08-Oct-24	
EPA 300.0	Fluoride	mg/L	1.94	2.00	97.2	90 - 110	X441067	08-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	98.1	90 - 110	X441067	08-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.46	4.50	99.2	90 - 110	X441067	08-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	100	90 - 110	X441067	08-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	9.89	10.0	98.9	90 - 110	X441067	08-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0147**
Reported: 23-Oct-24 09:52

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X441194 - X4J0074-01	11-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	178	180	0.8	20	X441107 - X4J0075-01	10-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	178	180	0.8	20	X441107 - X4J0075-01	10-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X441107 - X4J0075-01	10-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X441107 - X4J0075-01	10-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	222	223	0.4	10	X441129 - X4J0147-02	11-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	254	254	0.0	10	X441129 - X4J0138-02	11-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	180	110	48.3	10	X441130 - X4J0138-02	11-Oct-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X441130 - X4J0147-02	11-Oct-24	
SM 4500 H B	pH @18.1°C	pH Units	8.1	8.1	0.2	20	X441107 - X4J0075-01	10-Oct-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	77.7	56.1	20.0	108	70 - 130	X441121 - X4J0138-02	11-Oct-24	
EPA 200.7	Calcium	mg/L	58.8	39.6	20.0	96	70 - 130	X441121 - X4J0147-02	11-Oct-24	
EPA 200.7	Magnesium	mg/L	28.6	7.50	20.0	106	70 - 130	X441121 - X4J0138-02	11-Oct-24	
EPA 200.7	Magnesium	mg/L	38.6	18.1	20.0	103	70 - 130	X441121 - X4J0147-02	11-Oct-24	
EPA 200.7	Potassium	mg/L	25.3	4.65	20.0	103	70 - 130	X441121 - X4J0138-02	11-Oct-24	
EPA 200.7	Potassium	mg/L	20.7	0.94	20.0	98.7	70 - 130	X441121 - X4J0147-02	11-Oct-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Aluminum	mg/L	0.945	<0.080	1.00	94.5	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Barium	mg/L	0.956	0.0174	1.00	93.9	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Barium	mg/L	0.956	<0.0020	1.00	95.6	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Beryllium	mg/L	0.987	<0.00200	1.00	98.7	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Beryllium	mg/L	0.985	<0.00200	1.00	98.5	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Boron	mg/L	1.06	0.0814	1.00	97.7	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Boron	mg/L	0.954	<0.0400	1.00	95.4	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Cadmium	mg/L	0.909	<0.0020	1.00	90.9	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Cadmium	mg/L	0.968	<0.0020	1.00	96.8	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Calcium	mg/L	457	427	20.0	0.30R>S	70 - 130	X441201 - X4J0219-01	11-Oct-24	M3
EPA 200.7	Calcium	mg/L	18.7	<0.100	20.0	93.5	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Chromium	mg/L	0.940	<0.0060	1.00	94.0	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Chromium	mg/L	0.973	<0.0060	1.00	97.3	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Cobalt	mg/L	0.916	<0.0060	1.00	91.6	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Cobalt	mg/L	0.936	<0.0060	1.00	93.6	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Copper	mg/L	1.02	0.0147	1.00	100	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Copper	mg/L	0.936	<0.0100	1.00	93.6	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Iron	mg/L	9.56	<0.100	10.0	95.6	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Iron	mg/L	9.56	<0.100	10.0	95.6	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Lead	mg/L	0.925	<0.0075	1.00	92.5	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Lead	mg/L	0.953	<0.0075	1.00	95.3	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	105	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Lithium	mg/L	0.917	<0.040	1.00	91.7	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Magnesium	mg/L	92.4	71.0	20.0	107	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Magnesium	mg/L	18.5	<0.500	20.0	92.7	70 - 130	X441201 - X4J0219-13	11-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0147**
Reported: 23-Oct-24 09:52

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	1.32	0.394	1.00	93.1	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Manganese	mg/L	0.956	<0.0080	1.00	95.6	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.948	<0.0080	1.00	94.8	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.969	<0.0080	1.00	96.9	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Nickel	mg/L	0.936	<0.0100	1.00	92.8	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Nickel	mg/L	0.950	<0.0100	1.00	95.0	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Potassium	mg/L	23.7	4.11	20.0	98.0	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Potassium	mg/L	19.0	<0.50	20.0	94.9	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Silver	mg/L	0.0527	<0.0050	0.0500	105	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Silver	mg/L	0.0502	<0.0050	0.0500	100	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Sodium	mg/L	55.8	36.7	19.0	101	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Sodium	mg/L	17.9	<0.50	19.0	94.0	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Vanadium	mg/L	0.960	<0.0050	1.00	96.0	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Vanadium	mg/L	0.973	<0.0050	1.00	97.3	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.7	Zinc	mg/L	1.26	0.303	1.00	95.7	70 - 130	X441201 - X4J0219-01	11-Oct-24	
EPA 200.7	Zinc	mg/L	0.978	<0.0100	1.00	97.8	70 - 130	X441201 - X4J0219-13	11-Oct-24	
EPA 200.8	Antimony	mg/L	0.0244	<0.00100	0.0250	97.6	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Antimony	mg/L	0.0275	<0.00100	0.0250	110	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0258	<0.00100	0.0250	101	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0301	<0.00100	0.0250	118	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Selenium	mg/L	0.0234	<0.00100	0.0250	93.6	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Selenium	mg/L	0.0301	<0.00100	0.0250	120	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Thallium	mg/L	0.0251	<0.000200	0.0250	100	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Thallium	mg/L	0.0285	<0.000200	0.0250	114	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Uranium	mg/L	0.0305	0.00416	0.0250	105	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Uranium	mg/L	0.0561	0.0262	0.0250	120	70 - 130	X442006 - X4J0236-01	22-Oct-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00198	<0.000200	0.00200	98.8	70 - 130	X441113 - X4J0144-01	11-Oct-24	
EPA 245.1	Mercury	mg/L	0.00204	<0.000200	0.00200	102	70 - 130	X441113 - X4J0146-02	11-Oct-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0960	<0.0050	0.100	96.0	79 - 121	X441169 - X4J0074-01	10-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X442002 - X4J0180-02	15-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X442002 - X4J0180-01	15-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.09	<0.030	1.00	109	90 - 110	X441098 - X4J0110-01	09-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.05	<0.030	1.00	105	90 - 110	X441098 - X4J0110-02	09-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0950	<0.0050	0.100	91.0	82 - 118	X442184 - X4J0146-01	18-Oct-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.87	<0.20	3.00	94.2	90 - 110	X441067 - X4J0145-01	08-Oct-24	
EPA 300.0	Chloride	mg/L	3.03	<0.20	3.00	97.0	90 - 110	X441067 - X4J0147-01	08-Oct-24	
EPA 300.0	Fluoride	mg/L	1.94	<0.100	2.00	97.0	90 - 110	X441067 - X4J0145-01	08-Oct-24	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	96.5	90 - 110	X441067 - X4J0147-01	08-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.91	<0.050	2.00	95.7	90 - 110	X441067 - X4J0145-01	08-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.92	<0.050	2.00	96.0	90 - 110	X441067 - X4J0147-01	08-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.89	<0.100	4.00	97.4	90 - 110	X441067 - X4J0145-01	08-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.92	<0.100	4.00	97.9	90 - 110	X441067 - X4J0147-01	08-Oct-24	
EPA 300.0	Nitrite as N	mg/L	1.98	<0.050	2.00	99.0	90 - 110	X441067 - X4J0145-01	08-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	99.8	90 - 110	X441067 - X4J0147-01	08-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	9.88	<0.30	10.0	98.8	90 - 110	X441067 - X4J0145-01	08-Oct-24	

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Newmont - Cripple Creek & Victor
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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0147**
Reported: 23-Oct-24 09:52

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	10.2	0.31	10.0	98.8	90 - 110	X441067 - X4J0147-01	08-Oct-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	76.2	77.7	20.0	2.0	20	101	X441121 - X4J0138-02	
EPA 200.7	Magnesium	mg/L	28.0	28.6	20.0	2.1	20	103	X441121 - X4J0138-02	
EPA 200.7	Potassium	mg/L	25.0	25.3	20.0	1.3	20	102	X441121 - X4J0138-02	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.02	1.00	0.8	20	101	X441201 - X4J0219-01	
EPA 200.7	Barium	mg/L	0.948	0.956	1.00	0.8	20	93.1	X441201 - X4J0219-01	
EPA 200.7	Beryllium	mg/L	1.00	0.987	1.00	1.4	20	100	X441201 - X4J0219-01	
EPA 200.7	Boron	mg/L	1.05	1.06	1.00	0.8	20	96.8	X441201 - X4J0219-01	
EPA 200.7	Cadmium	mg/L	0.931	0.909	1.00	2.4	20	93.1	X441201 - X4J0219-01	
EPA 200.7	Calcium	mg/L	453	457	20.0	0.8	20	126	X441201 - X4J0219-01	
EPA 200.7	Chromium	mg/L	0.954	0.940	1.00	1.6	20	95.4	X441201 - X4J0219-01	
EPA 200.7	Cobalt	mg/L	0.936	0.916	1.00	2.1	20	93.6	X441201 - X4J0219-01	
EPA 200.7	Copper	mg/L	1.02	1.02	1.00	0.8	20	101	X441201 - X4J0219-01	
EPA 200.7	Iron	mg/L	9.55	9.56	10.0	0.1	20	95.5	X441201 - X4J0219-01	
EPA 200.7	Lead	mg/L	0.940	0.925	1.00	1.7	20	94.0	X441201 - X4J0219-01	
EPA 200.7	Lithium	mg/L	1.04	1.05	1.00	1.2	20	104	X441201 - X4J0219-01	
EPA 200.7	Magnesium	mg/L	91.6	92.4	20.0	0.9	20	103	X441201 - X4J0219-01	
EPA 200.7	Manganese	mg/L	1.33	1.32	1.00	0.6	20	93.8	X441201 - X4J0219-01	
EPA 200.7	Molybdenum	mg/L	0.973	0.948	1.00	2.5	20	97.3	X441201 - X4J0219-01	
EPA 200.7	Nickel	mg/L	0.959	0.936	1.00	2.5	20	95.1	X441201 - X4J0219-01	
EPA 200.7	Potassium	mg/L	23.6	23.7	20.0	0.5	20	97.4	X441201 - X4J0219-01	
EPA 200.7	Silver	mg/L	0.0520	0.0527	0.0500	1.4	20	104	X441201 - X4J0219-01	
EPA 200.7	Sodium	mg/L	55.3	55.8	19.0	1.0	20	97.8	X441201 - X4J0219-01	
EPA 200.7	Vanadium	mg/L	0.974	0.960	1.00	1.4	20	97.4	X441201 - X4J0219-01	
EPA 200.7	Zinc	mg/L	1.28	1.26	1.00	1.9	20	98.1	X441201 - X4J0219-01	
EPA 200.8	Antimony	mg/L	0.0249	0.0244	0.0250	1.9	20	99.4	X442006 - X4J0146-01	
EPA 200.8	Arsenic	mg/L	0.0258	0.0258	0.0250	0.3	20	101	X442006 - X4J0146-01	
EPA 200.8	Selenium	mg/L	0.0261	0.0234	0.0250	10.9	20	104	X442006 - X4J0146-01	
EPA 200.8	Thallium	mg/L	0.0253	0.0251	0.0250	0.9	20	101	X442006 - X4J0146-01	
EPA 200.8	Uranium	mg/L	0.0310	0.0305	0.0250	1.9	20	107	X442006 - X4J0146-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	0.00198	0.00200	0.9	20	99.8	X441113 - X4J0144-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.0960	0.100	3.1	11	99.0	X441169 - X4J0074-01	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.102	0.100	1.1	20	103	X442002 - X4J0180-02	
EPA 350.1	Ammonia as N	mg/L	1.10	1.09	1.00	0.7	20	110	X441098 - X4J0110-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	0.0950	0.100	1.1	11	92.0	X442184 - X4J0146-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.04	3.03	3.00	0.4	20	97.4	X441067 - X4J0147-01	
EPA 300.0	Fluoride	mg/L	2.03	2.02	2.00	0.6	20	97.2	X441067 - X4J0147-01	
EPA 300.0	Nitrate as N	mg/L	1.94	1.92	2.00	1.2	20	97.2	X441067 - X4J0147-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.95	3.92	4.00	0.9	20	98.9	X441067 - X4J0147-01	
EPA 300.0	Nitrite as N	mg/L	2.01	2.00	2.00	0.7	20	101	X441067 - X4J0147-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0147**
Reported: 23-Oct-24 09:52

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	10.2	10.2	10.0	0.1	20	98.9	X441067 - X4J0147-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09**
Post Office Box 191	Work Order: **X4J0147**
Victor, CO 80860	Reported: 23-Oct-24 09:52

Notes and Definitions

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

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09**
Post Office Box 191	Work Order: **X4J0214**
Victor, CO 80860	Reported: 24-Oct-24 17:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-108F	X4J0214-01	Ground Water	09-Oct-24 09:37	TR	10-Oct-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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0214

The state of origin only accredits for drinking water analyses.

Samples treated with $CdCO_3$ 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 / 2024-09
Work Order: **X4J0214**
Reported: 24-Oct-24 17:26

Client Sample ID: **GVMW-108F**
SVL Sample ID: **X4J0214-01 (Ground Water)**

Sampled: 09-Oct-24 09:37
Received: 10-Oct-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**	47.4	mg/L	0.100	0.069		X441185	SJN	10/15/24 11:13	
EPA 200.7	**Magnesium**	6.01	mg/L	0.500	0.090		X441185	SJN	10/15/24 11:13	
EPA 200.7	**Potassium**	0.83	mg/L	0.50	0.18		X441185	SJN	10/15/24 11:13	
SM 2340 B	**Hardness (as CaCO3)**	143	mg/L	2.31	0.543		N/A		10/24/24 10:18	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X443015	NMS	10/24/24 10:18	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X443015	NMS	10/24/24 10:18	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X443015	NMS	10/24/24 10:18	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X443015	NMS	10/24/24 10:18	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X443015	NMS	10/24/24 10:18	
EPA 200.7	**Calcium**	48.4	mg/L	0.100	0.069		X443015	NMS	10/24/24 10:18	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X443015	NMS	10/24/24 10:18	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X443015	NMS	10/24/24 10:18	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X443015	NMS	10/24/24 10:18	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X443015	NMS	10/24/24 10:18	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X443015	NMS	10/24/24 10:18	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X443015	NMS	10/24/24 10:18	
EPA 200.7	**Magnesium**	6.38	mg/L	0.500	0.090		X443015	NMS	10/24/24 10:18	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X443015	NMS	10/24/24 10:18	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X443015	NMS	10/24/24 10:18	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X443015	NMS	10/24/24 10:18	
EPA 200.7	**Potassium**	0.76	mg/L	0.50	0.18		X443015	NMS	10/24/24 10:18	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X443015	NMS	10/24/24 10:18	
EPA 200.7	**Sodium**	23.5	mg/L	0.50	0.12		X443015	NMS	10/24/24 10:18	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X443015	NMS	10/24/24 10:18	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X443015	NMS	10/24/24 10:18	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X442006	SMU	10/21/24 12:09	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X442006	SMU	10/21/24 12:09	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X442006	SMU	10/21/24 12:09	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X442006	SMU	10/21/24 12:09	
EPA 200.8	**Uranium**	0.00474	mg/L	0.000100	0.000052		X442006	SMU	10/22/24 17:07	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X441208	MAC	10/16/24 15:44	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X441170	DD	10/14/24 13:49	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X442002	JPM	10/15/24 11:44	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X441162	JPM	10/11/24 13:15	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442185	DD	10/18/24 10:08	
SM 2310 B	**Acidity to pH 8.3**	-42.8	mg/L as CaCO3	10.0			X443009	MWD	10/22/24 13:09	
SM 2320 B	**Total Alkalinity**	49.3	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:14	
SM 2320 B	**Bicarbonate**	49.3	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:14	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:14	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:14	
SM 2540 C	**Total Diss. Solids**	388	mg/L	10			X441159	TJL	10/14/24 13:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X441160	TJL	10/14/24 12:40	
SM 4500 H B	**pH @18.4°C**	7.0	pH Units				X442056	MWD	10/15/24 11:14	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 / 2024-09
Work Order: **X4J0214**
Reported: 24-Oct-24 17:26

Client Sample ID: **GVMW-108F**
SVL Sample ID: **X4J0214-01 (Ground Water)**

Sampled: 09-Oct-24 09:37
Received: 10-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	61.3	mg/L	2.00	0.22	10	X441155	RS	10/10/24 13:16	
EPA 300.0	**Fluoride**	1.90	mg/L	0.100	0.017		X441155	RS	10/10/24 13:00	
EPA 300.0	**Nitrate as N**	1.18	mg/L	0.050	0.013		X441155	RS	10/10/24 13:00	
EPA 300.0	**Nitrate+Nitrite as N**	1.18	mg/L	0.100	0.044		X441155	RS	10/10/24 13:00	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X441155	RS	10/10/24 13:00	
EPA 300.0	**Sulfate as SO4**	60.4	mg/L	3.00	1.80	10	X441155	RS	10/10/24 13:16	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 3.91 meq/L Anion Sum: 4.16 meq/L C/A Balance: -2.99 % Calculated TDS: 237 TDS/cTDS: 1.64

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

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0214**
Reported: 24-Oct-24 17:26

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	X441185	15-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X441185	15-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X441185	15-Oct-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X443015	24-Oct-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X443015	24-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X443015	24-Oct-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X443015	24-Oct-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X443015	24-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X443015	24-Oct-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X443015	24-Oct-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X443015	24-Oct-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X443015	24-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X443015	24-Oct-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X443015	24-Oct-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X443015	24-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X443015	24-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X443015	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X443015	24-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X443015	24-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X443015	24-Oct-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X443015	24-Oct-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X443015	24-Oct-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X443015	24-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X443015	24-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X442006	21-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X442006	21-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X442006	21-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X442006	21-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X442006	21-Oct-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X441208	16-Oct-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X441170	14-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X442002	15-Oct-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X441162	11-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X442185	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X443009	22-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X442056	15-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X442056	15-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X442056	15-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X442056	15-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X441159	14-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X441160	14-Oct-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X441155	10-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X441155	10-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X441155	10-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X441155	10-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X441155	10-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X441155	10-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0214**
Reported: 24-Oct-24 17:26

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	19.4	20.0	97	85 - 115	X441185	15-Oct-24	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.4	85 - 115	X441185	15-Oct-24	
EPA 200.7	Potassium	mg/L	19.3	20.0	96.7	85 - 115	X441185	15-Oct-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.946	1.00	94.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Barium	mg/L	0.963	1.00	96.3	85 - 115	X443015	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.957	1.00	95.7	85 - 115	X443015	24-Oct-24	
EPA 200.7	Boron	mg/L	0.931	1.00	93.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.931	1.00	93.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Calcium	mg/L	18.8	20.0	93.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Chromium	mg/L	0.976	1.00	97.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.909	1.00	90.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Copper	mg/L	0.952	1.00	95.2	85 - 115	X443015	24-Oct-24	
EPA 200.7	Iron	mg/L	9.59	10.0	95.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Lead	mg/L	0.927	1.00	92.7	85 - 115	X443015	24-Oct-24	
EPA 200.7	Lithium	mg/L	0.981	1.00	98.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.8	85 - 115	X443015	24-Oct-24	
EPA 200.7	Manganese	mg/L	0.960	1.00	96.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.935	1.00	93.5	85 - 115	X443015	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.920	1.00	92.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0468	0.0500	93.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Sodium	mg/L	17.9	19.0	94.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.966	1.00	96.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.919	1.00	91.9	85 - 115	X443015	24-Oct-24	
EPA 200.8	Antimony	mg/L	0.0241	0.0250	96.4	85 - 115	X442006	21-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0253	0.0250	101	85 - 115	X442006	21-Oct-24	
EPA 200.8	Selenium	mg/L	0.0256	0.0250	103	85 - 115	X442006	21-Oct-24	
EPA 200.8	Thallium	mg/L	0.0254	0.0250	102	85 - 115	X442006	21-Oct-24	
EPA 200.8	Uranium	mg/L	0.0262	0.0250	105	85 - 115	X442006	21-Oct-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00193	0.00200	96.5	85 - 115	X441208	16-Oct-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.109	0.100	109	90 - 110	X441170	15-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X442002	15-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X441162	11-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0990	0.100	99.0	90 - 110	X442185	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	898	884	102	95.4 - 104	X443009	22-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X442056	15-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X442056	15-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	96.4 - 105	X442056	15-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X441160	14-Oct-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.97	3.00	99.0	90 - 110	X441155	10-Oct-24	
EPA 300.0	Fluoride	mg/L	1.88	2.00	94.2	90 - 110	X441155	10-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	99.9	90 - 110	X441155	10-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.55	4.50	101	90 - 110	X441155	10-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.55	2.50	102	90 - 110	X441155	10-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.0	10.0	100	90 - 110	X441155	10-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0214**
Reported: 24-Oct-24 17:26

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	<10.0	<10.0	UDL	20	X443009 - X4J0183-01	22-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	50.0	49.3	1.4	20	X442056 - X4J0214-01	15-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	50.0	49.3	1.4	20	X442056 - X4J0214-01	15-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442056 - X4J0214-01	15-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442056 - X4J0214-01	15-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	258	274	6.0	10	X441159 - X4J0217-02	14-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	296	289	2.4	10	X441159 - X4J0210-01	14-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X441160 - X4J0217-02	14-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	38.0	34.0	11.1	10	X441160 - X4J0210-01	14-Oct-24	R2B
SM 4500 H B	pH @18.4°C	pH Units	7.0	7.0	0.6	20	X442056 - X4J0214-01	15-Oct-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	67.6	47.4	20.0	101	70 - 130	X441185 - X4J0214-01	15-Oct-24	
EPA 200.7	Magnesium	mg/L	26.5	6.01	20.0	102	70 - 130	X441185 - X4J0214-01	15-Oct-24	
EPA 200.7	Potassium	mg/L	20.1	0.83	20.0	96.6	70 - 130	X441185 - X4J0214-01	15-Oct-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.993	<0.080	1.00	99.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Aluminum	mg/L	0.983	<0.080	1.00	98.3	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Barium	mg/L	1.04	0.0411	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Barium	mg/L	1.02	0.0249	1.00	99.8	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.989	<0.00200	1.00	98.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.987	<0.00200	1.00	98.7	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Boron	mg/L	0.999	<0.0400	1.00	97.4	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Boron	mg/L	1.03	0.0542	1.00	97.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.977	<0.0020	1.00	97.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.989	<0.0020	1.00	98.9	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Calcium	mg/L	60.0	40.7	20.0	96.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Calcium	mg/L	210	188	20.0	110	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Chromium	mg/L	0.998	<0.0060	1.00	99.8	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.938	<0.0060	1.00	93.8	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.935	<0.0060	1.00	93.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Copper	mg/L	0.977	<0.0100	1.00	97.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Copper	mg/L	0.980	<0.0100	1.00	98.0	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Iron	mg/L	10.8	0.947	10.0	98.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Iron	mg/L	9.81	<0.100	10.0	98.1	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Lead	mg/L	0.949	<0.0075	1.00	94.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Lead	mg/L	0.942	<0.0075	1.00	94.2	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Lithium	mg/L	1.02	<0.040	1.00	102	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	102	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Magnesium	mg/L	30.7	10.8	20.0	99.1	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Magnesium	mg/L	37.2	17.3	20.0	99.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Manganese	mg/L	1.19	0.193	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Manganese	mg/L	1.12	0.123	1.00	99.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.971	0.0167	1.00	95.4	70 - 130	X443015 - X4J0181-01	24-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0214**
Reported: 24-Oct-24 17:26

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	Molybdenum	mg/L	0.979	<0.0080	1.00	97.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.963	<0.0100	1.00	96.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.936	<0.0100	1.00	93.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Potassium	mg/L	22.4	2.16	20.0	101	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Potassium	mg/L	24.0	3.46	20.0	102	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0463	<0.0050	0.0500	92.6	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Sodium	mg/L	34.0	15.4	19.0	98.1	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Sodium	mg/L	63.4	44.3	19.0	101	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.993	<0.0050	1.00	99.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.999	<0.0050	1.00	99.9	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.957	<0.0100	1.00	95.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.957	<0.0100	1.00	95.0	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.8	Antimony	mg/L	0.0244	<0.00100	0.0250	97.6	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Antimony	mg/L	0.0275	<0.00100	0.0250	110	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0258	<0.00100	0.0250	101	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0301	<0.00100	0.0250	118	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Selenium	mg/L	0.0234	<0.00100	0.0250	93.6	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Selenium	mg/L	0.0301	<0.00100	0.0250	120	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Thallium	mg/L	0.0251	<0.000200	0.0250	100	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Thallium	mg/L	0.0285	<0.000200	0.0250	114	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Uranium	mg/L	0.0305	0.00416	0.0250	105	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Uranium	mg/L	0.0561	0.0262	0.0250	120	70 - 130	X442006 - X4J0236-01	22-Oct-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	101	70 - 130	X441208 - X4J0210-01	16-Oct-24	
EPA 245.1	Mercury	mg/L	0.00196	<0.000200	0.00200	98.0	70 - 130	X441208 - X4J0221-01	16-Oct-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0930	<0.0050	0.100	93.0	79 - 121	X441170 - X4J0144-01	14-Oct-24	R4
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X442002 - X4J0180-02	15-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X442002 - X4J0180-01	15-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X441162 - X4J0203-01	11-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.06	0.047	1.00	102	90 - 110	X441162 - X4J0203-02	11-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	<0.0050	0.100	103	82 - 118	X442185 - X4J0214-01	18-Oct-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.1	7.09	3.00	101	90 - 110	X441155 - X4J0210-01	10-Oct-24	
EPA 300.0	Fluoride	mg/L	1.86	0.222	2.00	81.8	90 - 110	X441155 - X4J0210-01	10-Oct-24	M2
EPA 300.0	Nitrate as N	mg/L	1.92	<0.050	2.00	96.0	90 - 110	X441155 - X4J0210-01	10-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.93	<0.100	4.00	98.4	90 - 110	X441155 - X4J0210-01	10-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X441155 - X4J0210-01	10-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	37.9	28.0	10.0	99.0	90 - 110	X441155 - X4J0210-01	10-Oct-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	67.5	67.6	20.0	0.1	20	101	X441185 - X4J0214-01	
EPA 200.7	Magnesium	mg/L	26.3	26.5	20.0	0.7	20	102	X441185 - X4J0214-01	
EPA 200.7	Potassium	mg/L	20.1	20.1	20.0	0.2	20	96.4	X441185 - X4J0214-01	

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 / 2024-09
Work Order: **X4J0214**
Reported: 24-Oct-24 17:26

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.00	0.993	1.00	0.9	20	100	X443015 - X4J0181-01	
EPA 200.7	Barium	mg/L	1.05	1.04	1.00	1.2	20	101	X443015 - X4J0181-01	
EPA 200.7	Beryllium	mg/L	1.00	0.989	1.00	1.3	20	100	X443015 - X4J0181-01	
EPA 200.7	Boron	mg/L	1.02	0.999	1.00	2.5	20	99.9	X443015 - X4J0181-01	
EPA 200.7	Cadmium	mg/L	1.01	0.977	1.00	3.1	20	101	X443015 - X4J0181-01	
EPA 200.7	Calcium	mg/L	60.1	60.0	20.0	0.1	20	96.7	X443015 - X4J0181-01	
EPA 200.7	Chromium	mg/L	1.02	1.00	1.00	1.2	20	102	X443015 - X4J0181-01	
EPA 200.7	Cobalt	mg/L	0.966	0.938	1.00	3.0	20	96.6	X443015 - X4J0181-01	
EPA 200.7	Copper	mg/L	1.00	0.977	1.00	2.5	20	100	X443015 - X4J0181-01	
EPA 200.7	Iron	mg/L	10.8	10.8	10.0	0.1	20	98.8	X443015 - X4J0181-01	
EPA 200.7	Lead	mg/L	0.973	0.949	1.00	2.5	20	97.3	X443015 - X4J0181-01	
EPA 200.7	Lithium	mg/L	1.02	1.02	1.00	0.0	20	102	X443015 - X4J0181-01	
EPA 200.7	Magnesium	mg/L	30.8	30.7	20.0	0.4	20	99.7	X443015 - X4J0181-01	
EPA 200.7	Manganese	mg/L	1.20	1.19	1.00	0.3	20	100	X443015 - X4J0181-01	
EPA 200.7	Molybdenum	mg/L	0.995	0.971	1.00	2.4	20	97.8	X443015 - X4J0181-01	
EPA 200.7	Nickel	mg/L	0.964	0.963	1.00	0.2	20	96.4	X443015 - X4J0181-01	
EPA 200.7	Potassium	mg/L	22.4	22.4	20.0	0.4	20	101	X443015 - X4J0181-01	
EPA 200.7	Silver	mg/L	0.0473	0.0463	0.0500	2.1	20	94.6	X443015 - X4J0181-01	
EPA 200.7	Sodium	mg/L	33.9	34.0	19.0	0.4	20	97.4	X443015 - X4J0181-01	
EPA 200.7	Vanadium	mg/L	1.01	0.993	1.00	1.9	20	101	X443015 - X4J0181-01	
EPA 200.7	Zinc	mg/L	0.985	0.957	1.00	2.9	20	98.5	X443015 - X4J0181-01	
EPA 200.8	Antimony	mg/L	0.0249	0.0244	0.0250	1.9	20	99.4	X442006 - X4J0146-01	
EPA 200.8	Arsenic	mg/L	0.0258	0.0258	0.0250	0.3	20	101	X442006 - X4J0146-01	
EPA 200.8	Selenium	mg/L	0.0261	0.0234	0.0250	10.9	20	104	X442006 - X4J0146-01	
EPA 200.8	Thallium	mg/L	0.0253	0.0251	0.0250	0.9	20	101	X442006 - X4J0146-01	
EPA 200.8	Uranium	mg/L	0.0310	0.0305	0.0250	1.9	20	107	X442006 - X4J0146-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00198	0.00201	0.00200	1.7	20	98.9	X441208 - X4J0210-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.114	0.0930	0.100	20.3	11	114	X441170 - X4J0144-01	R4
EPA 335.4	Cyanide (total)	mg/L	0.103	0.102	0.100	1.1	20	103	X442002 - X4J0180-02	
EPA 350.1	Ammonia as N	mg/L	1.01	1.01	1.00	0.7	20	101	X441162 - X4J0203-01	
OIA 1677	Cyanide (WAD)	mg/L	0.105	0.104	0.100	1.0	11	104	X442185 - X4J0214-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.2	10.1	3.00	0.7	20	103	X441155 - X4J0210-01	
EPA 300.0	Fluoride	mg/L	1.97	1.86	2.00	5.8	20	87.3	X441155 - X4J0210-01	M2
EPA 300.0	Nitrate as N	mg/L	1.97	1.92	2.00	2.4	20	98.3	X441155 - X4J0210-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.03	3.93	4.00	2.4	20	101	X441155 - X4J0210-01	
EPA 300.0	Nitrite as N	mg/L	2.06	2.02	2.00	2.4	20	103	X441155 - X4J0210-01	
EPA 300.0	Sulfate as SO4	mg/L	38.2	37.9	10.0	0.6	20	101	X441155 - X4J0210-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09**
Post Office Box 191	Work Order: **X4J0214**
Victor, CO 80860	Reported: 24-Oct-24 17:26

Notes and Definitions

H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
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 / 2024-09**
Post Office Box 191	Work Order: **X4J0217**
Victor, CO 80860	Reported: 24-Oct-24 11:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-8A	X4J0217-01	Ground Water	09-Oct-24 09:37	TR	10-Oct-2024	
GVMW-8B	X4J0217-02	Ground Water	09-Oct-24 10:20	TR	10-Oct-2024	
GVMW-25	X4J0217-03	Ground Water	09-Oct-24 11:30	TR	10-Oct-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: X4J0217

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 / 2024-09
Work Order: **X4J0217**
Reported: 24-Oct-24 11:47

Client Sample ID: **GVMW-8A**
SVL Sample ID: **X4J0217-01 (Ground Water)**

Sampled: 09-Oct-24 09:37
Received: 10-Oct-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**	46.9	mg/L	0.100	0.069		X441205	SJN	10/15/24 12:06	
EPA 200.7	**Magnesium**	6.24	mg/L	0.500	0.090		X441205	SJN	10/15/24 12:06	
EPA 200.7	**Potassium**	0.76	mg/L	0.50	0.18		X441205	SJN	10/15/24 12:06	
SM 2340 B	**Hardness (as CaCO3)**	143	mg/L	2.31	0.543		N/A		10/16/24 12:50	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X442022	SJN	10/16/24 12:50	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X442022	SJN	10/16/24 12:50	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X442022	SJN	10/16/24 12:50	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X442022	SJN	10/16/24 12:50	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X442022	SJN	10/16/24 12:50	
EPA 200.7	**Calcium**	50.2	mg/L	0.100	0.069		X442022	SJN	10/16/24 12:50	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X442022	SJN	10/16/24 12:50	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X442022	SJN	10/16/24 12:50	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X442022	SJN	10/16/24 12:50	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X442022	SJN	10/16/24 12:50	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X442022	SJN	10/16/24 12:50	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X442022	SJN	10/16/24 12:50	
EPA 200.7	**Magnesium**	6.34	mg/L	0.500	0.090		X442022	SJN	10/16/24 12:50	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X442022	SJN	10/16/24 12:50	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X442022	SJN	10/16/24 12:50	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X442022	SJN	10/16/24 12:50	
EPA 200.7	**Potassium**	0.92	mg/L	0.50	0.18		X442022	SJN	10/16/24 12:50	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X442022	SJN	10/16/24 12:50	
EPA 200.7	**Sodium**	24.6	mg/L	0.50	0.12		X442022	SJN	10/16/24 12:50	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X442022	SJN	10/16/24 12:50	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X442022	SJN	10/16/24 12:50	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X442006	SMU	10/21/24 12:11	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X442006	SMU	10/21/24 12:11	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X442006	SMU	10/21/24 12:11	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X442006	SMU	10/21/24 12:11	
EPA 200.8	**Uranium**	0.00475	mg/L	0.000100	0.000052		X442006	SMU	10/22/24 17:10	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X441208	MAC	10/16/24 15:46	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X441170	DD	10/14/24 13:51	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X442002	JPM	10/15/24 11:47	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X441162	JPM	10/11/24 13:17	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442184	DD	10/18/24 09:53	
SM 2310 B	**Acidity to pH 8.3**	-42.8	mg/L as CaCO3	10.0			X443009	MWD	10/22/24 13:09	
SM 2320 B	**Total Alkalinity**	49.2	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:19	
SM 2320 B	**Bicarbonate**	49.2	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:19	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:19	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:19	
SM 2540 C	**Total Diss. Solids**	264	mg/L	10			X441159	TJL	10/14/24 13:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X441160	TJL	10/14/24 12:40	
SM 4500 H B	**pH @18.4°C**	7.0	pH Units				X442056	MWD	10/15/24 11:19	H5

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0217**
Reported: 24-Oct-24 11:47

Client Sample ID: **GVMW-8A**
SVL Sample ID: **X4J0217-01 (Ground Water)**

Sampled: 09-Oct-24 09:37
Received: 10-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	61.6	mg/L	2.00	0.22	10	X441155	RS	10/10/24 13:48	
EPA 300.0	**Fluoride**	1.90	mg/L	0.100	0.017		X441155	RS	10/10/24 13:32	
EPA 300.0	**Nitrate as N**	1.19	mg/L	0.050	0.013		X441155	RS	10/10/24 13:32	
EPA 300.0	**Nitrate+Nitrite as N**	1.19	mg/L	0.100	0.044		X441155	RS	10/10/24 13:32	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X441155	RS	10/10/24 13:32	
EPA 300.0	**Sulfate as SO4**	61.0	mg/L	3.00	1.80	10	X441155	RS	10/10/24 13:48	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 3.96 meq/L Anion Sum: 4.18 meq/L C/A Balance: -2.70 % Calculated TDS: 240 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 / 2024-09
Work Order: **X4J0217**
Reported: 24-Oct-24 11:47

Client Sample ID: **GVMW-8B**
SVL Sample ID: **X4J0217-02 (Ground Water)**

Sampled: 09-Oct-24 10:20
Received: 10-Oct-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**	43.2	mg/L	0.100	0.069		X441205	SJN	10/15/24 12:10	
EPA 200.7	**Magnesium**	7.13	mg/L	0.500	0.090		X441205	SJN	10/15/24 12:10	
EPA 200.7	**Potassium**	1.32	mg/L	0.50	0.18		X441205	SJN	10/15/24 12:10	
SM 2340 B	**Hardness (as CaCO3)**	143	mg/L	2.31	0.543		N/A		10/16/24 12:53	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X442022	SJN	10/16/24 12:53	
EPA 200.7	**Barium**	0.0072	mg/L	0.0020	0.0019		X442022	SJN	10/16/24 12:53	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X442022	SJN	10/16/24 12:53	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X442022	SJN	10/16/24 12:53	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X442022	SJN	10/16/24 12:53	
EPA 200.7	**Calcium**	45.5	mg/L	0.100	0.069		X442022	SJN	10/16/24 12:53	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X442022	SJN	10/16/24 12:53	
EPA 200.7	**Cobalt**	0.0086	mg/L	0.0060	0.0046		X442022	SJN	10/16/24 12:53	
EPA 200.7	**Copper**	0.0275	mg/L	0.0100	0.0027		X442022	SJN	10/16/24 12:53	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X442022	SJN	10/16/24 12:53	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X442022	SJN	10/16/24 12:53	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X442022	SJN	10/16/24 12:53	
EPA 200.7	**Magnesium**	7.04	mg/L	0.500	0.090		X442022	SJN	10/16/24 12:53	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X442022	SJN	10/16/24 12:53	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X442022	SJN	10/16/24 12:53	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X442022	SJN	10/16/24 12:53	
EPA 200.7	**Potassium**	1.71	mg/L	0.50	0.18		X442022	SJN	10/16/24 12:53	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X442022	SJN	10/16/24 12:53	
EPA 200.7	**Sodium**	25.5	mg/L	0.50	0.12		X442022	SJN	10/16/24 12:53	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X442022	SJN	10/16/24 12:53	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X442022	SJN	10/16/24 12:53	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X442006	SMU	10/21/24 12:14	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X442006	SMU	10/21/24 12:14	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X442006	SMU	10/21/24 12:14	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X442006	SMU	10/21/24 12:14	
EPA 200.8	**Uranium**	0.00260	mg/L	0.000100	0.000052		X442006	SMU	10/22/24 17:13	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X441208	MAC	10/16/24 15:48	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X441170	DD	10/14/24 13:53	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X442002	JPM	10/15/24 11:49	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X441162	JPM	10/11/24 13:19	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442184	DD	10/18/24 09:54	
SM 2310 B	**Acidity to pH 8.3**	-27.9	mg/L as CaCO3	10.0			X443009	MWD	10/22/24 13:09	
SM 2320 B	**Total Alkalinity**	39.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:24	
SM 2320 B	**Bicarbonate**	39.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:24	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:24	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:24	
SM 2540 C	**Total Diss. Solids**	274	mg/L	10			X441159	TJL	10/14/24 13:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X441160	TJL	10/14/24 12:40	
SM 4500 H B	**pH @18.5°C**	6.9	pH Units				X442056	MWD	10/15/24 11:24	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 / 2024-09
Work Order: **X4J0217**
Reported: 24-Oct-24 11:47

Client Sample ID: **GVMW-8B**
SVL Sample ID: **X4J0217-02 (Ground Water)**

Sampled: 09-Oct-24 10:20
Received: 10-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	43.4	mg/L	2.00	0.22	10	X441155	RS	10/10/24 14:51	
EPA 300.0	**Fluoride**	2.15	mg/L	0.100	0.017		X441155	RS	10/10/24 14:35	
EPA 300.0	**Nitrate as N**	2.13	mg/L	0.050	0.013		X441155	RS	10/10/24 14:35	
EPA 300.0	**Nitrate+Nitrite as N**	2.13	mg/L	0.100	0.044		X441155	RS	10/10/24 14:35	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X441155	RS	10/10/24 14:35	
EPA 300.0	**Sulfate as SO4**	88.1	mg/L	3.00	1.80	10	X441155	RS	10/10/24 14:51	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 3.89 meq/L Anion Sum: 4.10 meq/L C/A Balance: -2.64 % Calculated TDS: 245 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 / 2024-09
Work Order: **X4J0217**
Reported: 24-Oct-24 11:47

Client Sample ID: **GVMW-25**
SVL Sample ID: **X4J0217-03 (Ground Water)**

Sampled: 09-Oct-24 11:30
Received: 10-Oct-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**	512	mg/L	1.00	0.690	10	X441205	SJN	10/15/24 14:14	
EPA 200.7	**Magnesium**	402	mg/L	0.500	0.090		X441205	SJN	10/15/24 12:14	
EPA 200.7	**Potassium**	6.86	mg/L	0.50	0.18		X441205	SJN	10/15/24 12:14	
SM 2340 B	**Hardness (as CaCO3)**	3070	mg/L	2.31	0.543		N/A		10/16/24 12:57	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	1180	mg/L	0.800	0.540	10	X442022	SJN	10/16/24 13:44	M4
EPA 200.7	**Barium**	0.0145	mg/L	0.0020	0.0019		X442022	SJN	10/16/24 12:57	
EPA 200.7	**Beryllium**	0.715	mg/L	0.00200	0.00080		X442022	SJN	10/16/24 12:57	
EPA 200.7	**Boron**	0.0416	mg/L	0.0400	0.0078		X442022	SJN	10/16/24 12:57	
EPA 200.7	**Cadmium**	2.08	mg/L	0.0020	0.0016		X442022	SJN	10/16/24 12:57	
EPA 200.7	**Calcium**	565	mg/L	0.100	0.069		X442022	SJN	10/16/24 12:57	M3
EPA 200.7	**Chromium**	0.187	mg/L	0.0060	0.0020		X442022	SJN	10/16/24 12:57	
EPA 200.7	**Cobalt**	2.51	mg/L	0.0060	0.0046		X442022	SJN	10/16/24 12:57	
EPA 200.7	**Copper**	5.17	mg/L	0.0100	0.0027		X442022	SJN	10/16/24 12:57	
EPA 200.7	**Iron**	32.7	mg/L	0.100	0.056		X442022	SJN	10/16/24 12:57	
EPA 200.7	**Lead**	0.0675	mg/L	0.0075	0.0049		X442022	SJN	10/16/24 12:57	
EPA 200.7	**Lithium**	0.263	mg/L	0.040	0.025		X442022	SJN	10/16/24 12:57	M1
EPA 200.7	**Magnesium**	489	mg/L	0.500	0.090		X442022	SJN	10/16/24 12:57	M3
EPA 200.7	**Manganese**	296	mg/L	0.0800	0.0340	10	X442022	SJN	10/16/24 13:44	M4
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X442022	SJN	10/16/24 12:57	
EPA 200.7	**Nickel**	3.23	mg/L	0.0100	0.0048		X442022	SJN	10/16/24 12:57	
EPA 200.7	**Potassium**	7.04	mg/L	0.50	0.18		X442022	SJN	10/16/24 12:57	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X442022	SJN	10/16/24 12:57	
EPA 200.7	**Sodium**	42.6	mg/L	0.50	0.12		X442022	SJN	10/16/24 12:57	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X442022	SJN	10/16/24 12:57	
EPA 200.7	**Zinc**	85.5	mg/L	0.100	0.0540	10	X442022	SJN	10/16/24 13:44	M4
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X442006	SMU	10/22/24 17:42	
EPA 200.8	**Arsenic**	0.244	mg/L	0.00100	0.00021		X442006	SMU	10/22/24 17:42	
EPA 200.8	**Selenium**	0.0183	mg/L	0.00100	0.00024		X442006	SMU	10/22/24 17:42	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X442006	SMU	10/22/24 18:26	D17
EPA 200.8	**Uranium**	3.81	mg/L	0.00500	0.00260	50	X442006	SMU	10/22/24 18:05	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X441208	MAC	10/16/24 15:50	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X441170	DD	10/14/24 15:06	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X443007	JPM	10/22/24 13:54	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X441162	JPM	10/11/24 13:22	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442184	DD	10/18/24 10:01	
SM 2310 B	**Acidity to pH 8.3**	7440	mg/L as CaCO3	10.0			X443009	MWD	10/22/24 13:09	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:29	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:29	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:29	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:29	
SM 2540 C	**Total Diss. Solids**	13900	mg/L	100			X441159	TJL	10/14/24 13:30	
SM 2540 D	**Total Susp. Solids**	25.0	mg/L	5.0			X441160	TJL	10/14/24 12:40	
SM 4500 H B	**pH @18.7°C**	3.3	pH Units				X442056	MWD	10/15/24 11:29	H5

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

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0217**
Reported: 24-Oct-24 11:47

Client Sample ID: **GVMW-25**
SVL Sample ID: **X4J0217-03 (Ground Water)**

Sampled: 09-Oct-24 11:30
Received: 10-Oct-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	2.00	0.22	10	X441155	RS	10/10/24 15:07	
EPA 300.0	**Fluoride**	82.8	mg/L	25.0	4.25	250	X441155	RS	10/10/24 15:23	D18
EPA 300.0	**Nitrate as N**	3.16	mg/L	0.500	0.130	10	X441155	RS	10/10/24 15:07	D18
EPA 300.0	**Nitrate+Nitrite as N**	3.16	mg/L	1.00	0.440	10	X441155	RS	10/10/24 15:07	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X441155	RS	10/10/24 15:07	D18
EPA 300.0	**Sulfate as SO4**	10700	mg/L	75.0	45.0	250	X441155	RS	10/10/24 15:23	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 209 meq/L Anion Sum: 228 meq/L C/A Balance: -4.22 % Calculated TDS: 11849 TDS/cTDS: 1.17

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

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0217**
Reported: 24-Oct-24 11:47

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X441205	15-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X441205	15-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X441205	15-Oct-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X442022	16-Oct-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X442022	16-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X442022	16-Oct-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X442022	16-Oct-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X442022	16-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X442022	16-Oct-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X442022	16-Oct-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X442022	16-Oct-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X442022	16-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X442022	16-Oct-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X442022	16-Oct-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X442022	16-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X442022	16-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X442022	16-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X442022	16-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X442022	16-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X442022	16-Oct-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X442022	16-Oct-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X442022	16-Oct-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X442022	16-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X442022	16-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X442006	21-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X442006	21-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X442006	21-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X442006	21-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X442006	21-Oct-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X441208	16-Oct-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X441170	14-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X442002	15-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X443007	22-Oct-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X441162	11-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X442184	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X443009	22-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X442056	15-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X442056	15-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X442056	15-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X442056	15-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X441159	14-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X441160	14-Oct-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X441155	10-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X441155	10-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X441155	10-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X441155	10-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X441155	10-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X441155	10-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0217**
Reported: 24-Oct-24 11:47

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	18.8	20.0	94	85 - 115	X441205	15-Oct-24	
EPA 200.7	Magnesium	mg/L	19.3	20.0	96.4	85 - 115	X441205	15-Oct-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.8	85 - 115	X441205	15-Oct-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.968	1.00	96.8	85 - 115	X442022	16-Oct-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X442022	16-Oct-24	
EPA 200.7	Beryllium	mg/L	0.989	1.00	98.9	85 - 115	X442022	16-Oct-24	
EPA 200.7	Boron	mg/L	0.973	1.00	97.3	85 - 115	X442022	16-Oct-24	
EPA 200.7	Cadmium	mg/L	1.01	1.00	101	85 - 115	X442022	16-Oct-24	
EPA 200.7	Calcium	mg/L	19.5	20.0	97.4	85 - 115	X442022	16-Oct-24	
EPA 200.7	Chromium	mg/L	0.999	1.00	99.9	85 - 115	X442022	16-Oct-24	
EPA 200.7	Cobalt	mg/L	0.983	1.00	98.3	85 - 115	X442022	16-Oct-24	
EPA 200.7	Copper	mg/L	0.956	1.00	95.6	85 - 115	X442022	16-Oct-24	
EPA 200.7	Iron	mg/L	9.94	10.0	99.4	85 - 115	X442022	16-Oct-24	
EPA 200.7	Lead	mg/L	0.984	1.00	98.4	85 - 115	X442022	16-Oct-24	
EPA 200.7	Lithium	mg/L	0.940	1.00	94.0	85 - 115	X442022	16-Oct-24	
EPA 200.7	Magnesium	mg/L	18.8	20.0	94.1	85 - 115	X442022	16-Oct-24	
EPA 200.7	Manganese	mg/L	0.977	1.00	97.7	85 - 115	X442022	16-Oct-24	
EPA 200.7	Molybdenum	mg/L	1.01	1.00	101	85 - 115	X442022	16-Oct-24	
EPA 200.7	Nickel	mg/L	0.985	1.00	98.5	85 - 115	X442022	16-Oct-24	
EPA 200.7	Potassium	mg/L	19.9	20.0	99.6	85 - 115	X442022	16-Oct-24	
EPA 200.7	Silver	mg/L	0.0502	0.0500	100	85 - 115	X442022	16-Oct-24	
EPA 200.7	Sodium	mg/L	18.3	19.0	96.5	85 - 115	X442022	16-Oct-24	
EPA 200.7	Vanadium	mg/L	0.991	1.00	99.1	85 - 115	X442022	16-Oct-24	
EPA 200.7	Zinc	mg/L	1.01	1.00	101	85 - 115	X442022	16-Oct-24	
EPA 200.8	Antimony	mg/L	0.0241	0.0250	96.4	85 - 115	X442006	21-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0253	0.0250	101	85 - 115	X442006	21-Oct-24	
EPA 200.8	Selenium	mg/L	0.0256	0.0250	103	85 - 115	X442006	21-Oct-24	
EPA 200.8	Thallium	mg/L	0.0254	0.0250	102	85 - 115	X442006	21-Oct-24	
EPA 200.8	Uranium	mg/L	0.0262	0.0250	105	85 - 115	X442006	21-Oct-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00193	0.00200	96.5	85 - 115	X441208	16-Oct-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.109	0.100	109	90 - 110	X441170	15-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X442002	15-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X443007	22-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X441162	11-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X442184	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	898	884	102	95.4 - 104	X443009	22-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X442056	15-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X442056	15-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	96.4 - 105	X442056	15-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X441160	14-Oct-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.97	3.00	99.0	90 - 110	X441155	10-Oct-24	
EPA 300.0	Fluoride	mg/L	1.88	2.00	94.2	90 - 110	X441155	10-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	99.9	90 - 110	X441155	10-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.55	4.50	101	90 - 110	X441155	10-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.55	2.50	102	90 - 110	X441155	10-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.0	10.0	100	90 - 110	X441155	10-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0217**
Reported: 24-Oct-24 11:47

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X443009 - X4J0183-01	22-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	50.0	49.3	1.4	20	X442056 - X4J0214-01	15-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	50.0	49.3	1.4	20	X442056 - X4J0214-01	15-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442056 - X4J0214-01	15-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442056 - X4J0214-01	15-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	258	274	6.0	10	X441159 - X4J0217-02	14-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	296	289	2.4	10	X441159 - X4J0210-01	14-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X441160 - X4J0217-02	14-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	38.0	34.0	11.1	10	X441160 - X4J0210-01	14-Oct-24	R2B
SM 4500 H B	pH @18.4°C	pH Units	7.0	7.0	0.6	20	X442056 - X4J0214-01	15-Oct-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	19.0	<0.100	20.0	95	70 - 130	X441205 - X4J0180-01	15-Oct-24	
EPA 200.7	Calcium	mg/L	65.0	46.9	20.0	90	70 - 130	X441205 - X4J0217-01	15-Oct-24	
EPA 200.7	Magnesium	mg/L	19.5	<0.500	20.0	97.4	70 - 130	X441205 - X4J0180-01	15-Oct-24	
EPA 200.7	Magnesium	mg/L	25.3	6.24	20.0	95.3	70 - 130	X441205 - X4J0217-01	15-Oct-24	
EPA 200.7	Potassium	mg/L	19.5	<0.50	20.0	97.7	70 - 130	X441205 - X4J0180-01	15-Oct-24	
EPA 200.7	Potassium	mg/L	20.4	0.76	20.0	98.1	70 - 130	X441205 - X4J0217-01	15-Oct-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.989	<0.080	1.00	98.9	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Aluminum	mg/L	1180	1180	1.00	0.30R>S	70 - 130	X442022 - X4J0217-03	16-Oct-24	M4
EPA 200.7	Barium	mg/L	1.08	0.0831	1.00	100	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Barium	mg/L	0.969	0.0145	1.00	95.4	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Beryllium	mg/L	1.00	<0.00200	1.00	100	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Beryllium	mg/L	1.75	0.715	1.00	104	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Boron	mg/L	1.05	0.0632	1.00	98.9	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Boron	mg/L	1.06	0.0416	1.00	101	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Cadmium	mg/L	0.990	<0.0020	1.00	99.0	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Cadmium	mg/L	2.99	2.08	1.00	90.8	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Calcium	mg/L	110	90.3	20.0	97.2	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Calcium	mg/L	575	565	20.0	0.30R>S	70 - 130	X442022 - X4J0217-03	16-Oct-24	M3
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Chromium	mg/L	1.17	0.187	1.00	97.9	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Cobalt	mg/L	0.961	<0.0060	1.00	96.1	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Cobalt	mg/L	3.41	2.51	1.00	90.4	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Copper	mg/L	0.982	<0.0100	1.00	98.2	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Copper	mg/L	6.13	5.17	1.00	96.3	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Iron	mg/L	9.92	<0.100	10.0	99.2	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Iron	mg/L	41.6	32.7	10.0	89.2	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Lead	mg/L	0.973	<0.0075	1.00	97.3	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Lead	mg/L	1.04	0.0675	1.00	97.1	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Lithium	mg/L	1.02	<0.040	1.00	102	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Lithium	mg/L	1.58	0.263	1.00	132	70 - 130	X442022 - X4J0217-03	16-Oct-24	M1
EPA 200.7	Magnesium	mg/L	38.7	18.8	20.0	99.2	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Magnesium	mg/L	492	489	20.0	0.30R>S	70 - 130	X442022 - X4J0217-03	16-Oct-24	M3

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0217**
Reported: 24-Oct-24 11:47

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	0.981	<0.0080	1.00	98.1	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Manganese	mg/L	293	296	1.00	0.30R>S	70 - 130	X442022 - X4J0217-03	16-Oct-24	M4
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	101	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.974	<0.0080	1.00	97.4	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Nickel	mg/L	0.958	<0.0100	1.00	95.8	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Nickel	mg/L	4.16	3.23	1.00	92.7	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Potassium	mg/L	22.6	2.61	20.0	99.8	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Potassium	mg/L	27.8	7.04	20.0	104	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Silver	mg/L	0.0509	<0.0050	0.0500	102	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Silver	mg/L	0.0465	<0.0050	0.0500	93.1	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Sodium	mg/L	56.6	38.4	19.0	95.6	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Sodium	mg/L	60.8	42.6	19.0	95.8	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Vanadium	mg/L	1.00	<0.0050	1.00	100	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X442022 - X4J0217-03	16-Oct-24	
EPA 200.7	Zinc	mg/L	1.00	<0.0100	1.00	100	70 - 130	X442022 - X4J0078-01	16-Oct-24	
EPA 200.7	Zinc	mg/L	85.0	85.5	1.00	0.30R>S	70 - 130	X442022 - X4J0217-03	16-Oct-24	M4
EPA 200.8	Antimony	mg/L	0.0244	<0.00100	0.0250	97.6	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Antimony	mg/L	0.0275	<0.00100	0.0250	110	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0258	<0.00100	0.0250	101	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0301	<0.00100	0.0250	118	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Selenium	mg/L	0.0234	<0.00100	0.0250	93.6	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Selenium	mg/L	0.0301	<0.00100	0.0250	120	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Thallium	mg/L	0.0251	<0.000200	0.0250	100	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Thallium	mg/L	0.0285	<0.000200	0.0250	114	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Uranium	mg/L	0.0305	0.00416	0.0250	105	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Uranium	mg/L	0.0561	0.0262	0.0250	120	70 - 130	X442006 - X4J0236-01	22-Oct-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	101	70 - 130	X441208 - X4J0210-01	16-Oct-24	
EPA 245.1	Mercury	mg/L	0.00196	<0.000200	0.00200	98.0	70 - 130	X441208 - X4J0221-01	16-Oct-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0930	<0.0050	0.100	93.0	79 - 121	X441170 - X4J0144-01	14-Oct-24	R4
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X442002 - X4J0180-02	15-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X442002 - X4J0180-01	15-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	96.5	90 - 110	X443007 - X4J0238-01	22-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.0247	<0.0050	0.100	20.5	90 - 110	X443007 - X4J0233-01	22-Oct-24	M2
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X441162 - X4J0203-01	11-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.06	0.047	1.00	102	90 - 110	X441162 - X4J0203-02	11-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0950	<0.0050	0.100	91.0	82 - 118	X442184 - X4J0146-01	18-Oct-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.1	7.09	3.00	101	90 - 110	X441155 - X4J0210-01	10-Oct-24	
EPA 300.0	Fluoride	mg/L	1.86	0.222	2.00	81.8	90 - 110	X441155 - X4J0210-01	10-Oct-24	M2
EPA 300.0	Nitrate as N	mg/L	1.92	<0.050	2.00	96.0	90 - 110	X441155 - X4J0210-01	10-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.93	<0.100	4.00	98.4	90 - 110	X441155 - X4J0210-01	10-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X441155 - X4J0210-01	10-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	37.9	28.0	10.0	99.0	90 - 110	X441155 - X4J0210-01	10-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09
Work Order: **X4J0217**
Reported: 24-Oct-24 11:47

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	19.0	19.0	20.0	0.1	20	95	X441205 - X4J0180-01	
EPA 200.7	Magnesium	mg/L	19.5	19.5	20.0	0.0	20	97.4	X441205 - X4J0180-01	
EPA 200.7	Potassium	mg/L	19.6	19.5	20.0	0.4	20	98.1	X441205 - X4J0180-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	0.989	1.00	2.1	20	101	X442022 - X4J0078-01	
EPA 200.7	Barium	mg/L	1.09	1.08	1.00	0.1	20	100	X442022 - X4J0078-01	
EPA 200.7	Beryllium	mg/L	1.01	1.00	1.00	0.9	20	101	X442022 - X4J0078-01	
EPA 200.7	Boron	mg/L	1.06	1.05	1.00	0.5	20	99.4	X442022 - X4J0078-01	
EPA 200.7	Cadmium	mg/L	0.994	0.990	1.00	0.4	20	99.4	X442022 - X4J0078-01	
EPA 200.7	Calcium	mg/L	110	110	20.0	0.1	20	96.7	X442022 - X4J0078-01	
EPA 200.7	Chromium	mg/L	1.00	1.00	1.00	0.2	20	100	X442022 - X4J0078-01	
EPA 200.7	Cobalt	mg/L	0.961	0.961	1.00	0.0	20	96.1	X442022 - X4J0078-01	
EPA 200.7	Copper	mg/L	0.981	0.982	1.00	0.0	20	98.1	X442022 - X4J0078-01	
EPA 200.7	Iron	mg/L	9.99	9.92	10.0	0.7	20	99.9	X442022 - X4J0078-01	
EPA 200.7	Lead	mg/L	0.969	0.973	1.00	0.5	20	96.9	X442022 - X4J0078-01	
EPA 200.7	Lithium	mg/L	1.02	1.02	1.00	0.1	20	102	X442022 - X4J0078-01	
EPA 200.7	Magnesium	mg/L	38.8	38.7	20.0	0.3	20	99.8	X442022 - X4J0078-01	
EPA 200.7	Manganese	mg/L	0.989	0.981	1.00	0.8	20	98.9	X442022 - X4J0078-01	
EPA 200.7	Molybdenum	mg/L	1.01	1.01	1.00	0.3	20	101	X442022 - X4J0078-01	
EPA 200.7	Nickel	mg/L	0.957	0.958	1.00	0.1	20	95.7	X442022 - X4J0078-01	
EPA 200.7	Potassium	mg/L	22.6	22.6	20.0	0.1	20	99.7	X442022 - X4J0078-01	
EPA 200.7	Silver	mg/L	0.0507	0.0509	0.0500	0.4	20	101	X442022 - X4J0078-01	
EPA 200.7	Sodium	mg/L	56.6	56.6	19.0	0.0	20	95.7	X442022 - X4J0078-01	
EPA 200.7	Vanadium	mg/L	1.01	1.00	1.00	0.3	20	100	X442022 - X4J0078-01	
EPA 200.7	Zinc	mg/L	1.01	1.00	1.00	1.1	20	101	X442022 - X4J0078-01	
EPA 200.8	Antimony	mg/L	0.0249	0.0244	0.0250	1.9	20	99.4	X442006 - X4J0146-01	
EPA 200.8	Arsenic	mg/L	0.0258	0.0258	0.0250	0.3	20	101	X442006 - X4J0146-01	
EPA 200.8	Selenium	mg/L	0.0261	0.0234	0.0250	10.9	20	104	X442006 - X4J0146-01	
EPA 200.8	Thallium	mg/L	0.0253	0.0251	0.0250	0.9	20	101	X442006 - X4J0146-01	
EPA 200.8	Uranium	mg/L	0.0310	0.0305	0.0250	1.9	20	107	X442006 - X4J0146-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00198	0.00201	0.00200	1.7	20	98.9	X441208 - X4J0210-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.114	0.0930	0.100	20.3	11	114	X441170 - X4J0144-01	R4
EPA 335.4	Cyanide (total)	mg/L	0.103	0.102	0.100	1.1	20	103	X442002 - X4J0180-02	
EPA 335.4	Cyanide (total)	mg/L	0.0994	0.100	0.100	1.0	20	95.5	X443007 - X4J0238-01	
EPA 350.1	Ammonia as N	mg/L	1.01	1.01	1.00	0.7	20	101	X441162 - X4J0203-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0960	0.0950	0.100	1.1	11	92.0	X442184 - X4J0146-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.2	10.1	3.00	0.7	20	103	X441155 - X4J0210-01	
EPA 300.0	Fluoride	mg/L	1.97	1.86	2.00	5.8	20	87.3	X441155 - X4J0210-01	M2
EPA 300.0	Nitrate as N	mg/L	1.97	1.92	2.00	2.4	20	98.3	X441155 - X4J0210-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.03	3.93	4.00	2.4	20	101	X441155 - X4J0210-01	
EPA 300.0	Nitrite as N	mg/L	2.06	2.02	2.00	2.4	20	103	X441155 - X4J0210-01	
EPA 300.0	Sulfate as SO4	mg/L	38.2	37.9	10.0	0.6	20	101	X441155 - X4J0210-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024 / 2024-09**
Post Office Box 191	Work Order: **X4J0217**
Victor, CO 80860	Reported: 24-Oct-24 11:47

Notes and Definitions

D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
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.
R2B	RPD exceeded the laboratory acceptance limit.
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: **X4J0233**
Victor, CO 80860	Reported: 28-Oct-24 12:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-27	X4J0233-01	Ground Water	10-Oct-24 08:09	TR	11-Oct-2024	Q5

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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0233

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: **X4J0233**
Reported: 28-Oct-24 12:46

Client Sample ID: **GVMW-27**
SVL Sample ID: **X4J0233-01 (Ground Water)**

Sampled: 10-Oct-24 08:09
Received: 11-Oct-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**	511	mg/L	0.500	0.345	5	X441205	SJN	10/15/24 12:19	D15
EPA 200.7	**Magnesium**	296	mg/L	2.50	0.450	5	X441205	SJN	10/15/24 12:19	D15
EPA 200.7	**Potassium**	15.2	mg/L	2.50	0.90	5	X441205	SJN	10/15/24 12:19	D15
SM 2340 B	**Hardness (as CaCO3)**	2490	mg/L	11.5	2.71		N/A		10/24/24 10:22	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	451	mg/L	0.080	0.054		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Barium**	0.0197	mg/L	0.0020	0.0019		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Beryllium**	0.258	mg/L	0.00200	0.00080		X443015	NMS	10/24/24 10:22	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Cadmium**	1.19	mg/L	0.0020	0.0016		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Calcium**	494	mg/L	0.100	0.069		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Chromium**	0.114	mg/L	0.0060	0.0020		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Cobalt**	1.42	mg/L	0.0060	0.0046		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Copper**	1.56	mg/L	0.0100	0.0027		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Iron**	74.3	mg/L	0.100	0.056		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Lead**	0.0230	mg/L	0.0075	0.0049		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Lithium**	0.143	mg/L	0.040	0.025		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Magnesium**	292	mg/L	0.500	0.090		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Manganese**	172	mg/L	0.0400	0.0170	5	X443015	NMS	10/24/24 13:32	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Nickel**	1.69	mg/L	0.0100	0.0048		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Potassium**	15.0	mg/L	0.50	0.18		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Silver**	0.0068	mg/L	0.0050	0.0019		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Sodium**	225	mg/L	0.50	0.12		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Vanadium**	0.0360	mg/L	0.0050	0.0019		X443015	NMS	10/24/24 10:22	
EPA 200.7	**Zinc**	41.0	mg/L	0.0100	0.0054		X443015	NMS	10/24/24 10:22	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X442006	SMU	10/22/24 17:45	
EPA 200.8	**Arsenic**	0.137	mg/L	0.00100	0.00021		X442006	SMU	10/22/24 17:45	
EPA 200.8	**Selenium**	0.0169	mg/L	0.00100	0.00024		X442006	SMU	10/22/24 17:45	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X442006	SMU	10/22/24 18:29	D17
EPA 200.8	**Uranium**	1.85	mg/L	0.00500	0.00260	50	X442006	SMU	10/22/24 18:08	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X442063	MAC	10/16/24 14:46	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0500	mg/L	0.0500	0.0480	10	X443191	DD	10/25/24 13:24	D15,H1,Q12
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X443007	JPM	10/22/24 13:57	M2
EPA 350.1	**Ammonia as N**	0.231	mg/L	0.030	0.013		X442060	DD	10/16/24 09:52	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442185	DD	10/18/24 10:10	
SM 2310 B	**Acidity to pH 8.3**	3050	mg/L as CaCO3	10.0			X443010	MWD	10/22/24 13:05	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:34	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:34	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:34	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442056	MWD	10/15/24 11:34	
SM 2540 C	**Total Diss. Solids**	7730	mg/L	100			X441222	TJL	10/15/24 12:30	
SM 2540 D	**Total Susp. Solids**	96.0	mg/L	5.0			X441223	TJL	10/15/24 11:30	
SM 4500 H B	**pH @18.9°C**	3.9	pH Units				X442056	MWD	10/15/24 11:34	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: **X4J0233**
Reported: 28-Oct-24 12:46

Client Sample ID: **GVMW-27**
SVL Sample ID: **X4J0233-01 (Ground Water)**

Sampled: 10-Oct-24 08:09
Received: 11-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	38.4	mg/L	1.00	0.11	5	X441211	RS	10/11/24 17:47	
EPA 300.0	**Fluoride**	46.8	mg/L	10.0	1.70	100	X441211	RS	10/11/24 18:06	
EPA 300.0	**Nitrate as N**	1.56	mg/L	0.250	0.065	5	X441211	RS	10/11/24 17:47	D18
EPA 300.0	**Nitrate+Nitrite as N**	1.56	mg/L	0.500	0.220	5	X441211	RS	10/11/24 17:47	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X441211	RS	10/11/24 17:47	D18
EPA 300.0	**Sulfate as SO4**	6070	mg/L	75.0	45.0	250	X441211	RS	10/12/24 04:51	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 120 meq/L Anion Sum: 130 meq/L C/A Balance: -4.08 % Calculated TDS: 7199 TDS/cTDS: 1.07

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

Kristi A. Groth

Kristi A. Groth
Sample Preparation Technician

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0233**
Reported: 28-Oct-24 12:46

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	X441205	15-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X441205	15-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X441205	15-Oct-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X443015	24-Oct-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X443015	24-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X443015	24-Oct-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X443015	24-Oct-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X443015	24-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X443015	24-Oct-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X443015	24-Oct-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X443015	24-Oct-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X443015	24-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X443015	24-Oct-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X443015	24-Oct-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X443015	24-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X443015	24-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X443015	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X443015	24-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X443015	24-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X443015	24-Oct-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X443015	24-Oct-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X443015	24-Oct-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X443015	24-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X443015	24-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X442006	21-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X442006	21-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X442006	21-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X442006	21-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X442006	21-Oct-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X442063	16-Oct-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X443191	25-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X443007	22-Oct-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X442060	16-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X442185	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X443010	22-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X442056	15-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X442056	15-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X442056	15-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X442056	15-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X441222	15-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X441223	15-Oct-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X441211	11-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X441211	11-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X441211	11-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X441211	11-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X441211	11-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X441211	11-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0233**
Reported: 28-Oct-24 12:46

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	18.8	20.0	94	85 - 115	X441205	15-Oct-24	
EPA 200.7	Magnesium	mg/L	19.3	20.0	96.4	85 - 115	X441205	15-Oct-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.8	85 - 115	X441205	15-Oct-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.946	1.00	94.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Barium	mg/L	0.963	1.00	96.3	85 - 115	X443015	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.957	1.00	95.7	85 - 115	X443015	24-Oct-24	
EPA 200.7	Boron	mg/L	0.931	1.00	93.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.931	1.00	93.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Calcium	mg/L	18.8	20.0	93.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Chromium	mg/L	0.976	1.00	97.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.909	1.00	90.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Copper	mg/L	0.952	1.00	95.2	85 - 115	X443015	24-Oct-24	
EPA 200.7	Iron	mg/L	9.59	10.0	95.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Lead	mg/L	0.927	1.00	92.7	85 - 115	X443015	24-Oct-24	
EPA 200.7	Lithium	mg/L	0.981	1.00	98.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.8	85 - 115	X443015	24-Oct-24	
EPA 200.7	Manganese	mg/L	0.960	1.00	96.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.935	1.00	93.5	85 - 115	X443015	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.920	1.00	92.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0468	0.0500	93.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Sodium	mg/L	17.9	19.0	94.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.966	1.00	96.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.919	1.00	91.9	85 - 115	X443015	24-Oct-24	
EPA 200.8	Antimony	mg/L	0.0241	0.0250	96.4	85 - 115	X442006	21-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0253	0.0250	101	85 - 115	X442006	21-Oct-24	
EPA 200.8	Selenium	mg/L	0.0256	0.0250	103	85 - 115	X442006	21-Oct-24	
EPA 200.8	Thallium	mg/L	0.0254	0.0250	102	85 - 115	X442006	21-Oct-24	
EPA 200.8	Uranium	mg/L	0.0262	0.0250	105	85 - 115	X442006	21-Oct-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00188	0.00200	94.2	85 - 115	X442063	16-Oct-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.100	97.0	90 - 110	X443191	25-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X443007	22-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.06	1.00	106	90 - 110	X442060	16-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0990	0.100	99.0	90 - 110	X442185	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	898	884	102	95.4 - 104	X443010	22-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X442056	15-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X442056	15-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	402	397	101	96.4 - 105	X442056	15-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X441223	15-Oct-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.97	3.00	98.9	90 - 110	X441211	11-Oct-24	
EPA 300.0	Fluoride	mg/L	2.01	2.00	100	90 - 110	X441211	11-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X441211	11-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.60	4.50	102	90 - 110	X441211	11-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X441211	11-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X441211	11-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0233**
Reported: 28-Oct-24 12:46

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	X443010 - X4J0219-01	22-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	50.0	49.3	1.4	20	X442056 - X4J0214-01	15-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	50.0	49.3	1.4	20	X442056 - X4J0214-01	15-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442056 - X4J0214-01	15-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442056 - X4J0214-01	15-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	1340	1400	4.0	10	X441222 - X4J0238-02	15-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	580	589	1.5	10	X441222 - X4J0221-01	15-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X441223 - X4J0238-02	15-Oct-24	
SM 4500 H B	pH @18.4°C	pH Units	7.0	7.0	0.6	20	X442056 - X4J0214-01	15-Oct-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	19.0	<0.100	20.0	95	70 - 130	X441205 - X4J0180-01	15-Oct-24	
EPA 200.7	Calcium	mg/L	65.0	46.9	20.0	90	70 - 130	X441205 - X4J0217-01	15-Oct-24	
EPA 200.7	Magnesium	mg/L	19.5	<0.500	20.0	97.4	70 - 130	X441205 - X4J0180-01	15-Oct-24	
EPA 200.7	Magnesium	mg/L	25.3	6.24	20.0	95.3	70 - 130	X441205 - X4J0217-01	15-Oct-24	
EPA 200.7	Potassium	mg/L	19.5	<0.50	20.0	97.7	70 - 130	X441205 - X4J0180-01	15-Oct-24	
EPA 200.7	Potassium	mg/L	20.4	0.76	20.0	98.1	70 - 130	X441205 - X4J0217-01	15-Oct-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.993	<0.080	1.00	99.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Aluminum	mg/L	0.983	<0.080	1.00	98.3	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Barium	mg/L	1.04	0.0411	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Barium	mg/L	1.02	0.0249	1.00	99.8	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.989	<0.00200	1.00	98.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.987	<0.00200	1.00	98.7	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Boron	mg/L	0.999	<0.0400	1.00	97.4	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Boron	mg/L	1.03	0.0542	1.00	97.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.977	<0.0020	1.00	97.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.989	<0.0020	1.00	98.9	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Calcium	mg/L	60.0	40.7	20.0	96.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Calcium	mg/L	210	188	20.0	110	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Chromium	mg/L	0.998	<0.0060	1.00	99.8	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.938	<0.0060	1.00	93.8	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.935	<0.0060	1.00	93.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Copper	mg/L	0.977	<0.0100	1.00	97.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Copper	mg/L	0.980	<0.0100	1.00	98.0	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Iron	mg/L	10.8	0.947	10.0	98.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Iron	mg/L	9.81	<0.100	10.0	98.1	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Lead	mg/L	0.949	<0.0075	1.00	94.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Lead	mg/L	0.942	<0.0075	1.00	94.2	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Lithium	mg/L	1.02	<0.040	1.00	102	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	102	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Magnesium	mg/L	30.7	10.8	20.0	99.1	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Magnesium	mg/L	37.2	17.3	20.0	99.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Manganese	mg/L	1.19	0.193	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0233**
Reported: 28-Oct-24 12:46

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	1.12	0.123	1.00	99.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.971	0.0167	1.00	95.4	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.979	<0.0080	1.00	97.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.963	<0.0100	1.00	96.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.936	<0.0100	1.00	93.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Potassium	mg/L	22.4	2.16	20.0	101	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Potassium	mg/L	24.0	3.46	20.0	102	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0463	<0.0050	0.0500	92.6	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Sodium	mg/L	34.0	15.4	19.0	98.1	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Sodium	mg/L	63.4	44.3	19.0	101	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.993	<0.0050	1.00	99.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.999	<0.0050	1.00	99.9	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.957	<0.0100	1.00	95.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.957	<0.0100	1.00	95.0	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.8	Antimony	mg/L	0.0244	<0.00100	0.0250	97.6	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Antimony	mg/L	0.0275	<0.00100	0.0250	110	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0258	<0.00100	0.0250	101	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0301	<0.00100	0.0250	118	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Selenium	mg/L	0.0234	<0.00100	0.0250	93.6	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Selenium	mg/L	0.0301	<0.00100	0.0250	120	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Thallium	mg/L	0.0251	<0.000200	0.0250	100	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Thallium	mg/L	0.0285	<0.000200	0.0250	114	70 - 130	X442006 - X4J0236-01	22-Oct-24	
EPA 200.8	Uranium	mg/L	0.0305	0.00416	0.0250	105	70 - 130	X442006 - X4J0146-01	21-Oct-24	
EPA 200.8	Uranium	mg/L	0.0561	0.0262	0.0250	120	70 - 130	X442006 - X4J0236-01	22-Oct-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00197	<0.000200	0.00200	98.5	70 - 130	X442063 - X4J0236-01	16-Oct-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0840	<0.0050	0.100	84.0	79 - 121	X443191 - X4J0233-01	25-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	96.5	90 - 110	X443007 - X4J0238-01	22-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.0247	<0.0050	0.100	20.5	90 - 110	X443007 - X4J0233-01	22-Oct-24	M2
EPA 350.1	Ammonia as N	mg/L	1.16	0.091	1.00	107	90 - 110	X442060 - X4J0238-01	16-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.07	<0.030	1.00	107	90 - 110	X442060 - X4J0238-02	16-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	<0.0050	0.100	103	82 - 118	X442185 - X4J0214-01	18-Oct-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.9	8.01	3.00	97.5	90 - 110	X441211 - X4J0251-03	12-Oct-24	
EPA 300.0	Chloride	mg/L	4.15	1.14	3.00	100	90 - 110	X441211 - X4J0251-05	12-Oct-24	
EPA 300.0	Fluoride	mg/L	2.04	0.135	2.00	95.3	90 - 110	X441211 - X4J0251-03	12-Oct-24	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	96.3	90 - 110	X441211 - X4J0251-05	12-Oct-24	
EPA 300.0	Nitrate as N	mg/L	14.2	12.5	2.00	0.30R>S	90 - 110	X441211 - X4J0251-03	12-Oct-24	M4
EPA 300.0	Nitrate as N	mg/L	2.04	0.077	2.00	98.3	90 - 110	X441211 - X4J0251-05	12-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	16.3	12.5	4.00	94.6	90 - 110	X441211 - X4J0251-03	12-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.05	<0.100	4.00	98.8	90 - 110	X441211 - X4J0251-05	12-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.06	0.052	2.00	101	90 - 110	X441211 - X4J0251-03	12-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X441211 - X4J0251-05	12-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	117	109	10.0	0.30R>S	90 - 110	X441211 - X4J0251-03	12-Oct-24	M4
EPA 300.0	Sulfate as SO4	mg/L	35.1	25.3	10.0	98.0	90 - 110	X441211 - X4J0251-05	12-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0233**
Reported: 28-Oct-24 12:46

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	19.0	19.0	20.0	0.1	20	95	X441205 - X4J0180-01	
EPA 200.7	Magnesium	mg/L	19.5	19.5	20.0	0.0	20	97.4	X441205 - X4J0180-01	
EPA 200.7	Potassium	mg/L	19.6	19.5	20.0	0.4	20	98.1	X441205 - X4J0180-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.00	0.993	1.00	0.9	20	100	X443015 - X4J0181-01	
EPA 200.7	Barium	mg/L	1.05	1.04	1.00	1.2	20	101	X443015 - X4J0181-01	
EPA 200.7	Beryllium	mg/L	1.00	0.989	1.00	1.3	20	100	X443015 - X4J0181-01	
EPA 200.7	Boron	mg/L	1.02	0.999	1.00	2.5	20	99.9	X443015 - X4J0181-01	
EPA 200.7	Cadmium	mg/L	1.01	0.977	1.00	3.1	20	101	X443015 - X4J0181-01	
EPA 200.7	Calcium	mg/L	60.1	60.0	20.0	0.1	20	96.7	X443015 - X4J0181-01	
EPA 200.7	Chromium	mg/L	1.02	1.00	1.00	1.2	20	102	X443015 - X4J0181-01	
EPA 200.7	Cobalt	mg/L	0.966	0.938	1.00	3.0	20	96.6	X443015 - X4J0181-01	
EPA 200.7	Copper	mg/L	1.00	0.977	1.00	2.5	20	100	X443015 - X4J0181-01	
EPA 200.7	Iron	mg/L	10.8	10.8	10.0	0.1	20	98.8	X443015 - X4J0181-01	
EPA 200.7	Lead	mg/L	0.973	0.949	1.00	2.5	20	97.3	X443015 - X4J0181-01	
EPA 200.7	Lithium	mg/L	1.02	1.02	1.00	0.0	20	102	X443015 - X4J0181-01	
EPA 200.7	Magnesium	mg/L	30.8	30.7	20.0	0.4	20	99.7	X443015 - X4J0181-01	
EPA 200.7	Manganese	mg/L	1.20	1.19	1.00	0.3	20	100	X443015 - X4J0181-01	
EPA 200.7	Molybdenum	mg/L	0.995	0.971	1.00	2.4	20	97.8	X443015 - X4J0181-01	
EPA 200.7	Nickel	mg/L	0.964	0.963	1.00	0.2	20	96.4	X443015 - X4J0181-01	
EPA 200.7	Potassium	mg/L	22.4	22.4	20.0	0.4	20	101	X443015 - X4J0181-01	
EPA 200.7	Silver	mg/L	0.0473	0.0463	0.0500	2.1	20	94.6	X443015 - X4J0181-01	
EPA 200.7	Sodium	mg/L	33.9	34.0	19.0	0.4	20	97.4	X443015 - X4J0181-01	
EPA 200.7	Vanadium	mg/L	1.01	0.993	1.00	1.9	20	101	X443015 - X4J0181-01	
EPA 200.7	Zinc	mg/L	0.985	0.957	1.00	2.9	20	98.5	X443015 - X4J0181-01	
EPA 200.8	Antimony	mg/L	0.0249	0.0244	0.0250	1.9	20	99.4	X442006 - X4J0146-01	
EPA 200.8	Arsenic	mg/L	0.0258	0.0258	0.0250	0.3	20	101	X442006 - X4J0146-01	
EPA 200.8	Selenium	mg/L	0.0261	0.0234	0.0250	10.9	20	104	X442006 - X4J0146-01	
EPA 200.8	Thallium	mg/L	0.0253	0.0251	0.0250	0.9	20	101	X442006 - X4J0146-01	
EPA 200.8	Uranium	mg/L	0.0310	0.0305	0.0250	1.9	20	107	X442006 - X4J0146-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00202	0.00197	0.00200	2.7	20	101	X442063 - X4J0236-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0910	0.0840	0.100	8.0	11	91.0	X443191 - X4J0233-01	
EPA 335.4	Cyanide (total)	mg/L	0.0994	0.100	0.100	1.0	20	95.5	X443007 - X4J0238-01	
EPA 350.1	Ammonia as N	mg/L	1.14	1.16	1.00	1.9	20	105	X442060 - X4J0238-01	
OIA 1677	Cyanide (WAD)	mg/L	0.105	0.104	0.100	1.0	11	104	X442185 - X4J0214-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	11.0	10.9	3.00	0.5	20	99.4	X441211 - X4J0251-03	
EPA 300.0	Fluoride	mg/L	2.08	2.04	2.00	1.9	20	97.2	X441211 - X4J0251-03	
EPA 300.0	Nitrate as N	mg/L	14.2	14.2	2.00	0.1	20	0.30R>S	X441211 - X4J0251-03	M4
EPA 300.0	Nitrate+Nitrite as N	mg/L	16.3	16.3	4.00	0.2	20	95.2	X441211 - X4J0251-03	
EPA 300.0	Nitrite as N	mg/L	2.11	2.06	2.00	2.3	20	103	X441211 - X4J0251-03	
EPA 300.0	Sulfate as SO4	mg/L	117	117	10.0	0.1	20	0.30R>S	X441211 - X4J0251-03	M4

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4J0233**
Victor, CO 80860	Reported: 28-Oct-24 12:46

Notes and Definitions

D15	Due to sample viscosity, a sample dilution was performed.
D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
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: **X4J0280**
Victor, CO 80860	Reported: 30-Oct-24 14:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-24B	X4J0280-01	Ground Water	14-Oct-24 09:15	JG/TR	15-Oct-2024	
GVMW-28	X4J0280-02	Ground Water	14-Oct-24 10:55	JG/TR	15-Oct-2024	Q5C
GVMW-10	X4J0280-03	Ground Water	14-Oct-24 13:50	JG/TR	15-Oct-2024	
GVMW-35A	X4J0280-04	Ground Water	14-Oct-24 14:33	JG/TR	15-Oct-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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0280

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: **X4J0280**
Reported: 30-Oct-24 14:04

Client Sample ID: **GVMW-24B**
SVL Sample ID: **X4J0280-01 (Ground Water)**

Sampled: 14-Oct-24 09:15
Received: 15-Oct-24
Sampled By: JG/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**	507	mg/L	1.00	0.690	10	X442139	SJN	10/22/24 13:30	M4
EPA 200.7	**Magnesium**	139	mg/L	0.500	0.090		X442139	SJN	10/22/24 12:07	
EPA 200.7	**Potassium**	2.69	mg/L	0.50	0.18		X442139	SJN	10/22/24 12:07	
SM 2340 B	**Hardness (as CaCO3)**	1830	mg/L	2.31	0.543		N/A		10/22/24 12:07	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	0.132	mg/L	0.080	0.054		X443015	NMS	10/24/24 10:41	
EPA 200.7	**Barium**	0.0123	mg/L	0.0020	0.0019		X443015	NMS	10/24/24 10:41	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X443015	NMS	10/24/24 10:41	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X443015	NMS	10/24/24 10:41	
EPA 200.7	**Cadmium**	0.0020	mg/L	0.0020	0.0016		X443015	NMS	10/24/24 10:41	
EPA 200.7	**Calcium**	503	mg/L	0.100	0.069		X443015	NMS	10/24/24 10:41	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X443015	NMS	10/24/24 10:41	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X443015	NMS	10/24/24 10:41	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X443015	NMS	10/24/24 10:41	
EPA 200.7	**Iron**	0.126	mg/L	0.100	0.056		X443015	NMS	10/24/24 10:41	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X443015	NMS	10/24/24 10:41	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X443015	NMS	10/24/24 10:41	
EPA 200.7	**Magnesium**	140	mg/L	0.500	0.090		X443015	NMS	10/24/24 10:41	
EPA 200.7	**Manganese**	1.08	mg/L	0.0080	0.0034		X443015	NMS	10/24/24 10:41	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X443015	NMS	10/24/24 10:41	
EPA 200.7	**Nickel**	0.0339	mg/L	0.0100	0.0048		X443015	NMS	10/24/24 10:41	
EPA 200.7	**Potassium**	2.62	mg/L	0.50	0.18		X443015	NMS	10/24/24 10:41	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X443015	NMS	10/24/24 10:41	
EPA 200.7	**Sodium**	22.1	mg/L	0.50	0.12		X443015	NMS	10/24/24 10:41	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X443015	NMS	10/24/24 10:41	
EPA 200.7	**Zinc**	0.0585	mg/L	0.0100	0.0054		X443015	NMS	10/24/24 10:41	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X443167	JRR	10/29/24 12:12	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X443167	JRR	10/29/24 12:12	
EPA 200.8	**Selenium**	0.00210	mg/L	0.00100	0.00024		X443167	JRR	10/29/24 12:12	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X443167	JRR	10/29/24 12:12	
EPA 200.8	**Uranium**	0.0177	mg/L	0.000100	0.000052		X443167	JRR	10/29/24 12:12	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X442129	MAC	10/28/24 14:13	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X443191	DD	10/25/24 13:34	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X443007	JPM	10/22/24 14:22	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X442156	JPM	10/18/24 12:38	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442185	DD	10/18/24 10:22	
SM 2310 B	**Acidity to pH 8.3**	-87.6	mg/L as CaCO3	10.0			X443190	MWD	10/25/24 09:11	
SM 2320 B	**Total Alkalinity**	86.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:24	
SM 2320 B	**Bicarbonate**	86.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:24	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:24	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:24	
SM 2540 C	**Total Diss. Solids**	2460	mg/L	40			X442123	TJL	10/18/24 15:30	
SM 2540 D	**Total Susp. Solids**	9.0	mg/L	5.0			X442125	TJL	10/21/24 16:15	
SM 4500 H B	**pH @18.2°C**	6.5	pH Units				X442093	MWD	10/16/24 13:24	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: **X4J0280**
Reported: 30-Oct-24 14:04

Client Sample ID: **GVMW-24B**
SVL Sample ID: **X4J0280-01 (Ground Water)**

Sampled: 14-Oct-24 09:15
Received: 15-Oct-24
Sampled By: JG/TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	18.7	mg/L	10.0	1.10	50	X442071	RS	10/16/24 03:57	
EPA 300.0	**Fluoride**	1.60	mg/L	0.100	0.017		X442071	RS	10/16/24 03:38	
EPA 300.0	**Nitrate as N**	1.81	mg/L	0.050	0.013		X442071	RS	10/16/24 03:38	
EPA 300.0	**Nitrate+Nitrite as N**	1.81	mg/L	0.100	0.044		X442071	RS	10/16/24 03:38	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X442071	RS	10/16/24 03:38	
EPA 300.0	**Sulfate as SO4**	1780	mg/L	15.0	9.00	50	X442071	RS	10/16/24 03:57	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 37.6 meq/L Anion Sum: 39.5 meq/L C/A Balance: -2.44 % Calculated TDS: 2529 TDS/cTDS: 0.97

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

Kristi A. Groth

Kristi A. Groth
Sample Preparation Technician

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Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0280**
Reported: 30-Oct-24 14:04

Client Sample ID: **GVMW-28**
SVL Sample ID: **X4J0280-02 (Ground Water)**

Sampled: 14-Oct-24 10:55
Received: 15-Oct-24
Sampled By: JG/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**	507	mg/L	1.00	0.690	10	X442139	SJN	10/22/24 13:34	D18
EPA 200.7	**Magnesium**	586	mg/L	5.00	0.900	10	X442139	SJN	10/22/24 13:34	D18
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X442139	SJN	10/22/24 13:34	D18
SM 2340 B	**Hardness (as CaCO3)**	3620	mg/L	21.8	4.57		N/A		10/24/24 12:26	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	2060	mg/L	0.400	0.270	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Barium**	0.0120	mg/L	0.0100	0.0095	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Beryllium**	0.948	mg/L	0.0100	0.00400	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	Boron	< 0.200	mg/L	0.200	0.0390	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Cadmium**	3.83	mg/L	0.0100	0.0080	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Calcium**	485	mg/L	0.500	0.345	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Chromium**	0.726	mg/L	0.0300	0.0100	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Cobalt**	4.24	mg/L	0.0300	0.0230	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Copper**	12.0	mg/L	0.0500	0.0135	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Iron**	407	mg/L	0.500	0.280	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Lead**	0.0446	mg/L	0.0375	0.0245	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Lithium**	0.551	mg/L	0.200	0.125	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Magnesium**	573	mg/L	2.50	0.450	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Manganese**	440	mg/L	0.0400	0.0170	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	Molybdenum	< 0.0400	mg/L	0.0400	0.0170	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Nickel**	5.33	mg/L	0.0500	0.0240	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Potassium**	3.52	mg/L	2.50	0.90	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	Silver	< 0.0250	mg/L	0.0250	0.0095	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Sodium**	36.1	mg/L	2.50	0.60	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Vanadium**	0.0994	mg/L	0.0250	0.0095	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.7	**Zinc**	165	mg/L	0.0500	0.0270	5	X443015	NMS	10/24/24 12:26	D18
EPA 200.8	Antimony	< 0.0200	mg/L	0.0200	0.0144	20	X443167	JRR	10/29/24 13:29	D17
EPA 200.8	Arsenic	< 0.400	mg/L	0.400	0.0840	400	X443167	SMU	10/29/24 14:21	D17
EPA 200.8	Selenium	< 0.400	mg/L	0.400	0.0960	400	X443167	SMU	10/29/24 14:21	D17,M4,R2B
EPA 200.8	Thallium	< 0.00400	mg/L	0.00400	0.00160	20	X443167	JRR	10/29/24 13:29	D17
EPA 200.8	**Uranium**	5.27	mg/L	0.00200	0.00104	20	X443167	JRR	10/29/24 13:29	D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X442129	MAC	10/28/24 14:15	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0500	mg/L	0.0500	0.0480	10	X444035	DD	10/28/24 13:11	D13,Q12
EPA 335.4	**Cyanide (total)**	0.0064	mg/L	0.0050	0.0038		X443007	JPM	10/22/24 14:24	
EPA 350.1	**Ammonia as N**	0.112	mg/L	0.030	0.013		X442156	JPM	10/18/24 12:41	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X442185	DD	10/18/24 10:23	D13,Q12
SM 2310 B	**Acidity to pH 8.3**	13900	mg/L as CaCO3	10.0			X443190	MWD	10/25/24 09:11	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:29	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:29	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:29	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:29	
SM 2540 C	**Total Diss. Solids**	23900	mg/L	100			X442123	TJL	10/18/24 15:30	E11
SM 2540 D	**Total Susp. Solids**	106	mg/L	5.0			X442125	TJL	10/21/24 16:15	
SM 4500 H B	**pH @18.1°C**	2.8	pH Units				X442093	MWD	10/16/24 13:29	H5

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0280**
Reported: 30-Oct-24 14:04

Client Sample ID: **GVMW-28**
SVL Sample ID: **X4J0280-02 (Ground Water)**

Sampled: 14-Oct-24 10:55
Received: 15-Oct-24
Sampled By: JG/TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	5.18	mg/L	5.00	0.55	25	X442071	RS	10/16/24 04:15	D18
EPA 300.0	**Fluoride**	133	mg/L	50.0	8.50	500	X442071	RS	10/16/24 04:34	
EPA 300.0	**Nitrate as N**	5.43	mg/L	1.25	0.325	25	X442071	RS	10/16/24 04:15	D18
EPA 300.0	**Nitrate+Nitrite as N**	5.43	mg/L	2.50	1.10	25	X442071	RS	10/16/24 04:15	D18
EPA 300.0	Nitrite as N	< 1.25	mg/L	1.25	0.775	25	X442071	RS	10/16/24 04:15	D18
EPA 300.0	**Sulfate as SO4**	18200	mg/L	150	90.0	500	X442071	RS	10/16/24 04:34	

Cation/Anion Balance and TDS Ratios

Cation Sum: 351 meq/L Anion Sum: 386 meq/L C/A Balance: -4.81 % Calculated TDS: 19476 TDS/cTDS: 1.23

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

Kristi A. Groth

Kristi A. Groth
Sample Preparation Technician

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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: **X4J0280**
Reported: 30-Oct-24 14:04

Client Sample ID: **GVMW-10**
SVL Sample ID: **X4J0280-03 (Ground Water)**

Sampled: 14-Oct-24 13:50
Received: 15-Oct-24
Sampled By: JG/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**	436	mg/L	0.100	0.069		X442139	SJN	10/22/24 12:15	
EPA 200.7	**Magnesium**	174	mg/L	0.500	0.090		X442139	SJN	10/22/24 12:15	
EPA 200.7	**Potassium**	2.68	mg/L	0.50	0.18		X442139	SJN	10/22/24 12:15	
SM 2340 B	**Hardness (as CaCO3)**	1780	mg/L	2.31	0.543		N/A		10/22/24 12:15	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	0.167	mg/L	0.080	0.054		X443015	NMS	10/24/24 10:49	
EPA 200.7	**Barium**	0.0136	mg/L	0.0020	0.0019		X443015	NMS	10/24/24 10:49	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X443015	NMS	10/24/24 10:49	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X443015	NMS	10/24/24 10:49	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X443015	NMS	10/24/24 10:49	
EPA 200.7	**Calcium**	422	mg/L	0.100	0.069		X443015	NMS	10/24/24 10:49	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X443015	NMS	10/24/24 10:49	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X443015	NMS	10/24/24 10:49	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X443015	NMS	10/24/24 10:49	
EPA 200.7	**Iron**	0.123	mg/L	0.100	0.056		X443015	NMS	10/24/24 10:49	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X443015	NMS	10/24/24 10:49	
EPA 200.7	**Lithium**	0.040	mg/L	0.040	0.025		X443015	NMS	10/24/24 10:49	
EPA 200.7	**Magnesium**	175	mg/L	0.500	0.090		X443015	NMS	10/24/24 10:49	
EPA 200.7	**Manganese**	0.985	mg/L	0.0080	0.0034		X443015	NMS	10/24/24 10:49	
EPA 200.7	**Molybdenum**	0.0638	mg/L	0.0080	0.0034		X443015	NMS	10/24/24 10:49	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X443015	NMS	10/24/24 10:49	
EPA 200.7	**Potassium**	2.71	mg/L	0.50	0.18		X443015	NMS	10/24/24 10:49	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X443015	NMS	10/24/24 10:49	
EPA 200.7	**Sodium**	39.5	mg/L	0.50	0.12		X443015	NMS	10/24/24 10:49	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X443015	NMS	10/24/24 10:49	
EPA 200.7	**Zinc**	0.0962	mg/L	0.0100	0.0054		X443015	NMS	10/24/24 10:49	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X443167	JRR	10/29/24 12:22	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X443167	JRR	10/29/24 12:22	
EPA 200.8	**Selenium**	0.00243	mg/L	0.00100	0.00024		X443167	JRR	10/29/24 12:22	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X443167	JRR	10/29/24 12:22	
EPA 200.8	**Uranium**	0.0726	mg/L	0.000100	0.000052		X443167	JRR	10/29/24 12:22	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X442129	MAC	10/28/24 14:17	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X444035	DD	10/28/24 13:13	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X443007	JPM	10/22/24 14:26	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X442156	JPM	10/18/24 12:43	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442185	DD	10/18/24 10:25	
SM 2310 B	**Acidity to pH 8.3**	-324	mg/L as CaCO3	10.0			X443190	MWD	10/25/24 09:11	
SM 2320 B	**Total Alkalinity**	336	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:34	
SM 2320 B	**Bicarbonate**	336	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:34	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:34	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:34	
SM 2540 C	**Total Diss. Solids**	3500	mg/L	40			X442123	TJL	10/18/24 15:30	
SM 2540 D	**Total Susp. Solids**	38.0	mg/L	5.0			X442125	TJL	10/21/24 16:15	
SM 4500 H B	**pH @18.2°C**	7.0	pH Units				X442093	MWD	10/16/24 13:34	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: **X4J0280**
Reported: 30-Oct-24 14:04

Client Sample ID: **GVMW-10**
SVL Sample ID: **X4J0280-03 (Ground Water)**

Sampled: 14-Oct-24 13:50
Received: 15-Oct-24
Sampled By: JG/TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	5.01	mg/L	0.20	0.02		X442071	RS	10/16/24 04:52	
EPA 300.0	**Fluoride**	0.844	mg/L	0.100	0.017		X442071	RS	10/16/24 04:52	
EPA 300.0	**Nitrate as N**	0.145	mg/L	0.050	0.013		X442071	RS	10/16/24 04:52	
EPA 300.0	**Nitrate+Nitrite as N**	0.169	mg/L	0.100	0.044		X442071	RS	10/16/24 04:52	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X442071	RS	10/16/24 04:52	
EPA 300.0	**Sulfate as SO4**	1590	mg/L	15.0	9.00	50	X442071	RS	10/16/24 05:11	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 37.2 meq/L Anion Sum: 40.0 meq/L C/A Balance: -3.60 % Calculated TDS: 2444 TDS/cTDS: 1.43

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

Kristi A. Groth

Kristi A. Groth
Sample Preparation Technician

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0280**
Reported: 30-Oct-24 14:04

Client Sample ID: **GVMW-35A**
SVL Sample ID: **X4J0280-04 (Ground Water)**

Sampled: 14-Oct-24 14:33
Received: 15-Oct-24
Sampled By: JG/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**	151	mg/L	0.100	0.069		X442139	SJN	10/22/24 12:19	
EPA 200.7	**Magnesium**	57.0	mg/L	0.500	0.090		X442139	SJN	10/22/24 12:19	
EPA 200.7	**Potassium**	4.42	mg/L	0.50	0.18		X442139	SJN	10/22/24 12:19	
SM 2340 B	**Hardness (as CaCO3)**	610	mg/L	2.31	0.543		N/A		10/22/24 12:19	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X443015	NMS	10/24/24 11:01	
EPA 200.7	**Barium**	0.0286	mg/L	0.0020	0.0019		X443015	NMS	10/24/24 11:01	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X443015	NMS	10/24/24 11:01	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X443015	NMS	10/24/24 11:01	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X443015	NMS	10/24/24 11:01	
EPA 200.7	**Calcium**	144	mg/L	0.100	0.069		X443015	NMS	10/24/24 11:01	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X443015	NMS	10/24/24 11:01	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X443015	NMS	10/24/24 11:01	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X443015	NMS	10/24/24 11:01	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X443015	NMS	10/24/24 11:01	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X443015	NMS	10/24/24 11:01	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X443015	NMS	10/24/24 11:01	
EPA 200.7	**Magnesium**	56.7	mg/L	0.500	0.090		X443015	NMS	10/24/24 11:01	
EPA 200.7	**Manganese**	0.241	mg/L	0.0080	0.0034		X443015	NMS	10/24/24 11:01	
EPA 200.7	**Molybdenum**	0.0103	mg/L	0.0080	0.0034		X443015	NMS	10/24/24 11:01	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X443015	NMS	10/24/24 11:01	
EPA 200.7	**Potassium**	4.33	mg/L	0.50	0.18		X443015	NMS	10/24/24 11:01	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X443015	NMS	10/24/24 11:01	
EPA 200.7	**Sodium**	18.4	mg/L	0.50	0.12		X443015	NMS	10/24/24 11:01	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X443015	NMS	10/24/24 11:01	
EPA 200.7	**Zinc**	0.104	mg/L	0.0100	0.0054		X443015	NMS	10/24/24 11:01	
EPA 200.8	**Antimony**	0.00247	mg/L	0.00100	0.00072		X443167	JRR	10/29/24 12:24	
EPA 200.8	**Arsenic**	0.00732	mg/L	0.00100	0.00021		X443167	JRR	10/29/24 12:24	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X443167	JRR	10/29/24 12:24	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X443167	JRR	10/29/24 12:24	
EPA 200.8	**Uranium**	0.0202	mg/L	0.000100	0.000052		X443167	JRR	10/29/24 12:24	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X442129	MAC	10/28/24 14:20	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X444035	DD	10/28/24 13:15	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X443007	JPM	10/22/24 14:29	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X442156	JPM	10/18/24 12:45	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442185	DD	10/18/24 10:26	
SM 2310 B	**Acidity to pH 8.3**	-103	mg/L as CaCO3	10.0			X443190	MWD	10/25/24 09:11	
SM 2320 B	**Total Alkalinity**	104	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:48	
SM 2320 B	**Bicarbonate**	104	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:48	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:48	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 13:48	
SM 2540 C	**Total Diss. Solids**	949	mg/L	10			X442123	TJL	10/18/24 15:30	
SM 2540 D	**Total Susp. Solids**	16.0	mg/L	5.0			X442125	TJL	10/21/24 16:15	
SM 4500 H B	**pH @18.6°C**	8.2	pH Units				X442093	MWD	10/16/24 13:48	H5

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0280**
Reported: 30-Oct-24 14:04

Client Sample ID: **GVMW-35A**
SVL Sample ID: **X4J0280-04 (Ground Water)**

Sampled: 14-Oct-24 14:33
Received: 15-Oct-24
Sampled By: JG/TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	15.3	mg/L	10.0	1.10	50	X442071	RS	10/16/24 05:47	
EPA 300.0	**Fluoride**	0.228	mg/L	0.100	0.017		X442071	RS	10/16/24 05:29	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X442071	RS	10/16/24 05:29	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X442071	RS	10/16/24 05:29	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X442071	RS	10/16/24 05:29	
EPA 300.0	**Sulfate as SO4**	518	mg/L	15.0	9.00	50	X442071	RS	10/16/24 05:47	

Cation/Anion Balance and TDS Ratios

Cation Sum: 12.8 meq/L Anion Sum: 13.3 meq/L C/A Balance: -2.00 % Calculated TDS: 823 TDS/cTDS: 1.15

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

Kristi A. Groth

Kristi A. Groth
Sample Preparation Technician

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0280**
Reported: 30-Oct-24 14:04

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	X442139	22-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X442139	22-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X442139	22-Oct-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X443015	24-Oct-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X443015	24-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X443015	24-Oct-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X443015	24-Oct-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X443015	24-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X443015	24-Oct-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X443015	24-Oct-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X443015	24-Oct-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X443015	24-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X443015	24-Oct-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X443015	24-Oct-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X443015	24-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X443015	24-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X443015	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X443015	24-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X443015	24-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X443015	24-Oct-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X443015	24-Oct-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X443015	24-Oct-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X443015	24-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X443015	24-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X443167	29-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X443167	29-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X443167	29-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X443167	29-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X443167	29-Oct-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X442129	28-Oct-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X443191	25-Oct-24	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X444035	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X443007	22-Oct-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X442156	18-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X442185	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X443190	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X442093	16-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X442093	16-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X442093	16-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X442093	16-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X442123	18-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X442125	21-Oct-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X442071	16-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X442071	16-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X442071	16-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X442071	16-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X442071	16-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X442071	16-Oct-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: **X4J0280**
Reported: 30-Oct-24 14:04

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X442139	22-Oct-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	100	85 - 115	X442139	22-Oct-24	
EPA 200.7	Potassium	mg/L	20.1	20.0	101	85 - 115	X442139	22-Oct-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.946	1.00	94.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Barium	mg/L	0.963	1.00	96.3	85 - 115	X443015	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.957	1.00	95.7	85 - 115	X443015	24-Oct-24	
EPA 200.7	Boron	mg/L	0.931	1.00	93.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.931	1.00	93.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Calcium	mg/L	18.8	20.0	93.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Chromium	mg/L	0.976	1.00	97.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.909	1.00	90.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Copper	mg/L	0.952	1.00	95.2	85 - 115	X443015	24-Oct-24	
EPA 200.7	Iron	mg/L	9.59	10.0	95.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Lead	mg/L	0.927	1.00	92.7	85 - 115	X443015	24-Oct-24	
EPA 200.7	Lithium	mg/L	0.981	1.00	98.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.8	85 - 115	X443015	24-Oct-24	
EPA 200.7	Manganese	mg/L	0.960	1.00	96.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.935	1.00	93.5	85 - 115	X443015	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.920	1.00	92.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0468	0.0500	93.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Sodium	mg/L	17.9	19.0	94.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.966	1.00	96.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.919	1.00	91.9	85 - 115	X443015	24-Oct-24	
EPA 200.8	Antimony	mg/L	0.0246	0.0250	98.5	85 - 115	X443167	29-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0242	0.0250	96.8	85 - 115	X443167	29-Oct-24	
EPA 200.8	Selenium	mg/L	0.0236	0.0250	94.4	85 - 115	X443167	29-Oct-24	
EPA 200.8	Thallium	mg/L	0.0257	0.0250	103	85 - 115	X443167	29-Oct-24	
EPA 200.8	Uranium	mg/L	0.0261	0.0250	105	85 - 115	X443167	29-Oct-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00200	0.00200	99.9	85 - 115	X442129	28-Oct-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.100	97.0	90 - 110	X443191	25-Oct-24	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	0.100	100	90 - 110	X444035	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X443007	22-Oct-24	
EPA 350.1	Ammonia as N	mg/L	0.967	1.00	96.7	90 - 110	X442156	18-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0990	0.100	99.0	90 - 110	X442185	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	719	706	102	95.4 - 104	X443190	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.3	9.93	104	96.4 - 105	X442093	16-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X442093	16-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	416	397	105	96.4 - 105	X442093	16-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X442125	21-Oct-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.95	3.00	98.5	90 - 110	X442071	16-Oct-24	
EPA 300.0	Fluoride	mg/L	2.03	2.00	101	90 - 110	X442071	16-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.05	2.00	103	90 - 110	X442071	16-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.64	4.50	103	90 - 110	X442071	16-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X442071	16-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X442071	16-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0280**
Reported: 30-Oct-24 14:04

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	X443190 - X4J0280-01	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442093 - X4J0280-02	16-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442093 - X4J0280-02	16-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442093 - X4J0280-02	16-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442093 - X4J0280-02	16-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	191	220	14.1	10	X442123 - X4J0291-02	18-Oct-24	R2B
SM 2540 C	Total Diss. Solids	mg/L	192	221	14.0	10	X442123 - X4J0290-01	18-Oct-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	202	138	37.6	10	X442125 - X4J0291-02	21-Oct-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X442125 - X4J0290-01	21-Oct-24	
SM 4500 H B	pH @18.4°C	pH Units	2.8	2.8	0.0	20	X442093 - X4J0280-02	16-Oct-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	104	84.9	20.0	95	70 - 130	X442139 - X4J0309-01	22-Oct-24	
EPA 200.7	Calcium	mg/L	511	507	20.0	0.30R>S	70 - 130	X442139 - X4J0280-01	22-Oct-24	M4
EPA 200.7	Magnesium	mg/L	157	139	20.0	87.6	70 - 130	X442139 - X4J0280-01	22-Oct-24	
EPA 200.7	Magnesium	mg/L	38.2	17.8	20.0	102	70 - 130	X442139 - X4J0309-01	22-Oct-24	
EPA 200.7	Potassium	mg/L	23.5	2.69	20.0	104	70 - 130	X442139 - X4J0280-01	22-Oct-24	
EPA 200.7	Potassium	mg/L	22.3	2.15	20.0	101	70 - 130	X442139 - X4J0309-01	22-Oct-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.993	<0.080	1.00	99.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Aluminum	mg/L	0.983	<0.080	1.00	98.3	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Barium	mg/L	1.04	0.0411	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Barium	mg/L	1.02	0.0249	1.00	99.8	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.989	<0.00200	1.00	98.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.987	<0.00200	1.00	98.7	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Boron	mg/L	0.999	<0.0400	1.00	97.4	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Boron	mg/L	1.03	0.0542	1.00	97.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.977	<0.0020	1.00	97.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.989	<0.0020	1.00	98.9	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Calcium	mg/L	60.0	40.7	20.0	96.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Calcium	mg/L	210	188	20.0	110	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Chromium	mg/L	0.998	<0.0060	1.00	99.8	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.938	<0.0060	1.00	93.8	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.935	<0.0060	1.00	93.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Copper	mg/L	0.977	<0.0100	1.00	97.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Copper	mg/L	0.980	<0.0100	1.00	98.0	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Iron	mg/L	10.8	0.947	10.0	98.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Iron	mg/L	9.81	<0.100	10.0	98.1	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Lead	mg/L	0.949	<0.0075	1.00	94.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Lead	mg/L	0.942	<0.0075	1.00	94.2	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Lithium	mg/L	1.02	<0.040	1.00	102	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	102	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Magnesium	mg/L	30.7	10.8	20.0	99.1	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Magnesium	mg/L	37.2	17.3	20.0	99.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0280**
Reported: 30-Oct-24 14:04

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	1.19	0.193	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Manganese	mg/L	1.12	0.123	1.00	99.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.971	0.0167	1.00	95.4	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.979	<0.0080	1.00	97.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.963	<0.0100	1.00	96.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.936	<0.0100	1.00	93.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Potassium	mg/L	22.4	2.16	20.0	101	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Potassium	mg/L	24.0	3.46	20.0	102	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0463	<0.0050	0.0500	92.6	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Sodium	mg/L	34.0	15.4	19.0	98.1	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Sodium	mg/L	63.4	44.3	19.0	101	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.993	<0.0050	1.00	99.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.999	<0.0050	1.00	99.9	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.957	<0.0100	1.00	95.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.957	<0.0100	1.00	95.0	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.8	Antimony	mg/L	0.0289	0.00348	0.0250	102	70 - 130	X443167 - X4J0287-03	29-Oct-24	
EPA 200.8	Antimony	mg/L	0.0259	<0.0200	0.0250	104	70 - 130	X443167 - X4J0280-02	29-Oct-24	D17
EPA 200.8	Arsenic	mg/L	0.0245	<0.00100	0.0250	96.5	70 - 130	X443167 - X4J0287-03	29-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.400	<0.400	0.0250	83.9	70 - 130	X443167 - X4J0280-02	29-Oct-24	D17
EPA 200.8	Selenium	mg/L	0.0228	<0.00100	0.0250	91.3	70 - 130	X443167 - X4J0287-03	29-Oct-24	
EPA 200.8	Selenium	mg/L	<0.400	<0.400	0.0250	0.30R>S	70 - 130	X443167 - X4J0280-02	29-Oct-24	M4,R2B
EPA 200.8	Thallium	mg/L	0.0247	<0.000200	0.0250	98.7	70 - 130	X443167 - X4J0287-03	29-Oct-24	
EPA 200.8	Thallium	mg/L	0.0207	<0.00400	0.0250	82.9	70 - 130	X443167 - X4J0280-02	29-Oct-24	D17
EPA 200.8	Uranium	mg/L	0.0259	<0.000100	0.0250	103	70 - 130	X443167 - X4J0287-03	29-Oct-24	
EPA 200.8	Uranium	mg/L	5.35	5.27	0.0250	0.30R>S	70 - 130	X443167 - X4J0280-02	29-Oct-24	D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00206	<0.000200	0.00200	103	70 - 130	X442129 - X4J0280-01	28-Oct-24	
EPA 245.1	Mercury	mg/L	0.00213	<0.000200	0.00200	107	70 - 130	X442129 - X4J0309-02	28-Oct-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0840	<0.0050	0.100	84.0	79 - 121	X443191 - X4J0233-01	25-Oct-24	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0940	<0.0050	0.100	94.0	79 - 121	X444035 - X4J0280-03	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	96.5	90 - 110	X443007 - X4J0238-01	22-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.0247	<0.0050	0.100	20.5	90 - 110	X443007 - X4J0233-01	22-Oct-24	M2
EPA 350.1	Ammonia as N	mg/L	0.990	<0.030	1.00	99.0	90 - 110	X442156 - X4J0280-04	18-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.21	0.112	1.00	110	90 - 110	X442156 - X4J0280-02	18-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	<0.0050	0.100	103	82 - 118	X442185 - X4J0214-01	18-Oct-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.87	<0.20	3.00	91.0	90 - 110	X442071 - X4J0284-01	16-Oct-24	
EPA 300.0	Fluoride	mg/L	2.00	<0.100	2.00	95.2	90 - 110	X442071 - X4J0284-01	16-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.88	<0.050	2.00	94.2	90 - 110	X442071 - X4J0284-01	16-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.81	<0.100	4.00	95.2	90 - 110	X442071 - X4J0284-01	16-Oct-24	
EPA 300.0	Nitrite as N	mg/L	1.93	<0.050	2.00	96.3	90 - 110	X442071 - X4J0284-01	16-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	11.3	1.57	10.0	96.9	90 - 110	X442071 - X4J0284-01	16-Oct-24	

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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	516	511	20.0	1.0	20	0.30R>S	X442139 - X4J0280-01	M4
EPA 200.7	Magnesium	mg/L	157	157	20.0	0.6	20	92.3	X442139 - X4J0280-01	
EPA 200.7	Potassium	mg/L	23.9	23.5	20.0	1.7	20	106	X442139 - X4J0280-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.00	0.993	1.00	0.9	20	100	X443015 - X4J0181-01	
EPA 200.7	Barium	mg/L	1.05	1.04	1.00	1.2	20	101	X443015 - X4J0181-01	
EPA 200.7	Beryllium	mg/L	1.00	0.989	1.00	1.3	20	100	X443015 - X4J0181-01	
EPA 200.7	Boron	mg/L	1.02	0.999	1.00	2.5	20	99.9	X443015 - X4J0181-01	
EPA 200.7	Cadmium	mg/L	1.01	0.977	1.00	3.1	20	101	X443015 - X4J0181-01	
EPA 200.7	Calcium	mg/L	60.1	60.0	20.0	0.1	20	96.7	X443015 - X4J0181-01	
EPA 200.7	Chromium	mg/L	1.02	1.00	1.00	1.2	20	102	X443015 - X4J0181-01	
EPA 200.7	Cobalt	mg/L	0.966	0.938	1.00	3.0	20	96.6	X443015 - X4J0181-01	
EPA 200.7	Copper	mg/L	1.00	0.977	1.00	2.5	20	100	X443015 - X4J0181-01	
EPA 200.7	Iron	mg/L	10.8	10.8	10.0	0.1	20	98.8	X443015 - X4J0181-01	
EPA 200.7	Lead	mg/L	0.973	0.949	1.00	2.5	20	97.3	X443015 - X4J0181-01	
EPA 200.7	Lithium	mg/L	1.02	1.02	1.00	0.0	20	102	X443015 - X4J0181-01	
EPA 200.7	Magnesium	mg/L	30.8	30.7	20.0	0.4	20	99.7	X443015 - X4J0181-01	
EPA 200.7	Manganese	mg/L	1.20	1.19	1.00	0.3	20	100	X443015 - X4J0181-01	
EPA 200.7	Molybdenum	mg/L	0.995	0.971	1.00	2.4	20	97.8	X443015 - X4J0181-01	
EPA 200.7	Nickel	mg/L	0.964	0.963	1.00	0.2	20	96.4	X443015 - X4J0181-01	
EPA 200.7	Potassium	mg/L	22.4	22.4	20.0	0.4	20	101	X443015 - X4J0181-01	
EPA 200.7	Silver	mg/L	0.0473	0.0463	0.0500	2.1	20	94.6	X443015 - X4J0181-01	
EPA 200.7	Sodium	mg/L	33.9	34.0	19.0	0.4	20	97.4	X443015 - X4J0181-01	
EPA 200.7	Vanadium	mg/L	1.01	0.993	1.00	1.9	20	101	X443015 - X4J0181-01	
EPA 200.7	Zinc	mg/L	0.985	0.957	1.00	2.9	20	98.5	X443015 - X4J0181-01	
EPA 200.8	Antimony	mg/L	0.0272	0.0259	0.0250	4.7	20	109	X443167 - X4J0280-02	D17
EPA 200.8	Arsenic	mg/L	<0.400	<0.400	0.0250	3.0	20	98.8	X443167 - X4J0280-02	D17
EPA 200.8	Selenium	mg/L	0.434	<0.400	0.0250	52.2	20	0.30R>S	X443167 - X4J0280-02	D17,M4,R2B
EPA 200.8	Thallium	mg/L	0.0219	0.0207	0.0250	5.6	20	87.6	X443167 - X4J0280-02	D17
EPA 200.8	Uranium	mg/L	5.38	5.35	0.0250	0.6	20	0.30R>S	X443167 - X4J0280-02	D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00212	0.00206	0.00200	3.0	20	106	X442129 - X4J0280-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0910	0.0840	0.100	8.0	11	91.0	X443191 - X4J0233-01	
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	0.0940	0.100	6.2	11	100	X444035 - X4J0280-03	
EPA 335.4	Cyanide (total)	mg/L	0.0994	0.100	0.100	1.0	20	95.5	X443007 - X4J0238-01	
EPA 350.1	Ammonia as N	mg/L	1.01	0.990	1.00	2.4	20	101	X442156 - X4J0280-04	
OIA 1677	Cyanide (WAD)	mg/L	0.105	0.104	0.100	1.0	11	104	X442185 - X4J0214-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.89	2.87	3.00	1.0	20	91.9	X442071 - X4J0284-01	
EPA 300.0	Fluoride	mg/L	2.02	2.00	2.00	1.0	20	96.3	X442071 - X4J0284-01	
EPA 300.0	Nitrate as N	mg/L	1.90	1.88	2.00	1.1	20	95.2	X442071 - X4J0284-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.85	3.81	4.00	1.0	20	96.2	X442071 - X4J0284-01	
EPA 300.0	Nitrite as N	mg/L	1.94	1.93	2.00	0.9	20	97.2	X442071 - X4J0284-01	
EPA 300.0	Sulfate as SO4	mg/L	11.4	11.3	10.0	1.0	20	98.0	X442071 - X4J0284-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4J0280**
Victor, CO 80860	Reported: 30-Oct-24 14:04

Notes and Definitions

D13	Due to noticeable turbidity or opacity, a sample dilution was performed.
D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
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.
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	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4J0284**
Victor, CO 80860	Reported: 30-Oct-24 14:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
RB-1014	X4J0284-01	Ground Water	14-Oct-24 09:37	JC/TR	15-Oct-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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0284

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: **X4J0284**
Reported: 30-Oct-24 14:21

Client Sample ID: **RB-1014**
SVL Sample ID: **X4J0284-01 (Ground Water)**

Sampled: 14-Oct-24 09:37
Received: 15-Oct-24
Sampled By: JC/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**	0.681	mg/L	0.100	0.069		X442139	SJN	10/22/24 12:23	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X442139	SJN	10/22/24 12:23	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X442139	SJN	10/22/24 12:23	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		10/24/24 11:05	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X443015	NMS	10/24/24 11:05	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X443015	NMS	10/24/24 11:05	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X443015	NMS	10/24/24 11:05	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X443015	NMS	10/24/24 11:05	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X443015	NMS	10/24/24 11:05	
EPA 200.7	**Calcium**	0.482	mg/L	0.100	0.069		X443015	NMS	10/24/24 11:05	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X443015	NMS	10/24/24 11:05	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X443015	NMS	10/24/24 11:05	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X443015	NMS	10/24/24 11:05	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X443015	NMS	10/24/24 11:05	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X443015	NMS	10/24/24 11:05	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X443015	NMS	10/24/24 11:05	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X443015	NMS	10/24/24 11:05	
EPA 200.7	**Manganese**	0.0086	mg/L	0.0080	0.0034		X443015	NMS	10/24/24 11:05	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X443015	NMS	10/24/24 11:05	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X443015	NMS	10/24/24 11:05	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X443015	NMS	10/24/24 11:05	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X443015	NMS	10/24/24 11:05	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X443015	NMS	10/24/24 11:05	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X443015	NMS	10/24/24 11:05	
EPA 200.7	**Zinc**	0.0126	mg/L	0.0100	0.0054		X443015	NMS	10/24/24 11:05	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X443167	JRR	10/29/24 12:27	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X443167	JRR	10/29/24 12:27	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X443167	JRR	10/29/24 12:27	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X443167	JRR	10/29/24 12:27	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X443167	JRR	10/29/24 12:27	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X442129	MAC	10/28/24 14:26	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X444035	DD	10/28/24 13:17	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X443007	JPM	10/22/24 14:32	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X442156	JPM	10/18/24 10:07	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442185	DD	10/18/24 10:28	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X443190	MWD	10/25/24 09:11	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 14:15	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 14:15	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 14:15	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442093	MWD	10/16/24 14:15	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X442123	TJL	10/18/24 15:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X442125	TJL	10/21/24 16:15	
SM 4500 H B	**pH @19.0°C**	5.3	pH Units				X442093	MWD	10/16/24 14:15	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: **X4J0284**
Reported: 30-Oct-24 14:21

Client Sample ID: **RB-1014**
SVL Sample ID: **X4J0284-01 (Ground Water)**

Sampled: 14-Oct-24 09:37
Received: 15-Oct-24
Sampled By: JC/TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 0.20	mg/L	0.20	0.02		X442071	RS	10/16/24 06:43	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X442071	RS	10/16/24 06:43	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X442071	RS	10/16/24 06:43	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X442071	RS	10/16/24 06:43	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X442071	RS	10/16/24 06:43	
EPA 300.0	**Sulfate as SO4**	1.57	mg/L	0.30	0.18		X442071	RS	10/16/24 06:43	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 0.05 meq/L Anion Sum: 0.06 meq/L C/A Balance: -2.43 % Calculated TDS: 2 TDS/cTDS: 0.00

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

Kristi A. Groth

Kristi A. Groth
Sample Preparation Technician

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0284**
Reported: 30-Oct-24 14:21

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	X442139	22-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X442139	22-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X442139	22-Oct-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X443015	24-Oct-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X443015	24-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X443015	24-Oct-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X443015	24-Oct-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X443015	24-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X443015	24-Oct-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X443015	24-Oct-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X443015	24-Oct-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X443015	24-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X443015	24-Oct-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X443015	24-Oct-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X443015	24-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X443015	24-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X443015	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X443015	24-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X443015	24-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X443015	24-Oct-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X443015	24-Oct-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X443015	24-Oct-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X443015	24-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X443015	24-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X443167	29-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X443167	29-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X443167	29-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X443167	29-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X443167	29-Oct-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X442129	28-Oct-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X444035	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X443007	22-Oct-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X442156	18-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X442185	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X443190	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X442093	16-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X442093	16-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X442093	16-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X442093	16-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X442123	18-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X442125	21-Oct-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X442071	16-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X442071	16-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X442071	16-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X442071	16-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X442071	16-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X442071	16-Oct-24	

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0284**
Reported: 30-Oct-24 14:21

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X442139	22-Oct-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	100	85 - 115	X442139	22-Oct-24	
EPA 200.7	Potassium	mg/L	20.1	20.0	101	85 - 115	X442139	22-Oct-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.946	1.00	94.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Barium	mg/L	0.963	1.00	96.3	85 - 115	X443015	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.957	1.00	95.7	85 - 115	X443015	24-Oct-24	
EPA 200.7	Boron	mg/L	0.931	1.00	93.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.931	1.00	93.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Calcium	mg/L	18.8	20.0	93.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Chromium	mg/L	0.976	1.00	97.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.909	1.00	90.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Copper	mg/L	0.952	1.00	95.2	85 - 115	X443015	24-Oct-24	
EPA 200.7	Iron	mg/L	9.59	10.0	95.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Lead	mg/L	0.927	1.00	92.7	85 - 115	X443015	24-Oct-24	
EPA 200.7	Lithium	mg/L	0.981	1.00	98.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.8	85 - 115	X443015	24-Oct-24	
EPA 200.7	Manganese	mg/L	0.960	1.00	96.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.935	1.00	93.5	85 - 115	X443015	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.920	1.00	92.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0468	0.0500	93.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Sodium	mg/L	17.9	19.0	94.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.966	1.00	96.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.919	1.00	91.9	85 - 115	X443015	24-Oct-24	
EPA 200.8	Antimony	mg/L	0.0246	0.0250	98.5	85 - 115	X443167	29-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0242	0.0250	96.8	85 - 115	X443167	29-Oct-24	
EPA 200.8	Selenium	mg/L	0.0236	0.0250	94.4	85 - 115	X443167	29-Oct-24	
EPA 200.8	Thallium	mg/L	0.0257	0.0250	103	85 - 115	X443167	29-Oct-24	
EPA 200.8	Uranium	mg/L	0.0261	0.0250	105	85 - 115	X443167	29-Oct-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00200	0.00200	99.9	85 - 115	X442129	28-Oct-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	0.100	100	90 - 110	X444035	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X443007	22-Oct-24	
EPA 350.1	Ammonia as N	mg/L	0.967	1.00	96.7	90 - 110	X442156	18-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0990	0.100	99.0	90 - 110	X442185	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	719	706	102	95.4 - 104	X443190	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.3	9.93	104	96.4 - 105	X442093	16-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	96.4 - 105	X442093	16-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	416	397	105	96.4 - 105	X442093	16-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X442125	21-Oct-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.95	3.00	98.5	90 - 110	X442071	16-Oct-24	
EPA 300.0	Fluoride	mg/L	2.03	2.00	101	90 - 110	X442071	16-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.05	2.00	103	90 - 110	X442071	16-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.64	4.50	103	90 - 110	X442071	16-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X442071	16-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X442071	16-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0284**
Reported: 30-Oct-24 14:21

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	X443190 - X4J0280-01	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442093 - X4J0280-02	16-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442093 - X4J0280-02	16-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442093 - X4J0280-02	16-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442093 - X4J0280-02	16-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	191	220	14.1	10	X442123 - X4J0291-02	18-Oct-24	R2B
SM 2540 C	Total Diss. Solids	mg/L	192	221	14.0	10	X442123 - X4J0290-01	18-Oct-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	202	138	37.6	10	X442125 - X4J0291-02	21-Oct-24	R2B
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X442125 - X4J0290-01	21-Oct-24	
SM 4500 H B	pH @18.4°C	pH Units	2.8	2.8	0.0	20	X442093 - X4J0280-02	16-Oct-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	104	84.9	20.0	95	70 - 130	X442139 - X4J0309-01	22-Oct-24	
EPA 200.7	Calcium	mg/L	511	507	20.0	0.30R>S	70 - 130	X442139 - X4J0280-01	22-Oct-24	M4
EPA 200.7	Magnesium	mg/L	157	139	20.0	87.6	70 - 130	X442139 - X4J0280-01	22-Oct-24	
EPA 200.7	Magnesium	mg/L	38.2	17.8	20.0	102	70 - 130	X442139 - X4J0309-01	22-Oct-24	
EPA 200.7	Potassium	mg/L	23.5	2.69	20.0	104	70 - 130	X442139 - X4J0280-01	22-Oct-24	
EPA 200.7	Potassium	mg/L	22.3	2.15	20.0	101	70 - 130	X442139 - X4J0309-01	22-Oct-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.993	<0.080	1.00	99.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Aluminum	mg/L	0.983	<0.080	1.00	98.3	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Barium	mg/L	1.04	0.0411	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Barium	mg/L	1.02	0.0249	1.00	99.8	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.989	<0.00200	1.00	98.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.987	<0.00200	1.00	98.7	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Boron	mg/L	0.999	<0.0400	1.00	97.4	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Boron	mg/L	1.03	0.0542	1.00	97.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.977	<0.0020	1.00	97.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.989	<0.0020	1.00	98.9	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Calcium	mg/L	60.0	40.7	20.0	96.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Calcium	mg/L	210	188	20.0	110	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Chromium	mg/L	0.998	<0.0060	1.00	99.8	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.938	<0.0060	1.00	93.8	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.935	<0.0060	1.00	93.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Copper	mg/L	0.977	<0.0100	1.00	97.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Copper	mg/L	0.980	<0.0100	1.00	98.0	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Iron	mg/L	10.8	0.947	10.0	98.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Iron	mg/L	9.81	<0.100	10.0	98.1	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Lead	mg/L	0.949	<0.0075	1.00	94.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Lead	mg/L	0.942	<0.0075	1.00	94.2	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Lithium	mg/L	1.02	<0.040	1.00	102	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	102	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Magnesium	mg/L	30.7	10.8	20.0	99.1	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Magnesium	mg/L	37.2	17.3	20.0	99.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0284**
Reported: 30-Oct-24 14:21

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	1.19	0.193	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Manganese	mg/L	1.12	0.123	1.00	99.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.971	0.0167	1.00	95.4	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.979	<0.0080	1.00	97.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.963	<0.0100	1.00	96.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.936	<0.0100	1.00	93.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Potassium	mg/L	22.4	2.16	20.0	101	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Potassium	mg/L	24.0	3.46	20.0	102	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0463	<0.0050	0.0500	92.6	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Sodium	mg/L	34.0	15.4	19.0	98.1	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Sodium	mg/L	63.4	44.3	19.0	101	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.993	<0.0050	1.00	99.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.999	<0.0050	1.00	99.9	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.957	<0.0100	1.00	95.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.957	<0.0100	1.00	95.0	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.8	Antimony	mg/L	0.0289	0.00348	0.0250	102	70 - 130	X443167 - X4J0287-03	29-Oct-24	
EPA 200.8	Antimony	mg/L	0.0259	<0.0200	0.0250	104	70 - 130	X443167 - X4J0280-02	29-Oct-24	D17
EPA 200.8	Arsenic	mg/L	0.0245	<0.00100	0.0250	96.5	70 - 130	X443167 - X4J0287-03	29-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.400	<0.400	0.0250	83.9	70 - 130	X443167 - X4J0280-02	29-Oct-24	D17
EPA 200.8	Selenium	mg/L	0.0228	<0.00100	0.0250	91.3	70 - 130	X443167 - X4J0287-03	29-Oct-24	
EPA 200.8	Selenium	mg/L	<0.400	<0.400	0.0250	0.30R>S	70 - 130	X443167 - X4J0280-02	29-Oct-24	M4,R2B
EPA 200.8	Thallium	mg/L	0.0247	<0.000200	0.0250	98.7	70 - 130	X443167 - X4J0287-03	29-Oct-24	
EPA 200.8	Thallium	mg/L	0.0207	<0.00400	0.0250	82.9	70 - 130	X443167 - X4J0280-02	29-Oct-24	D17
EPA 200.8	Uranium	mg/L	0.0259	<0.000100	0.0250	103	70 - 130	X443167 - X4J0287-03	29-Oct-24	
EPA 200.8	Uranium	mg/L	5.35	5.27	0.0250	0.30R>S	70 - 130	X443167 - X4J0280-02	29-Oct-24	D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00206	<0.000200	0.00200	103	70 - 130	X442129 - X4J0280-01	28-Oct-24	
EPA 245.1	Mercury	mg/L	0.00213	<0.000200	0.00200	107	70 - 130	X442129 - X4J0309-02	28-Oct-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0940	<0.0050	0.100	94.0	79 - 121	X444035 - X4J0280-03	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	96.5	90 - 110	X443007 - X4J0238-01	22-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.0247	<0.0050	0.100	20.5	90 - 110	X443007 - X4J0233-01	22-Oct-24	M2
EPA 350.1	Ammonia as N	mg/L	0.990	<0.030	1.00	99.0	90 - 110	X442156 - X4J0280-04	18-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.21	0.112	1.00	110	90 - 110	X442156 - X4J0280-02	18-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	<0.0050	0.100	103	82 - 118	X442185 - X4J0214-01	18-Oct-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.87	<0.20	3.00	91.0	90 - 110	X442071 - X4J0284-01	16-Oct-24	
EPA 300.0	Fluoride	mg/L	2.00	<0.100	2.00	95.2	90 - 110	X442071 - X4J0284-01	16-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.88	<0.050	2.00	94.2	90 - 110	X442071 - X4J0284-01	16-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.81	<0.100	4.00	95.2	90 - 110	X442071 - X4J0284-01	16-Oct-24	
EPA 300.0	Nitrite as N	mg/L	1.93	<0.050	2.00	96.3	90 - 110	X442071 - X4J0284-01	16-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	11.3	1.57	10.0	96.9	90 - 110	X442071 - X4J0284-01	16-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0284**
Reported: 30-Oct-24 14:21

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	516	511	20.0	1.0	20	0.30R>S	X442139 - X4J0280-01	M4
EPA 200.7	Magnesium	mg/L	157	157	20.0	0.6	20	92.3	X442139 - X4J0280-01	
EPA 200.7	Potassium	mg/L	23.9	23.5	20.0	1.7	20	106	X442139 - X4J0280-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.00	0.993	1.00	0.9	20	100	X443015 - X4J0181-01	
EPA 200.7	Barium	mg/L	1.05	1.04	1.00	1.2	20	101	X443015 - X4J0181-01	
EPA 200.7	Beryllium	mg/L	1.00	0.989	1.00	1.3	20	100	X443015 - X4J0181-01	
EPA 200.7	Boron	mg/L	1.02	0.999	1.00	2.5	20	99.9	X443015 - X4J0181-01	
EPA 200.7	Cadmium	mg/L	1.01	0.977	1.00	3.1	20	101	X443015 - X4J0181-01	
EPA 200.7	Calcium	mg/L	60.1	60.0	20.0	0.1	20	96.7	X443015 - X4J0181-01	
EPA 200.7	Chromium	mg/L	1.02	1.00	1.00	1.2	20	102	X443015 - X4J0181-01	
EPA 200.7	Cobalt	mg/L	0.966	0.938	1.00	3.0	20	96.6	X443015 - X4J0181-01	
EPA 200.7	Copper	mg/L	1.00	0.977	1.00	2.5	20	100	X443015 - X4J0181-01	
EPA 200.7	Iron	mg/L	10.8	10.8	10.0	0.1	20	98.8	X443015 - X4J0181-01	
EPA 200.7	Lead	mg/L	0.973	0.949	1.00	2.5	20	97.3	X443015 - X4J0181-01	
EPA 200.7	Lithium	mg/L	1.02	1.02	1.00	0.0	20	102	X443015 - X4J0181-01	
EPA 200.7	Magnesium	mg/L	30.8	30.7	20.0	0.4	20	99.7	X443015 - X4J0181-01	
EPA 200.7	Manganese	mg/L	1.20	1.19	1.00	0.3	20	100	X443015 - X4J0181-01	
EPA 200.7	Molybdenum	mg/L	0.995	0.971	1.00	2.4	20	97.8	X443015 - X4J0181-01	
EPA 200.7	Nickel	mg/L	0.964	0.963	1.00	0.2	20	96.4	X443015 - X4J0181-01	
EPA 200.7	Potassium	mg/L	22.4	22.4	20.0	0.4	20	101	X443015 - X4J0181-01	
EPA 200.7	Silver	mg/L	0.0473	0.0463	0.0500	2.1	20	94.6	X443015 - X4J0181-01	
EPA 200.7	Sodium	mg/L	33.9	34.0	19.0	0.4	20	97.4	X443015 - X4J0181-01	
EPA 200.7	Vanadium	mg/L	1.01	0.993	1.00	1.9	20	101	X443015 - X4J0181-01	
EPA 200.7	Zinc	mg/L	0.985	0.957	1.00	2.9	20	98.5	X443015 - X4J0181-01	
EPA 200.8	Antimony	mg/L	0.0272	0.0259	0.0250	4.7	20	109	X443167 - X4J0280-02	D17
EPA 200.8	Arsenic	mg/L	<0.400	<0.400	0.0250	3.0	20	98.8	X443167 - X4J0280-02	D17
EPA 200.8	Selenium	mg/L	0.434	<0.400	0.0250	52.2	20	0.30R>S	X443167 - X4J0280-02	D17,M4,R2B
EPA 200.8	Thallium	mg/L	0.0219	0.0207	0.0250	5.6	20	87.6	X443167 - X4J0280-02	D17
EPA 200.8	Uranium	mg/L	5.38	5.35	0.0250	0.6	20	0.30R>S	X443167 - X4J0280-02	D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00212	0.00206	0.00200	3.0	20	106	X442129 - X4J0280-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	0.0940	0.100	6.2	11	100	X444035 - X4J0280-03	
EPA 335.4	Cyanide (total)	mg/L	0.0994	0.100	0.100	1.0	20	95.5	X443007 - X4J0238-01	
EPA 350.1	Ammonia as N	mg/L	1.01	0.990	1.00	2.4	20	101	X442156 - X4J0280-04	
OIA 1677	Cyanide (WAD)	mg/L	0.105	0.104	0.100	1.0	11	104	X442185 - X4J0214-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	2.89	2.87	3.00	1.0	20	91.9	X442071 - X4J0284-01	
EPA 300.0	Fluoride	mg/L	2.02	2.00	2.00	1.0	20	96.3	X442071 - X4J0284-01	
EPA 300.0	Nitrate as N	mg/L	1.90	1.88	2.00	1.1	20	95.2	X442071 - X4J0284-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.85	3.81	4.00	1.0	20	96.2	X442071 - X4J0284-01	
EPA 300.0	Nitrite as N	mg/L	1.94	1.93	2.00	0.9	20	97.2	X442071 - X4J0284-01	
EPA 300.0	Sulfate as SO4	mg/L	11.4	11.3	10.0	1.0	20	98.0	X442071 - X4J0284-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4J0284**
Victor, CO 80860	Reported: 30-Oct-24 14:21

Notes and Definitions

D17	Due to an internal standard failure at a lower dilution, 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.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4J0309**
Victor, CO 80860	Reported: 30-Oct-24 15:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-37A	X4J0309-01	Ground Water	15-Oct-24 08:30	TR	16-Oct-2024	
GVMW-37B	X4J0309-02	Ground Water	15-Oct-24 09:35	TR	16-Oct-2024	
GVMW-15A	X4J0309-03	Ground Water	15-Oct-24 11:45	TR	16-Oct-2024	
GVMW-15B	X4J0309-04	Ground Water	15-Oct-24 10:55	TR	16-Oct-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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0309

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: **X4J0309**
Reported: 30-Oct-24 15:49

Client Sample ID: **GVMW-37A**
SVL Sample ID: **X4J0309-01 (Ground Water)**

Sampled: 15-Oct-24 08:30
Received: 16-Oct-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**	84.9	mg/L	0.100	0.069		X442139	SJN	10/22/24 12:52	
EPA 200.7	**Magnesium**	17.8	mg/L	0.500	0.090		X442139	SJN	10/22/24 12:52	
EPA 200.7	**Potassium**	2.15	mg/L	0.50	0.18		X442139	SJN	10/22/24 12:52	
SM 2340 B	**Hardness (as CaCO3)**	285	mg/L	2.31	0.543		N/A		10/29/24 12:38	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X443064	SJN	10/29/24 12:38	
EPA 200.7	**Barium**	0.112	mg/L	0.0020	0.0019		X443064	SJN	10/29/24 12:38	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X443064	SJN	10/29/24 12:38	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X443064	SJN	10/29/24 12:38	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X443064	SJN	10/29/24 12:38	
EPA 200.7	**Calcium**	81.6	mg/L	0.100	0.069		X443064	SJN	10/29/24 12:38	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X443064	SJN	10/29/24 12:38	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X443064	SJN	10/29/24 12:38	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X443064	SJN	10/29/24 12:38	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X443064	SJN	10/29/24 12:38	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X443064	SJN	10/29/24 12:38	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X443064	SJN	10/29/24 12:38	
EPA 200.7	**Magnesium**	17.5	mg/L	0.500	0.090		X443064	SJN	10/29/24 12:38	
EPA 200.7	**Manganese**	0.265	mg/L	0.0080	0.0034		X443064	SJN	10/29/24 12:38	
EPA 200.7	**Molybdenum**	0.0237	mg/L	0.0080	0.0034		X443064	SJN	10/29/24 12:38	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X443064	SJN	10/29/24 12:38	
EPA 200.7	**Potassium**	2.08	mg/L	0.50	0.18		X443064	SJN	10/29/24 12:38	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X443064	SJN	10/29/24 12:38	
EPA 200.7	**Sodium**	35.0	mg/L	0.50	0.12		X443064	SJN	10/29/24 12:38	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X443064	SJN	10/29/24 12:38	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X443064	SJN	10/29/24 12:38	
EPA 200.8	**Antimony**	0.00200	mg/L	0.00100	0.00072		X443171	SMU	10/29/24 17:34	
EPA 200.8	**Arsenic**	0.00148	mg/L	0.00100	0.00021		X443171	SMU	10/29/24 15:50	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X443171	SMU	10/29/24 15:50	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X443171	SMU	10/29/24 15:50	
EPA 200.8	**Uranium**	0.00551	mg/L	0.000100	0.000052		X443171	SMU	10/29/24 15:50	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X442129	MAC	10/28/24 14:28	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X443192	DD	10/28/24 14:33	R4,T5
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X443007	JPM	10/22/24 14:35	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X443069	DD	10/24/24 11:08	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442185	DD	10/18/24 10:29	
SM 2310 B	**Acidity to pH 8.3**	-103	mg/L as CaCO3	10.0			X443190	MWD	10/25/24 09:11	
SM 2320 B	**Total Alkalinity**	103	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:20	
SM 2320 B	**Bicarbonate**	103	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:20	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:20	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:20	
SM 2540 C	**Total Diss. Solids**	527	mg/L	10			X442120	TJL	10/18/24 15:20	
SM 2540 D	**Total Susp. Solids**	20.0	mg/L	5.0			X442122	TJL	10/22/24 08:25	
SM 4500 H B	**pH @19.8°C**	8.1	pH Units				X442151	MWD	10/21/24 13:20	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: **X4J0309**
Reported: 30-Oct-24 15:49

Client Sample ID: **GVMW-37A**
SVL Sample ID: **X4J0309-01 (Ground Water)**

Sampled: 15-Oct-24 08:30
Received: 16-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	4.36	mg/L	0.20	0.02		X442113	RS	10/16/24 16:06	
EPA 300.0	**Fluoride**	1.39	mg/L	0.100	0.017		X442113	RS	10/16/24 16:06	
EPA 300.0	**Nitrate as N**	0.072	mg/L	0.050	0.013		X442113	RS	10/16/24 16:06	
EPA 300.0	**Nitrate+Nitrite as N**	0.107	mg/L	0.100	0.044		X442113	RS	10/16/24 16:06	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X442113	RS	10/16/24 16:06	
EPA 300.0	**Sulfate as SO4**	273	mg/L	3.00	1.80	10	X442113	RS	10/16/24 16:23	

Cation/Anion Balance and TDS Ratios

Cation Sum: 7.11 meq/L Anion Sum: 7.95 meq/L C/A Balance: -5.54 % Calculated TDS: 479 TDS/cTDS: 1.10

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

Kristi A. Groth

Kristi A. Groth
Sample Preparation Technician

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0309**
Reported: 30-Oct-24 15:49

Client Sample ID: **GVMW-37B**
SVL Sample ID: **X4J0309-02 (Ground Water)**

Sampled: 15-Oct-24 09:35
Received: 16-Oct-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**	60.0	mg/L	0.100	0.069		X442139	SJN	10/22/24 12:56	
EPA 200.7	**Magnesium**	10.0	mg/L	0.500	0.090		X442139	SJN	10/22/24 12:56	
EPA 200.7	**Potassium**	1.93	mg/L	0.50	0.18		X442139	SJN	10/22/24 12:56	
SM 2340 B	**Hardness (as CaCO3)**	186	mg/L	2.31	0.543		N/A		10/29/24 12:42	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	0.101	mg/L	0.080	0.054		X443064	SJN	10/29/24 12:42	
EPA 200.7	**Barium**	0.0964	mg/L	0.0020	0.0019		X443064	SJN	10/29/24 12:42	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X443064	SJN	10/29/24 12:42	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X443064	SJN	10/29/24 12:42	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X443064	SJN	10/29/24 12:42	
EPA 200.7	**Calcium**	57.9	mg/L	0.100	0.069		X443064	SJN	10/29/24 12:42	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X443064	SJN	10/29/24 12:42	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X443064	SJN	10/29/24 12:42	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X443064	SJN	10/29/24 12:42	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X443064	SJN	10/29/24 12:42	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X443064	SJN	10/29/24 12:42	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X443064	SJN	10/29/24 12:42	
EPA 200.7	**Magnesium**	9.67	mg/L	0.500	0.090		X443064	SJN	10/29/24 12:42	
EPA 200.7	**Manganese**	0.417	mg/L	0.0080	0.0034		X443064	SJN	10/29/24 12:42	
EPA 200.7	**Molybdenum**	0.0110	mg/L	0.0080	0.0034		X443064	SJN	10/29/24 12:42	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X443064	SJN	10/29/24 12:42	
EPA 200.7	**Potassium**	1.81	mg/L	0.50	0.18		X443064	SJN	10/29/24 12:42	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X443064	SJN	10/29/24 12:42	
EPA 200.7	**Sodium**	31.6	mg/L	0.50	0.12		X443064	SJN	10/29/24 12:42	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X443064	SJN	10/29/24 12:42	
EPA 200.7	**Zinc**	0.0150	mg/L	0.0100	0.0054		X443064	SJN	10/29/24 12:42	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X443171	SMU	10/29/24 17:37	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X443171	SMU	10/29/24 15:53	
EPA 200.8	**Selenium**	0.00124	mg/L	0.00100	0.00024		X443171	SMU	10/29/24 15:53	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X443171	SMU	10/29/24 15:53	
EPA 200.8	**Uranium**	0.00293	mg/L	0.000100	0.000052		X443171	SMU	10/29/24 15:53	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X442129	MAC	10/28/24 14:30	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X443192	DD	10/28/24 14:35	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X443007	JPM	10/22/24 14:37	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X443069	DD	10/24/24 11:10	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442185	DD	10/18/24 10:31	
SM 2310 B	**Acidity to pH 8.3**	-117	mg/L as CaCO3	10.0			X443190	MWD	10/25/24 09:11	
SM 2320 B	**Total Alkalinity**	115	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:26	
SM 2320 B	**Bicarbonate**	115	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:26	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:26	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:26	
SM 2540 C	**Total Diss. Solids**	302	mg/L	10			X442120	TJL	10/18/24 15:20	
SM 2540 D	**Total Susp. Solids**	18.0	mg/L	5.0			X442122	TJL	10/22/24 08:25	
SM 4500 H B	**pH @19.8°C**	7.9	pH Units				X442151	MWD	10/21/24 13:26	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: **X4J0309**
Reported: 30-Oct-24 15:49

Client Sample ID: **GVMW-37B**
SVL Sample ID: **X4J0309-02 (Ground Water)**

Sampled: 15-Oct-24 09:35
Received: 16-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	4.24	mg/L	0.20	0.02		X442113	RS	10/16/24 17:29	
EPA 300.0	**Fluoride**	2.03	mg/L	0.100	0.017		X442113	RS	10/16/24 17:29	
EPA 300.0	**Nitrate as N**	0.885	mg/L	0.050	0.013		X442113	RS	10/16/24 17:29	
EPA 300.0	**Nitrate+Nitrite as N**	0.965	mg/L	0.100	0.044		X442113	RS	10/16/24 17:29	
EPA 300.0	**Nitrite as N**	0.080	mg/L	0.050	0.031		X442113	RS	10/16/24 17:29	
EPA 300.0	**Sulfate as SO4**	145	mg/L	3.00	1.80	10	X442113	RS	10/16/24 17:46	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 5.14 meq/L Anion Sum: 5.61 meq/L C/A Balance: -4.38 % Calculated TDS: 327 TDS/cTDS: 0.92

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

Kristi A. Groth

Kristi A. Groth
Sample Preparation Technician

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0309**
Reported: 30-Oct-24 15:49

Client Sample ID: **GVMW-15A**
SVL Sample ID: **X4J0309-03 (Ground Water)**

Sampled: 15-Oct-24 11:45
Received: 16-Oct-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**	19.1	mg/L	0.100	0.069		X442139	SJN	10/22/24 13:00	
EPA 200.7	**Magnesium**	17.3	mg/L	0.500	0.090		X442139	SJN	10/22/24 13:00	
EPA 200.7	**Potassium**	1.88	mg/L	0.50	0.18		X442139	SJN	10/22/24 13:00	
SM 2340 B	**Hardness (as CaCO3)**	117	mg/L	2.31	0.543		N/A		10/22/24 13:00	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X443064	SJN	10/29/24 12:45	
EPA 200.7	**Barium**	0.0504	mg/L	0.0020	0.0019		X443064	SJN	10/29/24 12:45	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X443064	SJN	10/29/24 12:45	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X443064	SJN	10/29/24 12:45	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X443064	SJN	10/29/24 12:45	
EPA 200.7	**Calcium**	19.0	mg/L	0.100	0.069		X443064	SJN	10/29/24 12:45	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X443064	SJN	10/29/24 12:45	
EPA 200.7	**Cobalt**	0.0284	mg/L	0.0060	0.0046		X443064	SJN	10/29/24 12:45	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X443064	SJN	10/29/24 12:45	
EPA 200.7	**Iron**	31.2	mg/L	0.100	0.056		X443064	SJN	10/29/24 12:45	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X443064	SJN	10/29/24 12:45	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X443064	SJN	10/29/24 12:45	
EPA 200.7	**Magnesium**	17.0	mg/L	0.500	0.090		X443064	SJN	10/29/24 12:45	
EPA 200.7	**Manganese**	1.83	mg/L	0.0080	0.0034		X443064	SJN	10/29/24 12:45	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X443064	SJN	10/29/24 12:45	
EPA 200.7	**Nickel**	0.0345	mg/L	0.0100	0.0048		X443064	SJN	10/29/24 12:45	
EPA 200.7	**Potassium**	1.93	mg/L	0.50	0.18		X443064	SJN	10/29/24 12:45	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X443064	SJN	10/29/24 12:45	
EPA 200.7	**Sodium**	13.8	mg/L	0.50	0.12		X443064	SJN	10/29/24 12:45	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X443064	SJN	10/29/24 12:45	
EPA 200.7	**Zinc**	0.291	mg/L	0.0100	0.0054		X443064	SJN	10/29/24 12:45	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X443171	SMU	10/29/24 17:44	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X443171	SMU	10/29/24 16:02	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X443171	SMU	10/29/24 16:02	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X443171	SMU	10/29/24 16:02	
EPA 200.8	**Uranium**	0.000189	mg/L	0.000100	0.000052		X443171	SMU	10/29/24 16:02	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X442129	MAC	10/28/24 14:32	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X443192	DD	10/28/24 14:37	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X443007	JPM	10/22/24 14:40	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X443069	DD	10/24/24 11:12	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442185	DD	10/18/24 10:32	
SM 2310 B	**Acidity to pH 8.3**	31.8	mg/L as CaCO3	10.0			X443190	MWD	10/25/24 09:11	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:31	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:31	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:31	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:31	
SM 2540 C	**Total Diss. Solids**	282	mg/L	10			X442120	TJL	10/18/24 15:20	
SM 2540 D	**Total Susp. Solids**	36.0	mg/L	5.0			X442122	TJL	10/22/24 08:25	
SM 4500 H B	**pH @19.9°C**	4.4	pH Units				X442151	MWD	10/21/24 13:31	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: **X4J0309**
Reported: 30-Oct-24 15:49

Client Sample ID: **GVMW-15A**
SVL Sample ID: **X4J0309-03 (Ground Water)**

Sampled: 15-Oct-24 11:45
Received: 16-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.53	mg/L	0.20	0.02		X442113	RS	10/16/24 18:02	
EPA 300.0	**Fluoride**	0.313	mg/L	0.100	0.017		X442113	RS	10/16/24 18:02	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X442113	RS	10/16/24 18:02	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X442113	RS	10/16/24 18:02	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X442113	RS	10/16/24 18:02	
EPA 300.0	**Sulfate as SO4**	189	mg/L	3.00	1.80	10	X442113	RS	10/16/24 18:19	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.20 meq/L Anion Sum: 4.02 meq/L C/A Balance: 2.21 % Calculated TDS: 243 TDS/cTDS: 1.16

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

Kristi A. Groth

Kristi A. Groth
Sample Preparation Technician

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: **X4J0309**
Reported: 30-Oct-24 15:49

Client Sample ID: **GVMW-15B**
SVL Sample ID: **X4J0309-04 (Ground Water)**

Sampled: 15-Oct-24 10:55
Received: 16-Oct-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**	38.3	mg/L	0.100	0.069		X442139	SJN	10/22/24 13:03	
EPA 200.7	**Magnesium**	21.2	mg/L	0.500	0.090		X442139	SJN	10/22/24 13:03	
EPA 200.7	**Potassium**	2.16	mg/L	0.50	0.18		X442139	SJN	10/22/24 13:03	
SM 2340 B	**Hardness (as CaCO3)**	182	mg/L	2.31	0.543		N/A		10/22/24 13:03	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	0.526	mg/L	0.080	0.054		X443064	SJN	10/29/24 12:49	
EPA 200.7	**Barium**	0.0148	mg/L	0.0020	0.0019		X443064	SJN	10/29/24 12:49	
EPA 200.7	**Beryllium**	0.0302	mg/L	0.00200	0.00080		X443064	SJN	10/29/24 12:49	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X443064	SJN	10/29/24 12:49	
EPA 200.7	**Cadmium**	0.0021	mg/L	0.0020	0.0016		X443064	SJN	10/29/24 12:49	
EPA 200.7	**Calcium**	38.5	mg/L	0.100	0.069		X443064	SJN	10/29/24 12:49	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X443064	SJN	10/29/24 12:49	
EPA 200.7	**Cobalt**	0.0604	mg/L	0.0060	0.0046		X443064	SJN	10/29/24 12:49	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X443064	SJN	10/29/24 12:49	
EPA 200.7	**Iron**	20.9	mg/L	0.100	0.056		X443064	SJN	10/29/24 12:49	
EPA 200.7	**Lead**	0.0577	mg/L	0.0075	0.0049		X443064	SJN	10/29/24 12:49	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X443064	SJN	10/29/24 12:49	
EPA 200.7	**Magnesium**	21.0	mg/L	0.500	0.090		X443064	SJN	10/29/24 12:49	
EPA 200.7	**Manganese**	1.26	mg/L	0.0080	0.0034		X443064	SJN	10/29/24 12:49	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X443064	SJN	10/29/24 12:49	
EPA 200.7	**Nickel**	0.0788	mg/L	0.0100	0.0048		X443064	SJN	10/29/24 12:49	
EPA 200.7	**Potassium**	2.57	mg/L	0.50	0.18		X443064	SJN	10/29/24 12:49	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X443064	SJN	10/29/24 12:49	
EPA 200.7	**Sodium**	12.8	mg/L	0.50	0.12		X443064	SJN	10/29/24 12:49	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X443064	SJN	10/29/24 12:49	
EPA 200.7	**Zinc**	1.28	mg/L	0.0100	0.0054		X443064	SJN	10/29/24 12:49	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X443171	SMU	10/29/24 17:47	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X443171	SMU	10/29/24 16:05	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X443171	SMU	10/29/24 16:05	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X443171	SMU	10/29/24 16:05	
EPA 200.8	**Uranium**	0.00163	mg/L	0.000100	0.000052		X443171	SMU	10/29/24 16:05	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X442129	MAC	10/28/24 14:35	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X443192	DD	10/28/24 14:39	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X443007	JPM	10/22/24 14:42	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X443069	DD	10/24/24 11:14	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442185	DD	10/18/24 10:34	
SM 2310 B	**Acidity to pH 8.3**	29.9	mg/L as CaCO3	10.0			X443190	MWD	10/25/24 09:11	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:44	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:44	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:44	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:44	
SM 2540 C	**Total Diss. Solids**	372	mg/L	10			X442120	TJL	10/18/24 15:20	
SM 2540 D	**Total Susp. Solids**	12.0	mg/L	5.0			X442122	TJL	10/22/24 08:25	
SM 4500 H B	**pH @19.7°C**	3.6	pH Units				X442151	MWD	10/21/24 13:44	H5

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0309**
Reported: 30-Oct-24 15:49

Client Sample ID: **GVMW-15B**
SVL Sample ID: **X4J0309-04 (Ground Water)**

Sampled: 15-Oct-24 10:55
Received: 16-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	1.08	mg/L	0.20	0.02		X442113	RS	10/16/24 18:35	
EPA 300.0	**Fluoride**	0.400	mg/L	0.100	0.017		X442113	RS	10/16/24 18:35	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X442113	RS	10/16/24 18:35	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X442113	RS	10/16/24 18:52	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X442113	RS	10/16/24 18:35	
EPA 300.0	**Sulfate as SO4**	270	mg/L	3.00	1.80	10	X442113	RS	10/16/24 18:52	

Cation/Anion Balance and TDS Ratios

Cation Sum: 5.15 meq/L Anion Sum: 5.70 meq/L C/A Balance: -5.04 % Calculated TDS: 346 TDS/cTDS: 1.07

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

Kristi A. Groth

Kristi A. Groth
Sample Preparation Technician

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0309**
Reported: 30-Oct-24 15:49

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X442139	22-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X442139	22-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X442139	22-Oct-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X443064	29-Oct-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X443064	29-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X443064	29-Oct-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X443064	29-Oct-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X443064	29-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X443064	29-Oct-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X443064	29-Oct-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X443064	29-Oct-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X443064	29-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X443064	29-Oct-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X443064	29-Oct-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X443064	29-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X443064	29-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X443064	29-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X443064	29-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X443064	29-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X443064	29-Oct-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X443064	29-Oct-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X443064	29-Oct-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X443064	29-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X443064	29-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X443171	29-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X443171	29-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X443171	29-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X443171	29-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X443171	29-Oct-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X442129	28-Oct-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X443192	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X443007	22-Oct-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X443069	24-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X442185	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X443190	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X442151	21-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X442151	21-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X442151	21-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X442151	21-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X442120	18-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X442122	22-Oct-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X442113	16-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X442113	16-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X442113	16-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X442113	16-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X442113	16-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X442113	16-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0309**
Reported: 30-Oct-24 15:49

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X442139	22-Oct-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	100	85 - 115	X442139	22-Oct-24	
EPA 200.7	Potassium	mg/L	20.1	20.0	101	85 - 115	X442139	22-Oct-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.985	1.00	98.5	85 - 115	X443064	29-Oct-24	
EPA 200.7	Barium	mg/L	0.988	1.00	98.8	85 - 115	X443064	29-Oct-24	
EPA 200.7	Beryllium	mg/L	0.973	1.00	97.3	85 - 115	X443064	29-Oct-24	
EPA 200.7	Boron	mg/L	0.961	1.00	96.1	85 - 115	X443064	29-Oct-24	
EPA 200.7	Cadmium	mg/L	0.969	1.00	96.9	85 - 115	X443064	29-Oct-24	
EPA 200.7	Calcium	mg/L	19.4	20.0	97.0	85 - 115	X443064	29-Oct-24	
EPA 200.7	Chromium	mg/L	0.968	1.00	96.8	85 - 115	X443064	29-Oct-24	
EPA 200.7	Cobalt	mg/L	0.935	1.00	93.5	85 - 115	X443064	29-Oct-24	
EPA 200.7	Copper	mg/L	0.928	1.00	92.8	85 - 115	X443064	29-Oct-24	
EPA 200.7	Iron	mg/L	10.1	10.0	101	85 - 115	X443064	29-Oct-24	
EPA 200.7	Lead	mg/L	0.970	1.00	97.0	85 - 115	X443064	29-Oct-24	
EPA 200.7	Lithium	mg/L	0.930	1.00	93.0	85 - 115	X443064	29-Oct-24	
EPA 200.7	Magnesium	mg/L	19.3	20.0	96.7	85 - 115	X443064	29-Oct-24	
EPA 200.7	Manganese	mg/L	0.970	1.00	97.0	85 - 115	X443064	29-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.979	1.00	97.9	85 - 115	X443064	29-Oct-24	
EPA 200.7	Nickel	mg/L	0.935	1.00	93.5	85 - 115	X443064	29-Oct-24	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.4	85 - 115	X443064	29-Oct-24	
EPA 200.7	Silver	mg/L	0.0500	0.0500	99.9	85 - 115	X443064	29-Oct-24	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.4	85 - 115	X443064	29-Oct-24	
EPA 200.7	Vanadium	mg/L	0.979	1.00	97.9	85 - 115	X443064	29-Oct-24	
EPA 200.7	Zinc	mg/L	0.948	1.00	94.8	85 - 115	X443064	29-Oct-24	
EPA 200.8	Antimony	mg/L	0.0241	0.0250	96.5	85 - 115	X443171	29-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0255	0.0250	102	85 - 115	X443171	29-Oct-24	
EPA 200.8	Selenium	mg/L	0.0285	0.0250	114	85 - 115	X443171	29-Oct-24	
EPA 200.8	Thallium	mg/L	0.0243	0.0250	97.3	85 - 115	X443171	29-Oct-24	
EPA 200.8	Uranium	mg/L	0.0235	0.0250	94.1	85 - 115	X443171	29-Oct-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00200	0.00200	99.9	85 - 115	X442129	28-Oct-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.104	0.100	104	90 - 110	X443192	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X443007	22-Oct-24	
EPA 350.1	Ammonia as N	mg/L	0.999	1.00	99.9	90 - 110	X443069	24-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0990	0.100	99.0	90 - 110	X442185	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	719	706	102	95.4 - 104	X443190	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X442151	21-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X442151	21-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X442122	22-Oct-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.14	3.00	105	90 - 110	X442113	16-Oct-24	
EPA 300.0	Fluoride	mg/L	2.08	2.00	104	90 - 110	X442113	16-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.10	2.00	105	90 - 110	X442113	16-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.72	4.50	105	90 - 110	X442113	16-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.63	2.50	105	90 - 110	X442113	16-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X442113	16-Oct-24	

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0309**
Reported: 30-Oct-24 15:49

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X443190 - X4J0280-01	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	103	103	0.0	20	X442151 - X4J0309-01	21-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	103	103	0.0	20	X442151 - X4J0309-01	21-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442151 - X4J0309-01	21-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442151 - X4J0309-01	21-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	306	302	1.3	10	X442120 - X4J0309-02	18-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	343	324	5.7	10	X442120 - X4J0325-02	18-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	18.0	18.0	0.0	10	X442122 - X4J0309-02	22-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X442122 - X4J0325-02	22-Oct-24	
SM 4500 H B	pH @19.7°C	pH Units	8.1	8.1	0.1	20	X442151 - X4J0309-01	21-Oct-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	104	84.9	20.0	95	70 - 130	X442139 - X4J0309-01	22-Oct-24	
EPA 200.7	Calcium	mg/L	511	507	20.0	0.30R>S	70 - 130	X442139 - X4J0280-01	22-Oct-24	M4
EPA 200.7	Magnesium	mg/L	157	139	20.0	87.6	70 - 130	X442139 - X4J0280-01	22-Oct-24	
EPA 200.7	Magnesium	mg/L	38.2	17.8	20.0	102	70 - 130	X442139 - X4J0309-01	22-Oct-24	
EPA 200.7	Potassium	mg/L	23.5	2.69	20.0	104	70 - 130	X442139 - X4J0280-01	22-Oct-24	
EPA 200.7	Potassium	mg/L	22.3	2.15	20.0	101	70 - 130	X442139 - X4J0309-01	22-Oct-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.03	<0.080	1.00	103	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Aluminum	mg/L	1.05	<0.080	1.00	105	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Barium	mg/L	1.10	0.112	1.00	99.0	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Barium	mg/L	0.984	0.0185	1.00	96.6	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Beryllium	mg/L	0.988	<0.00200	1.00	98.8	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Beryllium	mg/L	0.971	<0.00200	1.00	97.1	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	98.5	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	98.4	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Cadmium	mg/L	0.971	<0.0020	1.00	97.1	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Cadmium	mg/L	0.890	<0.0020	1.00	89.0	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Calcium	mg/L	104	81.6	20.0	112	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Calcium	mg/L	568	552	20.0	79.5	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Chromium	mg/L	0.973	<0.0060	1.00	97.1	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Chromium	mg/L	0.929	<0.0060	1.00	92.9	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Cobalt	mg/L	0.951	<0.0060	1.00	95.1	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Cobalt	mg/L	0.905	0.0107	1.00	89.4	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Copper	mg/L	0.952	<0.0100	1.00	95.2	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Copper	mg/L	0.998	<0.0100	1.00	99.3	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Iron	mg/L	11.2	1.16	10.0	101	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Lead	mg/L	0.973	<0.0075	1.00	97.3	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Lead	mg/L	0.919	<0.0075	1.00	91.9	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Lithium	mg/L	1.01	<0.040	1.00	101	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Lithium	mg/L	1.07	<0.040	1.00	107	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Magnesium	mg/L	38.6	17.5	20.0	106	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Magnesium	mg/L	241	222	20.0	92.7	70 - 130	X443064 - X4J0352-13	29-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0309**
Reported: 30-Oct-24 15:49

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	1.24	0.265	1.00	97.3	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Manganese	mg/L	6.80	5.92	1.00	88.0	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Molybdenum	mg/L	1.03	0.0237	1.00	100	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Molybdenum	mg/L	1.23	0.274	1.00	95.5	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Nickel	mg/L	0.929	<0.0100	1.00	92.9	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Nickel	mg/L	0.890	<0.0100	1.00	89.0	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Potassium	mg/L	21.9	2.08	20.0	99.1	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Potassium	mg/L	36.8	16.4	20.0	102	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Silver	mg/L	0.0531	<0.0050	0.0500	106	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Silver	mg/L	0.0483	<0.0050	0.0500	92.8	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Sodium	mg/L	54.4	35.0	19.0	102	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Sodium	mg/L	160	143	19.0	92.0	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Vanadium	mg/L	0.995	<0.0050	1.00	99.5	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Vanadium	mg/L	0.975	<0.0050	1.00	97.5	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.7	Zinc	mg/L	0.970	<0.0100	1.00	97.0	70 - 130	X443064 - X4J0309-01	29-Oct-24	
EPA 200.7	Zinc	mg/L	0.968	0.0369	1.00	93.2	70 - 130	X443064 - X4J0352-13	29-Oct-24	
EPA 200.8	Antimony	mg/L	0.0265	<0.00100	0.0250	106	70 - 130	X443171 - X4J0309-02	29-Oct-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.00200	0.0250	103	70 - 130	X443171 - X4J0323-03	29-Oct-24	D17
EPA 200.8	Arsenic	mg/L	0.0277	<0.00100	0.0250	109	70 - 130	X443171 - X4J0309-02	29-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0279	0.00230	0.0250	102	70 - 130	X443171 - X4J0323-03	29-Oct-24	D17
EPA 200.8	Selenium	mg/L	0.0294	0.00124	0.0250	112	70 - 130	X443171 - X4J0309-02	29-Oct-24	
EPA 200.8	Selenium	mg/L	0.0231	<0.00200	0.0250	92.3	70 - 130	X443171 - X4J0323-03	29-Oct-24	D17
EPA 200.8	Thallium	mg/L	0.0245	<0.000200	0.0250	97.7	70 - 130	X443171 - X4J0309-02	29-Oct-24	
EPA 200.8	Thallium	mg/L	0.0242	<0.000400	0.0250	96.8	70 - 130	X443171 - X4J0323-03	29-Oct-24	D17
EPA 200.8	Uranium	mg/L	0.0291	0.00293	0.0250	105	70 - 130	X443171 - X4J0309-02	29-Oct-24	
EPA 200.8	Uranium	mg/L	0.0278	0.00183	0.0250	104	70 - 130	X443171 - X4J0323-03	29-Oct-24	D17
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00206	<0.000200	0.00200	103	70 - 130	X442129 - X4J0280-01	28-Oct-24	
EPA 245.1	Mercury	mg/L	0.00213	<0.000200	0.00200	107	70 - 130	X442129 - X4J0309-02	28-Oct-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0930	<0.0050	0.100	93.0	79 - 121	X443192 - X4J0309-01	28-Oct-24	R4
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	96.5	90 - 110	X443007 - X4J0238-01	22-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.0247	<0.0050	0.100	20.5	90 - 110	X443007 - X4J0233-01	22-Oct-24	M2
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X443069 - X4J0309-01	24-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X443069 - X4J0309-02	24-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	<0.0050	0.100	103	82 - 118	X442185 - X4J0214-01	18-Oct-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.6	7.45	3.00	104	90 - 110	X442113 - X4J0326-01	16-Oct-24	
EPA 300.0	Chloride	mg/L	5.04	1.90	3.00	105	90 - 110	X442113 - X4J0330-01	16-Oct-24	
EPA 300.0	Fluoride	mg/L	2.18	0.170	2.00	100	90 - 110	X442113 - X4J0326-01	16-Oct-24	
EPA 300.0	Fluoride	mg/L	2.25	0.150	2.00	105	90 - 110	X442113 - X4J0330-01	16-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.37	0.311	2.00	103	90 - 110	X442113 - X4J0326-01	16-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X442113 - X4J0330-01	16-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.47	0.493	4.00	99.4	90 - 110	X442113 - X4J0326-01	16-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.17	<0.100	4.00	104	90 - 110	X442113 - X4J0330-01	16-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	105	90 - 110	X442113 - X4J0326-01	16-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.11	<0.050	2.00	105	90 - 110	X442113 - X4J0330-01	16-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	32.7	22.8	10.0	99.2	90 - 110	X442113 - X4J0326-01	16-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0309**
Reported: 30-Oct-24 15:49

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	14.4	4.12	10.0	103	90 - 110	X442113 - X4J0330-01	16-Oct-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	516	511	20.0	1.0	20	0.30R>S	X442139 - X4J0280-01	M4
EPA 200.7	Magnesium	mg/L	157	157	20.0	0.6	20	92.3	X442139 - X4J0280-01	
EPA 200.7	Potassium	mg/L	23.9	23.5	20.0	1.7	20	106	X442139 - X4J0280-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.00	1.03	1.00	2.9	20	100	X443064 - X4J0309-01	
EPA 200.7	Barium	mg/L	1.07	1.10	1.00	2.6	20	96.2	X443064 - X4J0309-01	
EPA 200.7	Beryllium	mg/L	0.958	0.988	1.00	3.1	20	95.8	X443064 - X4J0309-01	
EPA 200.7	Boron	mg/L	0.986	1.01	1.00	2.2	20	96.3	X443064 - X4J0309-01	
EPA 200.7	Cadmium	mg/L	0.924	0.971	1.00	5.0	20	92.4	X443064 - X4J0309-01	
EPA 200.7	Calcium	mg/L	102	104	20.0	1.9	20	103	X443064 - X4J0309-01	
EPA 200.7	Chromium	mg/L	0.945	0.973	1.00	3.0	20	94.2	X443064 - X4J0309-01	
EPA 200.7	Cobalt	mg/L	0.904	0.951	1.00	5.1	20	90.4	X443064 - X4J0309-01	
EPA 200.7	Copper	mg/L	0.930	0.952	1.00	2.4	20	93.0	X443064 - X4J0309-01	
EPA 200.7	Iron	mg/L	9.90	10.2	10.0	3.0	20	99.0	X443064 - X4J0309-01	
EPA 200.7	Lead	mg/L	0.932	0.973	1.00	4.3	20	93.2	X443064 - X4J0309-01	
EPA 200.7	Lithium	mg/L	0.985	1.01	1.00	2.4	20	98.5	X443064 - X4J0309-01	
EPA 200.7	Magnesium	mg/L	37.9	38.6	20.0	1.8	20	102	X443064 - X4J0309-01	
EPA 200.7	Manganese	mg/L	1.21	1.24	1.00	2.3	20	94.5	X443064 - X4J0309-01	
EPA 200.7	Molybdenum	mg/L	0.979	1.03	1.00	4.8	20	95.5	X443064 - X4J0309-01	
EPA 200.7	Nickel	mg/L	0.883	0.929	1.00	5.1	20	88.3	X443064 - X4J0309-01	
EPA 200.7	Potassium	mg/L	21.5	21.9	20.0	2.0	20	97.0	X443064 - X4J0309-01	
EPA 200.7	Silver	mg/L	0.0504	0.0531	0.0500	5.1	20	101	X443064 - X4J0309-01	
EPA 200.7	Sodium	mg/L	53.4	54.4	19.0	1.9	20	96.5	X443064 - X4J0309-01	
EPA 200.7	Vanadium	mg/L	0.966	0.995	1.00	2.9	20	96.6	X443064 - X4J0309-01	
EPA 200.7	Zinc	mg/L	0.929	0.970	1.00	4.3	20	92.9	X443064 - X4J0309-01	
EPA 200.8	Antimony	mg/L	0.0260	0.0265	0.0250	2.1	20	104	X443171 - X4J0309-02	
EPA 200.8	Arsenic	mg/L	0.0292	0.0277	0.0250	5.3	20	116	X443171 - X4J0309-02	
EPA 200.8	Selenium	mg/L	0.0312	0.0294	0.0250	6.0	20	120	X443171 - X4J0309-02	
EPA 200.8	Thallium	mg/L	0.0270	0.0245	0.0250	9.7	20	108	X443171 - X4J0309-02	
EPA 200.8	Uranium	mg/L	0.0337	0.0291	0.0250	14.4	20	123	X443171 - X4J0309-02	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00212	0.00206	0.00200	3.0	20	106	X442129 - X4J0280-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.109	0.0930	0.100	15.8	11	109	X443192 - X4J0309-01	R4
EPA 335.4	Cyanide (total)	mg/L	0.0994	0.100	0.100	1.0	20	95.5	X443007 - X4J0238-01	
EPA 350.1	Ammonia as N	mg/L	1.04	1.03	1.00	0.8	20	104	X443069 - X4J0309-01	
OIA 1677	Cyanide (WAD)	mg/L	0.105	0.104	0.100	1.0	11	104	X442185 - X4J0214-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.6	10.6	3.00	0.3	20	105	X442113 - X4J0326-01	
EPA 300.0	Fluoride	mg/L	2.16	2.18	2.00	0.6	20	99.7	X442113 - X4J0326-01	
EPA 300.0	Nitrate as N	mg/L	2.37	2.37	2.00	0.0	20	103	X442113 - X4J0326-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.47	4.47	4.00	0.0	20	99.4	X442113 - X4J0326-01	
EPA 300.0	Nitrite as N	mg/L	2.10	2.09	2.00	0.1	20	105	X442113 - X4J0326-01	

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: **X4J0309**
Reported: 30-Oct-24 15:49

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	32.8	32.7	10.0	0.1	20	99.5	X442113 - X4J0326-01	

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4J0309**
Victor, CO 80860	Reported: 30-Oct-24 15:49

Notes and Definitions

D17	Due to an internal standard failure at a lower dilution, 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.
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.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
T5	Laboratory not licensed for this parameter.
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: **X4J0310**
Victor, CO 80860	Reported: 30-Oct-24 16:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-137F	X4J0310-01	Ground Water	15-Oct-24 08:30	TR	16-Oct-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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0310

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: **X4J0310**
Reported: 30-Oct-24 16:00

Client Sample ID: **GVMW-137F**
SVL Sample ID: **X4J0310-01 (Ground Water)**

Sampled: 15-Oct-24 08:30
Received: 16-Oct-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**	83.8	mg/L	0.100	0.069		X442139	SJN	10/22/24 13:07	
EPA 200.7	**Magnesium**	17.6	mg/L	0.500	0.090		X442139	SJN	10/22/24 13:07	
EPA 200.7	**Potassium**	2.08	mg/L	0.50	0.18		X442139	SJN	10/22/24 13:07	
SM 2340 B	**Hardness (as CaCO3)**	282	mg/L	2.31	0.543		N/A		10/24/24 11:08	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X443015	NMS	10/24/24 11:08	
EPA 200.7	**Barium**	0.116	mg/L	0.0020	0.0019		X443015	NMS	10/24/24 11:08	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X443015	NMS	10/24/24 11:08	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X443015	NMS	10/24/24 11:08	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X443015	NMS	10/24/24 11:08	
EPA 200.7	**Calcium**	82.0	mg/L	0.100	0.069		X443015	NMS	10/24/24 11:08	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X443015	NMS	10/24/24 11:08	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X443015	NMS	10/24/24 11:08	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X443015	NMS	10/24/24 11:08	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X443015	NMS	10/24/24 11:08	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X443015	NMS	10/24/24 11:08	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X443015	NMS	10/24/24 11:08	
EPA 200.7	**Magnesium**	18.1	mg/L	0.500	0.090		X443015	NMS	10/24/24 11:08	
EPA 200.7	**Manganese**	0.270	mg/L	0.0080	0.0034		X443015	NMS	10/24/24 11:08	
EPA 200.7	**Molybdenum**	0.0230	mg/L	0.0080	0.0034		X443015	NMS	10/24/24 11:08	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X443015	NMS	10/24/24 11:08	
EPA 200.7	**Potassium**	2.06	mg/L	0.50	0.18		X443015	NMS	10/24/24 11:08	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X443015	NMS	10/24/24 11:08	
EPA 200.7	**Sodium**	34.9	mg/L	0.50	0.12		X443015	NMS	10/24/24 11:08	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X443015	NMS	10/24/24 11:08	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X443015	NMS	10/24/24 11:08	
EPA 200.8	**Antimony**	0.00154	mg/L	0.00100	0.00072		X443171	SMU	10/29/24 17:49	
EPA 200.8	**Arsenic**	0.00145	mg/L	0.00100	0.00021		X443171	SMU	10/29/24 16:08	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X443171	SMU	10/29/24 16:08	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X443171	SMU	10/29/24 16:08	
EPA 200.8	**Uranium**	0.00569	mg/L	0.000100	0.000052		X443171	SMU	10/29/24 16:08	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X442129	MAC	10/28/24 14:37	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X443192	DD	10/28/24 14:47	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X443007	JPM	10/22/24 14:45	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X443069	DD	10/24/24 11:17	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442185	DD	10/18/24 10:40	
SM 2310 B	**Acidity to pH 8.3**	-103	mg/L as CaCO3	10.0			X443190	MWD	10/25/24 09:11	
SM 2320 B	**Total Alkalinity**	103	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:50	
SM 2320 B	**Bicarbonate**	103	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:50	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:50	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X442151	MWD	10/21/24 13:50	
SM 2540 C	**Total Diss. Solids**	550	mg/L	10			X442120	TJL	10/18/24 15:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X442122	TJL	10/22/24 08:25	
SM 4500 H B	**pH @19.7°C**	8.1	pH Units				X442151	MWD	10/21/24 13:50	H5

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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: **X4J0310**
Reported: 30-Oct-24 16:00

Client Sample ID: **GVMW-137F**
SVL Sample ID: **X4J0310-01 (Ground Water)**

Sampled: 15-Oct-24 08:30
Received: 16-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	4.40	mg/L	0.20	0.02		X442113	RS	10/16/24 19:08	
EPA 300.0	**Fluoride**	1.39	mg/L	0.100	0.017		X442113	RS	10/16/24 19:08	
EPA 300.0	**Nitrate as N**	0.080	mg/L	0.050	0.013		X442113	RS	10/16/24 19:08	
EPA 300.0	**Nitrate+Nitrite as N**	0.114	mg/L	0.100	0.044		X442113	RS	10/16/24 19:08	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X442113	RS	10/16/24 19:08	
EPA 300.0	**Sulfate as SO4**	272	mg/L	3.00	1.80	10	X442113	RS	10/16/24 19:25	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 7.14 meq/L Anion Sum: 7.93 meq/L C/A Balance: -5.25 % Calculated TDS: 478 TDS/cTDS: 1.15

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

Kristi A. Groth

Kristi A. Groth
Sample Preparation Technician

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0310**
Reported: 30-Oct-24 16:00

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	X442139	22-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X442139	22-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X442139	22-Oct-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X443015	24-Oct-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X443015	24-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X443015	24-Oct-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X443015	24-Oct-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X443015	24-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X443015	24-Oct-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X443015	24-Oct-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X443015	24-Oct-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X443015	24-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X443015	24-Oct-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X443015	24-Oct-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X443015	24-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X443015	24-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X443015	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X443015	24-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X443015	24-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X443015	24-Oct-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X443015	24-Oct-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X443015	24-Oct-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X443015	24-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X443015	24-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X443171	29-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X443171	29-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X443171	29-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X443171	29-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X443171	29-Oct-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X442129	28-Oct-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X443192	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X443007	22-Oct-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X443069	24-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X442185	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X443190	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X442151	21-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X442151	21-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X442151	21-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X442151	21-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X442120	18-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X442122	22-Oct-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X442113	16-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X442113	16-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X442113	16-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X442113	16-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X442113	16-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X442113	16-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0310**
Reported: 30-Oct-24 16:00

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X442139	22-Oct-24	
EPA 200.7	Magnesium	mg/L	20.0	20.0	100	85 - 115	X442139	22-Oct-24	
EPA 200.7	Potassium	mg/L	20.1	20.0	101	85 - 115	X442139	22-Oct-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.946	1.00	94.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Barium	mg/L	0.963	1.00	96.3	85 - 115	X443015	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.957	1.00	95.7	85 - 115	X443015	24-Oct-24	
EPA 200.7	Boron	mg/L	0.931	1.00	93.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.931	1.00	93.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Calcium	mg/L	18.8	20.0	93.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Chromium	mg/L	0.976	1.00	97.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.909	1.00	90.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Copper	mg/L	0.952	1.00	95.2	85 - 115	X443015	24-Oct-24	
EPA 200.7	Iron	mg/L	9.59	10.0	95.9	85 - 115	X443015	24-Oct-24	
EPA 200.7	Lead	mg/L	0.927	1.00	92.7	85 - 115	X443015	24-Oct-24	
EPA 200.7	Lithium	mg/L	0.981	1.00	98.1	85 - 115	X443015	24-Oct-24	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.8	85 - 115	X443015	24-Oct-24	
EPA 200.7	Manganese	mg/L	0.960	1.00	96.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.935	1.00	93.5	85 - 115	X443015	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.920	1.00	92.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0468	0.0500	93.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Sodium	mg/L	17.9	19.0	94.0	85 - 115	X443015	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.966	1.00	96.6	85 - 115	X443015	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.919	1.00	91.9	85 - 115	X443015	24-Oct-24	
EPA 200.8	Antimony	mg/L	0.0241	0.0250	96.5	85 - 115	X443171	29-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0255	0.0250	102	85 - 115	X443171	29-Oct-24	
EPA 200.8	Selenium	mg/L	0.0285	0.0250	114	85 - 115	X443171	29-Oct-24	
EPA 200.8	Thallium	mg/L	0.0243	0.0250	97.3	85 - 115	X443171	29-Oct-24	
EPA 200.8	Uranium	mg/L	0.0235	0.0250	94.1	85 - 115	X443171	29-Oct-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00200	0.00200	99.9	85 - 115	X442129	28-Oct-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.104	0.100	104	90 - 110	X443192	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X443007	22-Oct-24	
EPA 350.1	Ammonia as N	mg/L	0.999	1.00	99.9	90 - 110	X443069	24-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0990	0.100	99.0	90 - 110	X442185	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	719	706	102	95.4 - 104	X443190	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X442151	21-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X442151	21-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X442122	22-Oct-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.14	3.00	105	90 - 110	X442113	16-Oct-24	
EPA 300.0	Fluoride	mg/L	2.08	2.00	104	90 - 110	X442113	16-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.10	2.00	105	90 - 110	X442113	16-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.72	4.50	105	90 - 110	X442113	16-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.63	2.50	105	90 - 110	X442113	16-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.6	10.0	106	90 - 110	X442113	16-Oct-24	

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0310**
Reported: 30-Oct-24 16:00

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	X443190 - X4J0280-01	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	103	103	0.0	20	X442151 - X4J0309-01	21-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	103	103	0.0	20	X442151 - X4J0309-01	21-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442151 - X4J0309-01	21-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X442151 - X4J0309-01	21-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	306	302	1.3	10	X442120 - X4J0309-02	18-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	343	324	5.7	10	X442120 - X4J0325-02	18-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	18.0	18.0	0.0	10	X442122 - X4J0309-02	22-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X442122 - X4J0325-02	22-Oct-24	
SM 4500 H B	pH @19.7°C	pH Units	8.1	8.1	0.1	20	X442151 - X4J0309-01	21-Oct-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	104	84.9	20.0	95	70 - 130	X442139 - X4J0309-01	22-Oct-24	
EPA 200.7	Calcium	mg/L	511	507	20.0	0.30R>S	70 - 130	X442139 - X4J0280-01	22-Oct-24	M4
EPA 200.7	Magnesium	mg/L	157	139	20.0	87.6	70 - 130	X442139 - X4J0280-01	22-Oct-24	
EPA 200.7	Magnesium	mg/L	38.2	17.8	20.0	102	70 - 130	X442139 - X4J0309-01	22-Oct-24	
EPA 200.7	Potassium	mg/L	23.5	2.69	20.0	104	70 - 130	X442139 - X4J0280-01	22-Oct-24	
EPA 200.7	Potassium	mg/L	22.3	2.15	20.0	101	70 - 130	X442139 - X4J0309-01	22-Oct-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.993	<0.080	1.00	99.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Aluminum	mg/L	0.983	<0.080	1.00	98.3	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Barium	mg/L	1.04	0.0411	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Barium	mg/L	1.02	0.0249	1.00	99.8	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.989	<0.00200	1.00	98.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Beryllium	mg/L	0.987	<0.00200	1.00	98.7	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Boron	mg/L	0.999	<0.0400	1.00	97.4	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Boron	mg/L	1.03	0.0542	1.00	97.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.977	<0.0020	1.00	97.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Cadmium	mg/L	0.989	<0.0020	1.00	98.9	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Calcium	mg/L	60.0	40.7	20.0	96.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Calcium	mg/L	210	188	20.0	110	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Chromium	mg/L	0.998	<0.0060	1.00	99.8	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.938	<0.0060	1.00	93.8	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Cobalt	mg/L	0.935	<0.0060	1.00	93.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Copper	mg/L	0.977	<0.0100	1.00	97.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Copper	mg/L	0.980	<0.0100	1.00	98.0	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Iron	mg/L	10.8	0.947	10.0	98.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Iron	mg/L	9.81	<0.100	10.0	98.1	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Lead	mg/L	0.949	<0.0075	1.00	94.9	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Lead	mg/L	0.942	<0.0075	1.00	94.2	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Lithium	mg/L	1.02	<0.040	1.00	102	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	102	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Magnesium	mg/L	30.7	10.8	20.0	99.1	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Magnesium	mg/L	37.2	17.3	20.0	99.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0310**
Reported: 30-Oct-24 16:00

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	1.19	0.193	1.00	100	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Manganese	mg/L	1.12	0.123	1.00	99.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.971	0.0167	1.00	95.4	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.979	<0.0080	1.00	97.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.963	<0.0100	1.00	96.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Nickel	mg/L	0.936	<0.0100	1.00	93.6	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Potassium	mg/L	22.4	2.16	20.0	101	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Potassium	mg/L	24.0	3.46	20.0	102	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0463	<0.0050	0.0500	92.6	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.5	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Sodium	mg/L	34.0	15.4	19.0	98.1	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Sodium	mg/L	63.4	44.3	19.0	101	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.993	<0.0050	1.00	99.3	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Vanadium	mg/L	0.999	<0.0050	1.00	99.9	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.957	<0.0100	1.00	95.7	70 - 130	X443015 - X4J0181-01	24-Oct-24	
EPA 200.7	Zinc	mg/L	0.957	<0.0100	1.00	95.0	70 - 130	X443015 - X4J0350-02	24-Oct-24	
EPA 200.8	Antimony	mg/L	0.0265	<0.00100	0.0250	106	70 - 130	X443171 - X4J0309-02	29-Oct-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.00200	0.0250	103	70 - 130	X443171 - X4J0323-03	29-Oct-24	D17
EPA 200.8	Arsenic	mg/L	0.0277	<0.00100	0.0250	109	70 - 130	X443171 - X4J0309-02	29-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0279	0.00230	0.0250	102	70 - 130	X443171 - X4J0323-03	29-Oct-24	D17
EPA 200.8	Selenium	mg/L	0.0294	0.00124	0.0250	112	70 - 130	X443171 - X4J0309-02	29-Oct-24	
EPA 200.8	Selenium	mg/L	0.0231	<0.00200	0.0250	92.3	70 - 130	X443171 - X4J0323-03	29-Oct-24	D17
EPA 200.8	Thallium	mg/L	0.0245	<0.000200	0.0250	97.7	70 - 130	X443171 - X4J0309-02	29-Oct-24	
EPA 200.8	Thallium	mg/L	0.0242	<0.000400	0.0250	96.8	70 - 130	X443171 - X4J0323-03	29-Oct-24	D17
EPA 200.8	Uranium	mg/L	0.0291	0.00293	0.0250	105	70 - 130	X443171 - X4J0309-02	29-Oct-24	
EPA 200.8	Uranium	mg/L	0.0278	0.00183	0.0250	104	70 - 130	X443171 - X4J0323-03	29-Oct-24	D17
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00206	<0.000200	0.00200	103	70 - 130	X442129 - X4J0280-01	28-Oct-24	
EPA 245.1	Mercury	mg/L	0.00213	<0.000200	0.00200	107	70 - 130	X442129 - X4J0309-02	28-Oct-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0930	<0.0050	0.100	93.0	79 - 121	X443192 - X4J0309-01	28-Oct-24	R4
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	96.5	90 - 110	X443007 - X4J0238-01	22-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.0247	<0.0050	0.100	20.5	90 - 110	X443007 - X4J0233-01	22-Oct-24	M2
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X443069 - X4J0309-01	24-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.02	<0.030	1.00	102	90 - 110	X443069 - X4J0309-02	24-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	<0.0050	0.100	103	82 - 118	X442185 - X4J0214-01	18-Oct-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.6	7.45	3.00	104	90 - 110	X442113 - X4J0326-01	16-Oct-24	
EPA 300.0	Chloride	mg/L	5.04	1.90	3.00	105	90 - 110	X442113 - X4J0330-01	16-Oct-24	
EPA 300.0	Fluoride	mg/L	2.18	0.170	2.00	100	90 - 110	X442113 - X4J0326-01	16-Oct-24	
EPA 300.0	Fluoride	mg/L	2.25	0.150	2.00	105	90 - 110	X442113 - X4J0330-01	16-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.37	0.311	2.00	103	90 - 110	X442113 - X4J0326-01	16-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X442113 - X4J0330-01	16-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.47	0.493	4.00	99.4	90 - 110	X442113 - X4J0326-01	16-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.17	<0.100	4.00	104	90 - 110	X442113 - X4J0330-01	16-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	105	90 - 110	X442113 - X4J0326-01	16-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.11	<0.050	2.00	105	90 - 110	X442113 - X4J0330-01	16-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	32.7	22.8	10.0	99.2	90 - 110	X442113 - X4J0326-01	16-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0310**
Reported: 30-Oct-24 16:00

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	14.4	4.12	10.0	103	90 - 110	X442113 - X4J0330-01	16-Oct-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	516	511	20.0	1.0	20	0.30R>S	X442139 - X4J0280-01	M4
EPA 200.7	Magnesium	mg/L	157	157	20.0	0.6	20	92.3	X442139 - X4J0280-01	
EPA 200.7	Potassium	mg/L	23.9	23.5	20.0	1.7	20	106	X442139 - X4J0280-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.00	0.993	1.00	0.9	20	100	X443015 - X4J0181-01	
EPA 200.7	Barium	mg/L	1.05	1.04	1.00	1.2	20	101	X443015 - X4J0181-01	
EPA 200.7	Beryllium	mg/L	1.00	0.989	1.00	1.3	20	100	X443015 - X4J0181-01	
EPA 200.7	Boron	mg/L	1.02	0.999	1.00	2.5	20	99.9	X443015 - X4J0181-01	
EPA 200.7	Cadmium	mg/L	1.01	0.977	1.00	3.1	20	101	X443015 - X4J0181-01	
EPA 200.7	Calcium	mg/L	60.1	60.0	20.0	0.1	20	96.7	X443015 - X4J0181-01	
EPA 200.7	Chromium	mg/L	1.02	1.00	1.00	1.2	20	102	X443015 - X4J0181-01	
EPA 200.7	Cobalt	mg/L	0.966	0.938	1.00	3.0	20	96.6	X443015 - X4J0181-01	
EPA 200.7	Copper	mg/L	1.00	0.977	1.00	2.5	20	100	X443015 - X4J0181-01	
EPA 200.7	Iron	mg/L	10.8	10.8	10.0	0.1	20	98.8	X443015 - X4J0181-01	
EPA 200.7	Lead	mg/L	0.973	0.949	1.00	2.5	20	97.3	X443015 - X4J0181-01	
EPA 200.7	Lithium	mg/L	1.02	1.02	1.00	0.0	20	102	X443015 - X4J0181-01	
EPA 200.7	Magnesium	mg/L	30.8	30.7	20.0	0.4	20	99.7	X443015 - X4J0181-01	
EPA 200.7	Manganese	mg/L	1.20	1.19	1.00	0.3	20	100	X443015 - X4J0181-01	
EPA 200.7	Molybdenum	mg/L	0.995	0.971	1.00	2.4	20	97.8	X443015 - X4J0181-01	
EPA 200.7	Nickel	mg/L	0.964	0.963	1.00	0.2	20	96.4	X443015 - X4J0181-01	
EPA 200.7	Potassium	mg/L	22.4	22.4	20.0	0.4	20	101	X443015 - X4J0181-01	
EPA 200.7	Silver	mg/L	0.0473	0.0463	0.0500	2.1	20	94.6	X443015 - X4J0181-01	
EPA 200.7	Sodium	mg/L	33.9	34.0	19.0	0.4	20	97.4	X443015 - X4J0181-01	
EPA 200.7	Vanadium	mg/L	1.01	0.993	1.00	1.9	20	101	X443015 - X4J0181-01	
EPA 200.7	Zinc	mg/L	0.985	0.957	1.00	2.9	20	98.5	X443015 - X4J0181-01	
EPA 200.8	Antimony	mg/L	0.0260	0.0265	0.0250	2.1	20	104	X443171 - X4J0309-02	
EPA 200.8	Arsenic	mg/L	0.0292	0.0277	0.0250	5.3	20	116	X443171 - X4J0309-02	
EPA 200.8	Selenium	mg/L	0.0312	0.0294	0.0250	6.0	20	120	X443171 - X4J0309-02	
EPA 200.8	Thallium	mg/L	0.0270	0.0245	0.0250	9.7	20	108	X443171 - X4J0309-02	
EPA 200.8	Uranium	mg/L	0.0337	0.0291	0.0250	14.4	20	123	X443171 - X4J0309-02	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00212	0.00206	0.00200	3.0	20	106	X442129 - X4J0280-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.109	0.0930	0.100	15.8	11	109	X443192 - X4J0309-01	R4
EPA 335.4	Cyanide (total)	mg/L	0.0994	0.100	0.100	1.0	20	95.5	X443007 - X4J0238-01	
EPA 350.1	Ammonia as N	mg/L	1.04	1.03	1.00	0.8	20	104	X443069 - X4J0309-01	
OIA 1677	Cyanide (WAD)	mg/L	0.105	0.104	0.100	1.0	11	104	X442185 - X4J0214-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.6	10.6	3.00	0.3	20	105	X442113 - X4J0326-01	
EPA 300.0	Fluoride	mg/L	2.16	2.18	2.00	0.6	20	99.7	X442113 - X4J0326-01	
EPA 300.0	Nitrate as N	mg/L	2.37	2.37	2.00	0.0	20	103	X442113 - X4J0326-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.47	4.47	4.00	0.0	20	99.4	X442113 - X4J0326-01	
EPA 300.0	Nitrite as N	mg/L	2.10	2.09	2.00	0.1	20	105	X442113 - X4J0326-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0310**
Reported: 30-Oct-24 16:00

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	32.8	32.7	10.0	0.1	20	99.5	X442113 - X4J0326-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4J0310**
Victor, CO 80860	Reported: 30-Oct-24 16:00

Notes and Definitions

D17	Due to an internal standard failure at a lower dilution, 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.
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.
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: **X4J0343**
Victor, CO 80860	Reported: 01-Nov-24 09:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-30	X4J0343-01	Ground Water	16-Oct-24 11:35	JC	17-Oct-2024	Q5
GVMW-33	X4J0343-02	Ground Water	16-Oct-24 11:08	JC	17-Oct-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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0343

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: **X4J0343**
Reported: 01-Nov-24 09:29

Client Sample ID: **GVMW-30**
SVL Sample ID: **X4J0343-01 (Ground Water)**

Sampled: 16-Oct-24 11:35
Received: 17-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	466	mg/L	1.00	0.690	10	X443083	SJN	10/23/24 15:58	D14
EPA 200.7	**Magnesium**	349	mg/L	5.00	0.900	10	X443083	SJN	10/23/24 15:58	D14
EPA 200.7	**Potassium**	10.3	mg/L	5.00	1.80	10	X443083	SJN	10/23/24 15:58	D14
SM 2340 B	**Hardness (as CaCO3)**	2600	mg/L	23.1	5.43		N/A		10/29/24 09:43	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	341	mg/L	0.080	0.054		X444052	NMS	10/29/24 09:43	M3
EPA 200.7	**Barium**	0.0196	mg/L	0.0020	0.0019		X444052	NMS	10/29/24 09:43	
EPA 200.7	**Beryllium**	0.601	mg/L	0.00200	0.00080		X444052	NMS	10/29/24 09:43	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X444052	NMS	10/29/24 09:43	
EPA 200.7	**Cadmium**	0.249	mg/L	0.0020	0.0016		X444052	NMS	10/29/24 09:43	
EPA 200.7	**Calcium**	460	mg/L	0.100	0.069		X444052	NMS	10/29/24 09:43	M3
EPA 200.7	**Chromium**	0.123	mg/L	0.0060	0.0020		X444052	NMS	10/29/24 09:43	
EPA 200.7	**Cobalt**	0.358	mg/L	0.0060	0.0046		X444052	NMS	10/29/24 09:43	
EPA 200.7	**Copper**	0.230	mg/L	0.0100	0.0027		X444052	NMS	10/29/24 09:43	
EPA 200.7	**Iron**	4.06	mg/L	0.100	0.056		X444052	NMS	10/29/24 09:43	
EPA 200.7	**Lead**	0.0319	mg/L	0.0075	0.0049		X444052	NMS	10/29/24 09:43	
EPA 200.7	**Lithium**	0.233	mg/L	0.040	0.025		X444052	NMS	10/29/24 09:43	
EPA 200.7	**Magnesium**	373	mg/L	0.500	0.090		X444052	NMS	10/29/24 09:43	
EPA 200.7	**Manganese**	59.4	mg/L	0.0080	0.0034		X444052	NMS	10/29/24 09:43	M3
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X444052	NMS	10/29/24 09:43	
EPA 200.7	**Nickel**	1.48	mg/L	0.0100	0.0048		X444052	NMS	10/29/24 09:43	
EPA 200.7	**Potassium**	7.52	mg/L	0.50	0.18		X444052	NMS	10/29/24 09:43	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X444052	NMS	10/29/24 09:43	
EPA 200.7	**Sodium**	47.2	mg/L	0.50	0.12		X444052	NMS	10/29/24 09:43	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X444052	NMS	10/29/24 09:43	
EPA 200.7	**Zinc**	5.53	mg/L	0.0100	0.0054		X444052	NMS	10/29/24 09:43	
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X444021	SMU	10/31/24 13:13	D17
EPA 200.8	**Arsenic**	0.0702	mg/L	0.00500	0.00105	5	X444021	SMU	10/31/24 12:21	D17
EPA 200.8	**Selenium**	0.00569	mg/L	0.00500	0.00120	5	X444021	SMU	10/31/24 12:21	D17
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X444021	SMU	10/31/24 12:21	D17
EPA 200.8	**Uranium**	0.908	mg/L	0.000500	0.000260	5	X444021	SMU	10/31/24 12:21	D17
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X443038	MAC	10/28/24 17:14	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X443192	DD	10/28/24 14:49	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X444013	JPM	10/29/24 10:46	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X443071	JPM	10/24/24 12:29	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X442185	DD	10/18/24 10:41	
SM 2310 B	**Acidity to pH 8.3**	2150	mg/L as CaCO3	10.0			X443190	MWD	10/25/24 09:11	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 10:18	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 10:18	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 10:18	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 10:18	
SM 2540 C	**Total Diss. Solids**	1540	mg/L	10			X443001	TJL	10/23/24 14:40	
SM 2540 D	**Total Susp. Solids**	461	mg/L	5.0			X443002	TJL	10/24/24 13:20	
SM 4500 H B	**pH @18.1°C**	3.5	pH Units				X443115	MWD	10/23/24 10:18	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: **X4J0343**
Reported: 01-Nov-24 09:29

Client Sample ID: **GVMW-30**
SVL Sample ID: **X4J0343-01 (Ground Water)**

Sampled: 16-Oct-24 11:35
Received: 17-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	3.15	mg/L	1.00	0.11	5	X442172	RS	10/17/24 15:35	D18
EPA 300.0	**Fluoride**	52.3	mg/L	10.0	1.70	100	X442172	RS	10/17/24 15:54	
EPA 300.0	**Nitrate as N**	1.46	mg/L	0.250	0.065	5	X442172	RS	10/17/24 15:35	D18
EPA 300.0	**Nitrate+Nitrite as N**	1.46	mg/L	0.500	0.220	5	X442172	RS	10/17/24 15:35	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X442172	RS	10/17/24 15:35	D18
EPA 300.0	**Sulfate as SO4**	4670	mg/L	30.0	18.0	100	X442172	RS	10/17/24 15:54	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 96.9 meq/L Anion Sum: 100 meq/L C/A Balance: -1.66 % Calculated TDS: 5612 TDS/cTDS: 0.27

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

Kristi A. Groth

Kristi A. Groth
Sample Preparation Technician

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0343**
Reported: 01-Nov-24 09:29

Client Sample ID: **GVMW-33**
SVL Sample ID: **X4J0343-02 (Ground Water)**

Sampled: 16-Oct-24 11:08
Received: 17-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Calcium**	485	mg/L	1.00	0.690	10	X443083	SJN	10/23/24 17:30	D18
EPA 200.7	**Magnesium**	422	mg/L	5.00	0.900	10	X443083	SJN	10/23/24 17:30	D18
EPA 200.7	**Potassium**	14.5	mg/L	5.00	1.80	10	X443083	SJN	10/23/24 17:30	D18
SM 2340 B	**Hardness (as CaCO3)**	2950	mg/L	23.1	5.43		N/A		10/29/24 09:47	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	946	mg/L	0.800	0.540	10	X444052	NMS	10/29/24 12:34	
EPA 200.7	**Barium**	0.0261	mg/L	0.0020	0.0019		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Beryllium**	0.918	mg/L	0.00200	0.00080		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Boron**	0.0519	mg/L	0.0400	0.0078		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Cadmium**	2.00	mg/L	0.0020	0.0016		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Calcium**	485	mg/L	0.100	0.069		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Chromium**	0.0192	mg/L	0.0060	0.0020		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Cobalt**	1.75	mg/L	0.0060	0.0046		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Copper**	3.31	mg/L	0.0100	0.0027		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Iron**	39.9	mg/L	0.100	0.056		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Lead**	0.0900	mg/L	0.0075	0.0049		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Lithium**	0.259	mg/L	0.040	0.025		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Magnesium**	474	mg/L	0.500	0.090		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Manganese**	328	mg/L	0.0800	0.0340	10	X444052	NMS	10/29/24 12:34	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Nickel**	2.75	mg/L	0.0100	0.0048		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Potassium**	14.9	mg/L	0.50	0.18		X444052	NMS	10/29/24 09:47	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Sodium**	201	mg/L	0.50	0.12		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Vanadium**	0.0269	mg/L	0.0050	0.0019		X444052	NMS	10/29/24 09:47	
EPA 200.7	**Zinc**	46.5	mg/L	0.100	0.0540	10	X444052	NMS	10/29/24 12:34	
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X444021	SMU	10/31/24 13:15	D17
EPA 200.8	**Arsenic**	0.481	mg/L	0.00500	0.00105	5	X444021	SMU	10/31/24 12:24	D17
EPA 200.8	**Selenium**	0.0381	mg/L	0.00500	0.00120	5	X444021	SMU	10/31/24 12:24	D17
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X444021	SMU	10/31/24 12:24	D17
EPA 200.8	**Uranium**	3.95	mg/L	0.000500	0.000260	5	X444021	SMU	10/31/24 12:24	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X443038	MAC	10/28/24 17:16	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X443192	DD	10/28/24 14:51	
EPA 335.4	**Cyanide (total)**	0.0055	mg/L	0.0050	0.0038		X444013	JPM	10/29/24 10:48	
EPA 350.1	**Ammonia as N**	0.777	mg/L	0.030	0.013		X443071	JPM	10/24/24 12:30	
OIA 1677	Cyanide (WAD)	< 0.0250	mg/L	0.0250	0.0050	5	X442185	DD	10/18/24 10:43	D13,Q12
SM 2310 B	**Acidity to pH 8.3**	6360	mg/L as CaCO3	10.0			X443190	MWD	10/25/24 09:11	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 10:26	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 10:26	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 10:26	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 10:26	
SM 2540 C	**Total Diss. Solids**	1300	mg/L	10			X443001	TJL	10/23/24 14:40	
SM 2540 D	**Total Susp. Solids**	101	mg/L	5.0			X443002	TJL	10/24/24 13:20	
SM 4500 H B	**pH @19.0°C**	3.4	pH Units				X443115	MWD	10/23/24 10:26	H5

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0343**
Reported: 01-Nov-24 09:29

Client Sample ID: **GVMW-33**
SVL Sample ID: **X4J0343-02 (Ground Water)**

Sampled: 16-Oct-24 11:08
Received: 17-Oct-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	6.87	mg/L	2.00	0.22	10	X442172	RS	10/17/24 16:12	D18
EPA 300.0	**Fluoride**	108	mg/L	25.0	4.25	250	X442172	RS	10/17/24 17:08	
EPA 300.0	**Nitrate as N**	4.77	mg/L	0.500	0.130	10	X442172	RS	10/17/24 16:12	D18
EPA 300.0	**Nitrate+Nitrite as N**	4.77	mg/L	1.00	0.440	10	X442172	RS	10/17/24 16:12	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X442172	RS	10/17/24 16:12	D18
EPA 300.0	**Sulfate as SO4**	9800	mg/L	75.0	45.0	250	X442172	RS	10/17/24 17:08	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 195 meq/L Anion Sum: 210 meq/L C/A Balance: -3.71 % Calculated TDS: 11085 TDS/cTDS: 0.12

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

Kristi A. Groth

Kristi A. Groth
Sample Preparation Technician

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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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: **X4J0343**
Reported: 01-Nov-24 09:29

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	X443083	23-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X443083	23-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X443083	23-Oct-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X444052	29-Oct-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X444052	29-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X444052	29-Oct-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X444052	29-Oct-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X444052	29-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X444052	29-Oct-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X444052	29-Oct-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X444052	29-Oct-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X444052	29-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X444052	29-Oct-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X444052	29-Oct-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X444052	29-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X444052	29-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X444052	29-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X444052	29-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X444052	29-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X444052	29-Oct-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X444052	29-Oct-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X444052	29-Oct-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X444052	29-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X444052	29-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X444021	31-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X444021	31-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X444021	31-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X444021	31-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X444021	31-Oct-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X443038	28-Oct-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X443192	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X444013	29-Oct-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X443071	24-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X442185	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X443190	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X443115	23-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X443115	23-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X443115	23-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X443115	23-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X443001	23-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X443002	24-Oct-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X442172	23-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X442172	23-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X442172	23-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X442172	23-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X442172	23-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X442172	23-Oct-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: **X4J0343**
Reported: 01-Nov-24 09:29

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	X443083	23-Oct-24	
EPA 200.7	Magnesium	mg/L	19.6	20.0	98.0	85 - 115	X443083	23-Oct-24	
EPA 200.7	Potassium	mg/L	20.0	20.0	100	85 - 115	X443083	23-Oct-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.03	1.00	103	85 - 115	X444052	29-Oct-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X444052	29-Oct-24	
EPA 200.7	Beryllium	mg/L	1.00	1.00	100	85 - 115	X444052	29-Oct-24	
EPA 200.7	Boron	mg/L	0.973	1.00	97.3	85 - 115	X444052	29-Oct-24	
EPA 200.7	Cadmium	mg/L	0.987	1.00	98.7	85 - 115	X444052	29-Oct-24	
EPA 200.7	Calcium	mg/L	19.9	20.0	99.3	85 - 115	X444052	29-Oct-24	
EPA 200.7	Chromium	mg/L	0.992	1.00	99.2	85 - 115	X444052	29-Oct-24	
EPA 200.7	Cobalt	mg/L	0.966	1.00	96.6	85 - 115	X444052	29-Oct-24	
EPA 200.7	Copper	mg/L	0.965	1.00	96.5	85 - 115	X444052	29-Oct-24	
EPA 200.7	Iron	mg/L	10.3	10.0	103	85 - 115	X444052	29-Oct-24	
EPA 200.7	Lead	mg/L	0.987	1.00	98.7	85 - 115	X444052	29-Oct-24	
EPA 200.7	Lithium	mg/L	0.957	1.00	95.7	85 - 115	X444052	29-Oct-24	
EPA 200.7	Magnesium	mg/L	19.6	20.0	98.2	85 - 115	X444052	29-Oct-24	
EPA 200.7	Manganese	mg/L	0.995	1.00	99.5	85 - 115	X444052	29-Oct-24	
EPA 200.7	Molybdenum	mg/L	1.01	1.00	101	85 - 115	X444052	29-Oct-24	
EPA 200.7	Nickel	mg/L	0.962	1.00	96.2	85 - 115	X444052	29-Oct-24	
EPA 200.7	Potassium	mg/L	20.1	20.0	100	85 - 115	X444052	29-Oct-24	
EPA 200.7	Silver	mg/L	0.0501	0.0500	100	85 - 115	X444052	29-Oct-24	
EPA 200.7	Sodium	mg/L	19.0	19.0	99.9	85 - 115	X444052	29-Oct-24	
EPA 200.7	Vanadium	mg/L	1.00	1.00	100	85 - 115	X444052	29-Oct-24	
EPA 200.7	Zinc	mg/L	0.962	1.00	96.2	85 - 115	X444052	29-Oct-24	
EPA 200.8	Antimony	mg/L	0.0262	0.0250	105	85 - 115	X444021	31-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0216	0.0250	86.2	85 - 115	X444021	31-Oct-24	
EPA 200.8	Selenium	mg/L	0.0218	0.0250	87.1	85 - 115	X444021	31-Oct-24	
EPA 200.8	Thallium	mg/L	0.0240	0.0250	95.8	85 - 115	X444021	31-Oct-24	
EPA 200.8	Uranium	mg/L	0.0263	0.0250	105	85 - 115	X444021	31-Oct-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00172	0.00200	86.1	85 - 115	X443038	28-Oct-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.104	0.100	104	90 - 110	X443192	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.0981	0.100	98.1	90 - 110	X444013	29-Oct-24	
EPA 350.1	Ammonia as N	mg/L	0.981	1.00	98.1	90 - 110	X443071	24-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0990	0.100	99.0	90 - 110	X442185	18-Oct-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	719	706	102	95.4 - 104	X443190	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X443115	23-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X443115	23-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	412	397	104	96.4 - 105	X443115	23-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X443002	24-Oct-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.98	3.00	99.3	90 - 110	X442172	17-Oct-24	
EPA 300.0	Fluoride	mg/L	1.98	2.00	99.0	90 - 110	X442172	17-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.04	2.00	102	90 - 110	X442172	17-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X442172	17-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.53	2.50	101	90 - 110	X442172	17-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X442172	17-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0343**
Reported: 01-Nov-24 09:29

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	X443190 - X4J0280-01	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	121	121	0.2	20	X443115 - X4J0350-01	23-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	121	121	0.2	20	X443115 - X4J0350-01	23-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X443115 - X4J0350-01	23-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X443115 - X4J0350-01	23-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	158	112	34.1	10	X443001 - X4J0346-04	23-Oct-24	R2B
SM 2540 C	Total Diss. Solids	mg/L	337	334	0.9	10	X443001 - X4J0346-05	23-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	102	101	1.0	10	X443002 - X4J0343-02	24-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	42.0	41.0	2.4	10	X443002 - X4J0346-05	24-Oct-24	
SM 4500 H B	pH @18.6°C	pH Units	8.3	8.3	0.4	20	X443115 - X4J0350-01	23-Oct-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	56.3	35.9	20.0	102	70 - 130	X443083 - X4J0350-01	23-Oct-24	
EPA 200.7	Calcium	mg/L	27.0	7.34	20.0	98	70 - 130	X443083 - X4J0358-04	23-Oct-24	
EPA 200.7	Magnesium	mg/L	28.8	8.31	20.0	102	70 - 130	X443083 - X4J0350-01	23-Oct-24	
EPA 200.7	Magnesium	mg/L	20.7	0.628	20.0	100	70 - 130	X443083 - X4J0358-04	23-Oct-24	
EPA 200.7	Potassium	mg/L	22.7	2.36	20.0	102	70 - 130	X443083 - X4J0350-01	23-Oct-24	
EPA 200.7	Potassium	mg/L	20.6	<0.50	20.0	103	70 - 130	X443083 - X4J0358-04	23-Oct-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	348	341	1.00	0.30R>S	70 - 130	X444052 - X4J0343-01	29-Oct-24	M3
EPA 200.7	Aluminum	mg/L	5520	5460	1.00	0.30R>S	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18,M4
EPA 200.7	Barium	mg/L	0.990	0.0196	1.00	97.0	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Barium	mg/L	0.930	<0.0400	1.00	93.0	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Beryllium	mg/L	1.54	0.601	1.00	93.9	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Beryllium	mg/L	1.59	0.624	1.00	96.1	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	98.3	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Boron	mg/L	1.08	<0.800	1.00	108	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Cadmium	mg/L	1.17	0.249	1.00	91.9	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Cadmium	mg/L	12.8	11.6	1.00	114	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Calcium	mg/L	494	460	20.0	0.30R>S	70 - 130	X444052 - X4J0343-01	29-Oct-24	M3
EPA 200.7	Calcium	mg/L	497	476	20.0	107	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Chromium	mg/L	1.04	0.123	1.00	91.9	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Chromium	mg/L	1.01	<0.120	1.00	89.9	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Cobalt	mg/L	1.25	0.358	1.00	89.3	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Cobalt	mg/L	23.5	22.2	1.00	128	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Copper	mg/L	1.26	0.230	1.00	103	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Copper	mg/L	152	151	1.00	0.30R>S	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18,M4
EPA 200.7	Iron	mg/L	14.0	4.06	10.0	99.1	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Iron	mg/L	1500	1480	10.0	0.30R>S	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18,M4
EPA 200.7	Lead	mg/L	0.948	0.0319	1.00	91.6	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Lead	mg/L	0.861	<0.150	1.00	86.1	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Lithium	mg/L	1.45	0.233	1.00	121	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Lithium	mg/L	4.32	3.31	1.00	101	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Magnesium	mg/L	395	373	20.0	112	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Magnesium	mg/L	2970	2890	20.0	0.30R>S	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18,M4

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0343**
Reported: 01-Nov-24 09:29

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	61.8	59.4	1.00	0.30R>S	70 - 130	X444052 - X4J0343-01	29-Oct-24	M3
EPA 200.7	Manganese	mg/L	1500	1480	1.00	0.30R>S	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18,M4
EPA 200.7	Molybdenum	mg/L	0.927	<0.0080	1.00	92.7	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.825	<0.160	1.00	82.5	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Nickel	mg/L	2.39	1.48	1.00	90.7	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Nickel	mg/L	6.82	5.81	1.00	101	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Potassium	mg/L	27.9	7.52	20.0	102	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Potassium	mg/L	22.1	<10.0	20.0	110	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Silver	mg/L	0.0479	<0.0050	0.0500	95.8	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Silver	mg/L	<0.100	<0.100	0.0500	N/A	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18,M4
EPA 200.7	Sodium	mg/L	67.7	47.2	19.0	108	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Sodium	mg/L	37.9	20.0	19.0	94.5	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Vanadium	mg/L	0.954	<0.0050	1.00	95.4	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Vanadium	mg/L	1.26	0.343	1.00	91.6	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Zinc	mg/L	6.49	5.53	1.00	96.4	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Zinc	mg/L	1970	2050	1.00	0.30R>S	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18,M4
EPA 200.8	Antimony	mg/L	0.0279	<0.00100	0.0250	112	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Antimony	mg/L	0.0233	<0.00100	0.0250	93.1	70 - 130	X444021 - X4J0374-01	31-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0259	<0.00100	0.0250	101	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X444021 - X4J0374-01	31-Oct-24	
EPA 200.8	Selenium	mg/L	0.0275	<0.00100	0.0250	110	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Selenium	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X444021 - X4J0374-01	31-Oct-24	
EPA 200.8	Thallium	mg/L	0.0239	<0.000200	0.0250	95.6	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Thallium	mg/L	0.0246	<0.000200	0.0250	98.3	70 - 130	X444021 - X4J0374-01	31-Oct-24	
EPA 200.8	Uranium	mg/L	0.0286	0.00259	0.0250	104	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Uranium	mg/L	0.0267	<0.000100	0.0250	107	70 - 130	X444021 - X4J0374-01	31-Oct-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00211	<0.000200	0.00200	106	70 - 130	X443038 - X4J0323-01	28-Oct-24	
EPA 245.1	Mercury	mg/L	0.00212	<0.000200	0.00200	106	70 - 130	X443038 - X4J0350-01	28-Oct-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0930	<0.0050	0.100	93.0	79 - 121	X443192 - X4J0309-01	28-Oct-24	R4
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X444013 - X4J0467-01	29-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X444013 - X4J0418-01	29-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.09	<0.030	1.00	107	90 - 110	X443071 - X4J0343-01	24-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.78	0.777	1.00	101	90 - 110	X443071 - X4J0343-02	24-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	<0.0050	0.100	103	82 - 118	X442185 - X4J0214-01	18-Oct-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.23	0.27	3.00	98.5	90 - 110	X442172 - X4J0344-02	17-Oct-24	
EPA 300.0	Chloride	mg/L	3.19	0.23	3.00	98.6	90 - 110	X442172 - X4J0344-04	17-Oct-24	
EPA 300.0	Fluoride	mg/L	2.06	<0.100	2.00	101	90 - 110	X442172 - X4J0344-02	17-Oct-24	
EPA 300.0	Fluoride	mg/L	2.06	<0.100	2.00	101	90 - 110	X442172 - X4J0344-04	17-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.00	<0.050	2.00	100	90 - 110	X442172 - X4J0344-02	17-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X442172 - X4J0344-04	17-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	<0.100	4.00	101	90 - 110	X442172 - X4J0344-02	17-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.06	<0.100	4.00	102	90 - 110	X442172 - X4J0344-04	17-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.04	<0.050	2.00	102	90 - 110	X442172 - X4J0344-02	17-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X442172 - X4J0344-04	17-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.6	0.63	10.0	99.6	90 - 110	X442172 - X4J0344-02	17-Oct-24	

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Newmont - Cripple Creek & Victor
Post Office Box 191
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0343**
Reported: 01-Nov-24 09:29

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	10.6	0.54	10.0	101	90 - 110	X442172 - X4J0344-04	17-Oct-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	57.3	56.3	20.0	2.0	20	107	X443083 - X4J0350-01	
EPA 200.7	Magnesium	mg/L	28.9	28.8	20.0	0.7	20	103	X443083 - X4J0350-01	
EPA 200.7	Potassium	mg/L	23.1	22.7	20.0	1.7	20	104	X443083 - X4J0350-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	346	348	1.00	0.5	20	0.30R>S	X444052 - X4J0343-01	M3
EPA 200.7	Barium	mg/L	0.952	0.990	1.00	3.9	20	93.3	X444052 - X4J0343-01	
EPA 200.7	Beryllium	mg/L	1.63	1.54	1.00	5.4	20	103	X444052 - X4J0343-01	
EPA 200.7	Boron	mg/L	1.01	1.01	1.00	0.4	20	98.7	X444052 - X4J0343-01	
EPA 200.7	Cadmium	mg/L	1.19	1.17	1.00	2.3	20	94.5	X444052 - X4J0343-01	
EPA 200.7	Calcium	mg/L	491	494	20.0	0.8	20	0.30R>S	X444052 - X4J0343-01	M3
EPA 200.7	Chromium	mg/L	1.06	1.04	1.00	1.8	20	93.8	X444052 - X4J0343-01	
EPA 200.7	Cobalt	mg/L	1.28	1.25	1.00	2.7	20	92.7	X444052 - X4J0343-01	
EPA 200.7	Copper	mg/L	1.29	1.26	1.00	2.6	20	106	X444052 - X4J0343-01	
EPA 200.7	Iron	mg/L	14.0	14.0	10.0	0.4	20	99.6	X444052 - X4J0343-01	
EPA 200.7	Lead	mg/L	0.989	0.948	1.00	4.2	20	95.7	X444052 - X4J0343-01	
EPA 200.7	Lithium	mg/L	1.45	1.45	1.00	0.6	20	122	X444052 - X4J0343-01	
EPA 200.7	Magnesium	mg/L	398	395	20.0	0.6	20	125	X444052 - X4J0343-01	
EPA 200.7	Manganese	mg/L	61.1	61.8	1.00	1.2	20	0.30R>S	X444052 - X4J0343-01	M3
EPA 200.7	Molybdenum	mg/L	0.962	0.927	1.00	3.7	20	96.2	X444052 - X4J0343-01	
EPA 200.7	Nickel	mg/L	2.43	2.39	1.00	1.8	20	94.9	X444052 - X4J0343-01	
EPA 200.7	Potassium	mg/L	27.9	27.9	20.0	0.0	20	102	X444052 - X4J0343-01	
EPA 200.7	Silver	mg/L	0.0495	0.0479	0.0500	3.3	20	99.0	X444052 - X4J0343-01	
EPA 200.7	Sodium	mg/L	67.4	67.7	19.0	0.5	20	106	X444052 - X4J0343-01	
EPA 200.7	Vanadium	mg/L	0.985	0.954	1.00	3.2	20	98.5	X444052 - X4J0343-01	
EPA 200.7	Zinc	mg/L	6.58	6.49	1.00	1.3	20	105	X444052 - X4J0343-01	
EPA 200.8	Antimony	mg/L	0.0267	0.0279	0.0250	4.3	20	107	X444021 - X4J0350-01	
EPA 200.8	Arsenic	mg/L	0.0263	0.0259	0.0250	1.4	20	103	X444021 - X4J0350-01	
EPA 200.8	Selenium	mg/L	0.0280	0.0275	0.0250	1.8	20	112	X444021 - X4J0350-01	
EPA 200.8	Thallium	mg/L	0.0242	0.0239	0.0250	1.2	20	96.7	X444021 - X4J0350-01	
EPA 200.8	Uranium	mg/L	0.0289	0.0286	0.0250	1.2	20	105	X444021 - X4J0350-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00211	0.00211	0.00200	0.3	20	105	X443038 - X4J0323-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.109	0.0930	0.100	15.8	11	109	X443192 - X4J0309-01	R4
EPA 335.4	Cyanide (total)	mg/L	0.0998	0.102	0.100	2.2	20	99.8	X444013 - X4J0467-01	
EPA 350.1	Ammonia as N	mg/L	1.10	1.09	1.00	0.6	20	107	X443071 - X4J0343-01	
OIA 1677	Cyanide (WAD)	mg/L	0.105	0.104	0.100	1.0	11	104	X442185 - X4J0214-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.24	3.23	3.00	0.5	20	99.0	X442172 - X4J0344-02	
EPA 300.0	Fluoride	mg/L	2.07	2.06	2.00	0.5	20	101	X442172 - X4J0344-02	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	2.00	0.5	20	100	X442172 - X4J0344-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	4.04	4.00	0.7	20	102	X442172 - X4J0344-02	
EPA 300.0	Nitrite as N	mg/L	2.06	2.04	2.00	0.8	20	103	X442172 - X4J0344-02	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0343**
Reported: 01-Nov-24 09:29

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	10.6	10.0	0.6	20	100	X442172 - X4J0344-02	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4J0343**
Victor, CO 80860	Reported: 01-Nov-24 09:29

Notes and Definitions

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.
D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
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.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
R2B	RPD exceeded the laboratory acceptance limit.
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: **X4J0418**
Victor, CO 80860	Reported: 13-Nov-24 15:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GV-05	X4J0418-01	Surface Water	21-Oct-24 13:10	TR	22-Oct-2024	
GV-06	X4J0418-02	Surface Water	21-Oct-24 13:32	TR	22-Oct-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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0418

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: **X4J0418**
Reported: 13-Nov-24 15:50

Client Sample ID: **GV-05**
SVL Sample ID: **X4J0418-01 (Surface Water)**

Sampled: 21-Oct-24 13:10
Received: 22-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 1631E	**Mercury**	0.949	ng/L	0.500	0.120		X443216	MAC	10/30/24 19:45	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X444113	MAC	10/31/24 18:13	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.0637	mg/L	0.0020	0.0019		X444075	SJN	10/30/24 13:50	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X444075	SJN	10/30/24 13:50	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X444075	SJN	10/30/24 13:50	
EPA 200.7	**Calcium**	49.0	mg/L	0.100	0.069		X444075	SJN	10/30/24 13:50	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X444075	SJN	10/30/24 13:50	
EPA 200.7	**Iron**	2.82	mg/L	0.100	0.056		X444075	SJN	10/30/24 13:50	
EPA 200.7	**Magnesium**	12.2	mg/L	0.500	0.090		X444075	SJN	10/30/24 13:50	
EPA 200.7	**Manganese**	1.27	mg/L	0.0080	0.0034		X444075	SJN	10/30/24 13:50	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X444075	SJN	10/30/24 13:50	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X444075	SJN	10/30/24 13:50	
EPA 200.7	**Phosphorus**	0.067	mg/L	0.050	0.013		X444075	SJN	10/30/24 13:50	
EPA 200.7	**Potassium**	2.68	mg/L	0.50	0.18		X444075	SJN	10/30/24 13:50	
EPA 200.7	**Sodium**	15.1	mg/L	0.50	0.12		X444075	SJN	10/30/24 13:50	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X444075	SJN	10/30/24 13:50	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X444004	JRR	11/01/24 12:55	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X444004	JRR	11/01/24 12:55	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X444004	JRR	11/01/24 12:55	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X444004	JRR	11/01/24 12:55	
EPA 200.8	**Copper**	0.00054	mg/L	0.00040	0.00036		X444004	JRR	11/04/24 10:33	
EPA 200.8	**Lead**	0.00053	mg/L	0.00020	0.00014		X444004	JRR	11/01/24 12:55	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X444004	JRR	11/01/24 12:55	
SM 2340 B	**Hardness (as CaC03)**	179	mg/L	2.31	0.543		N/A		10/30/24 13:50	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X444052	NMS	10/29/24 10:32	
EPA 200.7	**Barium**	0.0439	mg/L	0.0020	0.0019		X444052	NMS	10/29/24 10:32	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X444052	NMS	10/29/24 10:32	
EPA 200.7	**Calcium**	51.1	mg/L	0.100	0.069		X444052	NMS	10/29/24 10:32	
EPA 200.7	**Iron**	0.102	mg/L	0.100	0.056		X444052	NMS	10/29/24 10:32	
EPA 200.7	**Magnesium**	12.5	mg/L	0.500	0.090		X444052	NMS	10/29/24 10:32	
EPA 200.7	**Manganese**	0.782	mg/L	0.0080	0.0034		X444052	NMS	10/29/24 10:32	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X444052	NMS	10/29/24 10:32	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X444052	NMS	10/29/24 10:32	
EPA 200.7	**Potassium**	2.70	mg/L	0.50	0.18		X444052	NMS	10/29/24 10:32	
EPA 200.7	**Sodium**	15.5	mg/L	0.50	0.12		X444052	NMS	10/29/24 10:32	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X444052	NMS	10/29/24 10:32	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X444021	SMU	10/31/24 14:10	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X444021	SMU	10/31/24 13:50	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X444021	SMU	10/31/24 13:50	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X444021	SMU	10/31/24 13:50	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X444021	SMU	10/31/24 13:50	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X444021	SMU	10/31/24 14:10	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X444021	SMU	10/31/24 13:50	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X444021	SMU	10/31/24 13:50	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X444021	SMU	10/31/24 14:10	
EPA 200.8	**Uranium**	0.000797	mg/L	0.000100	0.000052		X444021	SMU	10/31/24 14:10	

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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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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: **X4J0418**
Reported: 13-Nov-24 15:50

Client Sample ID: **GV-05**
SVL Sample ID: **X4J0418-01 (Surface Water)**

Sampled: 21-Oct-24 13:10
Received: 22-Oct-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		X443193	DD	10/28/24 14:01	R4
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		11/04/24 09:20	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X444013	JPM	10/29/24 10:51	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X443170	JPM	10/25/24 15:09	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X444165	JPM	10/31/24 11:38	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X444242	DD	11/01/24 11:23	
SM 2310 B	**Acidity to pH 8.3**	-87.6	mg/L as CaCO3	10.0			X443195	MWD	10/25/24 09:09	
SM 2320 B	**Total Alkalinity**	93.1	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 11:16	
SM 2320 B	**Bicarbonate**	93.1	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 11:16	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 11:16	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 11:16	
SM 2540 C	**Total Diss. Solids**	287	mg/L	10			X443183	TJL	10/28/24 14:20	
SM 2540 D	**Total Susp. Solids**	19.0	mg/L	5.0			X443184	TJL	10/28/24 13:15	
SM 4500 H B	**pH @19.8°C**	7.7	pH Units				X443115	MWD	10/23/24 11:16	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X443211	ORW	10/25/24 15:01	
SM 4500-O-G	**Dissolved Oxygen**	11.0	mg/L	0.1			X444275	TJL	11/08/24 14:00	H5
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X445001	ORW	11/04/24 09:20	
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		11/04/24 09:20	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	12.8	mg/L	2.00	0.22	10	X443094	RS	10/23/24 00:09	M4
EPA 300.0	**Fluoride**	0.606	mg/L	0.100	0.017		X443094	RS	10/22/24 23:51	
EPA 300.0	**Nitrate as N**	0.098	mg/L	0.050	0.013		X443094	RS	10/22/24 23:51	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X443094	RS	10/22/24 23:51	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X443094	RS	10/22/24 23:51	
EPA 300.0	**Sulfate as SO4**	111	mg/L	3.00	1.80	10	X443094	RS	10/23/24 00:09	M4

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.21 meq/L Anion Sum: 4.57 meq/L C/A Balance: -4.02 % Calculated TDS: 261 TDS/cTDS: 1.10

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

Kristi A. Groth

Kristi A. Groth
Project Manager

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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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: **X4J0418**
Reported: 13-Nov-24 15:50

Client Sample ID: **GV-06**
SVL Sample ID: **X4J0418-02 (Surface Water)**

Sampled: 21-Oct-24 13:32
Received: 22-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 1631E	**Mercury**	2.70	ng/L	0.500	0.120		X443216	MAC	10/30/24 19:50	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X444113	MAC	10/31/24 18:15	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.305	mg/L	0.0020	0.0019		X444075	SJN	10/30/24 13:54	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X444075	SJN	10/30/24 13:54	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X444075	SJN	10/30/24 13:54	
EPA 200.7	**Calcium**	54.1	mg/L	0.100	0.069		X444075	SJN	10/30/24 13:54	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X444075	SJN	10/30/24 13:54	
EPA 200.7	**Iron**	8.23	mg/L	0.100	0.056		X444075	SJN	10/30/24 13:54	
EPA 200.7	**Magnesium**	13.2	mg/L	0.500	0.090		X444075	SJN	10/30/24 13:54	
EPA 200.7	**Manganese**	2.68	mg/L	0.0080	0.0034		X444075	SJN	10/30/24 13:54	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X444075	SJN	10/30/24 13:54	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X444075	SJN	10/30/24 13:54	
EPA 200.7	**Phosphorus**	0.260	mg/L	0.050	0.013		X444075	SJN	10/30/24 13:54	
EPA 200.7	**Potassium**	3.33	mg/L	0.50	0.18		X444075	SJN	10/30/24 13:54	
EPA 200.7	**Sodium**	16.0	mg/L	0.50	0.12		X444075	SJN	10/30/24 13:54	
EPA 200.7	**Zinc**	0.0228	mg/L	0.0100	0.0054		X444075	SJN	10/30/24 13:54	
EPA 200.8	Antimony	< 0.00200	mg/L	0.00200	0.00144	2	X444004	JRR	11/01/24 12:58	D14,D17
EPA 200.8	Arsenic	< 0.00200	mg/L	0.00200	0.00042	2	X444004	JRR	11/01/24 12:58	D14,D17
EPA 200.8	Cadmium	< 0.000200	mg/L	0.000200	0.000126	2	X444004	JRR	11/01/24 12:58	D14,D17
EPA 200.8	Chromium	< 0.00200	mg/L	0.00200	0.00034	2	X444004	JRR	11/01/24 12:58	D14,D17
EPA 200.8	**Copper**	0.00138	mg/L	0.00080	0.00072	2	X444004	JRR	11/04/24 10:36	D14,D17
EPA 200.8	**Lead**	0.00447	mg/L	0.00040	0.00028	2	X444004	JRR	11/01/24 12:58	D14,D17
EPA 200.8	Selenium	< 0.00200	mg/L	0.00200	0.00048	2	X444004	JRR	11/01/24 12:58	D14,D17
SM 2340 B	**Hardness (as CaC03)**	190	mg/L	2.31	0.543		N/A		10/29/24 10:35	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X444052	NMS	10/29/24 10:35	
EPA 200.7	**Barium**	0.165	mg/L	0.0020	0.0019		X444052	NMS	10/29/24 10:35	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X444052	NMS	10/29/24 10:35	
EPA 200.7	**Calcium**	54.1	mg/L	0.100	0.069		X444052	NMS	10/29/24 10:35	
EPA 200.7	**Iron**	0.243	mg/L	0.100	0.056		X444052	NMS	10/29/24 10:35	
EPA 200.7	**Magnesium**	12.8	mg/L	0.500	0.090		X444052	NMS	10/29/24 10:35	
EPA 200.7	**Manganese**	1.14	mg/L	0.0080	0.0034		X444052	NMS	10/29/24 10:35	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X444052	NMS	10/29/24 10:35	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X444052	NMS	10/29/24 10:35	
EPA 200.7	**Potassium**	2.92	mg/L	0.50	0.18		X444052	NMS	10/29/24 10:35	
EPA 200.7	**Sodium**	15.9	mg/L	0.50	0.12		X444052	NMS	10/29/24 10:35	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X444052	NMS	10/29/24 10:35	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X444021	SMU	10/31/24 14:12	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X444021	SMU	10/31/24 13:53	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X444021	SMU	10/31/24 13:53	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X444021	SMU	10/31/24 13:53	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X444021	SMU	10/31/24 13:53	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X444021	SMU	10/31/24 14:12	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X444021	SMU	10/31/24 13:53	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X444021	SMU	10/31/24 13:53	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X444021	SMU	10/31/24 14:12	
EPA 200.8	**Uranium**	0.00126	mg/L	0.000100	0.000052		X444021	SMU	10/31/24 14:12	

SVL holds the following certifications:
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0418**
Reported: 13-Nov-24 15:50

Client Sample ID: **GV-06**
SVL Sample ID: **X4J0418-02 (Surface Water)**

Sampled: 21-Oct-24 13:32
Received: 22-Oct-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		X443193	DD	10/28/24 14:03	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		11/04/24 09:20	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X444013	JPM	10/29/24 11:05	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X443170	JPM	10/25/24 15:11	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X444165	JPM	10/31/24 13:49	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X444242	DD	11/01/24 11:25	
SM 2310 B	**Acidity to pH 8.3**	-87.6	mg/L as CaCO3	10.0			X443195	MWD	10/25/24 09:09	
SM 2320 B	**Total Alkalinity**	84.0	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 11:22	
SM 2320 B	**Bicarbonate**	84.0	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 11:22	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 11:22	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X443115	MWD	10/23/24 11:22	
SM 2540 C	**Total Diss. Solids**	300	mg/L	10			X443183	TJL	10/28/24 14:20	
SM 2540 D	**Total Susp. Solids**	65.0	mg/L	5.0			X443184	TJL	10/28/24 13:15	
SM 4500 H B	**pH @19.9°C**	7.5	pH Units				X443115	MWD	10/23/24 11:22	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X443211	ORW	10/25/24 15:01	
SM 4500-O-G	**Dissolved Oxygen**	10.7	mg/L	0.1			X444275	TJL	11/08/24 14:00	H5
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X445001	ORW	11/04/24 09:20	
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		11/04/24 09:20	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	11.0	mg/L	0.20	0.02		X443094	RS	10/23/24 02:18	
EPA 300.0	**Fluoride**	0.584	mg/L	0.100	0.017		X443094	RS	10/23/24 02:18	
EPA 300.0	**Nitrate as N**	0.175	mg/L	0.050	0.013		X443094	RS	10/23/24 02:18	
EPA 300.0	**Nitrate+Nitrite as N**	0.198	mg/L	0.100	0.044		X443094	RS	10/23/24 02:18	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X443094	RS	10/23/24 02:18	
EPA 300.0	**Sulfate as SO4**	136	mg/L	3.00	1.80	10	X443094	RS	10/23/24 02:37	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.58 meq/L Anion Sum: 4.87 meq/L C/A Balance: -3.03 % Calculated TDS: 285 TDS/cTDS: 1.05

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

Kristi A. Groth

Kristi A. Groth
Project Manager

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0418**
Reported: 13-Nov-24 15:50

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	X443216	30-Oct-24	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X443216	30-Oct-24	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X443216	30-Oct-24	
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X444113	31-Oct-24	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X444075	30-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X444075	30-Oct-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X444075	30-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X444075	30-Oct-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X444075	30-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X444075	30-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X444075	30-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X444075	30-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X444075	30-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X444075	30-Oct-24	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X444075	30-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X444075	30-Oct-24	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X444075	30-Oct-24	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X444075	30-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X444004	01-Nov-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X444004	01-Nov-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X444004	01-Nov-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X444004	01-Nov-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X444004	04-Nov-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X444004	01-Nov-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X444004	01-Nov-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X444052	29-Oct-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X444052	29-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X444052	29-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X444052	29-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X444052	29-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X444052	29-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X444052	29-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X444052	29-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X444052	29-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X444052	29-Oct-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X444052	29-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X444052	29-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X444021	31-Oct-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X444021	31-Oct-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X444021	31-Oct-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X444021	31-Oct-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X444021	31-Oct-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X444021	31-Oct-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X444021	31-Oct-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X444021	31-Oct-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X444021	31-Oct-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X444021	31-Oct-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X443193	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X444013	29-Oct-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X443170	25-Oct-24	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X444165	31-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0418**
Reported: 13-Nov-24 15:50

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)								
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X444242	01-Nov-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X443195	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X443115	23-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X443115	23-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X443115	23-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X443115	23-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X443183	28-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X443184	28-Oct-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X443211	25-Oct-24	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X445001	04-Nov-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X443094	22-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X443094	22-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X443094	22-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X443094	22-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X443094	22-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X443094	22-Oct-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	4.78	5.00	95.7	77 - 123	X443216	30-Oct-24	
EPA 245.1	Mercury	mg/L	0.00197	0.00200	98.4	85 - 115	X444113	31-Oct-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	0.964	1.00	96.4	85 - 115	X444075	30-Oct-24	
EPA 200.7	Beryllium	mg/L	0.963	1.00	96.3	85 - 115	X444075	30-Oct-24	
EPA 200.7	Boron	mg/L	0.962	1.00	96.2	85 - 115	X444075	30-Oct-24	
EPA 200.7	Calcium	mg/L	18.7	20.0	93	85 - 115	X444075	30-Oct-24	
EPA 200.7	Chromium	mg/L	0.992	1.00	99.2	85 - 115	X444075	30-Oct-24	
EPA 200.7	Iron	mg/L	9.61	10.0	96.1	85 - 115	X444075	30-Oct-24	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.5	85 - 115	X444075	30-Oct-24	
EPA 200.7	Manganese	mg/L	0.961	1.00	96.1	85 - 115	X444075	30-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.957	1.00	95.7	85 - 115	X444075	30-Oct-24	
EPA 200.7	Nickel	mg/L	0.938	1.00	93.8	85 - 115	X444075	30-Oct-24	
EPA 200.7	Phosphorus	mg/L	1.01	1.00	101	85 - 115	X444075	30-Oct-24	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.4	85 - 115	X444075	30-Oct-24	
EPA 200.7	Sodium	mg/L	18.0	19.0	94.8	85 - 115	X444075	30-Oct-24	
EPA 200.7	Zinc	mg/L	0.952	1.00	95.2	85 - 115	X444075	30-Oct-24	
EPA 200.8	Antimony	mg/L	0.0250	0.0250	100	85 - 115	X444004	01-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0256	0.0250	102	85 - 115	X444004	01-Nov-24	
EPA 200.8	Cadmium	mg/L	0.0249	0.0250	99.7	85 - 115	X444004	01-Nov-24	
EPA 200.8	Chromium	mg/L	0.0260	0.0250	104	85 - 115	X444004	01-Nov-24	
EPA 200.8	Copper	mg/L	0.0278	0.0250	111	85 - 115	X444004	04-Nov-24	
EPA 200.8	Lead	mg/L	0.0254	0.0250	102	85 - 115	X444004	01-Nov-24	
EPA 200.8	Selenium	mg/L	0.0254	0.0250	102	85 - 115	X444004	01-Nov-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	1.03	1.00	103	85 - 115	X444052	29-Oct-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X444052	29-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0418**
Reported: 13-Nov-24 15:50

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	Beryllium	mg/L	1.00	1.00	100	85 - 115	X444052	29-Oct-24	
EPA 200.7	Calcium	mg/L	19.9	20.0	99.3	85 - 115	X444052	29-Oct-24	
EPA 200.7	Iron	mg/L	10.3	10.0	103	85 - 115	X444052	29-Oct-24	
EPA 200.7	Magnesium	mg/L	19.6	20.0	98.2	85 - 115	X444052	29-Oct-24	
EPA 200.7	Manganese	mg/L	0.995	1.00	99.5	85 - 115	X444052	29-Oct-24	
EPA 200.7	Molybdenum	mg/L	1.01	1.00	101	85 - 115	X444052	29-Oct-24	
EPA 200.7	Nickel	mg/L	0.962	1.00	96.2	85 - 115	X444052	29-Oct-24	
EPA 200.7	Potassium	mg/L	20.1	20.0	100	85 - 115	X444052	29-Oct-24	
EPA 200.7	Sodium	mg/L	19.0	19.0	99.9	85 - 115	X444052	29-Oct-24	
EPA 200.7	Zinc	mg/L	0.962	1.00	96.2	85 - 115	X444052	29-Oct-24	
EPA 200.8	Antimony	mg/L	0.0262	0.0250	105	85 - 115	X444021	31-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0216	0.0250	86.2	85 - 115	X444021	31-Oct-24	
EPA 200.8	Cadmium	mg/L	0.0218	0.0250	87.2	85 - 115	X444021	31-Oct-24	
EPA 200.8	Chromium	mg/L	0.0230	0.0250	91.9	85 - 115	X444021	31-Oct-24	
EPA 200.8	Copper	mg/L	0.0230	0.0250	91.8	85 - 115	X444021	31-Oct-24	
EPA 200.8	Lead	mg/L	0.0246	0.0250	98.5	85 - 115	X444021	31-Oct-24	
EPA 200.8	Selenium	mg/L	0.0218	0.0250	87.1	85 - 115	X444021	31-Oct-24	
EPA 200.8	Silver	mg/L	0.0236	0.0250	94.3	85 - 115	X444021	31-Oct-24	
EPA 200.8	Thallium	mg/L	0.0240	0.0250	95.8	85 - 115	X444021	31-Oct-24	
EPA 200.8	Uranium	mg/L	0.0263	0.0250	105	85 - 115	X444021	31-Oct-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.109	0.100	109	90 - 110	X443193	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.0981	0.100	98.1	90 - 110	X444013	29-Oct-24	
EPA 350.1	Ammonia as N	mg/L	0.982	1.00	98.2	90 - 110	X443170	25-Oct-24	
EPA 351.2	TKN	mg/L	7.91	8.00	98.9	90 - 110	X444165	31-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	0.100	97.0	90 - 110	X444242	01-Nov-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	719	706	102	95.4 - 104	X443195	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	96.4 - 105	X443115	23-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X443115	23-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	412	397	104	96.4 - 105	X443115	23-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X443184	28-Oct-24	
SM 4500 S D	Sulfide	mg/L	0.507	0.500	101	85 - 115	X443211	25-Oct-24	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0969	0.100	96.9	80 - 120	X445001	04-Nov-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.00	3.00	100	90 - 110	X443094	22-Oct-24	
EPA 300.0	Fluoride	mg/L	2.02	2.00	101	90 - 110	X443094	22-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.01	2.00	100	90 - 110	X443094	22-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.59	4.50	102	90 - 110	X443094	22-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X443094	22-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X443094	22-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0418**
Reported: 13-Nov-24 15:50

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	X443195 - X4J0347-01	25-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	121	121	0.2	20	X443115 - X4J0350-01	23-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	121	121	0.2	20	X443115 - X4J0350-01	23-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X443115 - X4J0350-01	23-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X443115 - X4J0350-01	23-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	213	210	1.4	10	X443183 - X4J0432-02	28-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	19.0	18.0	5.4	10	X443184 - X4J0432-02	28-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X443184 - X4J0463-01	28-Oct-24	
SM 4500 H B	pH @18.6°C	pH Units	8.3	8.3	0.4	20	X443115 - X4J0350-01	23-Oct-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	10.3	10.3	0.0	20	X444275 - X4J0346-01	08-Nov-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	10.7	10.6	0.9	20	X444275 - X4K0129-01	08-Nov-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	2.95	<0.500	2.50	101	71 - 125	X443216 - X4J0432-01	30-Oct-24	
EPA 1631E	Mercury	ng/L	3.95	1.54	2.50	96.1	71 - 125	X443216 - X4J0464-01	30-Oct-24	
EPA 245.1	Mercury	mg/L	0.00198	<0.000093	0.00200	99.0	70 - 130	X444113 - X4J0447-02	31-Oct-24	
EPA 245.1	Mercury	mg/L	0.00202	<0.000093	0.00200	101	70 - 130	X444113 - X4J0439-06	31-Oct-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.04	0.0637	1.00	97.4	70 - 130	X444075 - X4J0418-01	30-Oct-24	
EPA 200.7	Barium	mg/L	1.15	0.0690	1.00	108	70 - 130	X444075 - X4J0471-04	30-Oct-24	D17,D18
EPA 200.7	Beryllium	mg/L	0.968	<0.00200	1.00	96.8	70 - 130	X444075 - X4J0418-01	30-Oct-24	
EPA 200.7	Beryllium	mg/L	1.07	<0.00400	1.00	107	70 - 130	X444075 - X4J0471-04	30-Oct-24	D17,D18
EPA 200.7	Boron	mg/L	0.976	<0.0400	1.00	96.1	70 - 130	X444075 - X4J0418-01	30-Oct-24	
EPA 200.7	Boron	mg/L	1.10	<0.0800	1.00	106	70 - 130	X444075 - X4J0471-04	30-Oct-24	D17,D18
EPA 200.7	Calcium	mg/L	68.1	49.0	20.0	96	70 - 130	X444075 - X4J0418-01	30-Oct-24	
EPA 200.7	Calcium	mg/L	800	701	20.0	0.30R>S	70 - 130	X444075 - X4J0471-04	30-Oct-24	D17,D18,M4
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X444075 - X4J0418-01	30-Oct-24	
EPA 200.7	Chromium	mg/L	1.12	<0.0120	1.00	112	70 - 130	X444075 - X4J0471-04	30-Oct-24	D17,D18
EPA 200.7	Iron	mg/L	12.4	2.82	10.0	96.2	70 - 130	X444075 - X4J0418-01	30-Oct-24	
EPA 200.7	Iron	mg/L	11.6	0.885	10.0	107	70 - 130	X444075 - X4J0471-04	30-Oct-24	D17,D18
EPA 200.7	Magnesium	mg/L	31.4	12.2	20.0	96.0	70 - 130	X444075 - X4J0418-01	30-Oct-24	
EPA 200.7	Magnesium	mg/L	176	138	20.0	0.30R>S	70 - 130	X444075 - X4J0471-04	30-Oct-24	D17,D18,M4
EPA 200.7	Manganese	mg/L	2.24	1.27	1.00	96.7	70 - 130	X444075 - X4J0418-01	30-Oct-24	
EPA 200.7	Manganese	mg/L	2.92	1.63	1.00	130	70 - 130	X444075 - X4J0471-04	30-Oct-24	D17,D18
EPA 200.7	Molybdenum	mg/L	0.962	<0.0080	1.00	96.2	70 - 130	X444075 - X4J0418-01	30-Oct-24	
EPA 200.7	Molybdenum	mg/L	1.05	<0.0160	1.00	105	70 - 130	X444075 - X4J0471-04	30-Oct-24	D17,D18
EPA 200.7	Nickel	mg/L	0.922	<0.0100	1.00	92.2	70 - 130	X444075 - X4J0418-01	30-Oct-24	
EPA 200.7	Nickel	mg/L	1.20	0.162	1.00	104	70 - 130	X444075 - X4J0471-04	30-Oct-24	D17,D18
EPA 200.7	Phosphorus	mg/L	1.09	0.067	1.00	102	70 - 130	X444075 - X4J0418-01	30-Oct-24	
EPA 200.7	Phosphorus	mg/L	1.22	<0.100	1.00	122	70 - 130	X444075 - X4J0471-04	30-Oct-24	D17,D18
EPA 200.7	Potassium	mg/L	22.7	2.68	20.0	100	70 - 130	X444075 - X4J0418-01	30-Oct-24	
EPA 200.7	Potassium	mg/L	32.0	7.57	20.0	122	70 - 130	X444075 - X4J0471-04	30-Oct-24	D17,D18
EPA 200.7	Sodium	mg/L	33.6	15.1	19.0	97.7	70 - 130	X444075 - X4J0418-01	30-Oct-24	
EPA 200.7	Sodium	mg/L	41.7	17.6	19.0	127	70 - 130	X444075 - X4J0471-04	30-Oct-24	D17,D18
EPA 200.7	Zinc	mg/L	0.938	<0.0100	1.00	93.8	70 - 130	X444075 - X4J0418-01	30-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0418**
Reported: 13-Nov-24 15:50

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	1.37	0.309	1.00	106	70 - 130	X444075 - X4J0471-04	30-Oct-24	D17,D18
EPA 200.8	Antimony	mg/L	0.0263	<0.00100	0.0250	105	70 - 130	X444004 - X4J0373-03	01-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0330	0.00682	0.0250	105	70 - 130	X444004 - X4J0373-03	01-Nov-24	
EPA 200.8	Cadmium	mg/L	0.0257	<0.000100	0.0250	103	70 - 130	X444004 - X4J0373-03	01-Nov-24	
EPA 200.8	Chromium	mg/L	0.0251	<0.00100	0.0250	100	70 - 130	X444004 - X4J0373-03	01-Nov-24	
EPA 200.8	Copper	mg/L	0.0264	0.00054	0.0250	103	70 - 130	X444004 - X4J0373-03	04-Nov-24	
EPA 200.8	Lead	mg/L	0.0252	<0.00020	0.0250	101	70 - 130	X444004 - X4J0373-03	01-Nov-24	
EPA 200.8	Selenium	mg/L	0.0259	<0.00100	0.0250	102	70 - 130	X444004 - X4J0373-03	01-Nov-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	348	341	1.00	0.30R>S	70 - 130	X444052 - X4J0343-01	29-Oct-24	M3
EPA 200.7	Aluminum	mg/L	5520	5460	1.00	0.30R>S	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18,M4
EPA 200.7	Barium	mg/L	0.990	0.0196	1.00	97.0	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Barium	mg/L	0.930	<0.0400	1.00	93.0	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Beryllium	mg/L	1.54	0.601	1.00	93.9	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Beryllium	mg/L	1.59	0.624	1.00	96.1	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Calcium	mg/L	494	460	20.0	0.30R>S	70 - 130	X444052 - X4J0343-01	29-Oct-24	M3
EPA 200.7	Calcium	mg/L	497	476	20.0	107	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Iron	mg/L	14.0	4.06	10.0	99.1	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Iron	mg/L	1500	1480	10.0	0.30R>S	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18,M4
EPA 200.7	Magnesium	mg/L	395	373	20.0	112	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Magnesium	mg/L	2970	2890	20.0	0.30R>S	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18,M4
EPA 200.7	Manganese	mg/L	61.8	59.4	1.00	0.30R>S	70 - 130	X444052 - X4J0343-01	29-Oct-24	M3
EPA 200.7	Manganese	mg/L	1500	1480	1.00	0.30R>S	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18,M4
EPA 200.7	Molybdenum	mg/L	0.927	<0.0080	1.00	92.7	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.825	<0.160	1.00	82.5	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Nickel	mg/L	2.39	1.48	1.00	90.7	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Nickel	mg/L	6.82	5.81	1.00	101	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Potassium	mg/L	27.9	7.52	20.0	102	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Potassium	mg/L	22.1	<10.0	20.0	110	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Sodium	mg/L	67.7	47.2	19.0	108	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Sodium	mg/L	37.9	20.0	19.0	94.5	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18
EPA 200.7	Zinc	mg/L	6.49	5.53	1.00	96.4	70 - 130	X444052 - X4J0343-01	29-Oct-24	
EPA 200.7	Zinc	mg/L	1970	2050	1.00	0.30R>S	70 - 130	X444052 - X4J0452-04	29-Oct-24	D11,D18,M4
EPA 200.8	Antimony	mg/L	0.0243	<0.00100	0.0250	97.0	70 - 130	X444021 - X4J0374-01	06-Nov-24	
EPA 200.8	Antimony	mg/L	0.0279	<0.00100	0.0250	112	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Antimony	mg/L	0.0233	<0.00100	0.0250	93.1	70 - 130	X444021 - X4J0374-01	31-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0263	<0.00100	0.0250	105	70 - 130	X444021 - X4J0374-01	06-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0259	<0.00100	0.0250	101	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Arsenic	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X444021 - X4J0374-01	31-Oct-24	
EPA 200.8	Cadmium	mg/L	0.0250	<0.000100	0.0250	99.9	70 - 130	X444021 - X4J0374-01	06-Nov-24	
EPA 200.8	Cadmium	mg/L	0.0235	0.000199	0.0250	93.2	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Cadmium	mg/L	0.0244	<0.000100	0.0250	97.6	70 - 130	X444021 - X4J0374-01	31-Oct-24	
EPA 200.8	Chromium	mg/L	0.0273	<0.00100	0.0250	109	70 - 130	X444021 - X4J0374-01	06-Nov-24	
EPA 200.8	Chromium	mg/L	0.0249	<0.00100	0.0250	99.7	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Chromium	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X444021 - X4J0374-01	31-Oct-24	
EPA 200.8	Copper	mg/L	0.0273	0.00049	0.0250	107	70 - 130	X444021 - X4J0374-01	06-Nov-24	
EPA 200.8	Copper	mg/L	0.0251	0.00092	0.0250	96.9	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Copper	mg/L	0.0258	0.00063	0.0250	101	70 - 130	X444021 - X4J0374-01	31-Oct-24	
EPA 200.8	Lead	mg/L	0.0262	<0.00020	0.0250	105	70 - 130	X444021 - X4J0374-01	06-Nov-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0418**
Reported: 13-Nov-24 15:50

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Lead	mg/L	0.0246	<0.00020	0.0250	98.5	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Lead	mg/L	0.0255	<0.00020	0.0250	102	70 - 130	X444021 - X4J0374-01	31-Oct-24	
EPA 200.8	Selenium	mg/L	0.0245	<0.00100	0.0250	98.2	70 - 130	X444021 - X4J0374-01	06-Nov-24	
EPA 200.8	Selenium	mg/L	0.0275	<0.00100	0.0250	110	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Selenium	mg/L	0.0276	<0.00100	0.0250	110	70 - 130	X444021 - X4J0374-01	31-Oct-24	
EPA 200.8	Silver	mg/L	0.0242	<0.00008	0.0250	96.8	70 - 130	X444021 - X4J0374-01	06-Nov-24	
EPA 200.8	Silver	mg/L	0.0235	<0.00008	0.0250	94.1	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Silver	mg/L	0.0243	<0.00008	0.0250	97.0	70 - 130	X444021 - X4J0374-01	31-Oct-24	
EPA 200.8	Thallium	mg/L	0.0263	<0.000200	0.0250	105	70 - 130	X444021 - X4J0374-01	06-Nov-24	
EPA 200.8	Thallium	mg/L	0.0239	<0.000200	0.0250	95.6	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Thallium	mg/L	0.0246	<0.000200	0.0250	98.3	70 - 130	X444021 - X4J0374-01	31-Oct-24	
EPA 200.8	Uranium	mg/L	0.0273	<0.000100	0.0250	109	70 - 130	X444021 - X4J0374-01	06-Nov-24	
EPA 200.8	Uranium	mg/L	0.0286	0.00259	0.0250	104	70 - 130	X444021 - X4J0350-01	31-Oct-24	
EPA 200.8	Uranium	mg/L	0.0267	<0.000100	0.0250	107	70 - 130	X444021 - X4J0374-01	31-Oct-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0950	<0.0050	0.100	95.0	79 - 121	X443193 - X4J0418-01	28-Oct-24	R4
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X444013 - X4J0467-01	29-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X444013 - X4J0418-01	29-Oct-24	
EPA 350.1	Ammonia as N	mg/L	0.982	<0.030	1.00	98.2	90 - 110	X443170 - X4J0377-02	25-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	99.1	90 - 110	X443170 - X4J0375-01	25-Oct-24	
EPA 351.2	TKN	mg/L	8.18	<0.50	8.00	97.1	90 - 110	X444165 - X4J0418-01	31-Oct-24	
EPA 351.2	TKN	mg/L	8.36	<0.50	8.00	100	90 - 110	X444165 - X4J0418-02	31-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	<0.0050	0.100	102	82 - 118	X444242 - X4J0350-01	01-Nov-24	
SM 4500 S D	Sulfide	mg/L	0.290	<0.050	0.200	145	75 - 125	X443211 - X4J0419-03	25-Oct-24	M1
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0212	<0.0050	0.0200	106	75 - 125	X445001 - X4J0467-01	04-Nov-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	15.5	12.8	3.00	90.2	90 - 110	X443094 - X4J0418-01	23-Oct-24	
EPA 300.0	Fluoride	mg/L	2.75	0.606	2.00	107	90 - 110	X443094 - X4J0418-01	23-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.07	0.098	2.00	98.7	90 - 110	X443094 - X4J0418-01	23-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	<0.100	4.00	99.2	90 - 110	X443094 - X4J0418-01	23-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	99.8	90 - 110	X443094 - X4J0418-01	23-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	120	111	10.0	90.0	90 - 110	X443094 - X4J0418-01	23-Oct-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	2.95	2.95	2.50	0.0	24	101	X443216 - X4J0432-01	
EPA 1631E	Mercury	ng/L	4.06	3.95	2.50	2.7	24	100	X443216 - X4J0464-01	
EPA 245.1	Mercury	mg/L	0.00189	0.00198	0.00200	4.7	20	94.5	X444113 - X4J0447-02	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.05	1.04	1.00	1.4	20	98.8	X444075 - X4J0418-01	
EPA 200.7	Beryllium	mg/L	0.982	0.968	1.00	1.5	20	98.2	X444075 - X4J0418-01	
EPA 200.7	Boron	mg/L	0.988	0.976	1.00	1.2	20	97.3	X444075 - X4J0418-01	
EPA 200.7	Calcium	mg/L	68.9	68.1	20.0	1.0	20	100	X444075 - X4J0418-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0418**
Reported: 13-Nov-24 15:50

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	Chromium	mg/L	1.01	1.00	1.00	0.9	20	101	X444075 - X4J0418-01	
EPA 200.7	Iron	mg/L	12.6	12.4	10.0	1.4	20	98.0	X444075 - X4J0418-01	
EPA 200.7	Magnesium	mg/L	31.8	31.4	20.0	1.3	20	98.0	X444075 - X4J0418-01	
EPA 200.7	Manganese	mg/L	2.27	2.24	1.00	1.4	20	99.9	X444075 - X4J0418-01	
EPA 200.7	Molybdenum	mg/L	0.975	0.962	1.00	1.4	20	97.5	X444075 - X4J0418-01	
EPA 200.7	Nickel	mg/L	0.936	0.922	1.00	1.5	20	93.6	X444075 - X4J0418-01	
EPA 200.7	Phosphorus	mg/L	1.10	1.09	1.00	1.5	20	104	X444075 - X4J0418-01	
EPA 200.7	Potassium	mg/L	23.1	22.7	20.0	1.5	20	102	X444075 - X4J0418-01	
EPA 200.7	Sodium	mg/L	34.1	33.6	19.0	1.4	20	100	X444075 - X4J0418-01	
EPA 200.7	Zinc	mg/L	0.951	0.938	1.00	1.4	20	95.1	X444075 - X4J0418-01	
EPA 200.8	Antimony	mg/L	0.0252	0.0263	0.0250	4.2	20	101	X444004 - X4J0373-03	
EPA 200.8	Arsenic	mg/L	0.0304	0.0330	0.0250	8.2	20	94.3	X444004 - X4J0373-03	
EPA 200.8	Cadmium	mg/L	0.0246	0.0257	0.0250	4.2	20	98.4	X444004 - X4J0373-03	
EPA 200.8	Chromium	mg/L	0.0231	0.0251	0.0250	8.2	20	92.5	X444004 - X4J0373-03	
EPA 200.8	Copper	mg/L	0.0253	0.0264	0.0250	4.2	20	99.0	X444004 - X4J0373-03	
EPA 200.8	Lead	mg/L	0.0243	0.0252	0.0250	3.8	20	97.0	X444004 - X4J0373-03	
EPA 200.8	Selenium	mg/L	0.0233	0.0259	0.0250	10.5	20	91.4	X444004 - X4J0373-03	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	346	348	1.00	0.5	20	0.30R>S	X444052 - X4J0343-01	M3
EPA 200.7	Barium	mg/L	0.952	0.990	1.00	3.9	20	93.3	X444052 - X4J0343-01	
EPA 200.7	Beryllium	mg/L	1.63	1.54	1.00	5.4	20	103	X444052 - X4J0343-01	
EPA 200.7	Calcium	mg/L	491	494	20.0	0.8	20	0.30R>S	X444052 - X4J0343-01	M3
EPA 200.7	Iron	mg/L	14.0	14.0	10.0	0.4	20	99.6	X444052 - X4J0343-01	
EPA 200.7	Magnesium	mg/L	398	395	20.0	0.6	20	125	X444052 - X4J0343-01	
EPA 200.7	Manganese	mg/L	61.1	61.8	1.00	1.2	20	0.30R>S	X444052 - X4J0343-01	M3
EPA 200.7	Molybdenum	mg/L	0.962	0.927	1.00	3.7	20	96.2	X444052 - X4J0343-01	
EPA 200.7	Nickel	mg/L	2.43	2.39	1.00	1.8	20	94.9	X444052 - X4J0343-01	
EPA 200.7	Potassium	mg/L	27.9	27.9	20.0	0.0	20	102	X444052 - X4J0343-01	
EPA 200.7	Sodium	mg/L	67.4	67.7	19.0	0.5	20	106	X444052 - X4J0343-01	
EPA 200.7	Zinc	mg/L	6.58	6.49	1.00	1.3	20	105	X444052 - X4J0343-01	
EPA 200.8	Antimony	mg/L	0.0267	0.0279	0.0250	4.3	20	107	X444021 - X4J0350-01	
EPA 200.8	Arsenic	mg/L	0.0263	0.0259	0.0250	1.4	20	103	X444021 - X4J0350-01	
EPA 200.8	Cadmium	mg/L	0.0238	0.0235	0.0250	1.3	20	94.4	X444021 - X4J0350-01	
EPA 200.8	Chromium	mg/L	0.0251	0.0249	0.0250	0.8	20	101	X444021 - X4J0350-01	
EPA 200.8	Copper	mg/L	0.0252	0.0251	0.0250	0.2	20	97.1	X444021 - X4J0350-01	
EPA 200.8	Lead	mg/L	0.0250	0.0246	0.0250	1.4	20	99.9	X444021 - X4J0350-01	
EPA 200.8	Selenium	mg/L	0.0280	0.0275	0.0250	1.8	20	112	X444021 - X4J0350-01	
EPA 200.8	Silver	mg/L	0.0237	0.0235	0.0250	0.6	20	94.7	X444021 - X4J0350-01	
EPA 200.8	Thallium	mg/L	0.0242	0.0239	0.0250	1.2	20	96.7	X444021 - X4J0350-01	
EPA 200.8	Uranium	mg/L	0.0289	0.0286	0.0250	1.2	20	105	X444021 - X4J0350-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.110	0.0950	0.100	14.6	11	110	X443193 - X4J0418-01	R4
EPA 335.4	Cyanide (total)	mg/L	0.0998	0.102	0.100	2.2	20	99.8	X444013 - X4J0467-01	
EPA 350.1	Ammonia as N	mg/L	1.01	0.982	1.00	2.4	20	101	X443170 - X4J0377-02	
EPA 351.2	TKN	mg/L	8.45	8.18	8.00	3.2	20	100	X444165 - X4J0418-01	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.104	0.100	1.0	11	101	X444242 - X4J0350-01	
SM 4500 S D	Sulfide	mg/L	0.290	0.290	0.200	0.0	20	145	X443211 - X4J0419-03	M1
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0212	0.0212	0.0200	0.0	20	106	X445001 - X4J0467-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	15.3	15.5	3.00	1.3	20	0.30R>S	X443094 - X4J0418-01	M4
EPA 300.0	Fluoride	mg/L	2.66	2.75	2.00	3.3	20	103	X443094 - X4J0418-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0418**
Reported: 13-Nov-24 15:50

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	Nitrate as N	mg/L	2.12	2.07	2.00	2.3	20	101	X443094 - X4J0418-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.16	4.07	4.00	2.3	20	102	X443094 - X4J0418-01	
EPA 300.0	Nitrite as N	mg/L	2.04	2.00	2.00	2.3	20	102	X443094 - X4J0418-01	
EPA 300.0	Sulfate as SO4	mg/L	118	120	10.0	1.5	20	0.30R>S	X443094 - X4J0418-01	M4

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4J0418**
Victor, CO 80860	Reported: 13-Nov-24 15:50

Notes and Definitions

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.
D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
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: **X4J0467**
Victor, CO 80860	Reported: 13-Nov-24 16:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GV-4.5	X4J0467-01	Surface Water	23-Oct-24 13:44	TR	24-Oct-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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0467

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: **X4J0467**
Reported: 13-Nov-24 16:26

Client Sample ID: **GV-4.5**
SVL Sample ID: **X4J0467-01 (Surface Water)**

Sampled: 23-Oct-24 13:44
Received: 24-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 1631E	**Mercury**	0.511	ng/L	0.500	0.120		X443216	MAC	10/30/24 21:30	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X444208	MAC	11/04/24 14:05	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	**Barium**	0.127	mg/L	0.0020	0.0019		X444094	SJN	10/30/24 18:43	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X444094	SJN	10/30/24 18:43	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X444094	SJN	10/30/24 18:43	
EPA 200.7	**Calcium**	50.9	mg/L	0.100	0.069		X444094	SJN	10/30/24 18:43	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X444094	SJN	10/30/24 18:43	
EPA 200.7	**Iron**	7.88	mg/L	0.100	0.056		X444094	SJN	10/30/24 18:43	
EPA 200.7	**Magnesium**	11.0	mg/L	0.500	0.090		X444094	SJN	10/30/24 18:43	
EPA 200.7	**Manganese**	0.798	mg/L	0.0080	0.0034		X444094	SJN	10/30/24 18:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X444094	SJN	10/30/24 18:43	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X444094	SJN	10/30/24 18:43	
EPA 200.7	**Phosphorus**	0.094	mg/L	0.050	0.013		X444094	SJN	10/30/24 18:43	
EPA 200.7	**Potassium**	1.86	mg/L	0.50	0.18		X444094	SJN	10/30/24 20:34	
EPA 200.7	**Sodium**	14.8	mg/L	0.50	0.12		X444094	SJN	10/30/24 20:34	
EPA 200.7	**Zinc**	0.0100	mg/L	0.0100	0.0054		X444094	SJN	10/30/24 18:43	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X444099	SMU	11/06/24 15:42	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X444099	SMU	11/06/24 15:42	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X444099	SMU	11/06/24 15:42	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X444099	SMU	11/06/24 15:42	
EPA 200.8	**Copper**	0.00146	mg/L	0.00040	0.00036		X444099	SMU	11/06/24 15:42	
EPA 200.8	**Lead**	0.00071	mg/L	0.00020	0.00014		X444099	SMU	11/06/24 15:42	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X444099	SMU	11/06/24 15:42	
SM 2340 B	**Hardness (as CaC03)**	172	mg/L	2.31	0.543		N/A		10/30/24 16:12	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X444086	SJN	10/30/24 16:12	
EPA 200.7	**Barium**	0.101	mg/L	0.0020	0.0019		X444086	SJN	10/30/24 16:12	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X444086	SJN	10/30/24 16:12	
EPA 200.7	**Calcium**	46.5	mg/L	0.100	0.069		X444086	SJN	10/30/24 16:12	
EPA 200.7	**Iron**	1.91	mg/L	0.100	0.056		X444086	SJN	10/30/24 16:12	
EPA 200.7	**Magnesium**	10.3	mg/L	0.500	0.090		X444086	SJN	10/30/24 16:12	
EPA 200.7	**Manganese**	0.710	mg/L	0.0080	0.0034		X444086	SJN	10/30/24 16:12	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X444086	SJN	10/30/24 16:12	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X444086	SJN	10/30/24 16:12	
EPA 200.7	**Potassium**	1.73	mg/L	0.50	0.18		X444086	SJN	10/30/24 16:12	
EPA 200.7	**Sodium**	14.6	mg/L	0.50	0.12		X444086	SJN	10/30/24 16:12	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X444086	SJN	10/30/24 16:12	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X444190	SMU	11/07/24 10:53	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X444190	SMU	11/07/24 10:53	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X444190	SMU	11/07/24 10:53	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X444190	SMU	11/07/24 10:53	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X444190	SMU	11/07/24 10:53	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X444190	SMU	11/07/24 10:53	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X444190	SMU	11/07/24 13:45	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X444190	SMU	11/07/24 10:53	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X444190	SMU	11/07/24 10:53	
EPA 200.8	**Uranium**	0.000529	mg/L	0.000100	0.000052		X444190	SMU	11/07/24 10:53	

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: **X4J0467**
Reported: 13-Nov-24 16:26

Client Sample ID: **GV-4.5**
SVL Sample ID: **X4J0467-01 (Surface Water)**

Sampled: 23-Oct-24 13:44
Received: 24-Oct-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		X443193	DD	10/28/24 14:23	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		11/04/24 09:20	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X444013	JPM	10/29/24 11:12	
EPA 350.1	**Ammonia as N**	0.037	mg/L	0.030	0.013		X444102	JPM	10/31/24 10:32	B10
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X444278	JPM	11/05/24 09:57	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X444242	DD	11/01/24 11:29	
SM 2310 B	**Acidity to pH 8.3**	-117	mg/L as CaCO3	10.0			X444160	MWD	10/31/24 12:35	
SM 2320 B	**Total Alkalinity**	121	mg/L as CaCO3	1.0			X444011	MWD	10/28/24 17:22	
SM 2320 B	**Bicarbonate**	121	mg/L as CaCO3	1.0			X444011	MWD	10/28/24 17:22	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X444011	MWD	10/28/24 17:22	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X444011	MWD	10/28/24 17:22	
SM 2540 C	**Total Diss. Solids**	229	mg/L	10			X443223	TJL	10/30/24 14:40	
SM 2540 D	**Total Susp. Solids**	13.0	mg/L	5.0			X443224	TJL	11/01/24 08:20	
SM 4500 H B	**pH @18.4°C**	6.7	pH Units				X444011	MWD	10/28/24 17:22	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X443211	ORW	10/25/24 15:01	
SM 4500-O-G	**Dissolved Oxygen**	10.1	mg/L	0.1			X444275	TJL	11/08/24 14:00	H5
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X445001	ORW	11/04/24 09:20	
Filtered Classical Chemistry Parameters										
Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		11/07/24 10:53	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	31.3	mg/L	2.00	0.22	10	X443196	RS	10/24/24 17:38	
EPA 300.0	**Fluoride**	0.505	mg/L	0.100	0.017		X443196	RS	10/24/24 17:19	
EPA 300.0	**Nitrate as N**	0.139	mg/L	0.050	0.013		X443196	RS	10/24/24 17:19	
EPA 300.0	**Nitrate+Nitrite as N**	0.139	mg/L	0.100	0.044		X443196	RS	10/24/24 17:19	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X443196	RS	10/24/24 17:19	
EPA 300.0	**Sulfate as SO4**	37.1	mg/L	0.30	0.18		X443196	RS	10/24/24 17:19	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.95 meq/L Anion Sum: 4.11 meq/L C/A Balance: -1.96 % Calculated TDS: 218 TDS/cTDS: 1.05

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0467**
Reported: 13-Nov-24 16:26

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	X443216	30-Oct-24	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X443216	30-Oct-24	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X443216	30-Oct-24	
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X444208	04-Nov-24	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X444094	30-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X444094	30-Oct-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X444094	30-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X444094	30-Oct-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X444094	30-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X444094	30-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X444094	30-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X444094	30-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X444094	30-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X444094	30-Oct-24	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X444094	30-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X444094	30-Oct-24	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X444094	30-Oct-24	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X444094	30-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X444099	06-Nov-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X444099	06-Nov-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X444099	06-Nov-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X444099	06-Nov-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X444099	06-Nov-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X444099	06-Nov-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X444099	06-Nov-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X444086	30-Oct-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X444086	30-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X444086	30-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X444086	30-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X444086	30-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X444086	30-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X444086	30-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X444086	30-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X444086	30-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X444086	30-Oct-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X444086	30-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X444086	30-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X444190	07-Nov-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X444190	07-Nov-24	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X444190	07-Nov-24	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X444190	07-Nov-24	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X444190	07-Nov-24	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X444190	07-Nov-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X444190	07-Nov-24	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X444190	07-Nov-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X444190	07-Nov-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X444190	07-Nov-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X443193	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X444013	29-Oct-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X444102	31-Oct-24	B10
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X444278	05-Nov-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0467**
Reported: 13-Nov-24 16:26

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)								
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X444242	01-Nov-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X444160	31-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X444011	28-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X444011	28-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X444011	28-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X444011	28-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X443223	30-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X443224	01-Nov-24	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X443211	25-Oct-24	
Dissolved Classical Chemistry Parameters								
SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X445001	04-Nov-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X443196	24-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X443196	24-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X443196	24-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X443196	24-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X443196	24-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X443196	24-Oct-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	4.78	5.00	95.7	77 - 123	X443216	30-Oct-24	
EPA 245.1	Mercury	mg/L	0.00199	0.00200	99.4	85 - 115	X444208	04-Nov-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Barium	mg/L	1.04	1.00	104	85 - 115	X444094	30-Oct-24	
EPA 200.7	Beryllium	mg/L	1.00	1.00	100	85 - 115	X444094	30-Oct-24	
EPA 200.7	Boron	mg/L	1.02	1.00	102	85 - 115	X444094	30-Oct-24	
EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X444094	30-Oct-24	
EPA 200.7	Chromium	mg/L	1.02	1.00	102	85 - 115	X444094	30-Oct-24	
EPA 200.7	Iron	mg/L	10.2	10.0	102	85 - 115	X444094	30-Oct-24	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X444094	30-Oct-24	
EPA 200.7	Manganese	mg/L	0.993	1.00	99.3	85 - 115	X444094	30-Oct-24	
EPA 200.7	Molybdenum	mg/L	1.02	1.00	102	85 - 115	X444094	30-Oct-24	
EPA 200.7	Nickel	mg/L	0.970	1.00	97.0	85 - 115	X444094	30-Oct-24	
EPA 200.7	Phosphorus	mg/L	1.06	1.00	106	85 - 115	X444094	30-Oct-24	
EPA 200.7	Potassium	mg/L	20.5	20.0	102	85 - 115	X444094	30-Oct-24	
EPA 200.7	Sodium	mg/L	19.1	19.0	101	85 - 115	X444094	30-Oct-24	
EPA 200.7	Zinc	mg/L	1.01	1.00	101	85 - 115	X444094	30-Oct-24	
EPA 200.8	Antimony	mg/L	0.0248	0.0250	99.2	85 - 115	X444099	06-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0246	0.0250	98.3	85 - 115	X444099	06-Nov-24	
EPA 200.8	Cadmium	mg/L	0.0246	0.0250	98.4	85 - 115	X444099	06-Nov-24	
EPA 200.8	Chromium	mg/L	0.0250	0.0250	100	85 - 115	X444099	06-Nov-24	
EPA 200.8	Copper	mg/L	0.0256	0.0250	102	85 - 115	X444099	06-Nov-24	
EPA 200.8	Lead	mg/L	0.0250	0.0250	100	85 - 115	X444099	06-Nov-24	
EPA 200.8	Selenium	mg/L	0.0251	0.0250	100	85 - 115	X444099	06-Nov-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.913	1.00	91.3	85 - 115	X444086	30-Oct-24	
EPA 200.7	Barium	mg/L	0.970	1.00	97.0	85 - 115	X444086	30-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0467**
Reported: 13-Nov-24 16:26

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	Beryllium	mg/L	0.922	1.00	92.2	85 - 115	X444086	30-Oct-24	
EPA 200.7	Calcium	mg/L	18.8	20.0	93.8	85 - 115	X444086	30-Oct-24	
EPA 200.7	Iron	mg/L	9.50	10.0	95.0	85 - 115	X444086	30-Oct-24	
EPA 200.7	Magnesium	mg/L	18.8	20.0	94.2	85 - 115	X444086	30-Oct-24	
EPA 200.7	Manganese	mg/L	0.930	1.00	93.0	85 - 115	X444086	30-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.947	1.00	94.7	85 - 115	X444086	30-Oct-24	
EPA 200.7	Nickel	mg/L	0.905	1.00	90.5	85 - 115	X444086	30-Oct-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.8	85 - 115	X444086	30-Oct-24	
EPA 200.7	Sodium	mg/L	18.1	19.0	95.4	85 - 115	X444086	30-Oct-24	
EPA 200.7	Zinc	mg/L	0.912	1.00	91.2	85 - 115	X444086	30-Oct-24	
EPA 200.8	Antimony	mg/L	0.0247	0.0250	99.0	85 - 115	X444190	07-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0249	0.0250	99.7	85 - 115	X444190	07-Nov-24	
EPA 200.8	Cadmium	mg/L	0.0254	0.0250	101	85 - 115	X444190	07-Nov-24	
EPA 200.8	Chromium	mg/L	0.0247	0.0250	98.9	85 - 115	X444190	07-Nov-24	
EPA 200.8	Copper	mg/L	0.0251	0.0250	100	85 - 115	X444190	07-Nov-24	
EPA 200.8	Lead	mg/L	0.0258	0.0250	103	85 - 115	X444190	07-Nov-24	
EPA 200.8	Selenium	mg/L	0.0277	0.0250	111	85 - 115	X444190	07-Nov-24	
EPA 200.8	Silver	mg/L	0.0242	0.0250	96.8	85 - 115	X444190	07-Nov-24	
EPA 200.8	Thallium	mg/L	0.0259	0.0250	104	85 - 115	X444190	07-Nov-24	
EPA 200.8	Uranium	mg/L	0.0271	0.0250	109	85 - 115	X444190	07-Nov-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.109	0.100	109	90 - 110	X443193	28-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.0981	0.100	98.1	90 - 110	X444013	29-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X444102	31-Oct-24	B10
EPA 351.2	TKN	mg/L	7.61	8.00	95.2	90 - 110	X444278	05-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	0.100	97.0	90 - 110	X444242	01-Nov-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	719	706	102	95.4 - 104	X444160	31-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X444011	28-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X444011	28-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X443224	01-Nov-24	
SM 4500 S D	Sulfide	mg/L	0.507	0.500	101	85 - 115	X443211	25-Oct-24	
Dissolved Classical Chemistry Parameters									
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0969	0.100	96.9	80 - 120	X445001	04-Nov-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.00	3.00	99.9	90 - 110	X443196	24-Oct-24	
EPA 300.0	Fluoride	mg/L	2.02	2.00	101	90 - 110	X443196	24-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	100	90 - 110	X443196	24-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.58	4.50	102	90 - 110	X443196	24-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X443196	24-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X443196	24-Oct-24	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X444160 - X4J0443-01	31-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	132	132	0.1	20	X444011 - X4J0443-02	28-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	132	132	0.1	20	X444011 - X4J0443-02	28-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X444011 - X4J0443-02	28-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X444011 - X4J0443-02	28-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	212	207	2.4	10	X443223 - X4J0464-03	30-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	222	229	3.1	10	X443223 - X4J0467-01	30-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X443224 - X4J0464-03	01-Nov-24	

SVL holds the following certifications:
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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0467**
Reported: 13-Nov-24 16:26

Quality Control - DUPLICATE Data (Continued)

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)									
SM 2540 D	Total Susp. Solids	mg/L	13.0	13.0	0.0	10	X443224 - X4J0467-01	01-Nov-24	
SM 4500 H B	pH @17.6°C	pH Units	8.2	8.2	0.1	20	X444011 - X4J0443-02	28-Oct-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	10.3	10.3	0.0	20	X444275 - X4J0346-01	08-Nov-24	
SM 4500-O-G	Dissolved Oxygen	mg/L	10.7	10.6	0.9	20	X444275 - X4K0129-01	08-Nov-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	2.95	<0.500	2.50	101	71 - 125	X443216 - X4J0432-01	30-Oct-24	
EPA 1631E	Mercury	ng/L	3.95	1.54	2.50	96.1	71 - 125	X443216 - X4J0464-01	30-Oct-24	
EPA 245.1	Mercury	mg/L	0.00204	<0.000093	0.00200	102	70 - 130	X444208 - X4J0468-01	04-Nov-24	
EPA 245.1	Mercury	mg/L	0.00216	<0.000093	0.00200	108	70 - 130	X444208 - X4J0468-11	04-Nov-24	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.07	0.0776	1.00	99.2	70 - 130	X444094 - X4J0442-01	30-Oct-24	
EPA 200.7	Barium	mg/L	1.12	0.129	1.00	98.6	70 - 130	X444094 - X4J0502-03	30-Oct-24	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X444094 - X4J0442-01	30-Oct-24	
EPA 200.7	Beryllium	mg/L	0.993	<0.00200	1.00	99.3	70 - 130	X444094 - X4J0502-03	30-Oct-24	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	101	70 - 130	X444094 - X4J0442-01	30-Oct-24	
EPA 200.7	Boron	mg/L	1.11	0.104	1.00	100	70 - 130	X444094 - X4J0502-03	30-Oct-24	
EPA 200.7	Calcium	mg/L	44.1	24.5	20.0	98	70 - 130	X444094 - X4J0442-01	30-Oct-24	
EPA 200.7	Calcium	mg/L	79.6	64.3	20.0	77	70 - 130	X444094 - X4J0502-03	30-Oct-24	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X444094 - X4J0442-01	30-Oct-24	
EPA 200.7	Chromium	mg/L	0.985	<0.0060	1.00	98.5	70 - 130	X444094 - X4J0502-03	30-Oct-24	
EPA 200.7	Iron	mg/L	10.3	0.169	10.0	101	70 - 130	X444094 - X4J0442-01	30-Oct-24	
EPA 200.7	Iron	mg/L	10.7	0.823	10.0	99.2	70 - 130	X444094 - X4J0502-03	30-Oct-24	
EPA 200.7	Magnesium	mg/L	26.6	6.36	20.0	101	70 - 130	X444094 - X4J0442-01	30-Oct-24	
EPA 200.7	Magnesium	mg/L	48.2	27.7	20.0	102	70 - 130	X444094 - X4J0502-03	30-Oct-24	
EPA 200.7	Manganese	mg/L	0.984	0.0111	1.00	97.3	70 - 130	X444094 - X4J0442-01	30-Oct-24	
EPA 200.7	Manganese	mg/L	0.976	0.0157	1.00	96.0	70 - 130	X444094 - X4J0502-03	30-Oct-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	101	70 - 130	X444094 - X4J0442-01	30-Oct-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	100	70 - 130	X444094 - X4J0502-03	30-Oct-24	
EPA 200.7	Nickel	mg/L	0.946	<0.0100	1.00	94.6	70 - 130	X444094 - X4J0442-01	30-Oct-24	
EPA 200.7	Nickel	mg/L	0.915	<0.0100	1.00	91.5	70 - 130	X444094 - X4J0502-03	30-Oct-24	
EPA 200.7	Phosphorus	mg/L	1.06	<0.050	1.00	104	70 - 130	X444094 - X4J0442-01	30-Oct-24	
EPA 200.7	Phosphorus	mg/L	1.18	0.138	1.00	105	70 - 130	X444094 - X4J0502-03	30-Oct-24	
EPA 200.7	Potassium	mg/L	21.3	0.92	20.0	102	70 - 130	X444094 - X4J0442-01	30-Oct-24	
EPA 200.7	Potassium	mg/L	23.8	3.41	20.0	102	70 - 130	X444094 - X4J0502-03	30-Oct-24	
EPA 200.7	Sodium	mg/L	21.4	2.55	19.0	99.3	70 - 130	X444094 - X4J0442-01	30-Oct-24	
EPA 200.7	Sodium	mg/L	40.4	22.1	19.0	96.4	70 - 130	X444094 - X4J0502-03	30-Oct-24	
EPA 200.7	Zinc	mg/L	0.995	<0.0100	1.00	99.5	70 - 130	X444094 - X4J0442-01	30-Oct-24	
EPA 200.7	Zinc	mg/L	0.992	<0.0100	1.00	98.4	70 - 130	X444094 - X4J0502-03	30-Oct-24	
EPA 200.8	Antimony	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X444099 - X4J0467-01	06-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0267	<0.00100	0.0250	104	70 - 130	X444099 - X4J0467-01	06-Nov-24	
EPA 200.8	Cadmium	mg/L	0.0253	<0.000100	0.0250	101	70 - 130	X444099 - X4J0467-01	06-Nov-24	
EPA 200.8	Chromium	mg/L	0.0263	<0.00100	0.0250	104	70 - 130	X444099 - X4J0467-01	06-Nov-24	
EPA 200.8	Copper	mg/L	0.0264	0.00146	0.0250	99.8	70 - 130	X444099 - X4J0467-01	06-Nov-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0467**
Reported: 13-Nov-24 16:26

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 (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)										
EPA 200.8	Lead	mg/L	0.0256	0.00071	0.0250	99.6	70 - 130	X444099 - X4J0467-01	06-Nov-24	
EPA 200.8	Selenium	mg/L	0.0260	<0.00100	0.0250	102	70 - 130	X444099 - X4J0467-01	06-Nov-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Barium	mg/L	1.05	0.0745	1.00	97.3	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Beryllium	mg/L	0.941	<0.00200	1.00	94.1	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Calcium	mg/L	49.9	30.8	20.0	95.3	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Iron	mg/L	9.76	<0.100	10.0	96.9	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Magnesium	mg/L	23.4	3.25	20.0	101	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Manganese	mg/L	0.954	0.0198	1.00	93.4	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.987	0.0213	1.00	96.6	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Nickel	mg/L	0.936	<0.0100	1.00	93.6	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Potassium	mg/L	26.1	6.92	20.0	95.9	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Sodium	mg/L	250	234	19.0	84.2	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Zinc	mg/L	0.966	<0.0100	1.00	96.6	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.8	Antimony	mg/L	0.0275	<0.00100	0.0250	107	70 - 130	X444190 - X4J0432-01	07-Nov-24	
EPA 200.8	Antimony	mg/L	0.0255	<0.00100	0.0250	98.7	70 - 130	X444190 - X4J0484-01	07-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0255	<0.00100	0.0250	102	70 - 130	X444190 - X4J0432-01	07-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0250	<0.00100	0.0250	99.9	70 - 130	X444190 - X4J0484-01	07-Nov-24	
EPA 200.8	Cadmium	mg/L	0.0271	<0.000100	0.0250	108	70 - 130	X444190 - X4J0432-01	07-Nov-24	
EPA 200.8	Cadmium	mg/L	0.0250	<0.000100	0.0250	99.9	70 - 130	X444190 - X4J0484-01	07-Nov-24	
EPA 200.8	Chromium	mg/L	0.0248	<0.00100	0.0250	97.8	70 - 130	X444190 - X4J0432-01	07-Nov-24	
EPA 200.8	Chromium	mg/L	0.0245	<0.00100	0.0250	96.1	70 - 130	X444190 - X4J0484-01	07-Nov-24	
EPA 200.8	Copper	mg/L	0.0256	<0.00040	0.0250	102	70 - 130	X444190 - X4J0432-01	07-Nov-24	
EPA 200.8	Copper	mg/L	0.0244	<0.00040	0.0250	97.5	70 - 130	X444190 - X4J0484-01	07-Nov-24	
EPA 200.8	Lead	mg/L	0.0252	<0.00020	0.0250	101	70 - 130	X444190 - X4J0432-01	07-Nov-24	
EPA 200.8	Lead	mg/L	0.0240	<0.00020	0.0250	96.0	70 - 130	X444190 - X4J0484-01	07-Nov-24	
EPA 200.8	Selenium	mg/L	0.0275	0.00127	0.0250	105	70 - 130	X444190 - X4J0432-01	07-Nov-24	
EPA 200.8	Selenium	mg/L	0.0273	0.00100	0.0250	105	70 - 130	X444190 - X4J0484-01	07-Nov-24	
EPA 200.8	Silver	mg/L	0.0257	<0.00008	0.0250	103	70 - 130	X444190 - X4J0432-01	07-Nov-24	
EPA 200.8	Silver	mg/L	0.0242	<0.00008	0.0250	96.8	70 - 130	X444190 - X4J0484-01	07-Nov-24	
EPA 200.8	Thallium	mg/L	0.0254	<0.000200	0.0250	102	70 - 130	X444190 - X4J0432-01	07-Nov-24	
EPA 200.8	Thallium	mg/L	0.0243	<0.000200	0.0250	97.0	70 - 130	X444190 - X4J0484-01	07-Nov-24	
EPA 200.8	Uranium	mg/L	0.0279	0.000420	0.0250	110	70 - 130	X444190 - X4J0432-01	07-Nov-24	
EPA 200.8	Uranium	mg/L	0.0266	0.000527	0.0250	104	70 - 130	X444190 - X4J0484-01	07-Nov-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0950	<0.0050	0.100	95.0	79 - 121	X443193 - X4J0418-01	28-Oct-24	R4
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X444013 - X4J0467-01	29-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.101	<0.0050	0.100	101	90 - 110	X444013 - X4J0418-01	29-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X444102 - X4J0477-04	31-Oct-24	B10
EPA 350.1	Ammonia as N	mg/L	1.15	0.042	1.00	111	90 - 110	X444102 - X4J0477-02	31-Oct-24	B10,M1
EPA 351.2	TKN	mg/L	7.95	<0.50	8.00	99.3	90 - 110	X444278 - X4J0477-04	05-Nov-24	
EPA 351.2	TKN	mg/L	7.79	<0.50	8.00	97.3	90 - 110	X444278 - X4J0477-05	05-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	<0.0050	0.100	102	82 - 118	X444242 - X4J0350-01	01-Nov-24	
SM 4500 S D	Sulfide	mg/L	0.290	<0.050	0.200	145	75 - 125	X443211 - X4J0419-03	25-Oct-24	M1
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0212	<0.0050	0.0200	106	75 - 125	X445001 - X4J0467-01	04-Nov-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0467**
Reported: 13-Nov-24 16:26

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
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	34.1	31.3	3.00	92.7	90 - 110	X443196 - X4J0467-01	24-Oct-24	
EPA 300.0	Fluoride	mg/L	2.56	0.505	2.00	103	90 - 110	X443196 - X4J0467-01	24-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.15	0.139	2.00	100	90 - 110	X443196 - X4J0467-01	24-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.02	0.139	4.00	97.0	90 - 110	X443196 - X4J0467-01	24-Oct-24	
EPA 300.0	Nitrite as N	mg/L	1.87	<0.050	2.00	93.7	90 - 110	X443196 - X4J0467-01	24-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	47.1	37.1	10.0	100	90 - 110	X443196 - X4J0467-01	24-Oct-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	2.95	2.95	2.50	0.0	24	101	X443216 - X4J0432-01	
EPA 1631E	Mercury	ng/L	4.06	3.95	2.50	2.7	24	100	X443216 - X4J0464-01	
EPA 245.1	Mercury	mg/L	0.00205	0.00204	0.00200	0.7	20	103	X444208 - X4J0468-01	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.06	1.07	1.00	1.3	20	97.8	X444094 - X4J0442-01	
EPA 200.7	Beryllium	mg/L	0.969	1.01	1.00	4.2	20	96.9	X444094 - X4J0442-01	
EPA 200.7	Boron	mg/L	0.986	1.01	1.00	2.5	20	98.6	X444094 - X4J0442-01	
EPA 200.7	Calcium	mg/L	42.4	44.1	20.0	4.0	20	90	X444094 - X4J0442-01	
EPA 200.7	Chromium	mg/L	0.975	1.00	1.00	2.6	20	97.5	X444094 - X4J0442-01	
EPA 200.7	Iron	mg/L	9.94	10.3	10.0	3.4	20	97.7	X444094 - X4J0442-01	
EPA 200.7	Magnesium	mg/L	26.1	26.6	20.0	1.9	20	98.8	X444094 - X4J0442-01	
EPA 200.7	Manganese	mg/L	0.956	0.984	1.00	2.8	20	94.5	X444094 - X4J0442-01	
EPA 200.7	Molybdenum	mg/L	0.987	1.01	1.00	2.3	20	98.7	X444094 - X4J0442-01	
EPA 200.7	Nickel	mg/L	0.924	0.946	1.00	2.3	20	92.4	X444094 - X4J0442-01	
EPA 200.7	Phosphorus	mg/L	1.04	1.06	1.00	2.2	20	102	X444094 - X4J0442-01	
EPA 200.7	Potassium	mg/L	20.6	21.3	20.0	3.1	20	98.5	X444094 - X4J0442-01	
EPA 200.7	Sodium	mg/L	20.8	21.4	19.0	2.7	20	96.3	X444094 - X4J0442-01	
EPA 200.7	Zinc	mg/L	0.972	0.995	1.00	2.4	20	97.2	X444094 - X4J0442-01	
EPA 200.8	Antimony	mg/L	0.0253	0.0252	0.0250	0.4	20	101	X444099 - X4J0467-01	
EPA 200.8	Arsenic	mg/L	0.0248	0.0267	0.0250	7.4	20	96.8	X444099 - X4J0467-01	
EPA 200.8	Cadmium	mg/L	0.0259	0.0253	0.0250	2.4	20	104	X444099 - X4J0467-01	
EPA 200.8	Chromium	mg/L	0.0242	0.0263	0.0250	8.6	20	95.3	X444099 - X4J0467-01	
EPA 200.8	Copper	mg/L	0.0248	0.0264	0.0250	6.1	20	93.5	X444099 - X4J0467-01	
EPA 200.8	Lead	mg/L	0.0258	0.0256	0.0250	0.7	20	100	X444099 - X4J0467-01	
EPA 200.8	Selenium	mg/L	0.0240	0.0260	0.0250	8.0	20	94.0	X444099 - X4J0467-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.02	1.00	0.5	20	101	X444086 - X4J0373-01	
EPA 200.7	Barium	mg/L	1.04	1.05	1.00	0.7	20	96.6	X444086 - X4J0373-01	
EPA 200.7	Beryllium	mg/L	0.943	0.941	1.00	0.2	20	94.3	X444086 - X4J0373-01	
EPA 200.7	Calcium	mg/L	49.9	49.9	20.0	0.0	20	95.2	X444086 - X4J0373-01	
EPA 200.7	Iron	mg/L	9.77	9.76	10.0	0.2	20	97.1	X444086 - X4J0373-01	
EPA 200.7	Magnesium	mg/L	23.2	23.4	20.0	0.5	20	100	X444086 - X4J0373-01	
EPA 200.7	Manganese	mg/L	0.949	0.954	1.00	0.5	20	92.9	X444086 - X4J0373-01	
EPA 200.7	Molybdenum	mg/L	0.984	0.987	1.00	0.4	20	96.2	X444086 - X4J0373-01	
EPA 200.7	Nickel	mg/L	0.936	0.936	1.00	0.0	20	93.6	X444086 - X4J0373-01	
EPA 200.7	Potassium	mg/L	26.2	26.1	20.0	0.4	20	96.4	X444086 - X4J0373-01	
EPA 200.7	Sodium	mg/L	250	250	19.0	0.2	20	86.3	X444086 - X4J0373-01	
EPA 200.7	Zinc	mg/L	0.966	0.966	1.00	0.1	20	96.6	X444086 - X4J0373-01	
EPA 200.8	Antimony	mg/L	0.0256	0.0275	0.0250	7.2	20	99.5	X444190 - X4J0432-01	
EPA 200.8	Arsenic	mg/L	0.0262	0.0255	0.0250	2.6	20	105	X444190 - X4J0432-01	
EPA 200.8	Cadmium	mg/L	0.0256	0.0271	0.0250	5.9	20	102	X444190 - X4J0432-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0467**
Reported: 13-Nov-24 16:26

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 200.8	Chromium	mg/L	0.0249	0.0248	0.0250	0.5	20	98.3	X444190 - X4J0432-01	
EPA 200.8	Copper	mg/L	0.0252	0.0256	0.0250	1.4	20	101	X444190 - X4J0432-01	
EPA 200.8	Lead	mg/L	0.0251	0.0252	0.0250	0.3	20	100	X444190 - X4J0432-01	
EPA 200.8	Selenium	mg/L	0.0269	0.0275	0.0250	2.1	20	103	X444190 - X4J0432-01	
EPA 200.8	Silver	mg/L	0.0242	0.0257	0.0250	6.0	20	97.0	X444190 - X4J0432-01	
EPA 200.8	Thallium	mg/L	0.0249	0.0254	0.0250	2.3	20	99.4	X444190 - X4J0432-01	
EPA 200.8	Uranium	mg/L	0.0270	0.0279	0.0250	3.1	20	106	X444190 - X4J0432-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.110	0.0950	0.100	14.6	11	110	X443193 - X4J0418-01	R4
EPA 335.4	Cyanide (total)	mg/L	0.0998	0.102	0.100	2.2	20	99.8	X444013 - X4J0467-01	
EPA 350.1	Ammonia as N	mg/L	1.10	1.03	1.00	6.4	20	110	X444102 - X4J0477-04	B10
EPA 351.2	TKN	mg/L	8.10	7.95	8.00	1.9	20	101	X444278 - X4J0477-04	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.104	0.100	1.0	11	101	X444242 - X4J0350-01	
SM 4500 S D	Sulfide	mg/L	0.290	0.290	0.200	0.0	20	145	X443211 - X4J0419-03	M1
Dissolved Classical Chemistry Parameters										
SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0212	0.0212	0.0200	0.0	20	106	X445001 - X4J0467-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	34.2	34.1	3.00	0.3	20	96.2	X443196 - X4J0467-01	
EPA 300.0	Fluoride	mg/L	2.59	2.56	2.00	1.0	20	104	X443196 - X4J0467-01	
EPA 300.0	Nitrate as N	mg/L	2.13	2.15	2.00	0.5	20	99.7	X443196 - X4J0467-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.99	4.02	4.00	0.7	20	96.2	X443196 - X4J0467-01	
EPA 300.0	Nitrite as N	mg/L	1.86	1.87	2.00	1.0	20	92.8	X443196 - X4J0467-01	
EPA 300.0	Sulfate as SO4	mg/L	47.1	47.1	10.0	0.0	20	100	X443196 - X4J0467-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4J0467**
Victor, CO 80860	Reported: 13-Nov-24 16:26

Notes and Definitions

B10	Target analyte detected in method blank above laboratory acceptance limit but below reporting limit.
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.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
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: **X4J0497**
Victor, CO 80860	Reported: 06-Nov-24 14:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
OSABH-16	X4J0497-01	Ground Water	24-Oct-24 12:22	JL/TR	25-Oct-2024	Q5C
OSABH-17	X4J0497-02	Ground Water	24-Oct-24 13:11	JL/TR	25-Oct-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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0497

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: **X4J0497**
Reported: 06-Nov-24 14:07

Client Sample ID: **OSABH-16**
SVL Sample ID: **X4J0497-01 (Ground Water)**

Sampled: 24-Oct-24 12:22
Received: 25-Oct-24
Sampled By: JL/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**	493	mg/L	0.500	0.345	5	X444095	NMS	11/01/24 12:58	D11
EPA 200.7	**Magnesium**	527	mg/L	2.50	0.450	5	X444095	NMS	11/01/24 12:58	D11
EPA 200.7	**Potassium**	6.09	mg/L	2.50	0.90	5	X444095	NMS	11/01/24 12:58	D11
SM 2340 B	**Hardness (as CaCO3)**	3400	mg/L	11.5	2.71		N/A		10/30/24 16:57	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	2320	mg/L	0.800	0.540	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Barium**	0.0245	mg/L	0.0200	0.0190	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Beryllium**	0.841	mg/L	0.0200	0.00800	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	Boron	< 0.400	mg/L	0.400	0.0780	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Cadmium**	10.0	mg/L	0.0200	0.0160	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Calcium**	503	mg/L	1.00	0.690	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Chromium**	0.474	mg/L	0.0600	0.0200	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Cobalt**	7.48	mg/L	0.0600	0.0460	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Copper**	16.1	mg/L	0.100	0.0270	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Iron**	664	mg/L	1.00	0.560	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	Lead	< 0.0750	mg/L	0.0750	0.0490	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	Lithium	< 0.400	mg/L	0.400	0.250	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Magnesium**	607	mg/L	5.00	0.900	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Manganese**	1650	mg/L	0.800	0.340	100	X444086	SJN	10/30/24 16:16	D20a
EPA 200.7	Molybdenum	< 0.0800	mg/L	0.0800	0.0340	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Nickel**	5.18	mg/L	0.100	0.0480	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Potassium**	6.08	mg/L	5.00	1.80	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	Silver	< 0.0500	mg/L	0.0500	0.0190	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Sodium**	26.5	mg/L	5.00	1.20	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Vanadium**	0.0779	mg/L	0.0500	0.0190	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.7	**Zinc**	345	mg/L	0.100	0.0540	10	X444086	SJN	10/30/24 16:57	D20a
EPA 200.8	Antimony	< 0.0500	mg/L	0.0500	0.0360	50	X444191	JRR	11/06/24 10:25	D14,M4
EPA 200.8	Arsenic	< 0.500	mg/L	0.500	0.105	500	X444191	JRR	11/06/24 11:08	D14,D17
EPA 200.8	Selenium	< 0.500	mg/L	0.500	0.120	500	X444191	JRR	11/06/24 11:08	D14,D17,M4
EPA 200.8	Thallium	< 0.100	mg/L	0.100	0.0400	500	X444191	JRR	11/06/24 11:08	D14,D17,M4
EPA 200.8	**Uranium**	22.3	mg/L	0.0500	0.0260	500	X444191	JRR	11/06/24 11:08	D14,D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X444213	MAC	11/04/24 16:04	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0500	mg/L	0.0500	0.0480	10	X444019	DD	10/31/24 16:23	D13,Q12
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X445008	JPM	11/05/24 09:04	
EPA 350.1	**Ammonia as N**	0.077	mg/L	0.030	0.013		X444104	JPM	10/31/24 11:49	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X444242	DD	11/01/24 11:31	D13,Q12
SM 2310 B	**Acidity to pH 8.3**	16700	mg/L as CaCO3	10.0			X444177	MWD	10/31/24 12:33	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X444011	MWD	10/28/24 17:27	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X444011	MWD	10/28/24 17:27	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X444011	MWD	10/28/24 17:27	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X444011	MWD	10/28/24 17:27	
SM 2540 C	**Total Diss. Solids**	28900	mg/L	100			X444001	TJL	10/29/24 13:40	E11
SM 2540 D	**Total Susp. Solids**	227	mg/L	5.0			X444006	TJL	10/31/24 14:15	
SM 4500 H B	**pH @19.0°C**	2.8	pH Units				X444011	MWD	10/28/24 17:27	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: **X4J0497**
Reported: 06-Nov-24 14:07

Client Sample ID: **OSABH-16**
SVL Sample ID: **X4J0497-01 (Ground Water)**

Sampled: 24-Oct-24 12:22
Received: 25-Oct-24
Sampled By: JL/TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 10.0	mg/L	10.0	1.10	50	X443213	RS	10/25/24 17:02	D18
EPA 300.0	**Fluoride**	341	mg/L	100	17.0	1000	X443213	RS	10/25/24 17:18	
EPA 300.0	Nitrate as N	< 2.50	mg/L	2.50	0.650	50	X443213	RS	10/25/24 17:02	D18
EPA 300.0	Nitrate+Nitrite as N	< 5.00	mg/L	5.00	2.20	50	X443213	RS	10/25/24 17:02	D18
EPA 300.0	Nitrite as N	< 2.50	mg/L	2.50	1.55	50	X443213	RS	10/25/24 17:02	D18
EPA 300.0	**Sulfate as SO4**	20400	mg/L	300	180	1000	X443213	RS	10/25/24 17:18	

Cation/Anion Balance and TDS Ratios

Cation Sum: 422 meq/L Anion Sum: 443 meq/L C/A Balance: -2.38 % Calculated TDS: 21839 TDS/cTDS: 1.32

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0497**
Reported: 06-Nov-24 14:07

Client Sample ID: **OSABH-17**
SVL Sample ID: **X4J0497-02 (Ground Water)**

Sampled: 24-Oct-24 13:11
Received: 25-Oct-24
Sampled By: JL/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**	460	mg/L	1.00	0.690	10	X444095	NMS	11/01/24 13:02	D11
EPA 200.7	**Magnesium**	1480	mg/L	5.00	0.900	10	X444095	NMS	11/01/24 13:02	D11
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X444095	NMS	11/01/24 13:02	D11
SM 2340 B	**Hardness (as CaCO3)**	7230	mg/L	23.1	5.43		N/A		10/30/24 17:01	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	4370	mg/L	0.800	0.540	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	Barium	< 0.0200	mg/L	0.0200	0.0190	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	**Beryllium**	0.718	mg/L	0.0200	0.00800	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	Boron	< 0.400	mg/L	0.400	0.0780	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	**Cadmium**	9.21	mg/L	0.0200	0.0160	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	**Calcium**	452	mg/L	1.00	0.690	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	**Chromium**	1.30	mg/L	0.0600	0.0200	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	**Cobalt**	19.5	mg/L	0.0600	0.0460	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	**Copper**	19.7	mg/L	0.100	0.0270	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	**Iron**	821	mg/L	1.00	0.560	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	Lead	< 0.0750	mg/L	0.0750	0.0490	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	**Lithium**	0.905	mg/L	0.400	0.250	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	**Magnesium**	1440	mg/L	5.00	0.900	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	**Manganese**	1380	mg/L	0.800	0.340	100	X444086	SJN	10/30/24 16:20	D20a
EPA 200.7	**Molybdenum**	0.0838	mg/L	0.0800	0.0340	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	**Nickel**	14.8	mg/L	0.100	0.0480	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	Silver	< 0.0500	mg/L	0.0500	0.0190	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	**Sodium**	11.8	mg/L	5.00	1.20	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	**Vanadium**	0.0831	mg/L	0.0500	0.0190	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.7	**Zinc**	323	mg/L	0.100	0.0540	10	X444086	SJN	10/30/24 17:01	D20a
EPA 200.8	Antimony	< 0.500	mg/L	0.500	0.360	500	X444191	JRR	11/06/24 10:34	D11,D14
EPA 200.8	Arsenic	< 0.500	mg/L	0.500	0.105	500	X444191	JRR	11/06/24 10:34	D11,D14
EPA 200.8	Selenium	< 0.500	mg/L	0.500	0.120	500	X444191	JRR	11/06/24 10:34	D11,D14
EPA 200.8	Thallium	< 0.100	mg/L	0.100	0.0400	500	X444191	JRR	11/06/24 10:34	D11,D14
EPA 200.8	**Uranium**	17.8	mg/L	0.0500	0.0260	500	X444191	JRR	11/06/24 10:34	D11,D14
Metals (Filtered)										
EPA 245.1	**Mercury**	0.000265	mg/L	0.000200	0.000093		X444213	MAC	11/04/24 16:06	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X444019	DD	10/31/24 16:15	
EPA 335.4	**Cyanide (total)**	0.0302	mg/L	0.0050	0.0038		X445008	JPM	11/05/24 09:07	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X444104	JPM	10/31/24 11:51	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X444242	DD	11/01/24 11:32	D13,Q12
SM 2310 B	**Acidity to pH 8.3**	29100	mg/L as CaCO3	10.0			X444177	MWD	10/31/24 12:33	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X444011	MWD	10/28/24 17:32	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X444011	MWD	10/28/24 17:32	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X444011	MWD	10/28/24 17:32	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X444011	MWD	10/28/24 17:32	
SM 2540 C	**Total Diss. Solids**	52100	mg/L	100			X444001	TJL	10/29/24 13:40	E11
SM 2540 D	**Total Susp. Solids**	116	mg/L	5.0			X444006	TJL	10/31/24 14:15	
SM 4500 H B	**pH @19.1°C**	2.7	pH Units				X444011	MWD	10/28/24 17:32	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: **X4J0497**
Reported: 06-Nov-24 14:07

Client Sample ID: **OSABH-17**
SVL Sample ID: **X4J0497-02 (Ground Water)**

Sampled: 24-Oct-24 13:11
Received: 25-Oct-24
Sampled By: JL/TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	15.8	mg/L	10.0	1.10	50	X443213	RS	10/25/24 17:34	
EPA 300.0	**Fluoride**	519	mg/L	100	17.0	1000	X443213	RS	10/25/24 17:50	
EPA 300.0	Nitrate as N	< 2.50	mg/L	2.50	0.650	50	X443213	RS	10/25/24 17:34	D18
EPA 300.0	Nitrate+Nitrite as N	< 5.00	mg/L	5.00	2.20	50	X443213	RS	10/25/24 17:34	D18
EPA 300.0	Nitrite as N	< 2.50	mg/L	2.50	1.55	50	X443213	RS	10/25/24 17:34	D18
EPA 300.0	**Sulfate as SO4**	36500	mg/L	300	180	1000	X443213	RS	10/25/24 17:50	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 724 meq/L Anion Sum: 788 meq/L C/A Balance: -4.25 % Calculated TDS: 38963 TDS/cTDS: 1.34

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

Kristi A. Groth

Kristi A. Groth
Project Manager

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0497**
Reported: 06-Nov-24 14:07

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X444095	01-Nov-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X444095	01-Nov-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X444095	01-Nov-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X444086	30-Oct-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X444086	30-Oct-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X444086	30-Oct-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X444086	30-Oct-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X444086	30-Oct-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X444086	30-Oct-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X444086	30-Oct-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X444086	30-Oct-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X444086	30-Oct-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X444086	30-Oct-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X444086	30-Oct-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X444086	30-Oct-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X444086	30-Oct-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X444086	30-Oct-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X444086	30-Oct-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X444086	30-Oct-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X444086	30-Oct-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X444086	30-Oct-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X444086	30-Oct-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X444086	30-Oct-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X444086	30-Oct-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X444191	06-Nov-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X444191	06-Nov-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X444191	06-Nov-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X444191	06-Nov-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X444191	06-Nov-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X444213	04-Nov-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X444019	31-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X445008	05-Nov-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X444104	31-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X444242	01-Nov-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X444177	31-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X444011	28-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X444011	28-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X444011	28-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X444011	28-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X444001	29-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X444006	31-Oct-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X443213	25-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X443213	25-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X443213	25-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X443213	25-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X443213	25-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X443213	25-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0497**
Reported: 06-Nov-24 14:07

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.0	20.0	95	85 - 115	X444095	01-Nov-24	
EPA 200.7	Magnesium	mg/L	19.3	20.0	96.6	85 - 115	X444095	01-Nov-24	
EPA 200.7	Potassium	mg/L	20.3	20.0	101	85 - 115	X444095	01-Nov-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.913	1.00	91.3	85 - 115	X444086	30-Oct-24	
EPA 200.7	Barium	mg/L	0.970	1.00	97.0	85 - 115	X444086	30-Oct-24	
EPA 200.7	Beryllium	mg/L	0.922	1.00	92.2	85 - 115	X444086	30-Oct-24	
EPA 200.7	Boron	mg/L	0.917	1.00	91.7	85 - 115	X444086	30-Oct-24	
EPA 200.7	Cadmium	mg/L	0.921	1.00	92.1	85 - 115	X444086	30-Oct-24	
EPA 200.7	Calcium	mg/L	18.8	20.0	93.8	85 - 115	X444086	30-Oct-24	
EPA 200.7	Chromium	mg/L	0.938	1.00	93.8	85 - 115	X444086	30-Oct-24	
EPA 200.7	Cobalt	mg/L	0.915	1.00	91.5	85 - 115	X444086	30-Oct-24	
EPA 200.7	Copper	mg/L	0.929	1.00	92.9	85 - 115	X444086	30-Oct-24	
EPA 200.7	Iron	mg/L	9.50	10.0	95.0	85 - 115	X444086	30-Oct-24	
EPA 200.7	Lead	mg/L	0.925	1.00	92.5	85 - 115	X444086	30-Oct-24	
EPA 200.7	Lithium	mg/L	0.925	1.00	92.5	85 - 115	X444086	30-Oct-24	
EPA 200.7	Magnesium	mg/L	18.8	20.0	94.2	85 - 115	X444086	30-Oct-24	
EPA 200.7	Manganese	mg/L	0.930	1.00	93.0	85 - 115	X444086	30-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.947	1.00	94.7	85 - 115	X444086	30-Oct-24	
EPA 200.7	Nickel	mg/L	0.905	1.00	90.5	85 - 115	X444086	30-Oct-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.8	85 - 115	X444086	30-Oct-24	
EPA 200.7	Silver	mg/L	0.0487	0.0500	97.3	85 - 115	X444086	30-Oct-24	
EPA 200.7	Sodium	mg/L	18.1	19.0	95.4	85 - 115	X444086	30-Oct-24	
EPA 200.7	Vanadium	mg/L	0.960	1.00	96.0	85 - 115	X444086	30-Oct-24	
EPA 200.7	Zinc	mg/L	0.912	1.00	91.2	85 - 115	X444086	30-Oct-24	
EPA 200.8	Antimony	mg/L	0.0247	0.0250	98.8	85 - 115	X444191	06-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0256	0.0250	102	85 - 115	X444191	06-Nov-24	
EPA 200.8	Selenium	mg/L	0.0246	0.0250	98.5	85 - 115	X444191	06-Nov-24	
EPA 200.8	Thallium	mg/L	0.0257	0.0250	103	85 - 115	X444191	06-Nov-24	
EPA 200.8	Uranium	mg/L	0.0270	0.0250	108	85 - 115	X444191	06-Nov-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00211	0.00200	105	85 - 115	X444213	04-Nov-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0920	0.100	92.0	90 - 110	X444019	31-Oct-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X445008	05-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.04	1.00	104	90 - 110	X444104	31-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	0.100	97.0	90 - 110	X444242	01-Nov-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	719	706	102	95.4 - 104	X444177	31-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X444011	28-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X444011	28-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X444006	31-Oct-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.91	3.00	96.9	90 - 110	X443213	25-Oct-24	
EPA 300.0	Fluoride	mg/L	1.94	2.00	97.2	90 - 110	X443213	25-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.90	2.00	94.9	90 - 110	X443213	25-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.54	4.50	101	90 - 110	X443213	25-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.64	2.50	106	90 - 110	X443213	25-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	9.88	10.0	98.8	90 - 110	X443213	25-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0497**
Reported: 06-Nov-24 14:07

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	16700	16700	0.2	20	X444177 - X4J0497-01	31-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	132	132	0.1	20	X444011 - X4J0443-02	28-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	132	132	0.1	20	X444011 - X4J0443-02	28-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X444011 - X4J0443-02	28-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X444011 - X4J0443-02	28-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	281	280	0.4	10	X444001 - X4J0498-02	29-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X444006 - X4J0498-02	31-Oct-24	
SM 4500 H B	pH @17.6°C	pH Units	8.2	8.2	0.1	20	X444011 - X4J0443-02	28-Oct-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	63.6	43.8	20.0	99	70 - 130	X444095 - X4J0474-02	01-Nov-24	
EPA 200.7	Calcium	mg/L	64.9	46.3	20.0	93	70 - 130	X444095 - X4J0498-01	01-Nov-24	
EPA 200.7	Magnesium	mg/L	35.9	16.4	20.0	97.3	70 - 130	X444095 - X4J0474-02	01-Nov-24	
EPA 200.7	Magnesium	mg/L	21.4	1.82	20.0	98.1	70 - 130	X444095 - X4J0498-01	01-Nov-24	
EPA 200.7	Potassium	mg/L	23.9	2.73	20.0	106	70 - 130	X444095 - X4J0474-02	01-Nov-24	
EPA 200.7	Potassium	mg/L	24.3	3.27	20.0	105	70 - 130	X444095 - X4J0498-01	01-Nov-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.02	<0.080	1.00	102	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Barium	mg/L	1.05	0.0745	1.00	97.3	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Beryllium	mg/L	0.941	<0.00200	1.00	94.1	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Boron	mg/L	1.40	0.452	1.00	94.4	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Cadmium	mg/L	0.929	<0.0020	1.00	92.9	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Calcium	mg/L	49.9	30.8	20.0	95.3	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Chromium	mg/L	0.946	<0.0060	1.00	94.6	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Cobalt	mg/L	0.947	<0.0060	1.00	94.7	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Copper	mg/L	0.981	<0.0100	1.00	97.8	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Iron	mg/L	9.76	<0.100	10.0	96.9	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Lead	mg/L	0.930	<0.0075	1.00	93.0	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Lithium	mg/L	2.03	0.984	1.00	105	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Magnesium	mg/L	23.4	3.25	20.0	101	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Manganese	mg/L	0.954	0.0198	1.00	93.4	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Molybdenum	mg/L	0.987	0.0213	1.00	96.6	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Nickel	mg/L	0.936	<0.0100	1.00	93.6	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Potassium	mg/L	26.1	6.92	20.0	95.9	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Silver	mg/L	0.0474	<0.0050	0.0500	94.7	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Sodium	mg/L	250	234	19.0	84.2	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Vanadium	mg/L	0.985	<0.0050	1.00	98.5	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.7	Zinc	mg/L	0.966	<0.0100	1.00	96.6	70 - 130	X444086 - X4J0373-01	30-Oct-24	
EPA 200.8	Antimony	mg/L	0.0264	<0.00500	0.0250	106	70 - 130	X444191 - X4J0439-01	06-Nov-24	D20
EPA 200.8	Antimony	mg/L	<0.0500	<0.0500	0.0250	N/A	70 - 130	X444191 - X4J0497-01	06-Nov-24	D14,M4
EPA 200.8	Arsenic	mg/L	0.0254	<0.00500	0.0250	102	70 - 130	X444191 - X4J0439-01	06-Nov-24	D20
EPA 200.8	Arsenic	mg/L	<0.500	<0.500	0.0250	78.1	70 - 130	X444191 - X4J0497-01	06-Nov-24	D14,D17
EPA 200.8	Selenium	mg/L	0.0298	0.00775	0.0250	88.2	70 - 130	X444191 - X4J0439-01	06-Nov-24	D20
EPA 200.8	Selenium	mg/L	<0.500	<0.500	0.0250	N/A	70 - 130	X444191 - X4J0497-01	06-Nov-24	D14,D17,M4
EPA 200.8	Thallium	mg/L	0.0260	<0.00100	0.0250	104	70 - 130	X444191 - X4J0439-01	06-Nov-24	D20

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: **X4J0497**
Reported: 06-Nov-24 14:07

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Thallium	mg/L	<0.100	<0.100	0.0250	N/A	70 - 130	X444191 - X4J0497-01	06-Nov-24	D14,D17,M4
EPA 200.8	Uranium	mg/L	0.0528	0.0248	0.0250	112	70 - 130	X444191 - X4J0439-01	06-Nov-24	D20
EPA 200.8	Uranium	mg/L	22.2	22.3	0.0250	0.30R>S	70 - 130	X444191 - X4J0497-01	06-Nov-24	D14,D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00221	<0.000200	0.00200	104	70 - 130	X444213 - X4J0497-01	04-Nov-24	
EPA 245.1	Mercury	mg/L	0.00218	<0.000200	0.00200	109	70 - 130	X444213 - X4J0556-01	04-Nov-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0960	<0.0050	0.100	96.0	79 - 121	X444019 - X4J0476-12	31-Oct-24	R4
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X445008 - X4J0447-02	05-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.110	0.0090	0.100	101	90 - 110	X445008 - X4J0447-01	05-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.10	<0.030	1.00	110	90 - 110	X444104 - X4J0474-02	31-Oct-24	
EPA 350.1	Ammonia as N	mg/L	1.08	<0.030	1.00	108	90 - 110	X444104 - X4J0474-01	31-Oct-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	<0.0050	0.100	102	82 - 118	X444242 - X4J0350-01	01-Nov-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.39	1.50	3.00	96.2	90 - 110	X443213 - X4J0483-02	25-Oct-24	
EPA 300.0	Chloride	mg/L	21.1	17.9	3.00	106	90 - 110	X443213 - X4J0502-03	25-Oct-24	
EPA 300.0	Fluoride	mg/L	1.96	<0.100	2.00	96.9	90 - 110	X443213 - X4J0483-02	25-Oct-24	
EPA 300.0	Fluoride	mg/L	2.13	0.303	2.00	91.3	90 - 110	X443213 - X4J0502-03	25-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.95	0.057	2.00	94.5	90 - 110	X443213 - X4J0483-02	25-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.05	0.153	2.00	94.8	90 - 110	X443213 - X4J0502-03	25-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.82	<0.100	4.00	94.0	90 - 110	X443213 - X4J0483-02	25-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.15	0.160	4.00	99.7	90 - 110	X443213 - X4J0502-03	25-Oct-24	
EPA 300.0	Nitrite as N	mg/L	1.87	<0.050	2.00	93.6	90 - 110	X443213 - X4J0483-02	25-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.10	<0.050	2.00	105	90 - 110	X443213 - X4J0502-03	25-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	11.7	1.91	10.0	98.1	90 - 110	X443213 - X4J0483-02	25-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	118	107	10.0	103	90 - 110	X443213 - X4J0502-03	25-Oct-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	64.0	63.6	20.0	0.6	20	101	X444095 - X4J0474-02	
EPA 200.7	Magnesium	mg/L	36.2	35.9	20.0	1.0	20	99.0	X444095 - X4J0474-02	
EPA 200.7	Potassium	mg/L	24.1	23.9	20.0	0.9	20	107	X444095 - X4J0474-02	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	1.02	1.00	0.5	20	101	X444086 - X4J0373-01	
EPA 200.7	Barium	mg/L	1.04	1.05	1.00	0.7	20	96.6	X444086 - X4J0373-01	
EPA 200.7	Beryllium	mg/L	0.943	0.941	1.00	0.2	20	94.3	X444086 - X4J0373-01	
EPA 200.7	Boron	mg/L	1.39	1.40	1.00	0.3	20	94.0	X444086 - X4J0373-01	
EPA 200.7	Cadmium	mg/L	0.919	0.929	1.00	1.1	20	91.9	X444086 - X4J0373-01	
EPA 200.7	Calcium	mg/L	49.9	49.9	20.0	0.0	20	95.2	X444086 - X4J0373-01	
EPA 200.7	Chromium	mg/L	0.944	0.946	1.00	0.2	20	94.4	X444086 - X4J0373-01	
EPA 200.7	Cobalt	mg/L	0.946	0.947	1.00	0.0	20	94.6	X444086 - X4J0373-01	
EPA 200.7	Copper	mg/L	0.980	0.981	1.00	0.1	20	97.7	X444086 - X4J0373-01	
EPA 200.7	Iron	mg/L	9.77	9.76	10.0	0.2	20	97.1	X444086 - X4J0373-01	
EPA 200.7	Lead	mg/L	0.928	0.930	1.00	0.2	20	92.8	X444086 - X4J0373-01	
EPA 200.7	Lithium	mg/L	2.03	2.03	1.00	0.4	20	104	X444086 - X4J0373-01	

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0497**
Reported: 06-Nov-24 14:07

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Magnesium	mg/L	23.2	23.4	20.0	0.5	20	100	X444086 - X4J0373-01	
EPA 200.7	Manganese	mg/L	0.949	0.954	1.00	0.5	20	92.9	X444086 - X4J0373-01	
EPA 200.7	Molybdenum	mg/L	0.984	0.987	1.00	0.4	20	96.2	X444086 - X4J0373-01	
EPA 200.7	Nickel	mg/L	0.936	0.936	1.00	0.0	20	93.6	X444086 - X4J0373-01	
EPA 200.7	Potassium	mg/L	26.2	26.1	20.0	0.4	20	96.4	X444086 - X4J0373-01	
EPA 200.7	Silver	mg/L	0.0476	0.0474	0.0500	0.5	20	95.2	X444086 - X4J0373-01	
EPA 200.7	Sodium	mg/L	250	250	19.0	0.2	20	86.3	X444086 - X4J0373-01	
EPA 200.7	Vanadium	mg/L	0.983	0.985	1.00	0.2	20	98.3	X444086 - X4J0373-01	
EPA 200.7	Zinc	mg/L	0.966	0.966	1.00	0.1	20	96.6	X444086 - X4J0373-01	
EPA 200.8	Antimony	mg/L	0.0263	0.0264	0.0250	0.7	20	105	X444191 - X4J0439-01	D20
EPA 200.8	Arsenic	mg/L	0.0263	0.0254	0.0250	3.4	20	105	X444191 - X4J0439-01	D20
EPA 200.8	Selenium	mg/L	0.0324	0.0298	0.0250	8.4	20	98.7	X444191 - X4J0439-01	D20
EPA 200.8	Thallium	mg/L	0.0260	0.0260	0.0250	0.2	20	104	X444191 - X4J0439-01	D20
EPA 200.8	Uranium	mg/L	0.0516	0.0528	0.0250	2.5	20	107	X444191 - X4J0439-01	D20
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00226	0.00221	0.00200	2.1	20	107	X444213 - X4J0497-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0830	0.0960	0.100	14.5	11	83.0	X444019 - X4J0476-12	R4
EPA 335.4	Cyanide (total)	mg/L	0.0996	0.102	0.100	2.5	20	99.6	X445008 - X4J0447-02	
EPA 350.1	Ammonia as N	mg/L	1.06	1.10	1.00	3.7	20	106	X444104 - X4J0474-02	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.104	0.100	1.0	11	101	X444242 - X4J0350-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.45	4.39	3.00	1.4	20	98.4	X443213 - X4J0483-02	
EPA 300.0	Fluoride	mg/L	2.00	1.96	2.00	2.2	20	99.0	X443213 - X4J0483-02	
EPA 300.0	Nitrate as N	mg/L	1.99	1.95	2.00	2.2	20	96.7	X443213 - X4J0483-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.10	3.82	4.00	7.0	20	101	X443213 - X4J0483-02	
EPA 300.0	Nitrite as N	mg/L	2.11	1.87	2.00	11.7	20	105	X443213 - X4J0483-02	
EPA 300.0	Sulfate as SO4	mg/L	12.0	11.7	10.0	2.0	20	100	X443213 - X4J0483-02	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4J0497**
Victor, CO 80860	Reported: 06-Nov-24 14:07

Notes and Definitions

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.
D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
D20	samples contained high concentrations of non target analytes, sample diluted to mitigate effects of interferents on measurement accuracy
D20a	SAMPLES HIGH IN Mn, Al,Zn, DILUTED TO PRESERVE CALIBRATION AND AVOID SPECTRAL INTERFERENCES
E11	Sample exceeds method-specified limit for solids content.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
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: **X4J0531**
Victor, CO 80860	Reported: 15-Nov-24 08:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
Seep-1	X4J0531-01	Ground Water	28-Oct-24 08:40	TR	29-Oct-2024	Q5C
Seep-2	X4J0531-02	Ground Water	28-Oct-24 08:59	TR	29-Oct-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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0531

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: **X4J0531**
Reported: 15-Nov-24 08:32

Client Sample ID: **Seep-1**
SVL Sample ID: **X4J0531-01 (Ground Water)**

Sampled: 28-Oct-24 08:40
Received: 29-Oct-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**	406	mg/L	2.00	1.38	20	X445066	NMS	11/08/24 08:43	D11
EPA 200.7	**Magnesium**	844	mg/L	10.0	1.80	20	X445066	NMS	11/08/24 08:43	D11
EPA 200.7	Potassium	< 10.0	mg/L	10.0	3.60	20	X445066	NMS	11/08/24 08:43	D11
SM 2340 B	**Hardness (as CaCO3)**	4490	mg/L	46.2	10.9		N/A		11/11/24 13:59	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	3440	mg/L	0.800	0.540	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	Barium	< 0.0200	mg/L	0.0200	0.0190	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	**Beryllium**	0.495	mg/L	0.0200	0.00800	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	Boron	< 0.400	mg/L	0.400	0.0780	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	**Cadmium**	10.1	mg/L	0.0200	0.0160	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	**Calcium**	401	mg/L	1.00	0.690	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	**Chromium**	0.525	mg/L	0.0600	0.0200	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	**Cobalt**	10.2	mg/L	0.0600	0.0460	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	**Copper**	18.8	mg/L	0.100	0.0270	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	**Iron**	681	mg/L	1.00	0.560	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	Lead	< 0.0750	mg/L	0.0750	0.0490	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	Lithium	< 0.400	mg/L	0.400	0.250	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	**Magnesium**	829	mg/L	5.00	0.900	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	**Manganese**	960	mg/L	0.160	0.0680	20	X444248	SJN	11/11/24 13:09	D18
EPA 200.7	Molybdenum	< 0.0800	mg/L	0.0800	0.0340	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	**Nickel**	7.39	mg/L	0.100	0.0480	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	Silver	< 0.0500	mg/L	0.0500	0.0190	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	**Sodium**	47.7	mg/L	5.00	1.20	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	Vanadium	< 0.0500	mg/L	0.0500	0.0190	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.7	**Zinc**	172	mg/L	0.100	0.0540	10	X444248	SJN	11/11/24 13:59	D18
EPA 200.8	Antimony	< 0.500	mg/L	0.500	0.360	500	X444191	JRR	11/06/24 11:01	D11,D14
EPA 200.8	Arsenic	< 0.500	mg/L	0.500	0.105	500	X444191	JRR	11/06/24 11:01	D11,D14
EPA 200.8	Selenium	< 0.500	mg/L	0.500	0.120	500	X444191	JRR	11/06/24 11:01	D11,D14
EPA 200.8	Thallium	< 0.100	mg/L	0.100	0.0400	500	X444191	JRR	11/06/24 11:01	D11,D14
EPA 200.8	**Uranium**	10.9	mg/L	0.0500	0.0260	500	X444191	JRR	11/06/24 11:01	D11,D14
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X444213	MAC	11/04/24 16:21	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X445014	DD	11/14/24 12:19	H1
EPA 335.4	**Cyanide (total)**	0.0233	mg/L	0.0050	0.0038		X445008	JPM	11/05/24 09:10	
EPA 350.1	Ammonia as N	< 3.00	mg/L	3.00	1.27	100	X444228	JPM	11/01/24 11:18	D13
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X444242	DD	11/01/24 11:34	D13,Q12
SM 2310 B	**Acidity to pH 8.3**	23400	mg/L as CaCO3	10.0			X445171	MWD	11/07/24 12:14	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X444135	MWD	10/31/24 09:38	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X444135	MWD	10/31/24 09:38	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X444135	MWD	10/31/24 09:38	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X444135	MWD	10/31/24 09:38	
SM 2540 C	**Total Diss. Solids**	37000	mg/L	100			X444116	TJL	10/31/24 13:30	E11
SM 2540 D	**Total Susp. Solids**	75.0	mg/L	5.0			X444118	TJL	10/31/24 14:00	
SM 4500 H B	**pH @20.0°C**	2.7	pH Units				X444135	MWD	10/31/24 09:38	H5

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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0531**
Reported: 15-Nov-24 08:32

Client Sample ID: **Seep-1**
SVL Sample ID: **X4J0531-01 (Ground Water)**

Sampled: 28-Oct-24 08:40
Received: 29-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 10.0	mg/L	10.0	1.10	50	X444120	RS	10/29/24 17:45	D18
EPA 300.0	**Fluoride**	250	mg/L	100	17.0	1000	X444120	RS	10/29/24 18:01	
EPA 300.0	**Nitrate as N**	6.32	mg/L	2.50	0.650	50	X444120	RS	10/29/24 17:45	D18
EPA 300.0	**Nitrate+Nitrite as N**	6.32	mg/L	5.00	2.20	50	X444120	RS	10/29/24 17:45	D18
EPA 300.0	Nitrite as N	< 2.50	mg/L	2.50	1.55	50	X444120	RS	10/29/24 17:45	D18
EPA 300.0	**Sulfate as SO4**	27000	mg/L	300	180	1000	X444120	RS	10/29/24 18:01	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 558 meq/L Anion Sum: 576 meq/L C/A Balance: -1.54 % Calculated TDS: 28566 TDS/cTDS: 1.30

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0531**
Reported: 15-Nov-24 08:32

Client Sample ID: **Seep-2**
SVL Sample ID: **X4J0531-02 (Ground Water)**

Sampled: 28-Oct-24 08:59
Received: 29-Oct-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**	448	mg/L	10.0	6.90	100	X445066	NMS	11/08/24 08:47	D11
EPA 200.7	**Magnesium**	1320	mg/L	50.0	9.00	100	X445066	NMS	11/08/24 08:47	D11
EPA 200.7	Potassium	< 50.0	mg/L	50.0	18.0	100	X445066	NMS	11/08/24 08:47	D11
SM 2340 B	**Hardness (as CaCO3)**	6540	mg/L	231	54.3		N/A		11/11/24 13:13	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	9020	mg/L	1.60	1.08	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Barium**	0.0588	mg/L	0.0400	0.0380	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Beryllium**	0.778	mg/L	0.0400	0.0160	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	Boron	< 0.800	mg/L	0.800	0.156	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Cadmium**	42.6	mg/L	0.0400	0.0320	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Calcium**	447	mg/L	2.00	1.38	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Chromium**	1.95	mg/L	0.120	0.0400	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Cobalt**	26.5	mg/L	0.120	0.0920	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Copper**	99.8	mg/L	0.200	0.0540	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Iron**	6600	mg/L	2.00	1.12	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	Lead	< 0.150	mg/L	0.150	0.0980	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Lithium**	1.12	mg/L	0.800	0.500	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Magnesium**	1320	mg/L	10.0	1.80	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Manganese**	3280	mg/L	1.60	0.680	200	X444248	SJN	11/11/24 14:03	D18
EPA 200.7	**Molybdenum**	0.366	mg/L	0.160	0.0680	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Nickel**	15.8	mg/L	0.200	0.0960	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	Potassium	< 10.0	mg/L	10.0	3.60	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	Silver	< 0.100	mg/L	0.100	0.0380	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Sodium**	36.0	mg/L	10.0	2.40	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Vanadium**	0.918	mg/L	0.100	0.0380	20	X444248	SJN	11/11/24 13:13	D18
EPA 200.7	**Zinc**	1700	mg/L	2.00	1.08	200	X444248	SJN	11/11/24 14:03	D18
EPA 200.8	Antimony	< 1.00	mg/L	1.00	0.720	1000	X444191	JRR	11/06/24 11:04	D11,D14
EPA 200.8	**Arsenic**	8.82	mg/L	1.00	0.210	1000	X444191	JRR	11/06/24 11:04	D11,D14
EPA 200.8	Selenium	< 1.00	mg/L	1.00	0.240	1000	X444191	JRR	11/06/24 11:04	D11,D14
EPA 200.8	Thallium	< 0.200	mg/L	0.200	0.0800	1000	X444191	JRR	11/06/24 11:04	D11,D14
EPA 200.8	**Uranium**	63.2	mg/L	0.100	0.0520	1000	X444191	JRR	11/06/24 11:04	D11,D14
Metals (Filtered)										
EPA 245.1	**Mercury**	0.000495	mg/L	0.000200	0.000093		X444213	MAC	11/04/24 16:23	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X445014	DD	11/14/24 12:21	H1
EPA 335.4	**Cyanide (total)**	0.0254	mg/L	0.0050	0.0038		X445008	JPM	11/05/24 09:12	
EPA 350.1	**Ammonia as N**	3.80	mg/L	3.00	1.27	100	X444228	JPM	11/01/24 11:20	D13
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X444242	DD	11/01/24 11:35	D13,Q12
SM 2310 B	**Acidity to pH 8.3**	66800	mg/L as CaCO3	10.0			X445171	MWD	11/07/24 12:14	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X444135	MWD	10/31/24 09:44	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X444135	MWD	10/31/24 09:44	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X444135	MWD	10/31/24 09:44	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X444135	MWD	10/31/24 09:44	
SM 2540 C	**Total Diss. Solids**	109000	mg/L	100			X444116	TJL	10/31/24 13:30	E11
SM 2540 D	**Total Susp. Solids**	281	mg/L	5.0			X444118	TJL	10/31/24 14:00	
SM 4500 H B	**pH @19.9°C**	2.3	pH Units				X444135	MWD	10/31/24 09:44	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: **X4J0531**
Reported: 15-Nov-24 08:32

Client Sample ID: **Seep-2**
SVL Sample ID: **X4J0531-02 (Ground Water)**

Sampled: 28-Oct-24 08:59
Received: 29-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 20.0	mg/L	20.0	2.20	100	X444120	RS	10/29/24 18:17	D18
EPA 300.0	**Fluoride**	1480	mg/L	250	42.5	2500	X444120	RS	10/29/24 18:33	
EPA 300.0	Nitrate as N	< 5.00	mg/L	5.00	1.30	100	X444120	RS	10/29/24 18:17	D18
EPA 300.0	Nitrate+Nitrite as N	< 10.0	mg/L	10.0	4.40	100	X444120	RS	10/29/24 18:17	D18
EPA 300.0	Nitrite as N	< 5.00	mg/L	5.00	3.10	100	X444120	RS	10/29/24 18:17	D18
EPA 300.0	**Sulfate as SO4**	75400	mg/L	750	450	2500	X444120	RS	10/29/24 18:33	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1,547 meq/L Anion Sum: 1,648 meq/L C/A Balance: -3.16 % Calculated TDS: 78684 TDS/cTDS: 1.39

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0531**
Reported: 15-Nov-24 08:32

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	X445066	08-Nov-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X445066	08-Nov-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X445066	08-Nov-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X444248	11-Nov-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X444248	11-Nov-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X444248	11-Nov-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X444248	11-Nov-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X444248	11-Nov-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X444248	11-Nov-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X444248	11-Nov-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X444248	11-Nov-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X444248	11-Nov-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X444248	11-Nov-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X444248	11-Nov-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X444248	11-Nov-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X444248	11-Nov-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X444248	11-Nov-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X444248	11-Nov-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X444248	11-Nov-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X444248	11-Nov-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X444248	11-Nov-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X444248	11-Nov-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X444248	11-Nov-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X444248	11-Nov-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X444191	06-Nov-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X444191	06-Nov-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X444191	06-Nov-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X444191	06-Nov-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X444191	06-Nov-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X444213	04-Nov-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X445014	14-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X445008	05-Nov-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X444228	01-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X444242	01-Nov-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X445171	07-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X444135	31-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X444135	31-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X444135	31-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X444135	31-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X444116	31-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X444118	31-Oct-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X444120	29-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X444120	29-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X444120	29-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X444120	29-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X444120	29-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X444120	29-Oct-24	

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0531**
Reported: 15-Nov-24 08:32

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	20.2	20.0	101	85 - 115	X445066	08-Nov-24	
EPA 200.7	Magnesium	mg/L	20.3	20.0	102	85 - 115	X445066	08-Nov-24	
EPA 200.7	Potassium	mg/L	19.8	20.0	99.2	85 - 115	X445066	08-Nov-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.966	1.00	96.6	85 - 115	X444248	11-Nov-24	
EPA 200.7	Barium	mg/L	0.987	1.00	98.7	85 - 115	X444248	11-Nov-24	
EPA 200.7	Beryllium	mg/L	0.982	1.00	98.2	85 - 115	X444248	11-Nov-24	
EPA 200.7	Boron	mg/L	0.968	1.00	96.8	85 - 115	X444248	11-Nov-24	
EPA 200.7	Cadmium	mg/L	0.970	1.00	97.0	85 - 115	X444248	11-Nov-24	
EPA 200.7	Calcium	mg/L	19.8	20.0	98.9	85 - 115	X444248	11-Nov-24	
EPA 200.7	Chromium	mg/L	0.974	1.00	97.4	85 - 115	X444248	11-Nov-24	
EPA 200.7	Cobalt	mg/L	0.963	1.00	96.3	85 - 115	X444248	11-Nov-24	
EPA 200.7	Copper	mg/L	0.954	1.00	95.4	85 - 115	X444248	11-Nov-24	
EPA 200.7	Iron	mg/L	9.96	10.0	99.6	85 - 115	X444248	11-Nov-24	
EPA 200.7	Lead	mg/L	0.984	1.00	98.4	85 - 115	X444248	11-Nov-24	
EPA 200.7	Lithium	mg/L	0.963	1.00	96.3	85 - 115	X444248	11-Nov-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.7	85 - 115	X444248	11-Nov-24	
EPA 200.7	Manganese	mg/L	0.975	1.00	97.5	85 - 115	X444248	11-Nov-24	
EPA 200.7	Molybdenum	mg/L	0.982	1.00	98.2	85 - 115	X444248	11-Nov-24	
EPA 200.7	Nickel	mg/L	0.957	1.00	95.7	85 - 115	X444248	11-Nov-24	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.7	85 - 115	X444248	11-Nov-24	
EPA 200.7	Silver	mg/L	0.0483	0.0500	96.6	85 - 115	X444248	11-Nov-24	
EPA 200.7	Sodium	mg/L	18.8	19.0	99.2	85 - 115	X444248	11-Nov-24	
EPA 200.7	Vanadium	mg/L	0.987	1.00	98.7	85 - 115	X444248	11-Nov-24	
EPA 200.7	Zinc	mg/L	0.985	1.00	98.5	85 - 115	X444248	11-Nov-24	
EPA 200.8	Antimony	mg/L	0.0247	0.0250	98.8	85 - 115	X444191	06-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0256	0.0250	102	85 - 115	X444191	06-Nov-24	
EPA 200.8	Selenium	mg/L	0.0246	0.0250	98.5	85 - 115	X444191	06-Nov-24	
EPA 200.8	Thallium	mg/L	0.0257	0.0250	103	85 - 115	X444191	06-Nov-24	
EPA 200.8	Uranium	mg/L	0.0270	0.0250	108	85 - 115	X444191	06-Nov-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00211	0.00200	105	85 - 115	X444213	04-Nov-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0900	0.100	90.0	90 - 110	X445014	14-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X445008	05-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X444228	01-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	0.100	97.0	90 - 110	X444242	01-Nov-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	719	706	102	95.4 - 104	X445171	07-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.60	9.93	96.7	96.4 - 105	X444135	31-Oct-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	396	397	99.8	96.4 - 105	X444135	31-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X444118	31-Oct-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.95	3.00	98.3	90 - 110	X444120	29-Oct-24	
EPA 300.0	Fluoride	mg/L	1.94	2.00	97.1	90 - 110	X444120	29-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.93	2.00	96.3	90 - 110	X444120	29-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.59	4.50	102	90 - 110	X444120	29-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.67	2.50	107	90 - 110	X444120	29-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X444120	29-Oct-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: **X4J0531**
Reported: 15-Nov-24 08:32

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	23400	23400	0.0	20	X445171 - X4J0531-01	07-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	572	557	2.7	20	X444135 - X4J0532-01	31-Oct-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	572	557	2.7	20	X444135 - X4J0532-01	31-Oct-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X444135 - X4J0532-01	31-Oct-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X444135 - X4J0532-01	31-Oct-24	
SM 2540 C	Total Diss. Solids	mg/L	1220	1230	0.7	10	X444116 - X4J0532-05	31-Oct-24	
SM 2540 D	Total Susp. Solids	mg/L	15.0	<5.0	<RL	10	X444118 - X4J0535-01	31-Oct-24	R2B
SM 4500 H B	pH @19.9°C	pH Units	7.5	7.6	1.1	20	X444135 - X4J0532-01	31-Oct-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	60.9	41.0	20.0	100	70 - 130	X445066 - X4J0553-01	08-Nov-24	
EPA 200.7	Calcium	mg/L	577	547	20.0	0.30R>S	70 - 130	X445066 - X4J0556-03	08-Nov-24	D18,M4
EPA 200.7	Magnesium	mg/L	27.0	6.16	20.0	104	70 - 130	X445066 - X4J0553-01	08-Nov-24	
EPA 200.7	Magnesium	mg/L	602	568	20.0	0.30R>S	70 - 130	X445066 - X4J0556-03	08-Nov-24	D18,M4
EPA 200.7	Potassium	mg/L	21.9	2.03	20.0	99.3	70 - 130	X445066 - X4J0553-01	08-Nov-24	
EPA 200.7	Potassium	mg/L	28.2	7.08	20.0	106	70 - 130	X445066 - X4J0556-03	08-Nov-24	D18
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.974	<0.080	1.00	97.4	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Barium	mg/L	0.985	0.0084	1.00	97.6	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Beryllium	mg/L	0.973	<0.00200	1.00	97.3	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Boron	mg/L	0.964	<0.0400	1.00	96.4	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Cadmium	mg/L	0.975	<0.0020	1.00	97.5	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Calcium	mg/L	32.5	13.3	20.0	95.7	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Chromium	mg/L	0.974	<0.0060	1.00	97.4	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Cobalt	mg/L	0.960	<0.0060	1.00	96.0	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Copper	mg/L	0.953	<0.0100	1.00	95.3	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Iron	mg/L	9.74	<0.100	10.0	97.4	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Lead	mg/L	0.975	<0.0075	1.00	96.8	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Lithium	mg/L	0.960	<0.040	1.00	96.0	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Magnesium	mg/L	19.5	<0.500	20.0	97.1	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Manganese	mg/L	0.965	<0.0080	1.00	96.1	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Molybdenum	mg/L	0.978	<0.0080	1.00	97.8	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Nickel	mg/L	0.953	<0.0100	1.00	95.3	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Potassium	mg/L	19.7	<0.50	20.0	97.2	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Silver	mg/L	0.0480	<0.0050	0.0500	96.1	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Sodium	mg/L	18.8	<0.50	19.0	97.0	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Vanadium	mg/L	0.987	<0.0050	1.00	98.7	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Zinc	mg/L	0.980	<0.0100	1.00	98.0	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.8	Antimony	mg/L	0.0264	<0.00500	0.0250	106	70 - 130	X444191 - X4J0439-01	06-Nov-24	D20
EPA 200.8	Antimony	mg/L	<0.0500	<0.0500	0.0250	N/A	70 - 130	X444191 - X4J0497-01	06-Nov-24	D14,M4
EPA 200.8	Arsenic	mg/L	0.0254	<0.00500	0.0250	102	70 - 130	X444191 - X4J0439-01	06-Nov-24	D20
EPA 200.8	Arsenic	mg/L	<0.500	<0.500	0.0250	78.1	70 - 130	X444191 - X4J0497-01	06-Nov-24	D14,D17
EPA 200.8	Selenium	mg/L	0.0298	0.00775	0.0250	88.2	70 - 130	X444191 - X4J0439-01	06-Nov-24	D20
EPA 200.8	Selenium	mg/L	<0.500	<0.500	0.0250	N/A	70 - 130	X444191 - X4J0497-01	06-Nov-24	D14,D17,M4
EPA 200.8	Thallium	mg/L	0.0260	<0.00100	0.0250	104	70 - 130	X444191 - X4J0439-01	06-Nov-24	D20

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: **X4J0531**
Reported: 15-Nov-24 08:32

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Thallium	mg/L	<0.100	<0.100	0.0250	N/A	70 - 130	X444191 - X4J0497-01	06-Nov-24	D14,D17,M4
EPA 200.8	Uranium	mg/L	0.0528	0.0248	0.0250	112	70 - 130	X444191 - X4J0439-01	06-Nov-24	D20
EPA 200.8	Uranium	mg/L	22.2	22.3	0.0250	0.30R>S	70 - 130	X444191 - X4J0497-01	06-Nov-24	D14,D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00221	<0.000200	0.00200	104	70 - 130	X444213 - X4J0497-01	04-Nov-24	
EPA 245.1	Mercury	mg/L	0.00218	<0.000200	0.00200	109	70 - 130	X444213 - X4J0556-01	04-Nov-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0220	<0.0050	0.100	22.0	79 - 121	X445014 - X4J0556-01	14-Nov-24	M2
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X445008 - X4J0447-02	05-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.110	0.0090	0.100	101	90 - 110	X445008 - X4J0447-01	05-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.05	<0.030	1.00	103	90 - 110	X444228 - X4J0542-08	01-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.00	<0.030	1.00	100	90 - 110	X444228 - X4J0542-09	01-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	0.104	<0.0050	0.100	102	82 - 118	X444242 - X4J0350-01	01-Nov-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	22.1	19.5	3.00	0.30R>S	90 - 110	X444120 - X4J0503-02	29-Oct-24	M4
EPA 300.0	Chloride	mg/L	10.4	7.48	3.00	98.4	90 - 110	X444120 - X4J0542-08	30-Oct-24	
EPA 300.0	Fluoride	mg/L	2.25	0.393	2.00	92.6	90 - 110	X444120 - X4J0503-02	29-Oct-24	
EPA 300.0	Fluoride	mg/L	1.93	<0.100	2.00	92.6	90 - 110	X444120 - X4J0542-08	30-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.93	0.056	2.00	93.9	90 - 110	X444120 - X4J0503-02	29-Oct-24	
EPA 300.0	Nitrate as N	mg/L	2.07	0.190	2.00	94.1	90 - 110	X444120 - X4J0542-08	30-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.03	<0.100	4.00	99.2	90 - 110	X444120 - X4J0503-02	29-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.20	0.213	4.00	99.7	90 - 110	X444120 - X4J0542-08	30-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.09	<0.050	2.00	105	90 - 110	X444120 - X4J0503-02	29-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.13	<0.050	2.00	107	90 - 110	X444120 - X4J0542-08	30-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	112	103	10.0	0.30R>S	90 - 110	X444120 - X4J0503-02	29-Oct-24	M4
EPA 300.0	Sulfate as SO4	mg/L	20.8	10.8	10.0	99.5	90 - 110	X444120 - X4J0542-08	30-Oct-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	61.6	60.9	20.0	1.0	20	103	X445066 - X4J0553-01	
EPA 200.7	Magnesium	mg/L	27.2	27.0	20.0	0.9	20	105	X445066 - X4J0553-01	
EPA 200.7	Potassium	mg/L	22.0	21.9	20.0	0.5	20	99.9	X445066 - X4J0553-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.995	0.974	1.00	2.2	20	99.5	X444248 - X4J0552-01	
EPA 200.7	Barium	mg/L	0.998	0.985	1.00	1.3	20	98.9	X444248 - X4J0552-01	
EPA 200.7	Beryllium	mg/L	0.992	0.973	1.00	2.0	20	99.2	X444248 - X4J0552-01	
EPA 200.7	Boron	mg/L	0.974	0.964	1.00	1.0	20	97.4	X444248 - X4J0552-01	
EPA 200.7	Cadmium	mg/L	0.976	0.975	1.00	0.2	20	97.6	X444248 - X4J0552-01	
EPA 200.7	Calcium	mg/L	33.1	32.5	20.0	2.0	20	98.9	X444248 - X4J0552-01	
EPA 200.7	Chromium	mg/L	0.989	0.974	1.00	1.6	20	98.9	X444248 - X4J0552-01	
EPA 200.7	Cobalt	mg/L	0.968	0.960	1.00	0.8	20	96.8	X444248 - X4J0552-01	
EPA 200.7	Copper	mg/L	0.967	0.953	1.00	1.5	20	96.7	X444248 - X4J0552-01	
EPA 200.7	Iron	mg/L	10.0	9.74	10.0	2.8	20	100	X444248 - X4J0552-01	
EPA 200.7	Lead	mg/L	0.990	0.975	1.00	1.5	20	98.3	X444248 - X4J0552-01	
EPA 200.7	Lithium	mg/L	0.976	0.960	1.00	1.7	20	97.6	X444248 - X4J0552-01	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0531**
Reported: 15-Nov-24 08:32

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	Magnesium	mg/L	20.1	19.5	20.0	3.0	20	100	X444248 - X4J0552-01	
EPA 200.7	Manganese	mg/L	0.985	0.965	1.00	2.0	20	98.0	X444248 - X4J0552-01	
EPA 200.7	Molybdenum	mg/L	0.987	0.978	1.00	0.9	20	98.7	X444248 - X4J0552-01	
EPA 200.7	Nickel	mg/L	0.968	0.953	1.00	1.5	20	96.8	X444248 - X4J0552-01	
EPA 200.7	Potassium	mg/L	20.1	19.7	20.0	2.1	20	99.3	X444248 - X4J0552-01	
EPA 200.7	Silver	mg/L	0.0484	0.0480	0.0500	0.7	20	96.8	X444248 - X4J0552-01	
EPA 200.7	Sodium	mg/L	19.3	18.8	19.0	2.6	20	99.6	X444248 - X4J0552-01	
EPA 200.7	Vanadium	mg/L	0.999	0.987	1.00	1.1	20	99.9	X444248 - X4J0552-01	
EPA 200.7	Zinc	mg/L	0.994	0.980	1.00	1.4	20	99.4	X444248 - X4J0552-01	
EPA 200.8	Antimony	mg/L	0.0263	0.0264	0.0250	0.7	20	105	X444191 - X4J0439-01	D20
EPA 200.8	Arsenic	mg/L	0.0263	0.0254	0.0250	3.4	20	105	X444191 - X4J0439-01	D20
EPA 200.8	Selenium	mg/L	0.0324	0.0298	0.0250	8.4	20	98.7	X444191 - X4J0439-01	D20
EPA 200.8	Thallium	mg/L	0.0260	0.0260	0.0250	0.2	20	104	X444191 - X4J0439-01	D20
EPA 200.8	Uranium	mg/L	0.0516	0.0528	0.0250	2.5	20	107	X444191 - X4J0439-01	D20
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00226	0.00221	0.00200	2.1	20	107	X444213 - X4J0497-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0220	0.0220	0.100	0.0	11	22.0	X445014 - X4J0556-01	M2
EPA 335.4	Cyanide (total)	mg/L	0.0996	0.102	0.100	2.5	20	99.6	X445008 - X4J0447-02	
EPA 350.1	Ammonia as N	mg/L	1.03	1.05	1.00	1.8	20	101	X444228 - X4J0542-08	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.104	0.100	1.0	11	101	X444242 - X4J0350-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	10.5	10.4	3.00	0.5	20	99.9	X444120 - X4J0542-08	
EPA 300.0	Fluoride	mg/L	1.95	1.93	2.00	1.3	20	93.8	X444120 - X4J0542-08	
EPA 300.0	Nitrate as N	mg/L	2.08	2.07	2.00	0.5	20	94.7	X444120 - X4J0542-08	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.24	4.20	4.00	0.8	20	101	X444120 - X4J0542-08	
EPA 300.0	Nitrite as N	mg/L	2.15	2.13	2.00	1.1	20	108	X444120 - X4J0542-08	
EPA 300.0	Sulfate as SO4	mg/L	20.9	20.8	10.0	0.7	20	101	X444120 - X4J0542-08	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4J0531**
Victor, CO 80860	Reported: 15-Nov-24 08:32

Notes and Definitions

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.
D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
D18	Due to a published chemical interference, a sample dilution was performed.
D20	samples contained high concentrations of non target analytes, sample diluted to mitigate effects of interferents on measurement accuracy
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.
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	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4J0556**
Victor, CO 80860	Reported: 15-Nov-24 08:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-34	X4J0556-01	Ground Water	29-Oct-24 07:32	TR	30-Oct-2024	
GVMW-35B	X4J0556-02	Ground Water	29-Oct-24 07:54	TR	30-Oct-2024	
GVMW-36	X4J0556-03	Ground Water	29-Oct-24 08:15	TR	30-Oct-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.
This report shall not be reproduced except in full, without the written approval of SVL Analytical, Inc.

Case Narrative: X4J0556

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: **X4J0556**
Reported: 15-Nov-24 08:51

Client Sample ID: **GVMW-34**
SVL Sample ID: **X4J0556-01 (Ground Water)**

Sampled: 29-Oct-24 07:32
Received: 30-Oct-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**	675	mg/L	0.500	0.345	5	X445066	NMS	11/08/24 10:40	
EPA 200.7	**Magnesium**	306	mg/L	0.500	0.090		X445066	NMS	11/08/24 09:08	
EPA 200.7	**Potassium**	4.84	mg/L	0.50	0.18		X445066	NMS	11/08/24 09:08	
SM 2340 B	**Hardness (as CaCO3)**	2940	mg/L	2.31	0.543		N/A		11/11/24 13:44	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	9.40	mg/L	0.080	0.054		X444248	SJN	11/11/24 13:44	
EPA 200.7	**Barium**	0.0333	mg/L	0.0020	0.0019		X444248	SJN	11/11/24 13:44	
EPA 200.7	**Beryllium**	0.00960	mg/L	0.00200	0.00080		X444248	SJN	11/11/24 13:44	
EPA 200.7	**Boron**	0.0430	mg/L	0.0400	0.0078		X444248	SJN	11/11/24 13:44	
EPA 200.7	**Cadmium**	0.0376	mg/L	0.0020	0.0016		X444248	SJN	11/11/24 13:44	
EPA 200.7	**Calcium**	671	mg/L	0.100	0.069		X444248	SJN	11/11/24 13:44	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X444248	SJN	11/11/24 13:44	
EPA 200.7	**Cobalt**	0.0342	mg/L	0.0060	0.0046		X444248	SJN	11/11/24 13:44	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X444248	SJN	11/11/24 13:44	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X444248	SJN	11/11/24 13:44	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X444248	SJN	11/11/24 13:44	
EPA 200.7	**Lithium**	0.151	mg/L	0.040	0.025		X444248	SJN	11/11/24 13:44	
EPA 200.7	**Magnesium**	276	mg/L	0.500	0.090		X444248	SJN	11/11/24 13:44	
EPA 200.7	**Manganese**	52.8	mg/L	0.0080	0.0034		X444248	SJN	11/11/24 13:44	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X444248	SJN	11/11/24 13:44	
EPA 200.7	**Nickel**	0.260	mg/L	0.0100	0.0048		X444248	SJN	11/11/24 13:44	
EPA 200.7	**Potassium**	4.37	mg/L	0.50	0.18		X444248	SJN	11/11/24 13:44	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X444248	SJN	11/11/24 13:44	
EPA 200.7	**Sodium**	48.7	mg/L	0.50	0.12		X444248	SJN	11/11/24 13:44	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X444248	SJN	11/11/24 13:44	
EPA 200.7	**Zinc**	5.37	mg/L	0.0100	0.0054		X444248	SJN	11/11/24 13:44	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X446028	SMU	11/14/24 13:53	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X446028	SMU	11/14/24 13:53	
EPA 200.8	**Selenium**	0.0126	mg/L	0.00100	0.00024		X446028	SMU	11/14/24 13:53	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X446028	SMU	11/14/24 13:53	
EPA 200.8	**Uranium**	0.0218	mg/L	0.000100	0.000052		X446028	SMU	11/14/24 13:53	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X444213	MAC	11/04/24 16:25	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X445014	DD	11/14/24 12:23	H1,M2
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X445008	JPM	11/05/24 09:15	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X444229	JPM	11/01/24 13:31	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X444242	DD	11/01/24 11:37	
SM 2310 B	**Acidity to pH 8.3**	-220	mg/L as CaCO3	10.0			X445171	MWD	11/07/24 12:14	
SM 2320 B	**Total Alkalinity**	225	mg/L as CaCO3	1.0			X444257	MWD	11/01/24 15:48	
SM 2320 B	**Bicarbonate**	225	mg/L as CaCO3	1.0			X444257	MWD	11/01/24 15:48	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X444257	MWD	11/01/24 15:48	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X444257	MWD	11/01/24 15:48	
SM 2540 C	**Total Diss. Solids**	3820	mg/L	40			X444174	TJL	11/01/24 13:00	
SM 2540 D	**Total Susp. Solids**	46.0	mg/L	5.0			X444175	TJL	11/04/24 07:50	
SM 4500 H B	**pH @20.0°C**	6.1	pH Units				X444257	MWD	11/01/24 15:48	H5

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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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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: **X4J0556**
Reported: 15-Nov-24 08:51

Client Sample ID: **GVMW-34**
SVL Sample ID: **X4J0556-01 (Ground Water)**

Sampled: 29-Oct-24 07:32
Received: 30-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	29.3	mg/L	1.00	0.11	5	X444159	RS	10/30/24 14:43	
EPA 300.0	**Fluoride**	18.1	mg/L	0.500	0.085	5	X444159	RS	10/30/24 14:43	
EPA 300.0	**Nitrate as N**	10.7	mg/L	0.250	0.065	5	X444159	RS	10/30/24 14:43	
EPA 300.0	**Nitrate+Nitrite as N**	10.8	mg/L	0.500	0.220	5	X444159	RS	10/30/24 14:43	
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X444159	RS	10/30/24 14:43	D18
EPA 300.0	**Sulfate as SO4**	2640	mg/L	30.0	18.0	100	X444159	RS	10/30/24 14:59	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 61.6 meq/L Anion Sum: 62.0 meq/L C/A Balance: -0.34 % Calculated TDS: 3888 TDS/cTDS: 0.98

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

Kristi A. Groth

Kristi A. Groth
Project Manager

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0556**
Reported: 15-Nov-24 08:51

Client Sample ID: **GVMW-35B**
SVL Sample ID: **X4J0556-02 (Ground Water)**

Sampled: 29-Oct-24 07:54
Received: 30-Oct-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**	392	mg/L	0.100	0.069		X445066	NMS	11/08/24 09:12	
EPA 200.7	**Magnesium**	116	mg/L	0.500	0.090		X445066	NMS	11/08/24 09:12	
EPA 200.7	**Potassium**	7.00	mg/L	0.50	0.18		X445066	NMS	11/08/24 09:12	
SM 2340 B	**Hardness (as CaCO3)**	1460	mg/L	2.31	0.543		N/A		11/11/24 13:48	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X444248	SJN	11/11/24 13:48	
EPA 200.7	**Barium**	0.0260	mg/L	0.0020	0.0019		X444248	SJN	11/11/24 13:48	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X444248	SJN	11/11/24 13:48	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X444248	SJN	11/11/24 13:48	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X444248	SJN	11/11/24 13:48	
EPA 200.7	**Calcium**	370	mg/L	0.100	0.069		X444248	SJN	11/11/24 13:48	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X444248	SJN	11/11/24 13:48	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X444248	SJN	11/11/24 13:48	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X444248	SJN	11/11/24 13:48	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X444248	SJN	11/11/24 13:48	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X444248	SJN	11/11/24 13:48	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X444248	SJN	11/11/24 13:48	
EPA 200.7	**Magnesium**	107	mg/L	0.500	0.090		X444248	SJN	11/11/24 13:48	
EPA 200.7	**Manganese**	0.953	mg/L	0.0080	0.0034		X444248	SJN	11/11/24 13:48	
EPA 200.7	**Molybdenum**	0.0107	mg/L	0.0080	0.0034		X444248	SJN	11/11/24 13:48	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X444248	SJN	11/11/24 13:48	
EPA 200.7	**Potassium**	6.55	mg/L	0.50	0.18		X444248	SJN	11/11/24 13:48	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X444248	SJN	11/11/24 13:48	
EPA 200.7	**Sodium**	18.1	mg/L	0.50	0.12		X444248	SJN	11/11/24 13:48	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X444248	SJN	11/11/24 13:48	
EPA 200.7	**Zinc**	0.0173	mg/L	0.0100	0.0054		X444248	SJN	11/11/24 13:48	
EPA 200.8	**Antimony**	0.00204	mg/L	0.00100	0.00072		X446028	SMU	11/14/24 14:02	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X446028	SMU	11/14/24 14:02	
EPA 200.8	**Selenium**	0.00370	mg/L	0.00100	0.00024		X446028	SMU	11/14/24 14:02	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X446028	SMU	11/14/24 14:02	
EPA 200.8	**Uranium**	0.00344	mg/L	0.000100	0.000052		X446028	SMU	11/14/24 14:02	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X444213	MAC	11/04/24 16:27	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X445014	DD	11/14/24 12:25	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X445008	JPM	11/05/24 09:18	
EPA 350.1	**Ammonia as N**	0.142	mg/L	0.030	0.013		X444229	JPM	11/01/24 13:33	M2
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X444242	DD	11/01/24 11:43	
SM 2310 B	**Acidity to pH 8.3**	-57.7	mg/L as CaCO3	10.0			X445171	MWD	11/07/24 12:14	
SM 2320 B	**Total Alkalinity**	58.2	mg/L as CaCO3	1.0			X444257	MWD	11/01/24 15:53	
SM 2320 B	**Bicarbonate**	54.0	mg/L as CaCO3	1.0			X444257	MWD	11/01/24 15:53	
SM 2320 B	**Carbonate**	4.3	mg/L as CaCO3	1.0			X444257	MWD	11/01/24 15:53	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X444257	MWD	11/01/24 15:53	
SM 2540 C	**Total Diss. Solids**	1880	mg/L	40			X444174	TJL	11/01/24 13:00	
SM 2540 D	**Total Susp. Solids**	90.0	mg/L	5.0			X444175	TJL	11/04/24 07:50	
SM 4500 H B	**pH @19.8°C**	8.5	pH Units				X444257	MWD	11/01/24 15:53	H5

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

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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0556**
Reported: 15-Nov-24 08:51

Client Sample ID: **GVMW-35B**
SVL Sample ID: **X4J0556-02 (Ground Water)**

Sampled: 29-Oct-24 07:54
Received: 30-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	79.0	mg/L	10.0	1.10	50	X444159	RS	10/30/24 15:30	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X444159	RS	10/30/24 15:15	
EPA 300.0	**Nitrate as N**	9.90	mg/L	2.50	0.650	50	X444159	RS	10/30/24 15:30	
EPA 300.0	**Nitrate+Nitrite as N**	9.96	mg/L	0.100	0.044		X444159	RS	10/30/24 15:15	
EPA 300.0	**Nitrite as N**	0.065	mg/L	0.050	0.031		X444159	RS	10/30/24 15:15	
EPA 300.0	**Sulfate as SO4**	1190	mg/L	15.0	9.00	50	X444159	RS	10/30/24 15:30	
Cation/Anion Balance and TDS Ratios										

Cation Sum: 28.3 meq/L Anion Sum: 28.9 meq/L C/A Balance: -1.05 % Calculated TDS: 1865 TDS/cTDS: 1.01

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

Kristi A. Groth

Kristi A. Groth
Project Manager

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0556**
Reported: 15-Nov-24 08:51

Client Sample ID: **GVMW-36**
SVL Sample ID: **X4J0556-03 (Ground Water)**

Sampled: 29-Oct-24 08:15
Received: 30-Oct-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**	547	mg/L	0.500	0.345	5	X445066	NMS	11/08/24 10:44	D18,M4
EPA 200.7	**Magnesium**	568	mg/L	2.50	0.450	5	X445066	NMS	11/08/24 10:44	D18,M4
EPA 200.7	**Potassium**	7.08	mg/L	2.50	0.90	5	X445066	NMS	11/08/24 10:44	D18
SM 2340 B	**Hardness (as CaCO3)**	3710	mg/L	10.5	2.03		N/A		11/11/24 13:51	
Metals (Dissolved)										
EPA 200.7	**Aluminum**	911	mg/L	0.800	0.540	10	X444248	SJN	11/11/24 20:36	
EPA 200.7	**Barium**	0.0224	mg/L	0.0020	0.0019		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Beryllium**	0.216	mg/L	0.00200	0.00080		X444248	SJN	11/11/24 13:51	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Cadmium**	2.07	mg/L	0.0020	0.0016		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Calcium**	550	mg/L	0.100	0.069		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Chromium**	0.222	mg/L	0.0060	0.0020		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Cobalt**	4.02	mg/L	0.0060	0.0046		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Copper**	4.71	mg/L	0.0100	0.0027		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Iron**	55.7	mg/L	0.100	0.056		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Lead**	0.0712	mg/L	0.0075	0.0049		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Lithium**	0.214	mg/L	0.040	0.025		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Magnesium**	555	mg/L	0.500	0.090		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Manganese**	226	mg/L	0.0800	0.0340	10	X444248	SJN	11/11/24 20:36	
EPA 200.7	**Molybdenum**	0.0161	mg/L	0.0080	0.0034		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Nickel**	3.54	mg/L	0.0100	0.0048		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Potassium**	6.90	mg/L	0.50	0.18		X444248	SJN	11/11/24 13:51	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Sodium**	44.3	mg/L	0.50	0.12		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Vanadium**	0.0059	mg/L	0.0050	0.0019		X444248	SJN	11/11/24 13:51	
EPA 200.7	**Zinc**	88.1	mg/L	0.100	0.0540	10	X444248	SJN	11/11/24 20:36	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X446028	SMU	11/14/24 14:04	
EPA 200.8	**Arsenic**	0.0758	mg/L	0.00100	0.00021		X446028	SMU	11/14/24 14:04	
EPA 200.8	**Selenium**	0.0162	mg/L	0.00100	0.00024		X446028	SMU	11/14/24 14:04	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X446028	SMU	11/14/24 14:04	
EPA 200.8	**Uranium**	5.23	mg/L	0.00100	0.000520	10	X446028	SMU	11/14/24 15:02	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X444213	MAC	11/04/24 16:29	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X445014	DD	11/14/24 12:27	H1
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X445008	JPM	11/05/24 09:20	
EPA 350.1	**Ammonia as N**	0.123	mg/L	0.030	0.013		X444229	JPM	11/01/24 13:34	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X444242	DD	11/01/24 11:44	
SM 2310 B	**Acidity to pH 8.3**	5940	mg/L as CaCO3	10.0			X445171	MWD	11/07/24 12:14	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X444257	MWD	11/01/24 15:59	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X444257	MWD	11/01/24 15:59	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X444257	MWD	11/01/24 15:59	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X444257	MWD	11/01/24 15:59	
SM 2540 C	**Total Diss. Solids**	12800	mg/L	100			X444174	TJL	11/01/24 13:00	
SM 2540 D	**Total Susp. Solids**	50.0	mg/L	5.0			X444175	TJL	11/04/24 07:50	
SM 4500 H B	**pH @19.9°C**	3.3	pH Units				X444257	MWD	11/01/24 15:59	H5

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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0556**
Reported: 15-Nov-24 08:51

Client Sample ID: **GVMW-36**
SVL Sample ID: **X4J0556-03 (Ground Water)**

Sampled: 29-Oct-24 08:15
Received: 30-Oct-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.16	mg/L	2.00	0.22	10	X444159	RS	10/30/24 15:46	D18
EPA 300.0	**Fluoride**	105	mg/L	25.0	4.25	250	X444159	RS	10/30/24 16:02	
EPA 300.0	**Nitrate as N**	1.77	mg/L	0.500	0.130	10	X444159	RS	10/30/24 15:46	D18
EPA 300.0	**Nitrate+Nitrite as N**	1.77	mg/L	1.00	0.440	10	X444159	RS	10/30/24 15:46	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X444159	RS	10/30/24 15:46	D18
EPA 300.0	**Sulfate as SO4**	9430	mg/L	75.0	45.0	250	X444159	RS	10/30/24 16:02	

Cation/Anion Balance and TDS Ratios

Cation Sum: 194 meq/L Anion Sum: 202 meq/L C/A Balance: -2.11 % Calculated TDS: 10712 TDS/cTDS: 1.19

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

Kristi A. Groth

Kristi A. Groth
Project Manager

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0556**
Reported: 15-Nov-24 08:51

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	X445066	08-Nov-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X445066	08-Nov-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X445066	08-Nov-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X444248	11-Nov-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X444248	11-Nov-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X444248	11-Nov-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X444248	11-Nov-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X444248	11-Nov-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X444248	11-Nov-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X444248	11-Nov-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X444248	11-Nov-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X444248	11-Nov-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X444248	11-Nov-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X444248	11-Nov-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X444248	11-Nov-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X444248	11-Nov-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X444248	11-Nov-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X444248	11-Nov-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X444248	11-Nov-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X444248	11-Nov-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X444248	11-Nov-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X444248	11-Nov-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X444248	11-Nov-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X444248	11-Nov-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X446028	14-Nov-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X446028	14-Nov-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X446028	14-Nov-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X446028	14-Nov-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X446028	14-Nov-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X444213	04-Nov-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X445014	14-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X445008	05-Nov-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X444229	01-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X444242	01-Nov-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X445171	07-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X444257	01-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X444257	01-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X444257	01-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X444257	01-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X444174	01-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X444175	04-Nov-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X444159	30-Oct-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X444159	30-Oct-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X444159	30-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X444159	30-Oct-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X444159	30-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X444159	30-Oct-24	

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Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0556**
Reported: 15-Nov-24 08:51

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	20.2	20.0	101	85 - 115	X445066	08-Nov-24	
EPA 200.7	Magnesium	mg/L	20.3	20.0	102	85 - 115	X445066	08-Nov-24	
EPA 200.7	Potassium	mg/L	19.8	20.0	99.2	85 - 115	X445066	08-Nov-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.966	1.00	96.6	85 - 115	X444248	11-Nov-24	
EPA 200.7	Barium	mg/L	0.987	1.00	98.7	85 - 115	X444248	11-Nov-24	
EPA 200.7	Beryllium	mg/L	0.982	1.00	98.2	85 - 115	X444248	11-Nov-24	
EPA 200.7	Boron	mg/L	0.968	1.00	96.8	85 - 115	X444248	11-Nov-24	
EPA 200.7	Cadmium	mg/L	0.970	1.00	97.0	85 - 115	X444248	11-Nov-24	
EPA 200.7	Calcium	mg/L	19.8	20.0	98.9	85 - 115	X444248	11-Nov-24	
EPA 200.7	Chromium	mg/L	0.974	1.00	97.4	85 - 115	X444248	11-Nov-24	
EPA 200.7	Cobalt	mg/L	0.963	1.00	96.3	85 - 115	X444248	11-Nov-24	
EPA 200.7	Copper	mg/L	0.954	1.00	95.4	85 - 115	X444248	11-Nov-24	
EPA 200.7	Iron	mg/L	9.96	10.0	99.6	85 - 115	X444248	11-Nov-24	
EPA 200.7	Lead	mg/L	0.984	1.00	98.4	85 - 115	X444248	11-Nov-24	
EPA 200.7	Lithium	mg/L	0.963	1.00	96.3	85 - 115	X444248	11-Nov-24	
EPA 200.7	Magnesium	mg/L	19.9	20.0	99.7	85 - 115	X444248	11-Nov-24	
EPA 200.7	Manganese	mg/L	0.975	1.00	97.5	85 - 115	X444248	11-Nov-24	
EPA 200.7	Molybdenum	mg/L	0.982	1.00	98.2	85 - 115	X444248	11-Nov-24	
EPA 200.7	Nickel	mg/L	0.957	1.00	95.7	85 - 115	X444248	11-Nov-24	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.7	85 - 115	X444248	11-Nov-24	
EPA 200.7	Silver	mg/L	0.0483	0.0500	96.6	85 - 115	X444248	11-Nov-24	
EPA 200.7	Sodium	mg/L	18.8	19.0	99.2	85 - 115	X444248	11-Nov-24	
EPA 200.7	Vanadium	mg/L	0.987	1.00	98.7	85 - 115	X444248	11-Nov-24	
EPA 200.7	Zinc	mg/L	0.985	1.00	98.5	85 - 115	X444248	11-Nov-24	
EPA 200.8	Antimony	mg/L	0.0227	0.0250	91.0	85 - 115	X446028	14-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0219	0.0250	87.5	85 - 115	X446028	14-Nov-24	
EPA 200.8	Selenium	mg/L	0.0215	0.0250	85.9	85 - 115	X446028	14-Nov-24	
EPA 200.8	Thallium	mg/L	0.0237	0.0250	94.9	85 - 115	X446028	14-Nov-24	
EPA 200.8	Uranium	mg/L	0.0259	0.0250	104	85 - 115	X446028	14-Nov-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00211	0.00200	105	85 - 115	X444213	04-Nov-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0900	0.100	90.0	90 - 110	X445014	14-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X445008	05-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.02	1.00	102	90 - 110	X444229	01-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	0.100	97.0	90 - 110	X444242	01-Nov-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	719	706	102	95.4 - 104	X445171	07-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X444257	01-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	103	96.4 - 105	X444257	01-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X444175	04-Nov-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.95	3.00	98.2	90 - 110	X444159	30-Oct-24	
EPA 300.0	Fluoride	mg/L	1.97	2.00	98.6	90 - 110	X444159	30-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.94	2.00	97.2	90 - 110	X444159	30-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.60	4.50	102	90 - 110	X444159	30-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.66	2.50	106	90 - 110	X444159	30-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X444159	30-Oct-24	

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Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0556**
Reported: 15-Nov-24 08:51

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	23400	23400	0.0	20	X445171 - X4J0531-01	07-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	58.2	58.2	0.0	20	X444257 - X4J0556-02	01-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	51.8	54.0	4.2	20	X444257 - X4J0556-02	01-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X444257 - X4J0556-02	01-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	241	243	0.8	10	X444174 - X4J0582-01	01-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	367	373	1.6	10	X444174 - X4J0560-02	01-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X444175 - X4J0560-02	04-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X444175 - X4J0582-01	04-Nov-24	
SM 4500 H B	pH @20.0°C	pH Units	8.5	8.5	0.4	20	X444257 - X4J0556-02	01-Nov-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	60.9	41.0	20.0	100	70 - 130	X445066 - X4J0553-01	08-Nov-24	
EPA 200.7	Calcium	mg/L	577	547	20.0	0.30R>S	70 - 130	X445066 - X4J0556-03	08-Nov-24	D18,M4
EPA 200.7	Magnesium	mg/L	27.0	6.16	20.0	104	70 - 130	X445066 - X4J0553-01	08-Nov-24	
EPA 200.7	Magnesium	mg/L	602	568	20.0	0.30R>S	70 - 130	X445066 - X4J0556-03	08-Nov-24	D18,M4
EPA 200.7	Potassium	mg/L	21.9	2.03	20.0	99.3	70 - 130	X445066 - X4J0553-01	08-Nov-24	
EPA 200.7	Potassium	mg/L	28.2	7.08	20.0	106	70 - 130	X445066 - X4J0556-03	08-Nov-24	D18
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.974	<0.080	1.00	97.4	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Barium	mg/L	0.985	0.0084	1.00	97.6	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Beryllium	mg/L	0.973	<0.00200	1.00	97.3	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Boron	mg/L	0.964	<0.0400	1.00	96.4	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Cadmium	mg/L	0.975	<0.0020	1.00	97.5	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Calcium	mg/L	32.5	13.3	20.0	95.7	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Chromium	mg/L	0.974	<0.0060	1.00	97.4	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Cobalt	mg/L	0.960	<0.0060	1.00	96.0	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Copper	mg/L	0.953	<0.0100	1.00	95.3	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Iron	mg/L	9.74	<0.100	10.0	97.4	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Lead	mg/L	0.975	<0.0075	1.00	96.8	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Lithium	mg/L	0.960	<0.040	1.00	96.0	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Magnesium	mg/L	19.5	<0.500	20.0	97.1	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Manganese	mg/L	0.965	<0.0080	1.00	96.1	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Molybdenum	mg/L	0.978	<0.0080	1.00	97.8	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Nickel	mg/L	0.953	<0.0100	1.00	95.3	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Potassium	mg/L	19.7	<0.50	20.0	97.2	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Silver	mg/L	0.0480	<0.0050	0.0500	96.1	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Sodium	mg/L	18.8	<0.50	19.0	97.0	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Vanadium	mg/L	0.987	<0.0050	1.00	98.7	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.7	Zinc	mg/L	0.980	<0.0100	1.00	98.0	70 - 130	X444248 - X4J0552-01	11-Nov-24	
EPA 200.8	Antimony	mg/L	0.0251	<0.00100	0.0250	100	70 - 130	X446028 - X4J0556-01	14-Nov-24	
EPA 200.8	Antimony	mg/L	0.0246	<0.00100	0.0250	98.4	70 - 130	X446028 - X4K0008-06	14-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0277	<0.00100	0.0250	110	70 - 130	X446028 - X4J0556-01	14-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0329	0.00267	0.0250	121	70 - 130	X446028 - X4K0008-06	14-Nov-24	
EPA 200.8	Selenium	mg/L	0.0394	0.0126	0.0250	107	70 - 130	X446028 - X4J0556-01	14-Nov-24	
EPA 200.8	Selenium	mg/L	0.0363	0.00154	0.0250	139	70 - 130	X446028 - X4K0008-06	14-Nov-24	M1

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: **X4J0556**
Reported: 15-Nov-24 08:51

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Thallium	mg/L	0.0269	<0.000200	0.0250	108	70 - 130	X446028 - X4J0556-01	14-Nov-24	
EPA 200.8	Thallium	mg/L	0.0300	<0.000200	0.0250	120	70 - 130	X446028 - X4K0008-06	14-Nov-24	
EPA 200.8	Uranium	mg/L	0.0507	0.0218	0.0250	116	70 - 130	X446028 - X4J0556-01	14-Nov-24	
EPA 200.8	Uranium	mg/L	0.0337	0.00409	0.0250	118	70 - 130	X446028 - X4K0008-06	14-Nov-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00221	<0.000200	0.00200	104	70 - 130	X444213 - X4J0497-01	04-Nov-24	
EPA 245.1	Mercury	mg/L	0.00218	<0.000200	0.00200	109	70 - 130	X444213 - X4J0556-01	04-Nov-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0220	<0.0050	0.100	22.0	79 - 121	X445014 - X4J0556-01	14-Nov-24	M2
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X445008 - X4J0447-02	05-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.110	0.0090	0.100	101	90 - 110	X445008 - X4J0447-01	05-Nov-24	
EPA 350.1	Ammonia as N	mg/L	0.979	<0.030	1.00	96.4	90 - 110	X444229 - X4J0556-01	01-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.03	0.142	1.00	88.4	90 - 110	X444229 - X4J0556-02	01-Nov-24	M2
OIA 1677	Cyanide (WAD)	mg/L	0.104	<0.0050	0.100	102	82 - 118	X444242 - X4J0350-01	01-Nov-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.53	0.63	3.00	96.7	90 - 110	X444159 - X4J0566-01	30-Oct-24	
EPA 300.0	Chloride	mg/L	3.50	0.59	3.00	97.1	90 - 110	X444159 - X4J0552-01	31-Oct-24	
EPA 300.0	Fluoride	mg/L	2.20	0.301	2.00	94.9	90 - 110	X444159 - X4J0566-01	30-Oct-24	
EPA 300.0	Fluoride	mg/L	1.97	<0.100	2.00	96.3	90 - 110	X444159 - X4J0552-01	31-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.93	<0.050	2.00	94.5	90 - 110	X444159 - X4J0566-01	30-Oct-24	
EPA 300.0	Nitrate as N	mg/L	1.94	<0.050	2.00	96.0	90 - 110	X444159 - X4J0552-01	31-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	<0.100	4.00	101	90 - 110	X444159 - X4J0566-01	30-Oct-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	<0.100	4.00	101	90 - 110	X444159 - X4J0552-01	31-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.11	<0.050	2.00	105	90 - 110	X444159 - X4J0566-01	30-Oct-24	
EPA 300.0	Nitrite as N	mg/L	2.10	<0.050	2.00	105	90 - 110	X444159 - X4J0552-01	31-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	21.6	11.6	10.0	100	90 - 110	X444159 - X4J0566-01	30-Oct-24	
EPA 300.0	Sulfate as SO4	mg/L	10.9	0.86	10.0	101	90 - 110	X444159 - X4J0552-01	31-Oct-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	61.6	60.9	20.0	1.0	20	103	X445066 - X4J0553-01	
EPA 200.7	Magnesium	mg/L	27.2	27.0	20.0	0.9	20	105	X445066 - X4J0553-01	
EPA 200.7	Potassium	mg/L	22.0	21.9	20.0	0.5	20	99.9	X445066 - X4J0553-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.995	0.974	1.00	2.2	20	99.5	X444248 - X4J0552-01	
EPA 200.7	Barium	mg/L	0.998	0.985	1.00	1.3	20	98.9	X444248 - X4J0552-01	
EPA 200.7	Beryllium	mg/L	0.992	0.973	1.00	2.0	20	99.2	X444248 - X4J0552-01	
EPA 200.7	Boron	mg/L	0.974	0.964	1.00	1.0	20	97.4	X444248 - X4J0552-01	
EPA 200.7	Cadmium	mg/L	0.976	0.975	1.00	0.2	20	97.6	X444248 - X4J0552-01	
EPA 200.7	Calcium	mg/L	33.1	32.5	20.0	2.0	20	98.9	X444248 - X4J0552-01	
EPA 200.7	Chromium	mg/L	0.989	0.974	1.00	1.6	20	98.9	X444248 - X4J0552-01	
EPA 200.7	Cobalt	mg/L	0.968	0.960	1.00	0.8	20	96.8	X444248 - X4J0552-01	
EPA 200.7	Copper	mg/L	0.967	0.953	1.00	1.5	20	96.7	X444248 - X4J0552-01	
EPA 200.7	Iron	mg/L	10.0	9.74	10.0	2.8	20	100	X444248 - X4J0552-01	
EPA 200.7	Lead	mg/L	0.990	0.975	1.00	1.5	20	98.3	X444248 - X4J0552-01	

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

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Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

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

Project Name: Cripple Creek/Victor Water and Soil 2024
Work Order: **X4J0556**
Reported: 15-Nov-24 08:51

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Lithium	mg/L	0.976	0.960	1.00	1.7	20	97.6	X444248 - X4J0552-01	
EPA 200.7	Magnesium	mg/L	20.1	19.5	20.0	3.0	20	100	X444248 - X4J0552-01	
EPA 200.7	Manganese	mg/L	0.985	0.965	1.00	2.0	20	98.0	X444248 - X4J0552-01	
EPA 200.7	Molybdenum	mg/L	0.987	0.978	1.00	0.9	20	98.7	X444248 - X4J0552-01	
EPA 200.7	Nickel	mg/L	0.968	0.953	1.00	1.5	20	96.8	X444248 - X4J0552-01	
EPA 200.7	Potassium	mg/L	20.1	19.7	20.0	2.1	20	99.3	X444248 - X4J0552-01	
EPA 200.7	Silver	mg/L	0.0484	0.0480	0.0500	0.7	20	96.8	X444248 - X4J0552-01	
EPA 200.7	Sodium	mg/L	19.3	18.8	19.0	2.6	20	99.6	X444248 - X4J0552-01	
EPA 200.7	Vanadium	mg/L	0.999	0.987	1.00	1.1	20	99.9	X444248 - X4J0552-01	
EPA 200.7	Zinc	mg/L	0.994	0.980	1.00	1.4	20	99.4	X444248 - X4J0552-01	
EPA 200.8	Antimony	mg/L	0.0255	0.0251	0.0250	1.5	20	102	X446028 - X4J0556-01	
EPA 200.8	Arsenic	mg/L	0.0277	0.0277	0.0250	0.2	20	109	X446028 - X4J0556-01	
EPA 200.8	Selenium	mg/L	0.0403	0.0394	0.0250	2.1	20	111	X446028 - X4J0556-01	
EPA 200.8	Thallium	mg/L	0.0271	0.0269	0.0250	0.6	20	108	X446028 - X4J0556-01	
EPA 200.8	Uranium	mg/L	0.0514	0.0507	0.0250	1.3	20	118	X446028 - X4J0556-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00226	0.00221	0.00200	2.1	20	107	X444213 - X4J0497-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0220	0.0220	0.100	0.0	11	22.0	X445014 - X4J0556-01	M2
EPA 335.4	Cyanide (total)	mg/L	0.0996	0.102	0.100	2.5	20	99.6	X445008 - X4J0447-02	
EPA 350.1	Ammonia as N	mg/L	0.989	0.979	1.00	1.0	20	97.3	X444229 - X4J0556-01	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.104	0.100	1.0	11	101	X444242 - X4J0350-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.57	3.53	3.00	1.1	20	98.0	X444159 - X4J0566-01	
EPA 300.0	Fluoride	mg/L	2.23	2.20	2.00	1.4	20	96.4	X444159 - X4J0566-01	
EPA 300.0	Nitrate as N	mg/L	1.97	1.93	2.00	2.0	20	96.4	X444159 - X4J0566-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.11	4.04	4.00	1.8	20	103	X444159 - X4J0566-01	
EPA 300.0	Nitrite as N	mg/L	2.14	2.11	2.00	1.7	20	107	X444159 - X4J0566-01	
EPA 300.0	Sulfate as SO4	mg/L	21.8	21.6	10.0	0.8	20	102	X444159 - X4J0566-01	

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Newmont - Cripple Creek & Victor	**Project Name: Cripple Creek/Victor Water and Soil 2024**
Post Office Box 191	Work Order: **X4J0556**
Victor, CO 80860	Reported: 15-Nov-24 08:51

Notes and Definitions

D18	Due to a published chemical interference, a sample dilution was performed.
H1	Sample analysis performed past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

GV-06

Sample Date: 10/21/2024

Data for Calculations:		
pH	6.84	std units
Hardness	190	mg/L
Temperature	10.8	Celsius

Regulation 32 (5 CCR 1002-32) COARUA24 Standards			GV-06 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.5 - 9.0	---	6.84
Temperature (^{o}C)	< 21.7	< 17	10.8
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	6.228	27.308	<0.030
Boron	0.750	---	<0.0400
Chloride	250.000	---	11
Chlorine	0.011	0.019	--
Cyanide (Free)	---	0.005	<0.0050
Nitrate	---	10.000	0.175
Nitrite	0.050	---	<0.050
Sulfide	0.002	---	<0.050
Sulfate	250.000	---	136
Phosporus	0.110	---	**0.26**
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Arsenic	0.34000	---	<0.00100
Arsenic (T)	---	0.00300	<0.00200
Cadmium	0.00327	0.00116	<0.000100
Cadmium (T)	0.00500	---	<0.000200
Chromium (III)	---	0.12538	<0.00600
Chromium (III) (T)	0.05000	---	<0.0110
Hexavalent Chromium	0.01600	0.01100	<0.0050
Copper	0.02460	0.01550	<0.00040
Iron	---	0.30000	0.243
Iron (T)	---	1.00000	**8.23**
Lead	0.12892	0.00502	<0.00020
Lead (T)	0.05000	---	0.00447
Manganese	3.69739	2.04281	1.14
Mercury (T)	---	0.00001	0.0000027
Molybdenum (T)	---	0.15000	<0.0080
Nickel	0.80592	0.08951	<0.0100
Nickel (T)	---	0.10000	<0.0100
Selenium	0.01840	0.00460	<0.00100
Silver	0.00612	0.00023	<0.00008
Uranium	0.01680	0.01680	0.00126
Zinc	0.28683	0.21725	<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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

GV-05

Sample Date: 10/21/2024

Data for Calculations:		
pH	6.55	std units
Hardness	179	mg/L
Temperature	7	Celsius

Regulation 32 (5 CCR 1002-32) COARUA24 Standards			GV-05 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.5 - 9.0	---	6.55
Temperature (^{o}C)	< 21.7	< 17	7
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	31.970	6.618	<0.030
Boron	---	0.750	<0.0400
Chloride	---	250.000	12.8
Chlorine	0.019	0.011	--
Cyanide (Free)	0.005	---	<0.0050
Nitrate	10.000	---	0.098
Nitrite	---	0.050	<0.050
Sulfide	---	0.002	<0.050
Sulfate	---	250.000	111
Phosporus	---	0.110	0.067
Metals	**Acute (mg/L)**	**Chronic (mg/L)**	**Metals**
Arsenic	0.34000	---	<0.00100
Arsenic (T)	---	0.00300	<0.00100
Cadmium	0.00309	0.00111	<0.000100
Cadmium (T)	0.00500	---	<0.000100
Chromium (III)	---	0.11940	<0.00600
Chromium (III) (T)	0.05000	---	<0.0110
Hexavalent Chromium	0.01600	0.01100	<0.0050
Copper	0.02326	0.01473	<0.00040
Iron	---	0.30000	0.102
Iron (T)	---	1.00000	**2.82**
Lead	0.12098	0.00471	<0.00020
Lead (T)	0.05000	---	0.00053
Manganese	3.62467	2.00263	0.782
Mercury (T)	---	0.00001	0.000000949
Molybdenum (T)	---	0.15000	<0.0080
Nickel	0.76627	0.08511	<0.0100
Nickel (T)	---	0.10000	<0.0100
Selenium	0.01840	0.00460	<0.00100
Silver	0.00552	0.00020	<0.00008
Uranium	0.01680	0.01680	0.000797
Zinc	0.27169	0.20578	<0.0100

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

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- Invalid results, past regulatory hold time

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

GV-4.5

Sample Date: 10/23/2024

Data for Calculations:		
pH	6.43	std units
Hardness	172	mg/L
Temperature	11.3	Celsius

Regulation 32 (5 CCR 1002-32) COARUA24 Standards			GV-4.5 Results
Physical	**Acute**	**Chronic**	**Physical**
pH (std. units)	6.5 - 9.0	---	**6.43**
Temperature (^{o}C)	< 21.7	< 17	11.3
Inorganic	**Acute (mg/L)**	**Chronic (mg/L)**	**Inorganic**
Ammonia	33.422	6.726	0.037
Boron	---	0.750	<0.0400
Chloride	---	250.000	31.3
Chlorine	0.019	0.011	--
Cyanide (Free)	0.005	---	<0.0050
Nitrate	10.000	---	0.139
Nitrite	---	0.050	<0.050
Sulfide	---	0.002	<0.050
Sulfate	---	250.000	37.1
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	0.00298	0.00108	<0.000100
Cadmium (T)	0.00500	---	<0.000100
Chromium (III)	---	0.11556	<0.00600
Chromium (III) (T)	0.05000	---	<0.0110
Hexavalent Chromium	0.01600	0.01100	<0.0050
Copper	0.02240	0.01424	<0.00040
Iron	---	0.30000	**1.91**
Iron (T)	---	1.00000	**7.88**
Lead	0.11594	0.00452	<0.00020
Lead (T)	0.05000	---	0.00071
Manganese	3.57682	1.97620	0.71
Mercury (T)	---	0.00001	0.000000511
Molybdenum (T)	---	0.15000	<0.0080
Nickel	0.74084	0.08228	<0.0100
Nickel (T)	---	0.10000	<0.0100
Selenium	0.01840	0.00460	<0.00100
Silver	0.00516	0.00019	<0.00008
Uranium	0.01680	0.01680	0.000529
Zinc	0.26201	0.19845	0.01

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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NORTH AMERICA

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Attachment 3

Sampling Logs

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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

Location: EMP-16 **Date:** 10/28/24

Technician: D. Crawford **Quarter:** 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
9:06		Dry			

Sample Method: —

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

Turbid ~~[Y / N]~~

Clear ~~[Y / N]~~

Weather: 42° F, Sunny

Signature: DMC

Comments / Notes:

EMP is Dry

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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

Location: EMP-17 **Date:** 10/28/4

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

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
8:52		DRY			

Sample Method: —

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear ~~[Y / N]~~

Weather: 42°, Cloudy

Signature:

Comments / Notes:

EMP 13 DRY

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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

Location: EMP-~~HB~~ 17A

Date: 10/28/24

Technician: J. Cranford

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
12:15		Dry			

Sample Method: —

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

Turbid ~~[Y / N]~~

Clear ~~[Y / N]~~

Weather: 54° F, Cloudy

Signature: [signature]

Comments / Notes:

EMP is Dry.

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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

Location: Emp-17B **Date:** 10/28/24

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

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
8:53		Dry			

Sample Method: —

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

Turbid [~~Y~~ / N]

Clear [Y / ~~N~~]

Weather: 42°, Cloudy

Signature: [signature]

Comments / Notes:

Emp #3 Dry

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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

Location: EMP-20 **Date:** 10/28/24

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

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
8:30		Dry			

Sample Method: —

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 48° cloudy

Signature: T Reed

Comments / Notes:

EMP is Dry

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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

Location: GV-02 **Date:** 10/21/24

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

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
12:53		Dry			

Sample Method:

Oil/Gas visible [Y / N]

Turbid [Y / N]

Clear [Y / N]

Weather: 50° F, Sunny

Signature:

Comments / Notes:

Dry
no flow

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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

Location: GV-03 **Date:** 10/21/24

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

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
12:58		Dry			

Sample Method: —

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

Turbid [Y/~~N~~]

Clear [~~Y~~/N]

Weather: 50° F, Sunny

Signature:

Comments / Notes:

Dry

no - Flow

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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

Location: GV-4.5 **Date:** 10/23/24

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

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
1:44	6.43	410.3	11.3	87	—

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [(Y) / (N)]

Clear [(Y) N]

Weather: 56° Sunny

Signature:

Comments / Notes:

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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

Location: GV-05 **Date:** 10/21/24

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

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
1:10	6.55	416.5	7.0	261	

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 50°

Signature: [signature]

Comments / Notes:

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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

Location: GV-06 **Date:** 10/21/24

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

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
1132	6.84	448.4	10.8	95	

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [(Y) / N]

Clear [Y / N]

Weather: 50° Sunny

Signature: [signature]

Comments / Notes:

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Technician: S. Crawford
Static Water Level (DTW): ~~39.45~~ 39.39
Is well Dry? NO
If so Dry at: ____ feet

Date: 10/22/24
Quarter: 4
Well ID: GVMW-4A
Well Depth (TD): 480

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:22			6.57	635.0	3.1	42.23	59.4	
11:27	39.50	0.11	6.60	456.6	2.9	33.45	10.3	
11:32	39.52	0.02	6.58	435.7	3.0	29.61	1.3	~~0.39 gpm~~ 0.14 gpm
11:37	39.52	0.00	6.56	436.7	3.2	27.11	-1.3	
11:42	39.49	0.03	6.54	446.2	3.2	25.28	-4.5	
11:47	39.49	0.00	6.49	450.3	3.2	23.78	-5.9	
11:52	39.49	0.00	6.51	448.4	3.2	22.83	-7.5	
	Total drawdown							
	0.16							

Sample Method: Low-flow **Rate (gpm):** 0.03 **Time Start:** 11:22 **Time End:** 11:52
** Flow rate at stabilization (during sample collection)*

Final Parameter	Stabilization Guidance		Met?	Comments
pH	6.51	±0.1	(Y) / N	
Conductivity	448.4	3%	(Y) / N	
Temp (deg C)	3.2	3%	(Y) / N	
Dissolved Oxygen	22.83	10%	Y / N	
Turbidity	~~——~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	-7.5	±10	(Y) / N	
DTW Stabilized	39.49	feet	(Y) / N	
Final H2O level	39.49	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) ~ 2.75

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

Weather: 60°F, 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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Crawford
Static Water Level (DTW): 28.83
Date: 10/7/24
Quarter: 4
Well ID: GVMW-7A
Well Depth (TD): 200 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
8:33			7.22	876	3.4	38.12	80.3	
8:38	29.03	0.20	7.23	605.3	3.4	34.41	2.0	
8:43	29.00	0.03	7.26	652.5	3.8	28.04	-28.4	@ 0.12 L/m
8:48	29.00	0.00	7.31	661.1	5.8	24.55	-43.4	
8:53	29.00	0.00	7.38	656.8	4.3	20.89	-53.6	
8:58	29.00	0.00	7.44	625.0	4.3	19.49	-60.0	
9:03	29.00	0.20	7.47	621.0	4.3	18.91	-63.5	
9:08	29.00	0.00	7.42	615.0	4.3	17.66	-69.1	
	Total Drawdown							
	0.23							

Sample Method: Low-flow
Rate (gpm): 0.03 * Flow rate at stabilization (during sample collection)
Time Start: 8:33 **Time End:** 9:08

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.42	±0.1	(Y) / N	
Conductivity	615.0	3%	(Y) / N	
Temp (deg C)	4.3	3%	(Y) / N	
Dissolved Oxygen	17.66	10%	(Y) / N	
Turbidity		10%	~~N/A~~ N	
Oxidation/Reduction Potential	-69.1	±10	(Y) / N	
DTW Stabilized	29.00	feet	(Y) / N	
Final H2O level	29.00	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

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

Weather: 47°F, 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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: S. Crawford
Static Water Level (DTW): 25.88
Is well Dry? NO
If so Dry at: —

Date: 10/7/24
Quarter: 4
Well ID: GVMW-7B
Well Depth (TD): 50.0 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:40			6.35	1833	3.8	117.57	125.9	
9:45	26.02	0.14	6.47	1365	3.8	118.64	116.4	
9:50	26.02	0.00	6.34	1318	3.8	105.81	126.8	0.39 L/m
9:55	26.02	0.00	6.41	1274	3.8	94.58	136.0	
10:00	26.05	0.03	6.33	1292	3.8	90.25	143.1	
10:05	26.05	0.00	6.40	1208	3.8	92.93	151.4	
10:10	26.05	0.00	6.39	1162	3.8	101.84	155.6	
10:15	26.05	0.00	6.38	1140	3.8	87.03	160.9	
10:20	26.05	0.00	6.39	1136	3.8	94.12	163.7	
10:25	26.05	0.00	6.37	1135	3.8	91.93	166.1	
	Total Drawdown							
	0.17							

Sample Method: Low-flow
Rate (gpm): 0.10 * Flow rate at stabilization (during sample collection)
Time Start: 9:45 Time End: 10:25

Final Parameter	Stabilization Guidance		Met?	Comments
pH	6.37	±0.1	(Y) / N	
Conductivity	1135	3%	(Y) / N	
Temp (deg C)	3.8	3%	(Y) / N	
Dissolved Oxyge	91.93	10%	(Y) / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction Potential	166.1	±10	(Y) / N	
DTW Stabilized	26.05	feet	(Y) / N	
Final H2O level	26.05	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) ~6

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

Weather: 53°F, 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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 10/9/24
Technician: J. Crawford
Quarter: 4
Static Water Level (DTW): 123.05
Well ID: GVMW-8A
Well Depth (TD): 250
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
9:07			6.77	606.9	4.7	73.88	191.5	
9:12	123.15	0.10	6.87	453.1	4.3	53.74	168.1	
9:17	123.17	0.02	6.93	351.7	4.1	46.76	164.0	0.30 L/m
9:22	123.17	0.00	6.90	323.5	4.1	41.30	168.3	
9:27	123.17	0.00	6.95	350.8	4.1	40.80	172.0	
9:32	123.17	0.00	~~6.98~~	344.8	4.1	40.07	171.1	
9:37	123.17	0.00	6.91	349.9	4.1	37.79	170.8	
		Total Drawdown						
		0.12						

Sample Method: Low flow
Rate (gpm): 0.07 * Flow rate at stabilization (during sample collection)
Time Start: 9:07 Time End: 9:37

Final Parameter	Stabilization Guidance		Met?	Comments
pH	6.91	±0.1	(Y) / N	
Conductivity	349.9	3%	(Y) / N	
Temp (deg C)	4.1	3%	(Y) / N	
Dissolved Oxygen	37.79	10%	(Y) / N	
Turbidity		~~10%~~	~~Y / N~~	
Oxidation/Reduction Potential	170.8	±10	(Y) N	
DTW Stabilized	123.17	feet	(Y) / N	
Final H2O level	123.17	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) ~2.75

O/G visible: Y / (N)
Turbid? Y / (N)
Equipment Decontaminated: (Y) / N
Decontamination procedure used: ~~Triple Rinse, Liquinox~~ Dedicated Pump

Weather: 52°F, 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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Cranford
Static Water Level (DTW): 35.38
Is well Dry? no
Date: 10/9/24
Quarter: 4
Well ID: GVMW-8B
Well Depth (TD): ____ feet
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:55			6.74	360.4	4.5	104.54	219.1	
10:00	36.10	0.72	6.61	344.4	5.0	61.63	225.7	
10:05	36.26	0.16	6.74	339.9	5.7	66.20	229.0	0.31 L/m
10:10	36.30	0.04	6.75	341.2	6.1	66.60	232.1	
10:15	36.30	0.00	6.73	342.0	6.2	69.81	232.8	
10:20	36.30	0.00	6.74	341.8	6.2	70.59	234.9	
		Total drawdown						
		0.92						

Sample Method: low-flow
Rate (gpm): 0.08 * Flow rate at stabilization (during sample collection)
Time Start: 9:55 Time End: 10:20

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 Potential		±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: 1.71
Actual vol. pumped (gal) ~2.25

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

Weather: 56° F, 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:
0.92 + 0.79 = 1.71
use 5 gal bucket

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 10/14/24
Technician: J. Cranford
Quarter: 4
Static Water Level (DTW): 216.70
Well ID: GVMW-10
Well Depth (TD): 270 feet
Is well Dry? NO
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1:25			8.34	2969	8.1	2.34	325.7	
1:30	216.75	0.05	6.98	2449	5.1	1.67	290.3	
1:35	216.75	0.00	6.98	2466	4.4	1.50	280.3	0.44 L/m
1:40	216.75	0.00	6.99	2485	4.1	1.46	276.1	
1:45	216.75	0.00	7.00	2463	4.0	1.42	272.1	
1:50	216.75	0.00	7.01	2445	4.0	1.37	266.0	
		Total Drawdown 0.05						

Sample Method: low-flow
Rate (gpm): 0.11 * Flow rate at stabilization (during sample collection)
Time Start: 1:25 Time End: 1:50

Final Parameter	Stabilization Guidance		Met?	Comments
pH	7.01	±0.1	(Y) / N	
Conductivity	2445	3%	(Y) / N	
Temp (deg C)	4.0	3%	(Y) / N	
Dissolved Oxygen	1.37	10%	(Y) / N	
Turbidity		10%	Y / N	
Oxidation/Reduction Potential	266.0	±10	(Y) / N	
DTW Stabilized	216.75	feet	(Y) / N	
Final H2O level	216.75	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) ~2.25

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

Weather: 59°F / 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.

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 10/15/24
Technician: J. Crawford
Quarter: 4
Static Water Level (DTW): 91.83
Well ID: GVMW-15A
Well Depth (TD): 820
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
11:20			6.40	443.5	3.9	3.07	81.6	
11:25	92.44	0.61	6.45	444.8	3.8	2.89	68.6	
11:30	92.50	0.06	6.46	444.6	3.9	2.73	55.2	0.26 L/m
11:35	92.58	0.08	6.48	447.3	3.7	2.62	44.5	
11:40	92.60	0.02	6.49	442.2	3.8	2.57	37.7	
11:45	92.60	0.00	6.50	446.0	3.8	2.63	35.8	
		Total Drawdown						
		0.77						

Sample Method: low-flow
Rate (gpm): 0.06 * Flow rate at stabilization (during sample collection)
Time Start: 11:20 Time End: 11:45

Final Parameter	Stabilization Guidance		Met?	Comments
pH	6.50	±0.1	(Y) / N	
Conductivity	446.0	3%	(Y) / N	
Temp (deg C)	3.8	3%	(Y) / N	
Dissolved Oxygen	2.63	10%	Y / N	
Turbidity		~~10%~~	~~Y / N~~	
Oxidation/Reduction Potential	35.8	±10	(Y) / N	
DTW Stabilized	92.60	feet	(Y) / N	
Final H2O level	92.60	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) N
* See Field Volume Guide
If yes, required pump vol (gal): 3.82 Actual vol. pumped (gal) ~ 4.25 following stabilization

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

Weather: 55°F, 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:
0.77 + 3.05 = 3.82 use 5 gal bucket

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Cranford
Static Water Level (DTW): 80.29
Is well Dry? NO
If so Dry at: ~~feet~~ feet
Date: 10/15/24
Quarter: 4
Well ID: GVMW-15B
Well Depth (TD): 102

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:30			4.90	543.8	3.3	4.16	195.0	
10:35	80.42	0.13	4.91	537.2	3.6	3.29	160.7	
10:40	80.42	0.00	4.91	529.4	3.9	2.96	146.3	0.34 L/m
10:45	80.45	0.03	4.87	528.0	3.4	2.82	140.4	
10:50	80.47	0.02	4.86	529.1	3.4	2.68	138.1	
10:55	80.47	0.00	4.83	533.9	3.4	2.62	135.5	
	Total Drawdown							
		0.18						

Sample Method: low-flow
Rate (gpm): 0.08 * Flow rate at stabilization (during sample collection)
Time Start: 10:30
Time End: 10:55

Final Parameters	Stabilization Guidance		Met?	Comments
pH	4.83	±0.1	(Y) / N	
Conductivity	533.9	3%	(Y) / N	
Temp (deg C)	3.4	3%	(Y) / N	
Dissolved Oxygen	2.62	10%	(Y) / N	
Turbidity	~~-~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction Potential	135.5	±10	(Y) / N	
DTW Stabilized	80.47	feet	(Y) / N	
Final H2O level	80.47	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) ~2.25

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

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 5 gal bucket

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Crawford
Static Water Level (DTW):
Is well Dry? YES
If so Dry at: 419

Date: 10/15/24
Quarter: 4
Well ID: GVMW-15C
Well Depth (TD): 419 feet

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

DRY

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

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

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

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

Weather: 53°F, 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:
well is DRY

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 10/1/24
Technician: J. Crawford
Quarter: 4
Static Water Level (DTW): 3.93
Well ID: GVMW-22A
Is well Dry? NO
If so Dry at: ~
Well Depth (TD): 70 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:40			7.32	954	5.7	59.26	207.0	
10:45	3.63	0.30	7.67	451.3	6.6	32.51	150.2	
10:56	3,68	0.05	7.80	381.5	5.5	24.20	120.8	0.13 L/m
10:55	4.37	0.69	7.74	334.8	5.0	23.82	89.9	
11:00	4.68	0.31	7.81	335.8	5.1	20.76	55.1	
11:05	4.71	0.03	7.86	338.2	5.7	17.98	31.1	
11:10	4.76	0.05	7.77	350.3	5.7	18.13	31.2	
11:15	4.79	0.03	7.86	341.5	5.7	17.09	6.8	
11:20	4.79	0.00	7.87	340.2	5.7	16.71	-10.6	
11:25	4.79	0.00	7.80	342.0	5.7	15.69	-24.6	
	Total drawdown							
	1.46							

Sample Method: Low-flow
Rate (gpm): 0.03 * Flow rate at stabilization (during sample collection)
Time Start: 10:40 Time End: 11:25

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.80	±0.1	(Y) / N	
Conductivity	342.0	3%	(Y) / N	
Temp (deg C)	5.7	3%	(Y) / N	
Dissolved Oxygen	15.69	10%	(Y) / N	
Turbidity	~~10%~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	-24.6	±10	Y / (N)	
DTW Stabilized	4.79	feet	(Y) / N	
Final H2O level	4.79	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: 1.40
Actual vol. pumped (gal): ~2.75

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

Weather: 56° F, Sunny
Signature:

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

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

Show Calculations:
1.0 + 0.40 = 1.40 use 5 gal Bucket

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley **Date:** 10/1/24

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

Static Water Level (DTW): 5.81 **Well ID:** GLMW-22B

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
10:45			6.77	311.8	4.4	23.04	103.1	
10:50	6.11	0.30	6.75	312.2	4.4	18.81	102.7	0.64 gpm
10:55	6.11	0.00	6.74	312.8	4.3	17.76	103.2	
12:00	6.11	0.00	6.73	313.0	4.4	17.44	103.5	
12:05	6.11	0.00	6.76	311.7	4.4	16.79	104.0	
12:10	6.11	0.00	6.75	306.9	4.4	17.81	104.7	

Total drawdown 0.30

Sample Method: Low-flow **Rate (gpm):** 0.16 **Time Start:** 11:45 **Time End:** 12:10
** Flow rate at stabilization (during sample collection)*

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.75	±0.1	(Y) / N	
Conductivity	306.9	3%	(Y) / N	
Temp (deg C)	4.4	3%	(Y) / N	
Dissolved Oxygen	17.81	10%	(Y) / N	
~~Turbidity~~	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	104.7	±10	(Y) / N	
DTW Stabilized	6.11	feet	(Y) / N	
Final H2O level	6.11	feet		

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

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

Weather: 62° F, 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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Date: 10/14/24
Technician: J. Crawford
Quarter: 4
Static Water Level (DTW): 233.75
Well ID: GMW-244
Well Depth (TD): 250
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

No Sample Very silty water not able to pump

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 Oxyge		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction Potential		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

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

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

Weather: 51°F, 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:
no sample due to extreme silt in water. Pump was not able to pump any water

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: Scrawford
Static Water Level (DTW): 92.72
Date: 10/16/24
Quarter: 4
Well ID: GVMW-24B
Well Depth (TD): 100 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
8:50			6.54	2556	2.9	3.29	218.1	
8:55	93.08	0.36	6.67	2507	3.0	2.79	193.6	
9:00	93.08	0.00	6.65	2486	3.3	2.48	183.3	0.112/m
9:05	93.08	0.00	6.70	2453	4.1	2.39	182.2	
9:10	93.08	0.00	6.69	2478	4.0	2.35	182.0	
9:15	93.08	0.00	6.67	2469	4.1	2.23	180.9	

Total Drawdown
0.36

Sample Method: low-flow Rate (gpm): 0.02 Time Start: 8:50 Time End: 9:15
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance		Met?	Comments
pH	6.67	±0.1	(Y) / N	
Conductivity	2469	3%	(Y) / N	
Temp (deg C)	4.1	3%	(Y) / N	
Dissolved Oxygen	2.23	10%	(Y) / N	
Turbidity	~~____~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction Potential	180.9	±10	(Y) / N	
DTW Stabilized	93.08	feet	(Y) / N	
Final H2O level	93.08	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N If yes, required pump vol (gal) following stabilization: 1.13 Actual vol. pumped (gal): ~2
* See Field Volume Guide

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

Weather: 51° F, 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:
0.36 * 0.77 = 1.13
use 5 gal bucket

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Crawford
Static Water Level (DTW): 50.50
Is well Dry? NO
If so Dry at:
Date: 10/9/24
Quarter: 4
Well ID: GVMW-25
Well Depth (TD): 79 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:45			3.56	6062	3.8	436.69	470.4	
10:50	50.29	0.21	3.57	6243	3.5	317.16	494.7	
10:55	50.31	0.02	3.58	6217	3.6	196.42	490.1	0.67 L/m
11:00	50.31	0.00	3.61	6182	3.5	140.86	500.6	
11:05	50.33	0.02	3.61	6138	3.4	119.12	501.0	
11:10	50.33	0.00	3.58	6034	3.4	108.08	505.5	
11:15	50.36	0.03	3.51	6096	3.4	86.94	516.4	
11:20	50.36	0.00	3.48	6147	3.5	452.41	525.4	
11:25	50.36	0.00	3.44	6212	3.5	463.09	526.8	
11:30	50.36	0.00	3.38	6253	3.5	435.74	531.3	
	Total drawdown 0.27							

Sample Method: low-flow
Rate (gpm): 0.17 * Flow rate at stabilization (during sample collection)
Time Start: 10:45 **Time End:** 11:30

Final Parameter	Stabilization Guidance		Met?	Comments
pH	3.38	±0.1	(Y) / N	
Conductivity	6253	3%	(Y) / N	
Temp (deg C)	3.5	3%	(Y) / N	
Dissolved Oxygen	435.74	10%	(Y) / N	
Turbidity	~~[illegible]~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction Potential	531.3	±10	(Y) / N	
DTW Stabilized	50.36	feet	(Y) / N	
Final H2O level	50.36	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) ~9

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

Weather: 55°F, Sunny
Signature:

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

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

Show Calculations:
use 5 gal bucket

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Date: 10/1/24
Technician: J. Crawford
Quarter: 4
Static Water Level (DTW): 6.75
Well ID: GVMW-26A
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
8:38			7.01	452.5	4.0	43.00	93.1	
8:43	6.75	0.00	7.55	306.8	4.2	31.70	31.24	
8:48	6.75	0.00	7.78	296.4	4.5	25.90	29.3	0.09 L/m
8:53	6.75	0.00	7.84	295.1	4.6	21.22	15.7	
8:58	6.75	0.00	7.86	294.3	4.6	19.13	15.8	
9:03	6.75	0.00	7.87	296.3	4.6	19.31	14.8	
	Total drawdown							
	0.00							

Sample Method: Low-flow
Rate (gpm): 0.02 * Flow rate at stabilization (during sample collection)
Time Start: 8:38 **Time End:** 9:03

Final Parameters	Stabilization Guidance		Met?	Comments
pH	7.87	±0.1	(Y) / N	
Conductivity	296.3	3%	(Y) / N	
Temp (deg C)	4.6	3%	(Y) / N	
Dissolved Oxygen	19.31	10%	(Y) / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction	14.8	±10	(Y) / N	
DTW Stabilized	6.75	feet	(Y) / N	
Final H2O level	6.75	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) ~1.5

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

Weather: 44° F, 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:

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: grassy Valley
Date: 10/1/24
Technician: J. Crawford
Quarter: 4
Static Water Level (DTW): 6.55
Well ID: GVMW-26B
Well Depth (TD): 25 feet
Is well Dry? NO
If so Dry at: ~

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:21			6.95	117.0	4.4	47.53	124.3	
9:26	6.55	0.00	6.61	117.1	4.5	47.50	134.7	
9:31	6.55	0.00	6.53	116.8	4.6	46.51	147.7	0.19 g/m
9:36	6.54	0.01	6.49	130.8	4.7	38.29	159.7	
9:41	6.54	0.00	6.52	124.7	4.7	32.89	166.3	
9:46	6.54	0.00	6.50	120.1	4.7	31.75	170.9	
9:51	6.54	0.00	6.53	124.1	4.7	32.51	175.2	
Total		Drawdown						
	0.01							

Sample Method: low-flow
Rate (gpm): 0.05 * Flow rate at stabilization (during sample collection)
Time Start: 9:21 **Time End:** 9:51

Final Parameters	Stabilization Guidance		Met?	Comments
pH	6.53	±0.1	(Y) / N	
Conductivity	124.1	3%	(Y) / N	
Temp (deg C)	4.7	3%	(Y) / N	
Dissolved Oxygen	32.51	10%	(Y) / N	
Turbidity		10%	Y / N	
Oxidation/Reduction	175.2	±10	Y / N	
DTW Stabilized	6.54	feet	(Y) / N	
Final H2O level	6.54	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

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

Weather: 50° F, 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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: T. Reed
Static Water Level (DTW): 55.90
Date: 10/10/24
Quarter: 3
Well ID: GVMW-27
Is well Dry? NO
If so Dry at: —
Well Depth (TD): feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
07:44			4.34	9586	1.5	16.48	64.3	
7:49	55.94	0.04	4.37	9108	1.7	13.62	-12.5	
7:54	55.99	0.05	4.33	9156	1.8	13.57	-49.0	0.3 L/m
7:59	55.99	0.00	4.35	9111	1.9	14.81	-51.9	
8:04	55.99	0.00	4.35	9087	1.9	14.76	-52.1	
8:09	55.99	0.00	4.33	9037	1.9	15.28	-47.3	
total								
Drawdown								
0.09								

Sample Method: Low Flow
Rate (gpm): 0.07 * Flow rate at stabilization (during sample collection)
Time Start: 7:44 Time End: 8:09

Final Parameters	Stabilization Guidance		Met?	Comments
pH	4.33	±0.1	(Y) / N	
Conductivity	9037	3%	(Y) / N	
Temp (deg C)	1.9	3%	(Y) / N	
Dissolved Oxygen	15.28	10%	(Y) / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction Potential	-47.3	±10	(Y) / N	
DTW Stabilized	55.99	feet	(Y) / N	
Final H2O level	55.99	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) 2.25-

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

Weather: 43° 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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 10/14/24
Technician: J. Crawford
Quarter: 4
Static Water Level (DTW): 33.85
Well ID: GVMW-28
Well Depth (TD): 71.54
Is well Dry? NO
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:30			2.81	10938	4.0	7.97	550.9	
10:35	34.26	0.41	2.74	10914	3.9	6.38	560.3	
10:40	34.43	0.17	2.86	10637	4.4	5.54	565.0	0.13 L/m
10:45	34.50	0.07	2.74	10785	4.6	5.24	565.9	
10:50	34.50	0.00	2.76	10771	4.6	5.14	567.3	
10:55	34.50	0.06	2.76	10744	4.7	4.90	567.5	
	Total	Drawdown						
		0.65						

Sample Method: low-flow
Rate (gpm): 0.03 * Flow rate at stabilization (during sample collection)
Time Start: 10:30 Time End: 10:55

Final Parameter	Stabilization Guidance		Met?	Comments
pH	2.76	±0.1	(Y) / N	
Conductivity	10744	3%	(Y) / N	
Temp (deg C)	4.7	3%	(Y) / N	
Dissolved Oxyger	4.90	10%	(Y) / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction Potential	567.5	±10	(Y) / N	
DTW Stabilized	34.50	feet	(Y) / N	
Final H2O level	34.50	feet		

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N
* See Field Volume Guide
If yes, required pump vol (gal): 1.56 following stabilization
Actual vol. pumped (gal) — 2

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

Weather: 55°F, 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:
0.65 + 0.91 = 1.56 use 5 gal bucket

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy valley
Date: 10/16/24
Technician: S. cranford
Quarter: 4
Static Water Level (DTW): —
Well ID: GVMW-29
Is well Dry? Yes
If so Dry at: 38.38
Well Depth (TD): 38.38 **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 Parameter	Stabilization Guidance		Met?	Comments
pH		±0.1	Y / N	
Conductivity		3%	Y / N	
Temp (deg C)		3%	Y / N	
Dissolved Oxyge		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction Potential		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

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

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

Decontamination procedure used:

Weather: 57°F, 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:** well is Dry used sounder.

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Cranford
Static Water Level (DTW): 46.27
Date: 10/15/24 - 10/16/24
Quarter: 4
Well ID: GVMW-30
Well Depth (TD): 51.24 feet
Is well Dry? no
If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:37			3.34	4645	6.3	—	537	
12:40	48.28							
11:35	47.98		3.44	5064	8.0		502	

Sample Method: Purge + return **Rate (gpm):** — **Time Start:** 12:37 **Time End:** 11:35
** 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 Oxygen		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction Potential		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

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

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

Decontamination procedure used: Triple rinse - liquid-knox

Weather: 57°F, Sunny
Signature:

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

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

Show Calculations:

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Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Crawford
Static Water Level (DTW):
Is well Dry? Yes
If so Dry at: 61.82 feet

Date: 10/16/24
Quarter: 4
Well ID: GVMW-31
Well Depth (TD): 61.82

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

DRY

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

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

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

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

Weather: 57°F, 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:** Used Sounder well is DRY

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Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy valley **Date:** 10/16/24

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

Static Water Level (DTW): 66.15 **Well ID:** GVMW-32

Is well Dry? no **If so Dry at:** — **Well Depth (TD):** 67.32 **feet**

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

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 Oxyge		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction Potential		±10	Y / N	
DTW Stabilized		feet	Y / N	
Final H2O level		feet		

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

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

Decontamination procedure used: _____

Weather: 57°F, Sunny

Signature: _____

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

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

Show Calculations:
Insufficient to Pump

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Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Cranford
Static Water Level (DTW): ~~81.63~~ 71.63
Date: 10/15/24 - 10-16-24
Quarter: 4
Well ID: GVMW-33
Well Depth (TD): 85.70
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
12:51			3.50	7921	5.7		274	
1:00	76.45							
11:08	62.00		3.30	8223	6.6		389	

Sample Method: Purge + return **Rate (gpm):** — **Time Start:** 12:51 **Time End:** 1:08
** 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 Potential		±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 - very slight
Decontamination procedure used: Tripple rinse, Liquid-Inox

Weather: 57°F, 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:**

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: T. Reed
Static Water Level (DTW): 59.84
Is well Dry? NO
If so Dry at: —
Date: 10/28/24 - 10/29/24
Quarter: 4
Well ID: GVMW-34
Well Depth (TD): 84.62
feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1:32			6.28	3572	5.8	—	360	
10/28/24 1458	79.09							
10/29/24 7:32	60.10		5.80	3934	4.5	—	304	

Sample Method: PdR
Rate (gpm): —
* Flow rate at stabilization (during sample collection)
Time Start: 10/28/24 1:32
Time End: 10/29/24 7:32

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 Potential		±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)
following stabilization
* See Field Volume Guide

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

Weather: 56° Partly cloudy
Signature:

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

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

Show Calculations:
Purge & Return

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 10/14/24
Technician: J. Cranford
Quarter: 4
Static Water Level (DTW): 280.09
Well ID: GVMW-35A
Well Depth (TD): ~~345~~ 340 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
2:18	287.10		7.00	2190	16.4	~~445~~	195	
2:23	287.50	0.04	7.20	1034	15.3	—	185	
2:28	287.~~57~~	0.03	7.42	1023	15.1		129	
2:33	287.69	0.22	7.88	1039	15.1		102	
total								
Drawdown								
0.19								

Sample Method: ~~Grab~~ low-flow Rate (gpm): ~~0.25~~ 0.20 * Time Start: 2:18 Time End: 2:33
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance		Met?	Comments
pH	7.88	±0.1	Y / (N)	
Conductivity	1039	3%	Y / (N)	
Temp (deg C)	15.1	3%	Y / (N)	
Dissolved Oxygen	—	~~10%~~	~~Y / N~~	
Turbidity	—	~~10%~~	~~Y / N~~	
Oxidation/Reduction Potential	102	±10	Y / (N)	
DTW Stabilized	287.69	feet	Y / (N)	
Final H2O level	287.69	feet		

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

O/G visible: Y / (N)
Equipment Decontaminated: Y / (N)
Turbid? Y / (N)
Decontamination procedure used: Dedicated pump
Weather: 540 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:** Sample was taken during Aquifer testing.

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: T. Reed.
Static Water Level (DTW): 32.38-
Date: 10/28/24 - 10/29/24
Quarter: 4
Well ID: GVMW-35B
Well Depth (TD): 72.90
Is well Dry? No
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10/28/24								
12:26			12.43	2560	8.2	—	407	
1:00	69.00							
10/29/24								
7:54	32.71		7.36	2225	5.4	—	218	

Sample Method: PDR
Rate (gpm): — * Flow rate at stabilization (during sample collection)
Time Start: 10/28/24 12:26
Time End: 10/29/24 7:54

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

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

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

Weather: 54° cloudy
Signature: [signature]

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

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

Show Calculations:
Purge + Return

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: T. Reed
Static Water Level (DTW): 16.25
Date: 10/28/24 - 10/29/24
Quarter: 4
Well ID: GVMW-36
Well Depth (TD): 37.97
Is well Dry? No
If so Dry at: — feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10/28/24								
11:48			3.05	7248	7.5	—	437	
12:05	34.92	Purged	All	Water				
10/29/24								
8:15	26.90		335	7922	4.9	—	459	

Sample Method: P+R
Rate (gpm): — * Flow rate at stabilization (during sample collection)
Time Start: 10/28/24 11:48
Time End: 10/29/24 8:15

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

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

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

Weather: 53° Cloudy
Signature:

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

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

Show Calculations:
Purge & Return.

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 10/15/24
Technician: S. Crawford
Quarter: 4
Static Water Level (DTW): 34.32
Well ID: GVMW-37A
Well Depth (TD): 201.20 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
8:00			6.61	1377	3.4	13.05	271.0	
8:05	34.00	0.32	6.60	712.8	3.3	6.37	234.4	
8:10	34.05	0.05	8.37	697.5	3.4	4.64	211.2	0.33'/m
8:15	34.07	0.02	8.53	713.9	3.5	3.99	206.0	
8:20	34.12	0.05	8.49	710.9	3.5	3.52	205.0	
8:25	34.19	0.06	8.45	713.1	3.5	3.31	204.8	
8:30	34.18	0.00	8.44	715.8	3.5	3.41	204.0	
		Total Drawdown						
		=0.14						

Sample Method: low-flow
Rate (gpm): 6.08 * Flow rate at stabilization (during sample collection)
Time Start: 8:00
Time End: 8:30

Final Parameters	Stabilization Guidance		Met?	Comments
pH	8.44	±0.1	(Y) / N	
Conductivity	715.8	3%	(Y) / N	
Temp (deg C)	3.5	3%	(Y) / N	
Dissolved Oxygen	3.41	10%	(Y) / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction Potential	204.0	±10	(Y) / N	
DTW Stabilized	34.18	feet	(Y) / N	
Final H2O level	34.18	feet		

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N)
* See Field Volume Guide
If yes, required pump vol (gal): ____ following stabilization
Actual vol. pumped (gal) ~2.25

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

Weather: 45°F, 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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley X
Technician: J. Crawford
Static Water Level (DTW): 33.57
Date: 10/15/24
Quarter: 6UMW-37B
Well ID: 4
Well Depth (TD): 74.89
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
8:40			7.87	565.4	3.6	4.12	77.3	
8:45	33.65	0.08	7.92	581.2	3.6	3.75	22.4	
8:50	33.66	0.01	8.02	607.6	3.6	3.34	-134.2	
8:55	33.66	0.00	8.03	619.9	3.7	3.06	-136.3	
9:00	33.66	0.00	8.03	622.1	3.8	3.00	-138.9	
9:05	33.66	0.00	8.01	606.7	3.6	3.00	-172.6	
9:10	33.66	0.00	8.00	575.7	3.9	2.69	-202.1	
9:15	33.66	0.00	7.97	565.3	3.9	2.65	-191.5	
9:20	33.66	0.00	7.94	555.2	3.8	2.65	-182.9	
9:25	33.66	0.00	7.95	542.7	3.7	2.65	-171.6	
9:30	33.69	0.03	7.95	530.4	3.7	2.68	-143.5	
9:35	33.69	0.03	7.94	528.4	3.7	2.72	-128.3	
total								
Drawdown		0.13						

Sample Method: Low Flow
Rate (gpm): 0.06 * Flow rate at stabilization (during sample collection)
Time Start: 8:40 Time End: 9:35

Final Parameter	Stabilization Guidance		Met?	Comments
pH	7.94	±0.1	Y / N	
Conductivity	528.4	3%	Y / N	
Temp (deg C)	3.7	3%	Y / N	
Dissolved Oxyge	2.72	10%	Y / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction Potential	-128.3	±10	Y / N	
DTW Stabilized	33.69	feet	Y / N	
Final H2O level	33.69	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) ~3.75

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

Weather: 45° 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:
ORP did not stabelize
Use 5gal Bucket

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Comford
Static Water Level (DTW): 28.63
Date: 10/7/24
Quarter: 4
Well ID: GVMW-107F
Well Depth (TD): 200 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
9:08			7.42	615.0	4.3	17.66	-69.1	

Sample Method: Low-Flow **Rate (gpm):** 0.03 **Time Start:** 9:08 **Time End:** 9:08
** Flow rate at stabilization (during sample collection)*

Final Parameter	Stabilization Guidance		Met?	Comments
pH	7.42	±0.1	(Y) / N	
Conductivity	615.0	3%	(Y) / N	
Temp (deg C)	4.3	3%	(Y) / N	
Dissolved Oxyger	17.60	10%	(Y) / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction Potential	-69.1	±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) ~2.5
** See Field Volume Guide* following stabilization

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

Weather: 47°F, 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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Technician: J. Crawford
Static Water Level (DTW): 123.15
Is well Dry? no
If so Dry at: —

Date: 10/9/24
Quarter: 4
Well ID: GVMW-108I
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
9:37			6.91	349.9	4.1	37.79	180.8	

Sample Method: Low-flow
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 Potential		±10	Y / N	
pTW 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: Dedicated Pump

Weather: 52°F, 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:

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: J. Cranford
Static Water Level (DTW): 34.37
Is well Dry? no
If so Dry at: —
Date: 10/15/24
Quarter: 4
Well ID: Gmw-137F
Well Depth (TD): 201.20 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
			8.44	715.8	3.5	3.41	204.0	

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

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

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

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

Weather: 45°F, 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:

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Technician: T. Reed
Static Water Level (DTW): —
Date: 10/14/24
Quarter: 4
Well ID: OSABH-12
Is well Dry? Yes
If so Dry at: 39
Well Depth (TD): 39 feet

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

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

Final Parameter	Stabilization Guidance		Met?	Comments
pH		±0.1	Y / N	
Conductivity		3%	Y / N	
Temp (deg C)		3%	Y / N	
Dissolved Oxyge		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction Potential		±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: 47°
Signature: [signature]

Volume Calculations:	
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$	**For 4" Diameter Well (gal):** $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$	
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$	
Well Volume Purge Method: *Three Well Volumes = 3*V*	
Conversions: $1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$	**Show Calculations:** OSABH-12 .3 Dry

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley
Date: 10/9/24
Technician: J. Crawford
Quarter: 4
Static Water Level (DTW): —
Well ID: OSTBH-14
Is well Dry? YES
If so Dry at: 29
Well Depth (TD): 29 feet

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

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 Potential		±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: 56°F, 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:
well is Dry

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: T. Reed
Static Water Level (DTW): —
Is well Dry? Yes
If so Dry at: 29

Date: 10/14/24
Quarter: 4
Well ID: OSABH-14
Well Depth (TD): 29 feet

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

DRY

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

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

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

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

Decontamination procedure used: N/A

Weather: 48°

Signature:

Volume Calculations:	
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$	For 4" Diameter Well (gal): $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$	
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$	
Well Volume Purge Method: *Three Well Volumes = 3*V*	
Conversions: $1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$	Show Calculations: OSABH-14 is Dry.

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: T. Reed
Static Water Level (DTW): 32.70'
Is well Dry? NO
If so Dry at: — feet

Date: 10/23/24 – 10/24/24
Quarter: 4
Well ID: GBABH-16
Well Depth (TD): 40.5'

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10/23/24 12:38			2.83	11391	4.2	—	534.1	
12:53	37.53'							
10/24/24 12:22	32.74'		2.60	14.33	8.9	—	571	

Sample Method: Purge & Return
Rate (gpm): — * Flow rate at stabilization (during sample collection)
Time Start: 10/23/24 12:38
Time End: 10/24/24 12:22

Final Parameter	Stabilization Guidance		Met?	Comments
pH		±0.1	Y / N	
Conductivity		3%	Y / N	
Temp (deg C)		3%	Y / N	
Dissolved Oxygen		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction Potential		±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: triple Rinse liquid knox

Weather: 56° Sunny
Signature: [signature]

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

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Date: 10/24/24
Technician: T. Reed
Quarter: 4
Static Water Level (DTW): 13.65
Well ID: [redacted] OSABH-17
Is well Dry? No
If so Dry at: —
Well Depth (TD): 39.30 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:46			2.62	17362	3.4	10.93	492.2	
12:51	14.16	0.46	2.67	16813	3.3	4.92	517.4	
12:56	14.16	0.00	2.66	17185	3.3	4.19	528.3	0.65 L/m
1:01	14.16	0.00	2.64	17381	3.2	3.81	536.7	
1:06	14.16	0.00	2.64	17458	3.3	3.65	542.8	
1:11	14.16	0.00	2.64	17545	3.3	3.64	546.9	

Total Drawdown 0.46

Sample Method: Low Flow
Rate (gpm): 0.1 gpm
* Flow rate at stabilization (during sample collection)
Time Start: 12:46
Time End: 1:11

Final Parameter	Stabilization Guidance		Met?	Comments
pH	2.64	±0.1	(Y) / N	
Conductivity	17545	3%	(Y) / N	
Temp (deg C)	3.3	3%	(Y) / N	
Dissolved Oxyger	3.64	10%	Y / N	
Turbidity	~~—~~	~~10%~~	~~Y / N~~	
Oxidation/Reduction Potential	546.9	±10	(Y) / N	
DTW Stabilized	14.16	feet	(Y) / N	
Final H2O level	14.16	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: 0.27
Actual vol. pumped (gal): ~4 gal

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

Weather: 54° Sunny
Signature: [signature]

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

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

Show Calculations: 0.17 + 0.1 = 0.27 gal

use 5 gal Bucket

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
Technician: T. Reed
Static Water Level (DTW): —

Date: 10/15/24
Quarter: DRY
Well ID: OSABH-18

Is well Dry? Yes
If so Dry at: 52
Well Depth (TD): 52 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): —
** Flow rate at stabilization (during sample collection)*
Time Start: —
Time End: —

Final Parameter	Stabilization Guidance		Met?	Comments
pH		±0.1	Y / N	
Conductivity		3%	Y / N	
Temp (deg C)		3%	Y / N	
Dissolved Oxyge		10%	Y / N	
Turbidity		10%	Y / N	
Oxidation/Reduction Potential		±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: 47°

Signature: [signature]

Volume Calculations:

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

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

Show Calculations:
OSABH-18 is DRY

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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

RB-1007

Location: ~~Grassy Valley~~ **Date:** 10/7/24

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

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
9:22	~~7.~~ 6.71	7.46	16.2	276	

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [Y / (N)]

Clear [(Y) / N]

Weather: 48°F, Sunny

Signature:

Comments / Notes:

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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

Location: Seep-1 **Date:** 10/28/21

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

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
8:40	2.21	14.82	4.3	524	—

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [(Y) / N]

Clear [Y / (N)]

Weather: 42° Cloudy

Signature: [signature]

Comments / Notes:

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

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

Location: Seep - 2 **Date:** 10/28/24

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

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
8:59	2.01	25.51	1.0	474	—

Sample Method: Grab

Oil/Gas visible [Y / (N)]

Turbid [(Y) / N]

Clear [Y / (N)]

Weather: 42°, Cloudy

Signature:

Comments / Notes:

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

Newmont
NORTH AMERICA

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

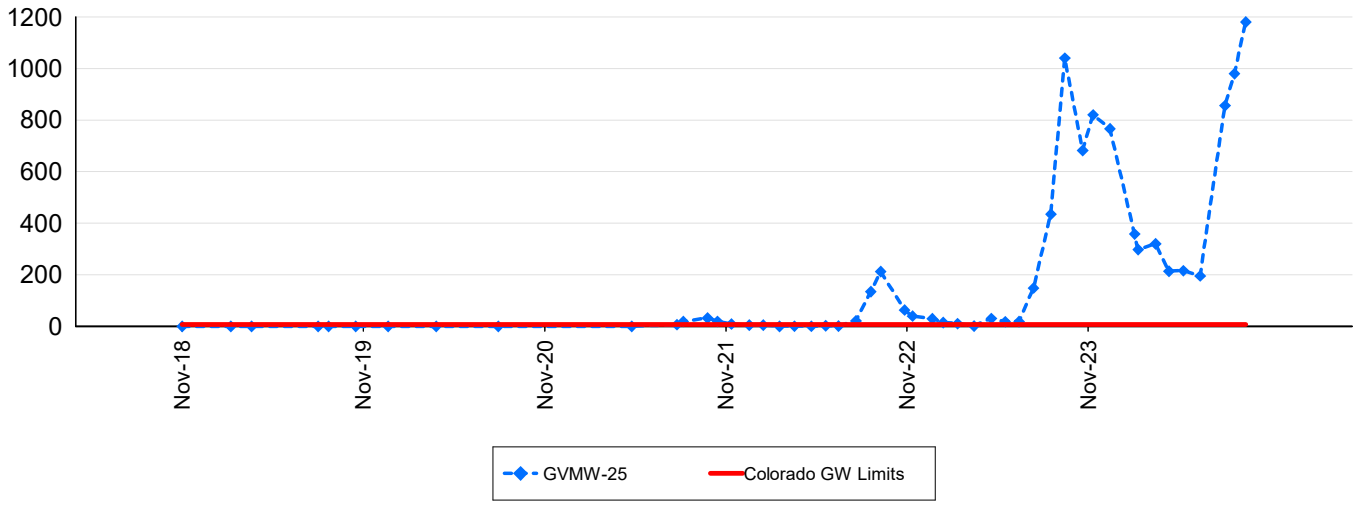
P 719.689.2977
F 719.689.3254
newmont.com

Attachment 4

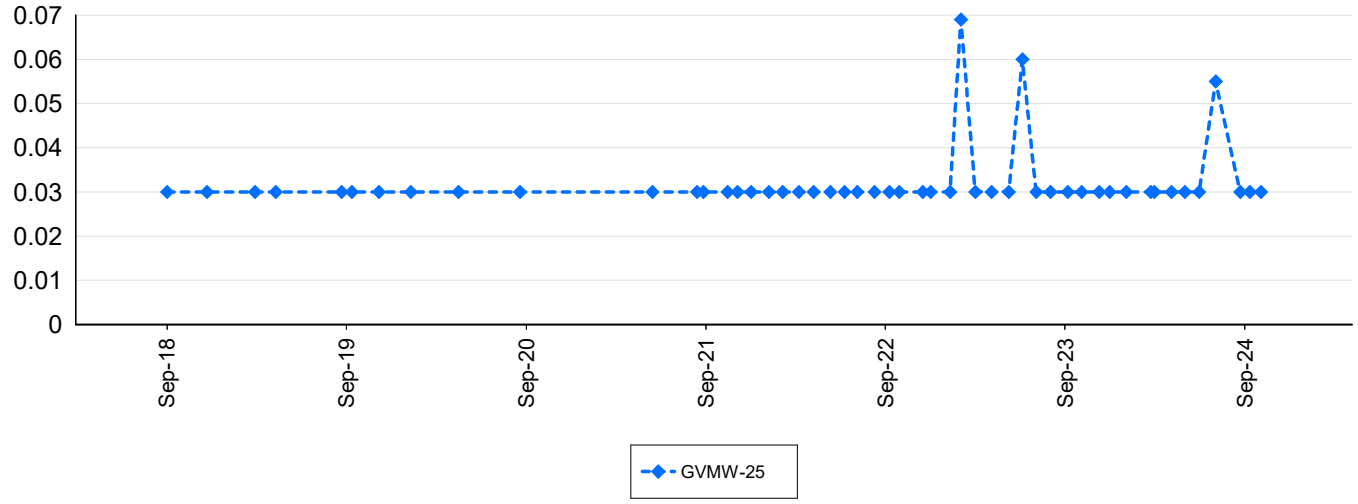
GVMW-25 Historical Graphs

Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

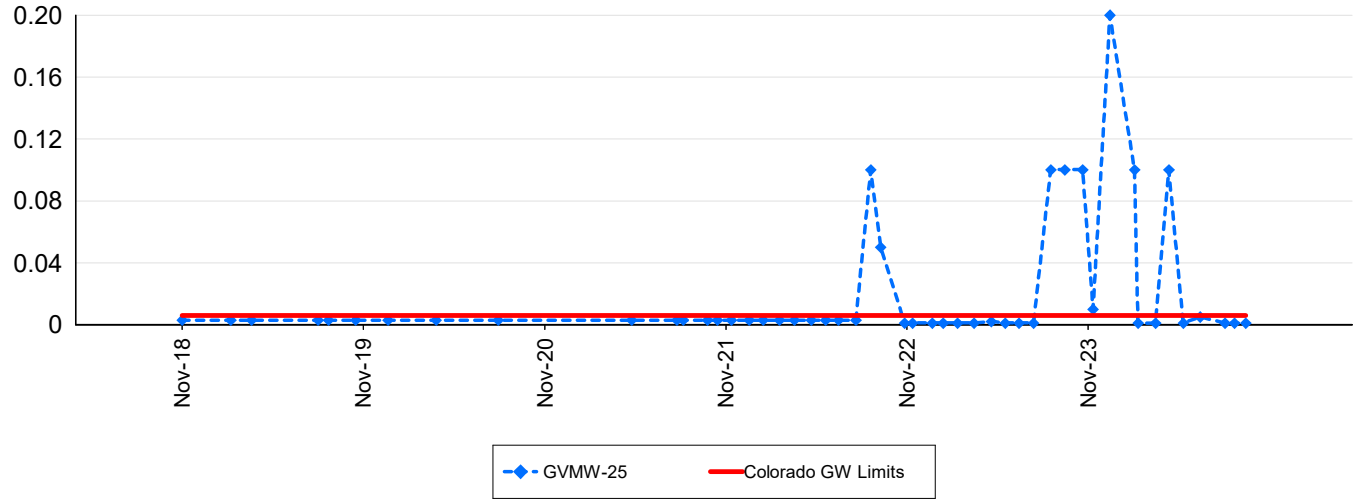
Grassy Valley: Aluminium - Dissolved (mg/L)



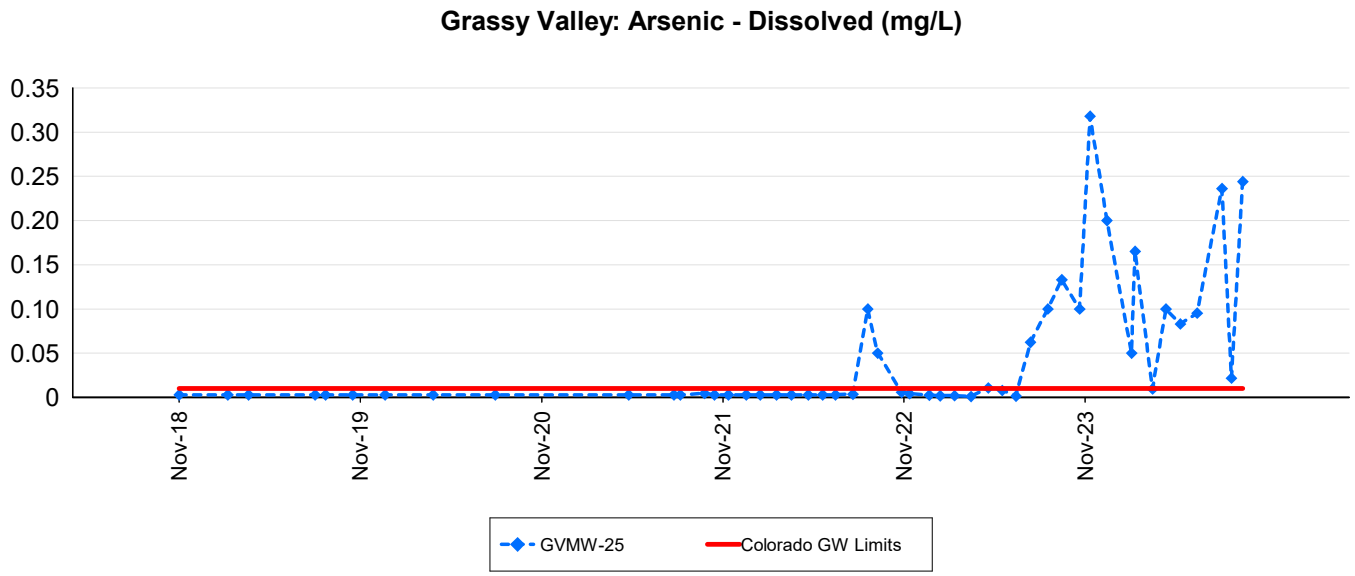
Grassy Valley: Ammonia (mg/L)

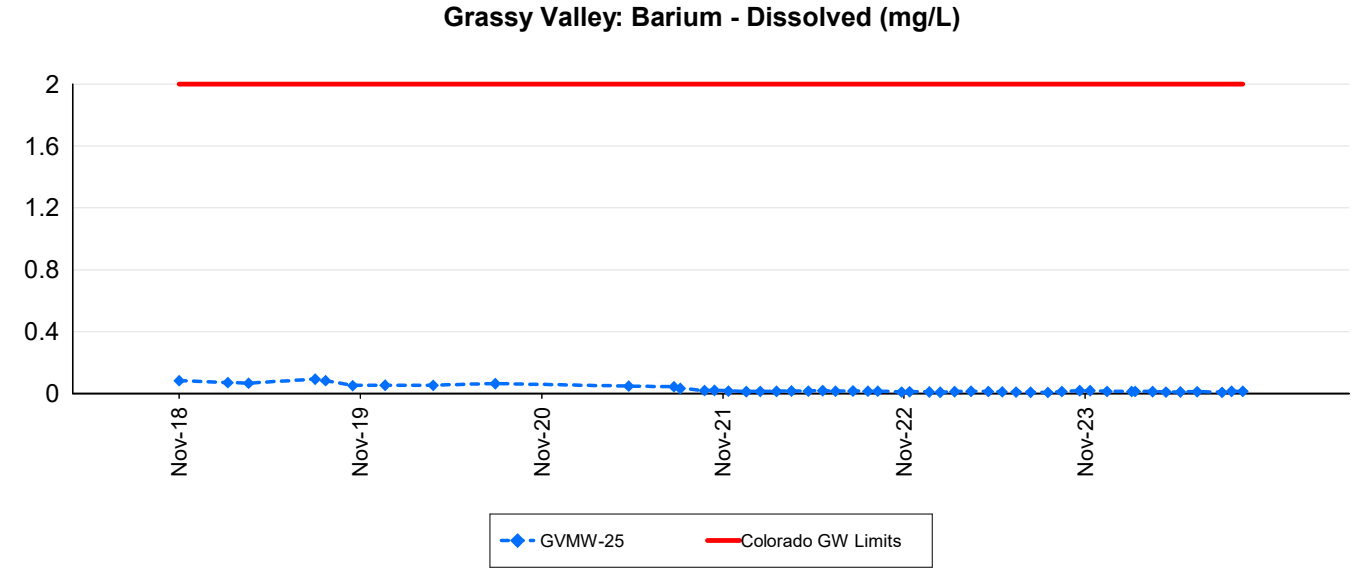


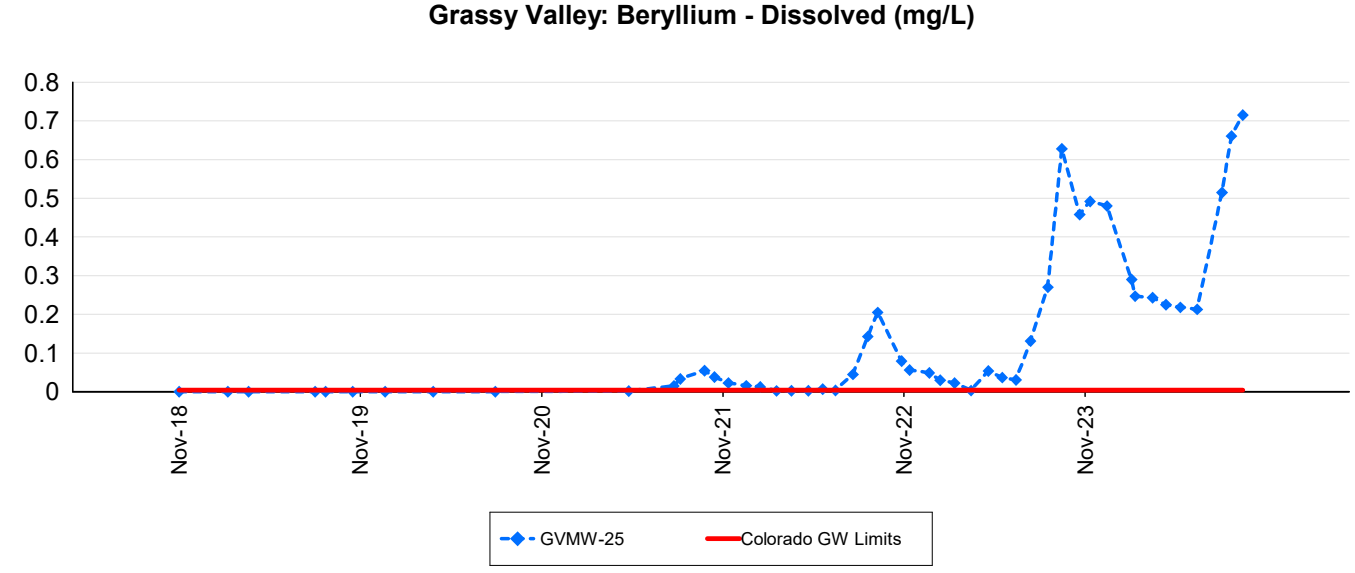
Grassy Valley: Antimony - Dissolved (mg/L)



Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

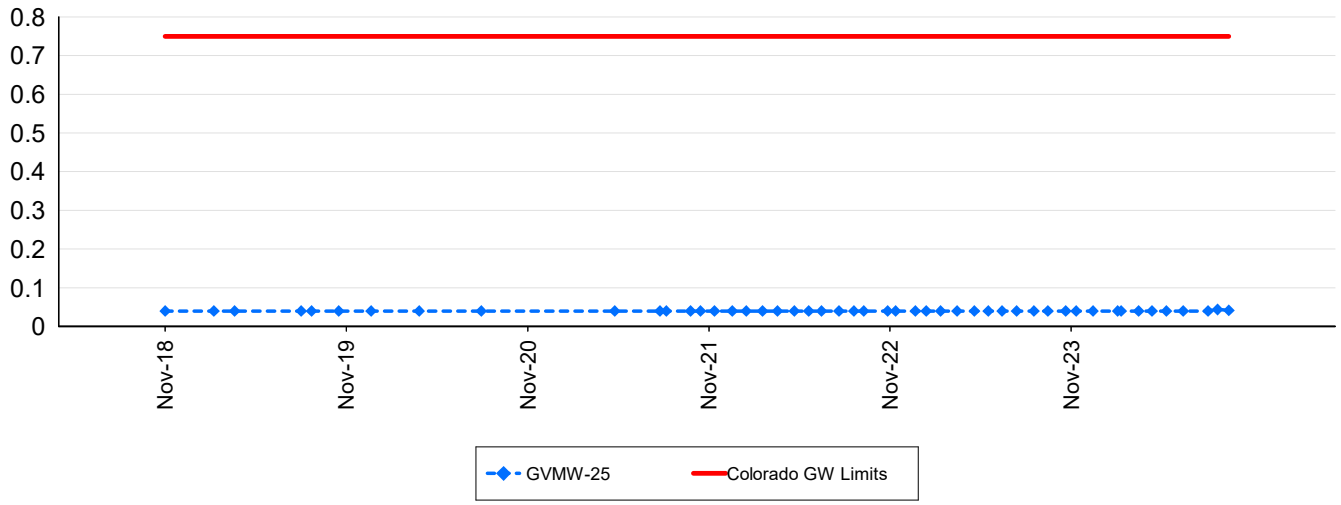




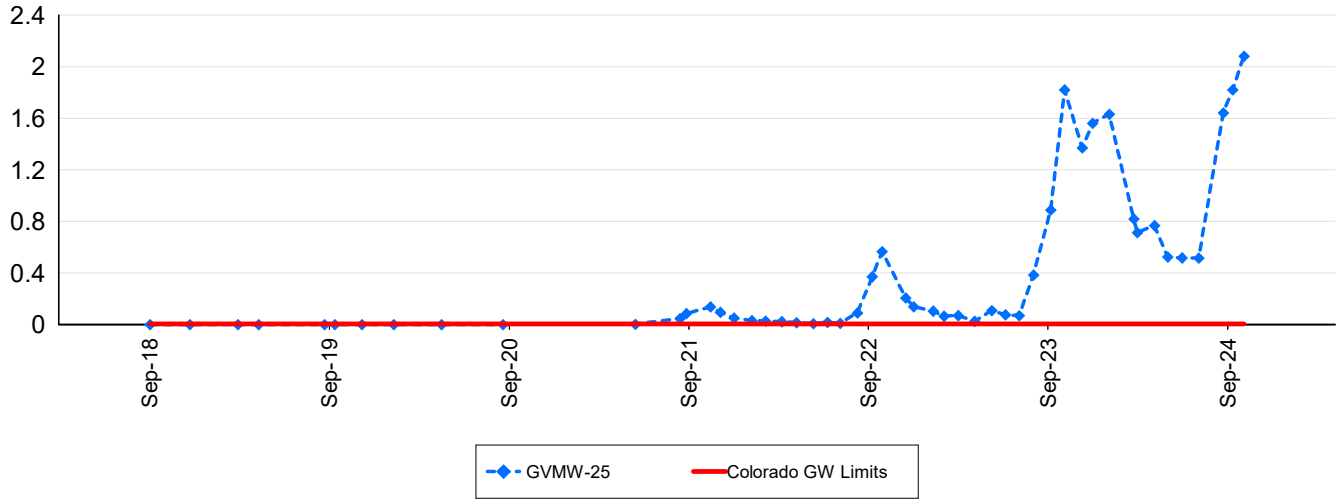


Docusign Envelope ID: 262F2CC8-DF3B-4007-B829-621874876B39

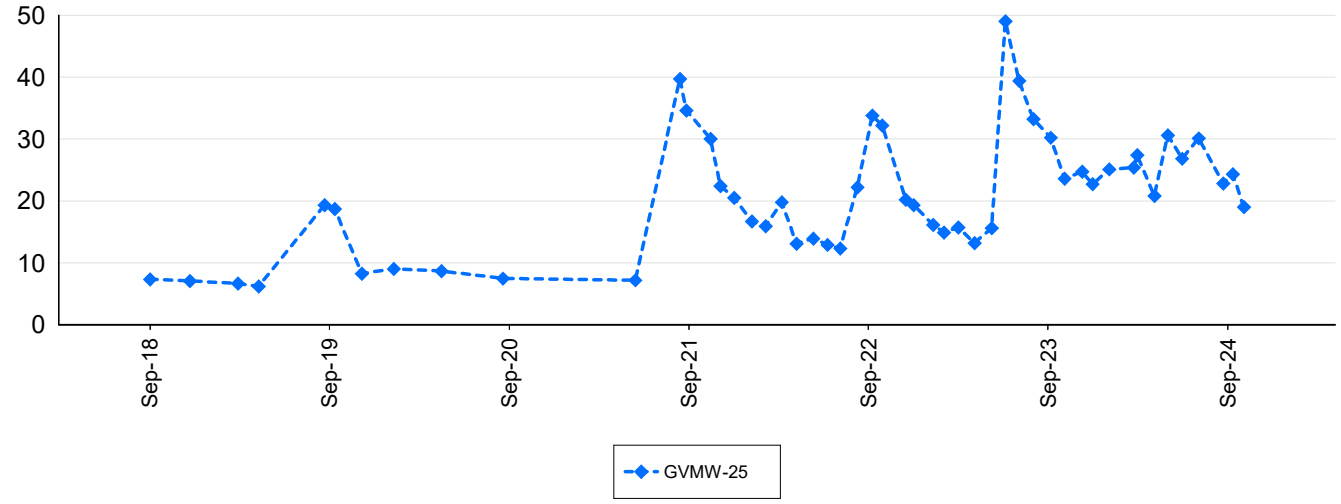
Grassy Valley: Boron - Dissolved (mg/L)



Grassy Valley: Cadmium - Dissolved (mg/L)



Grassy Valley: Chloride - Total (mg/L)



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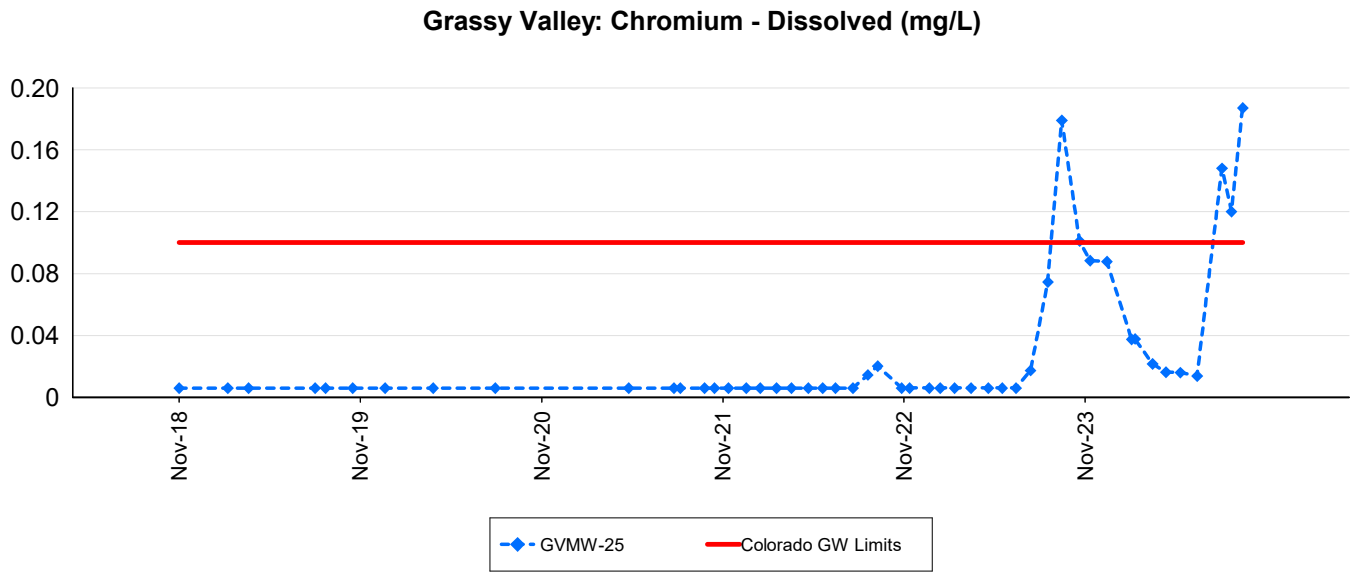

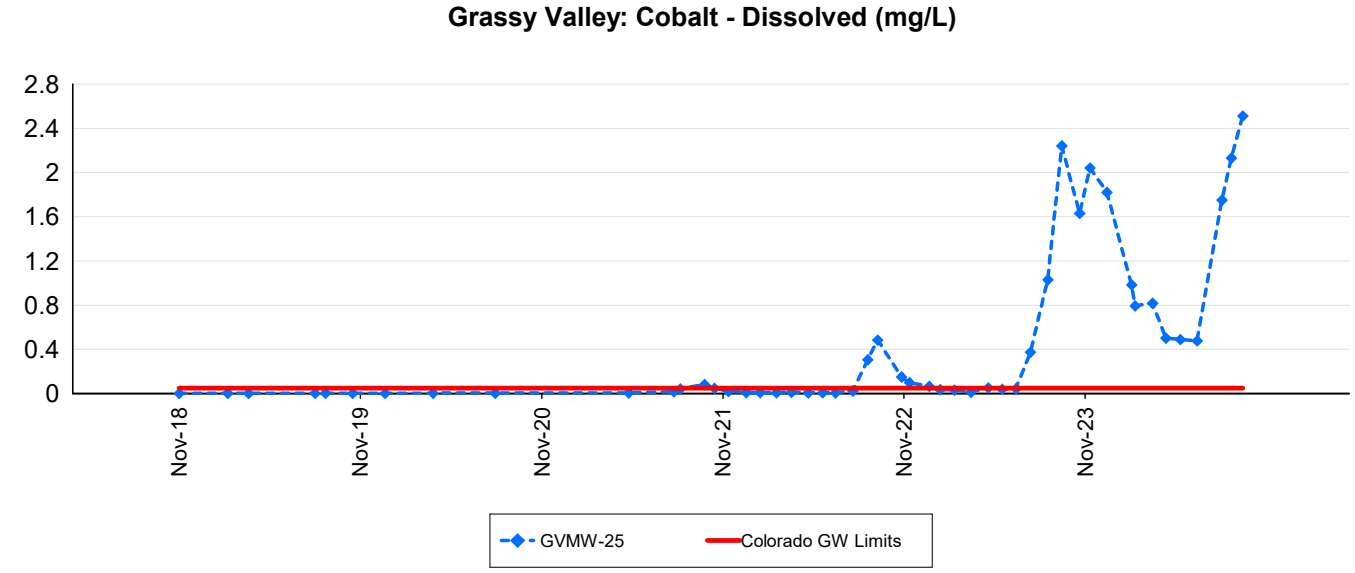

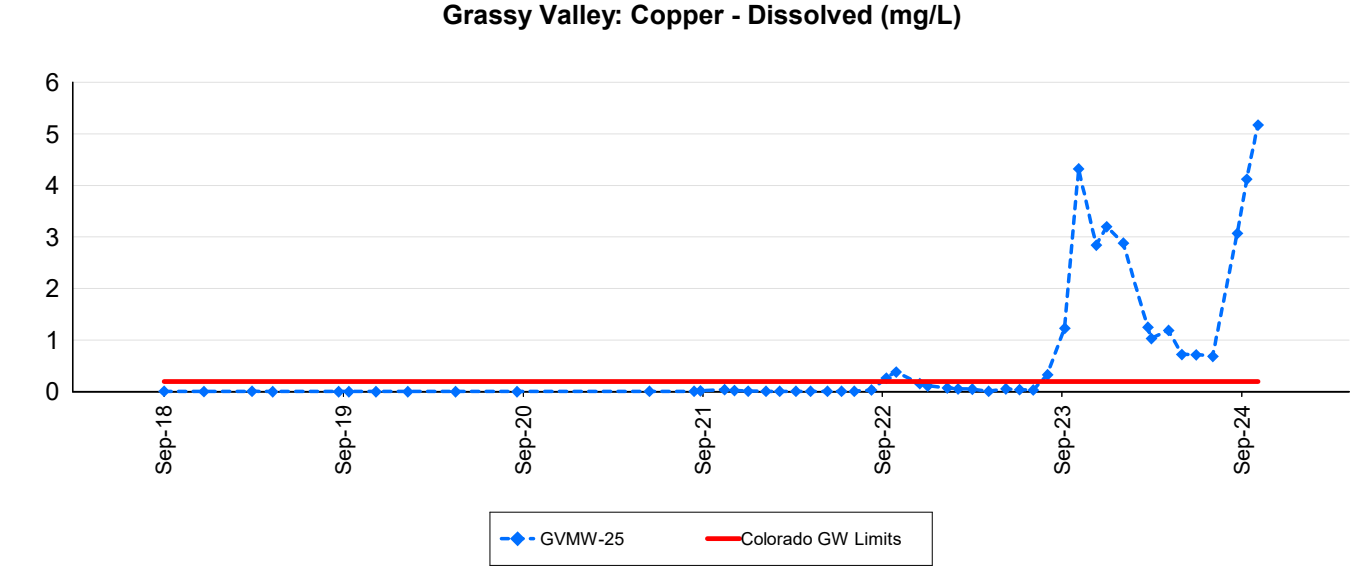

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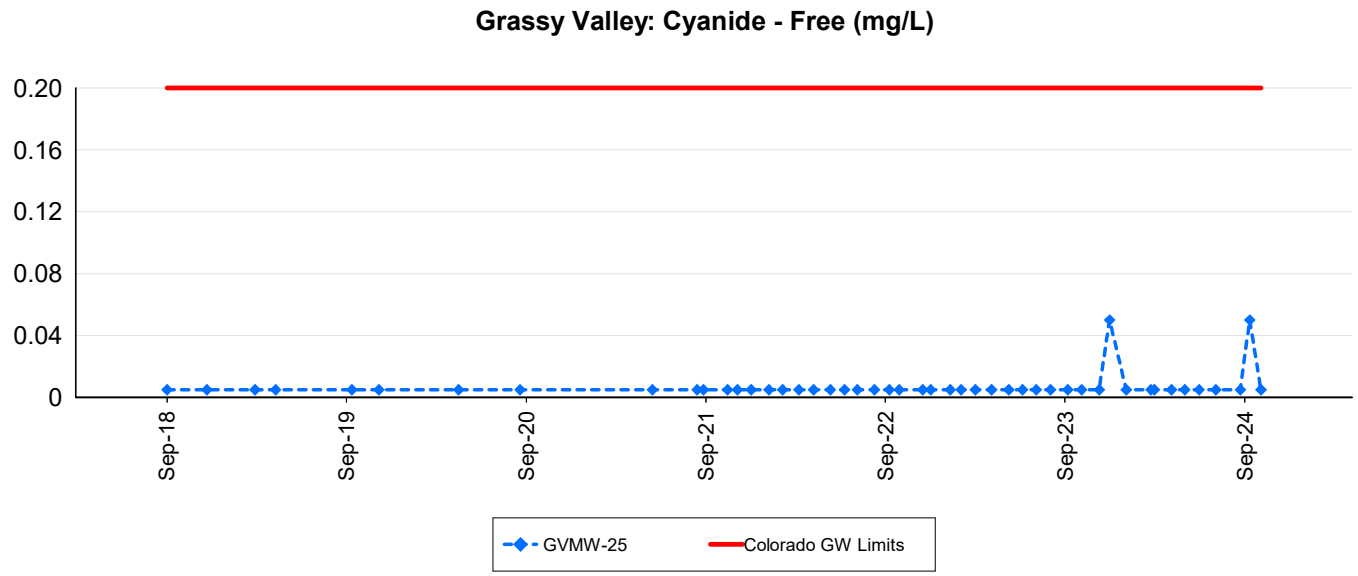

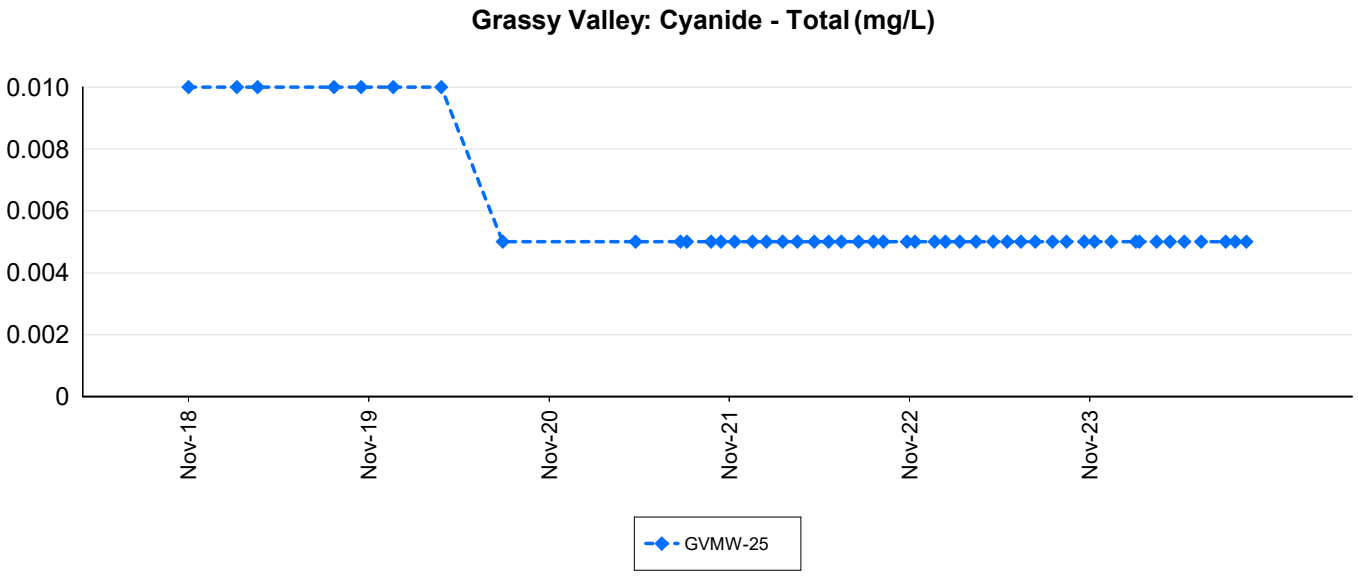

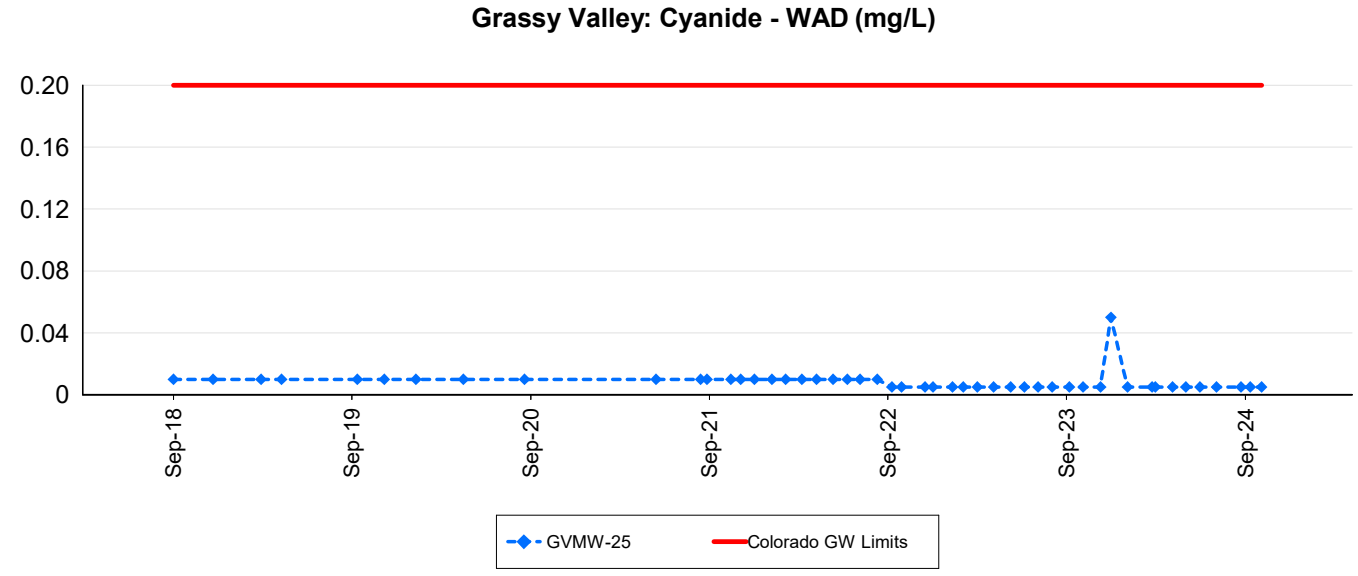

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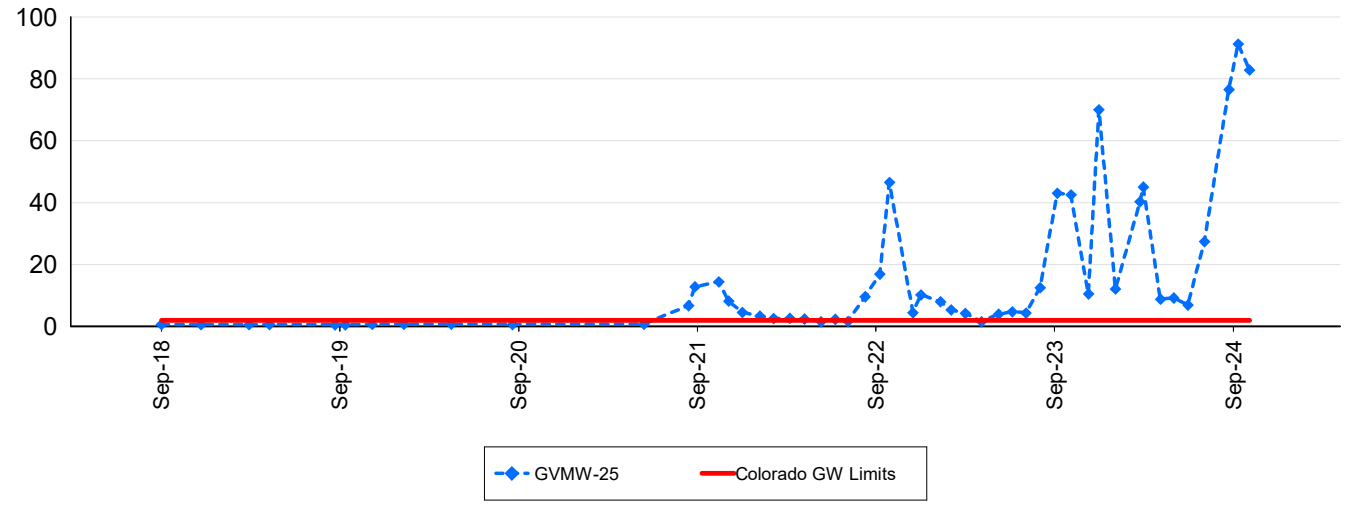
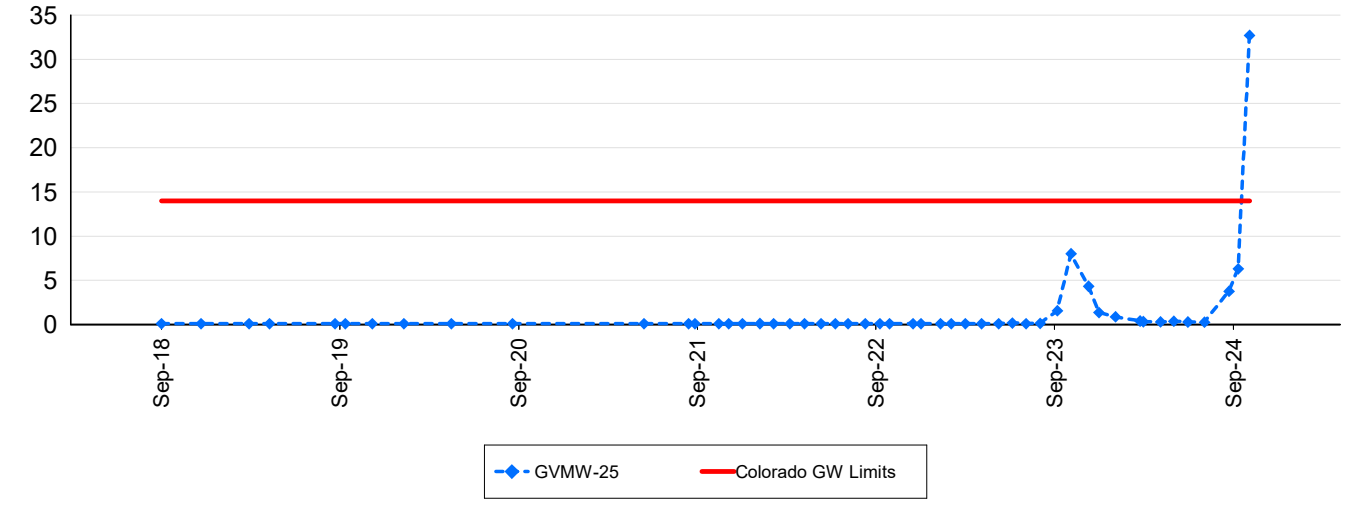
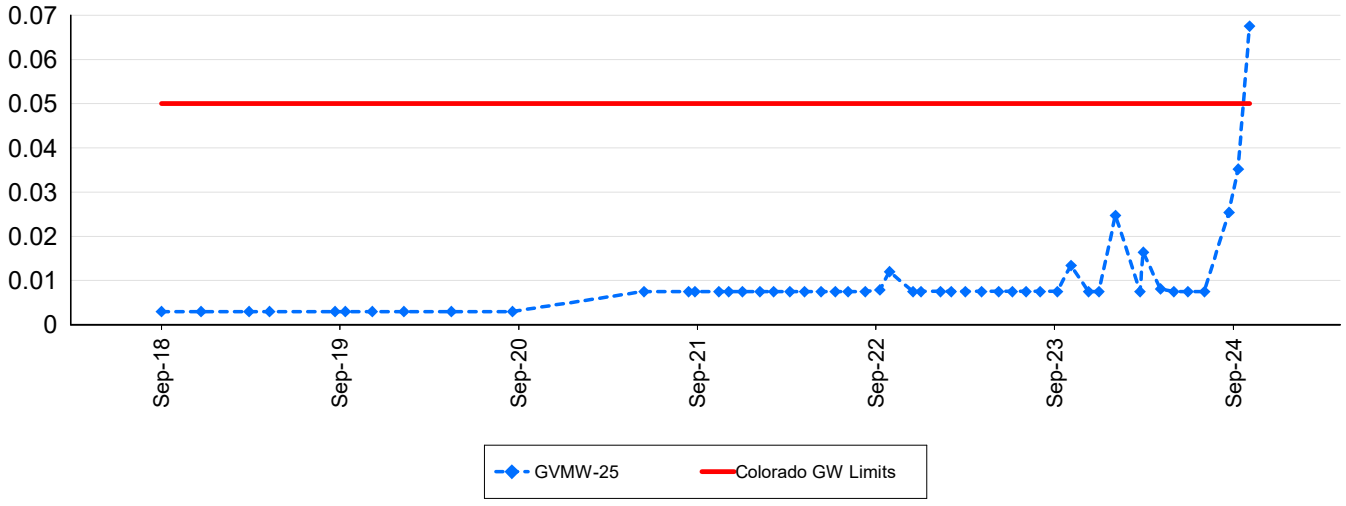
Grassy Valley: Fluoride - Total F (mg/L)



Grassy Valley: Iron - Dissolved (mg/L)



Grassy Valley: Lead - Dissolved (mg/L)



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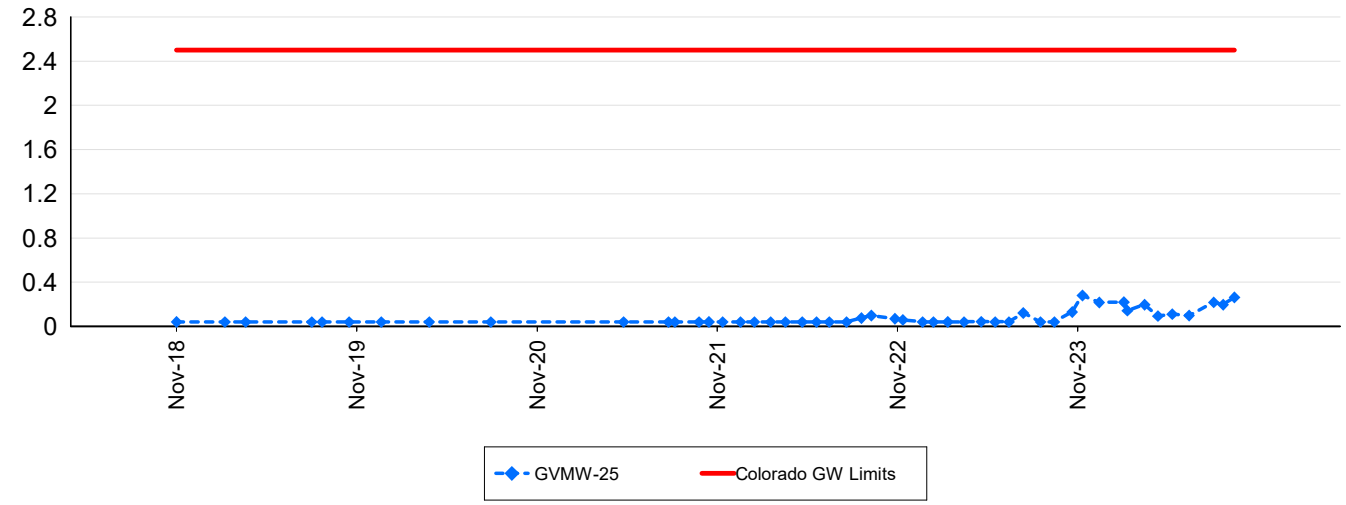
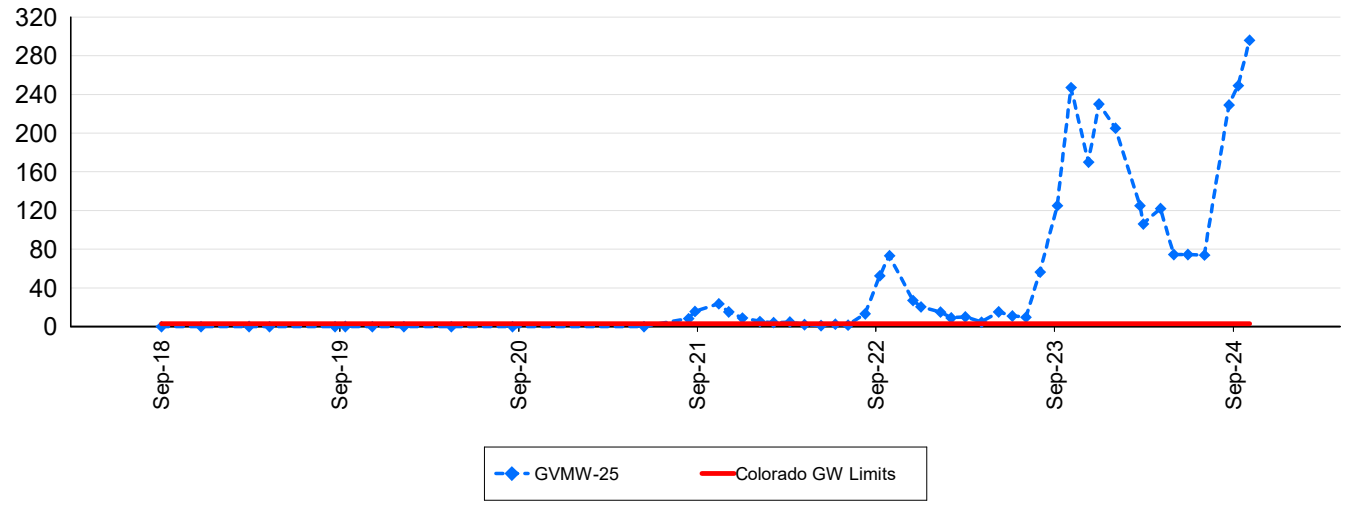
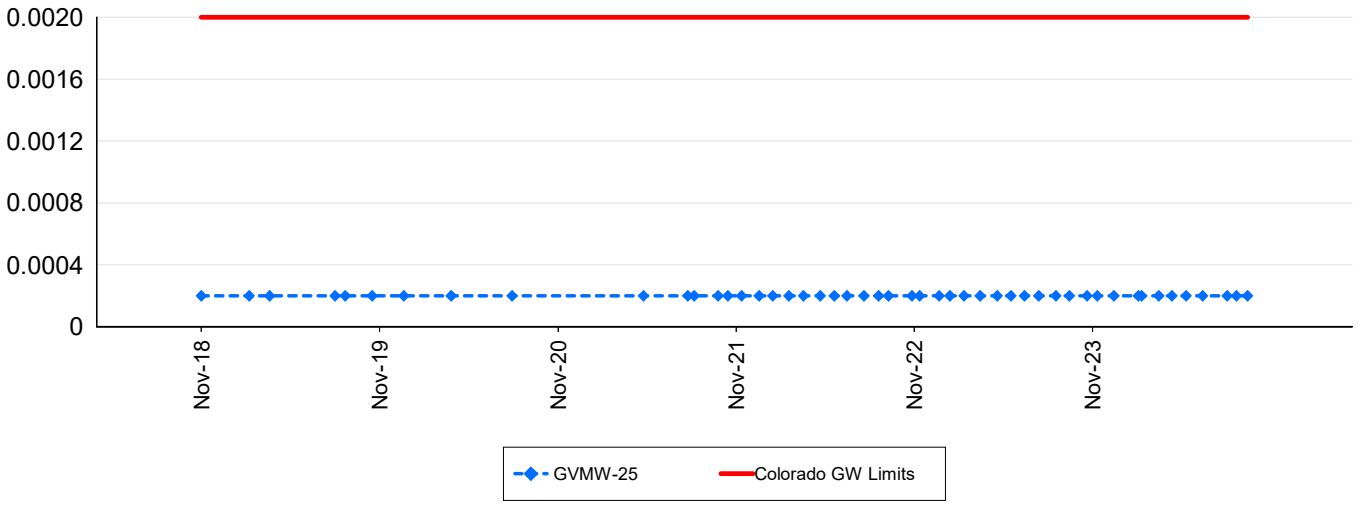
Grassy Valley: Lithium - Dissolved (mg/L)



Grassy Valley: Manganese - Dissolved (mg/L)



Grassy Valley: Mercury - Dissolved (mg/L)



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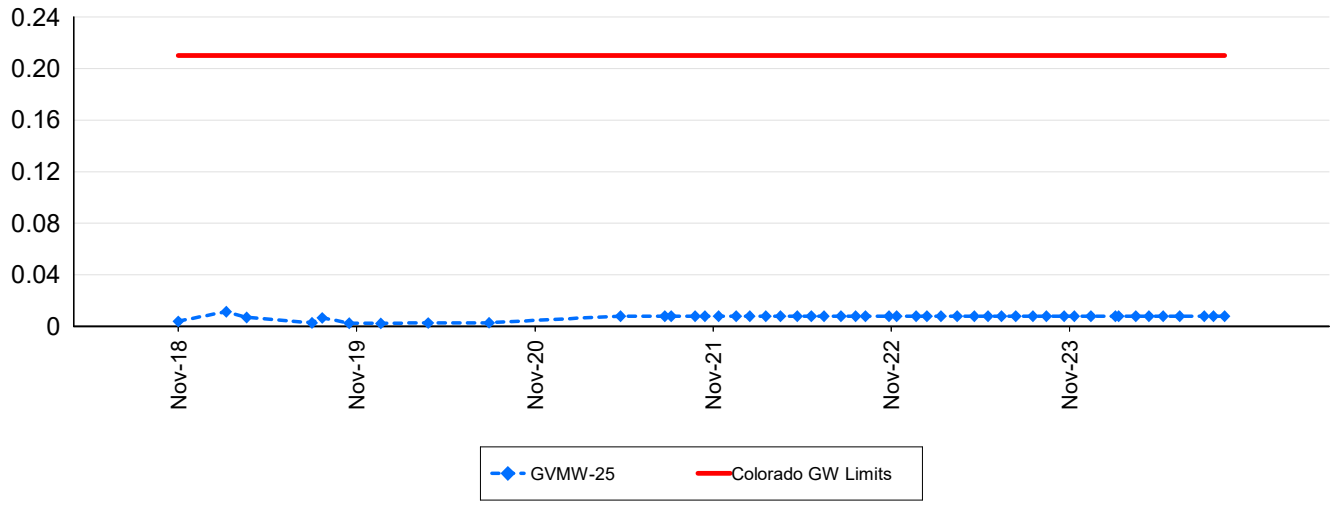
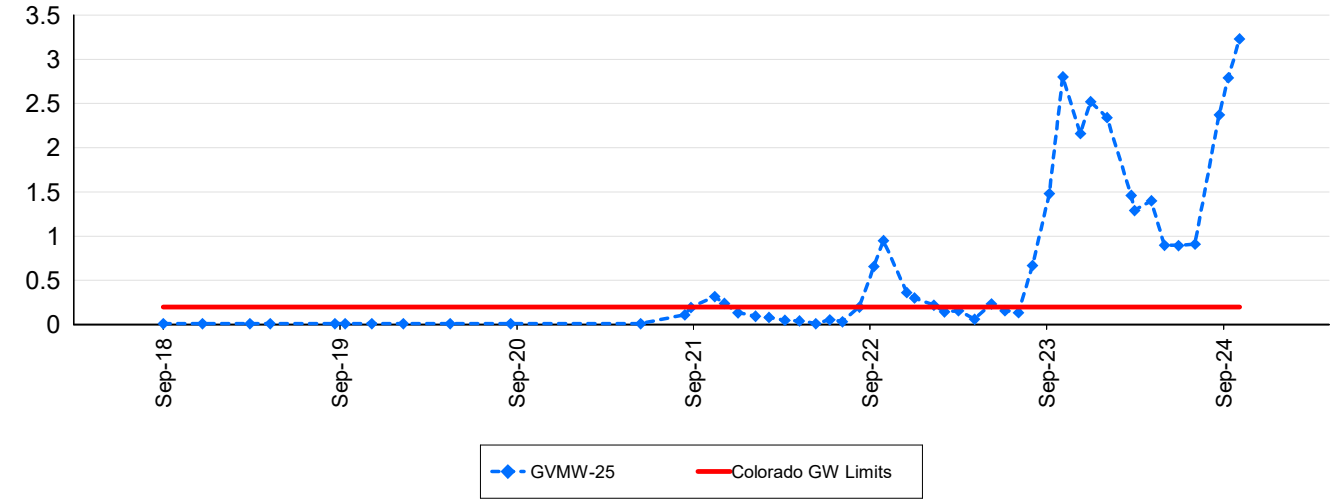
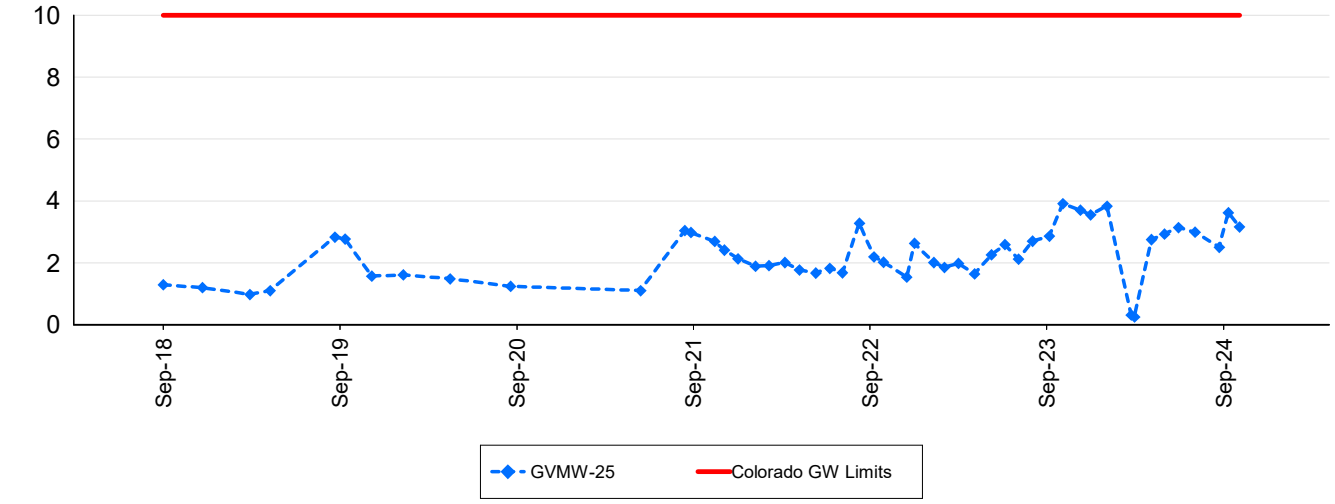
Grassy Valley: Molybdenum - Dissolved (mg/L)



Grassy Valley: Nickel - Dissolved (mg/L)



Grassy Valley: Nitrate as Nitrogen (mg/L)



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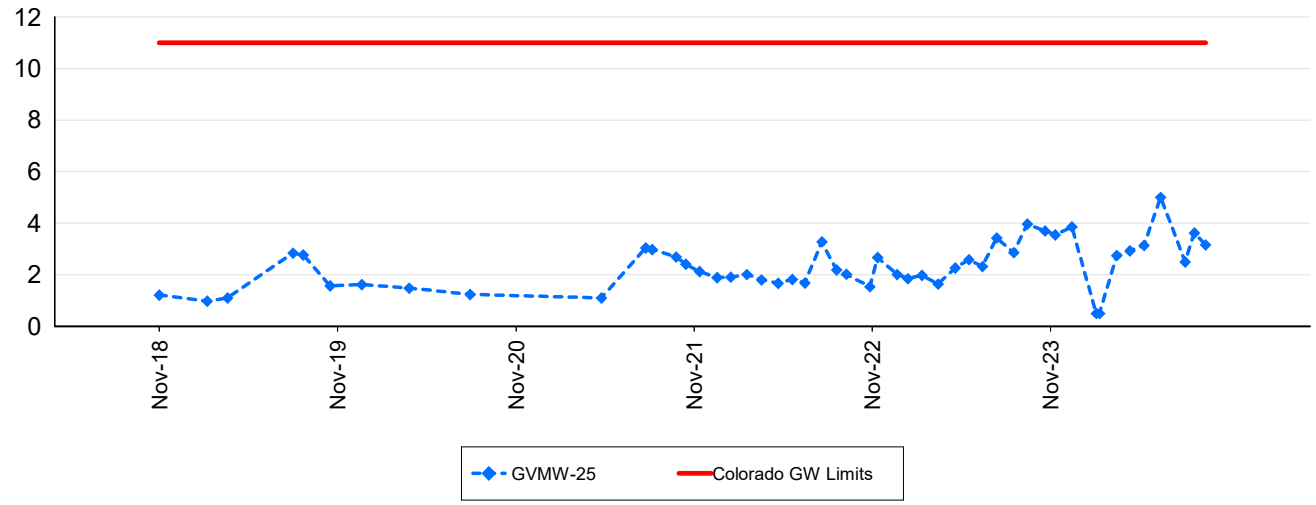
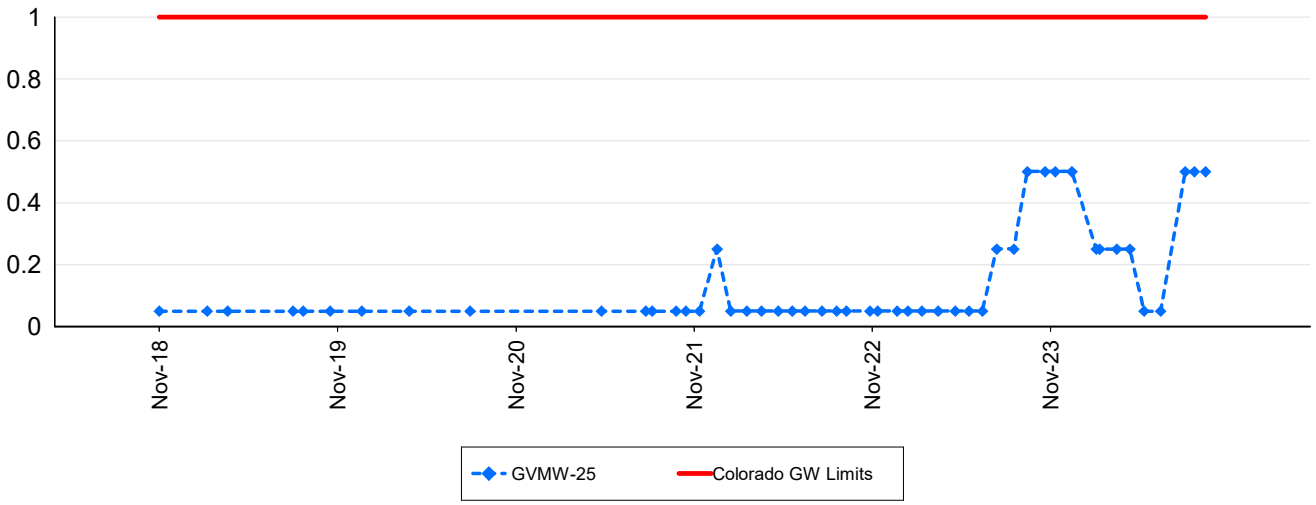
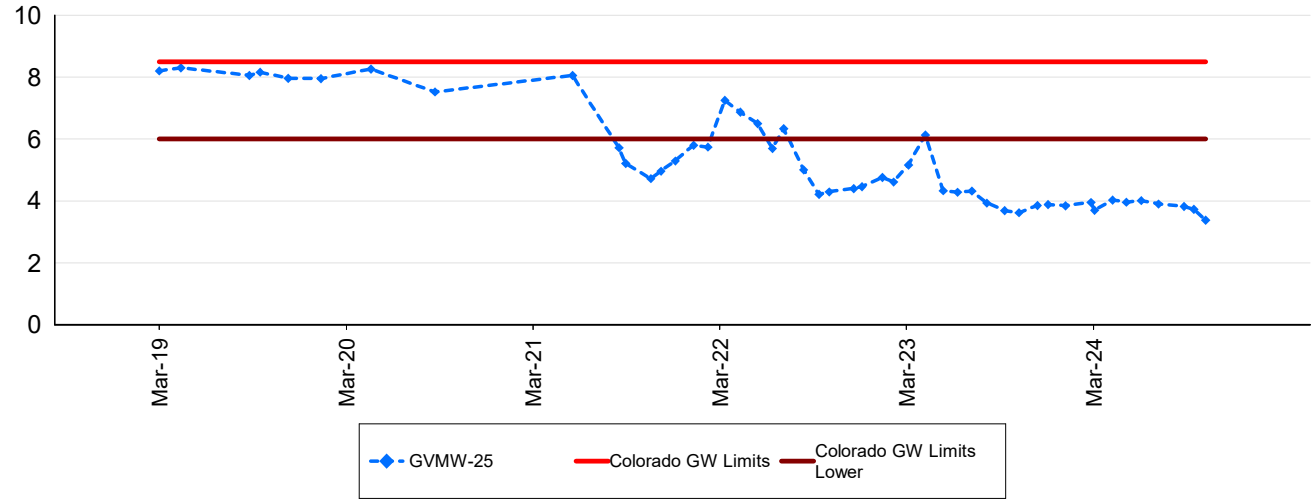
Grassy Valley: Nitrite + Nitrate as Nitrogen (mg/L)



Grassy Valley: Nitrite as Nitrogen (mg/L)



Grassy Valley: pH Field (pH unit)



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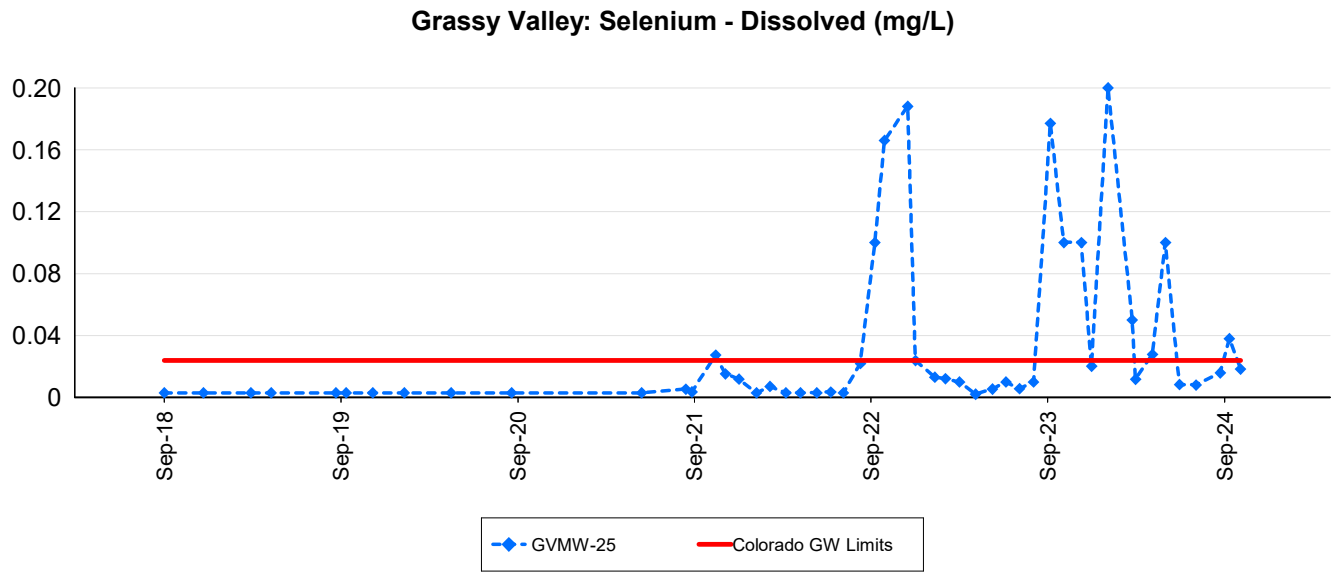

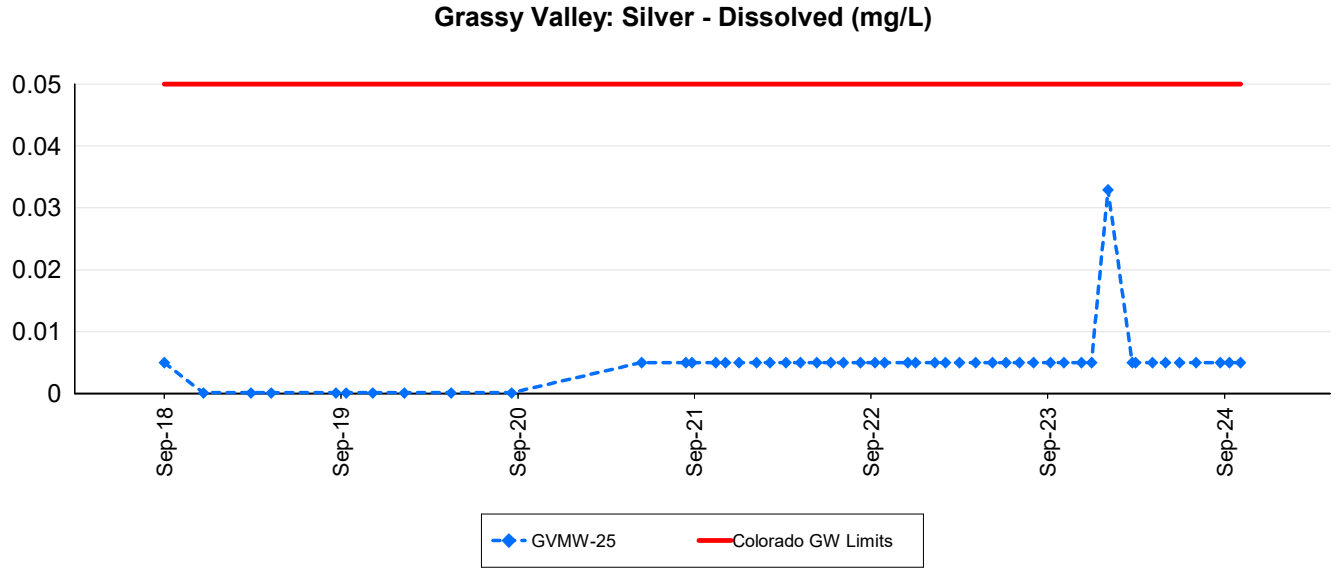

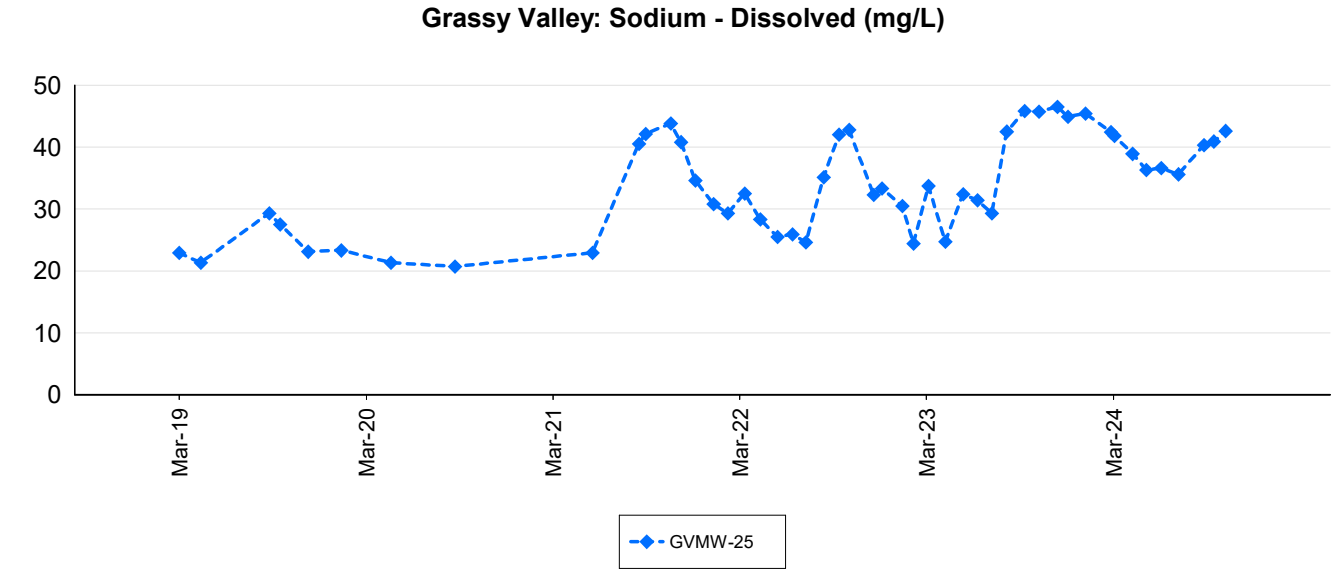

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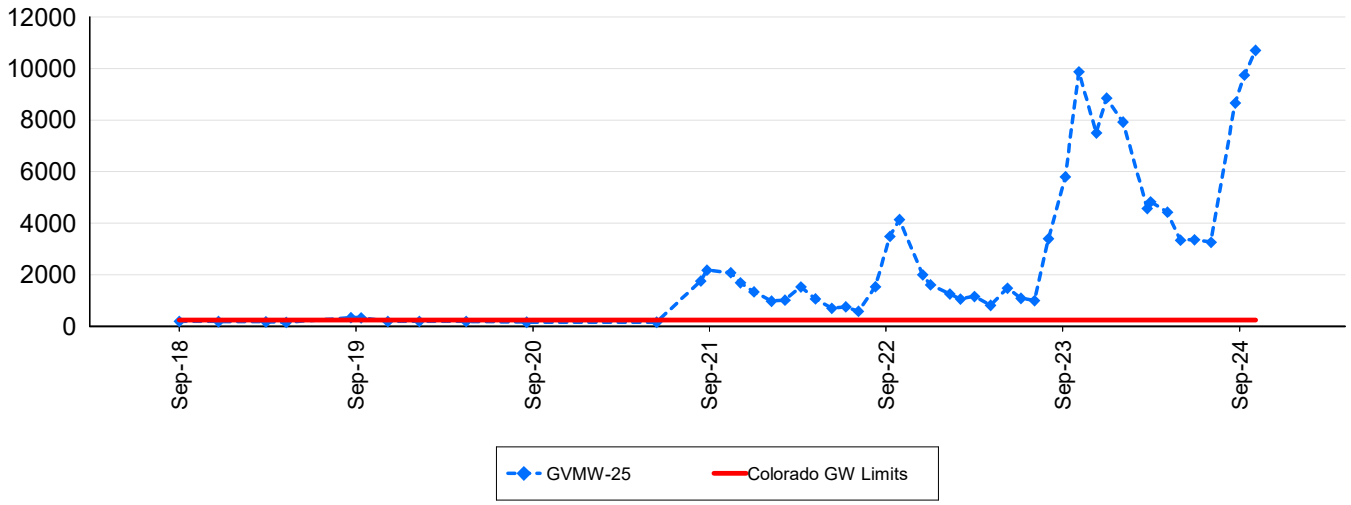
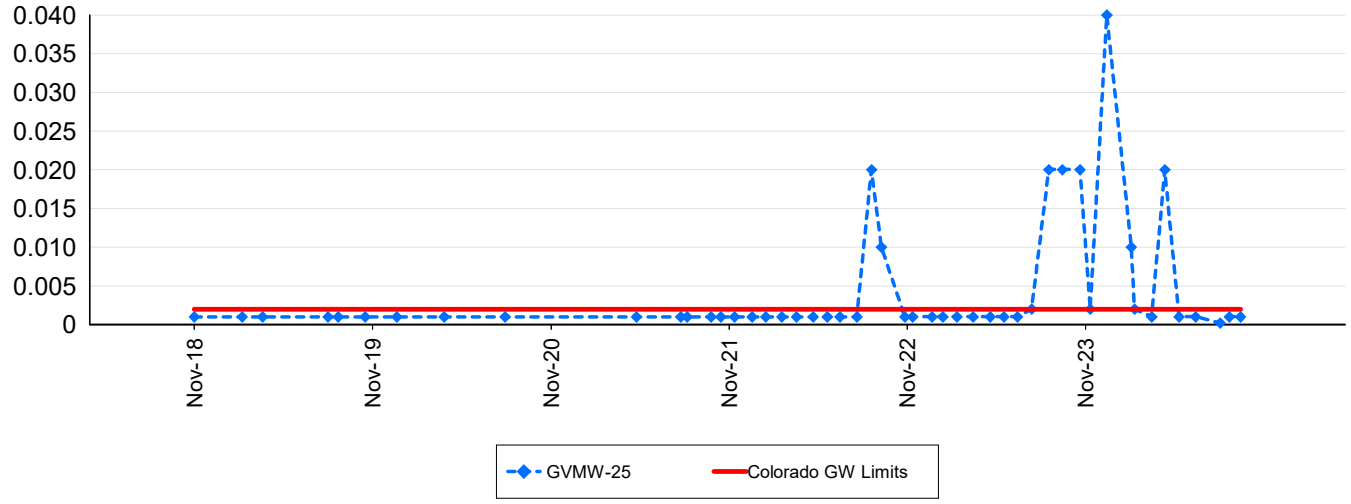
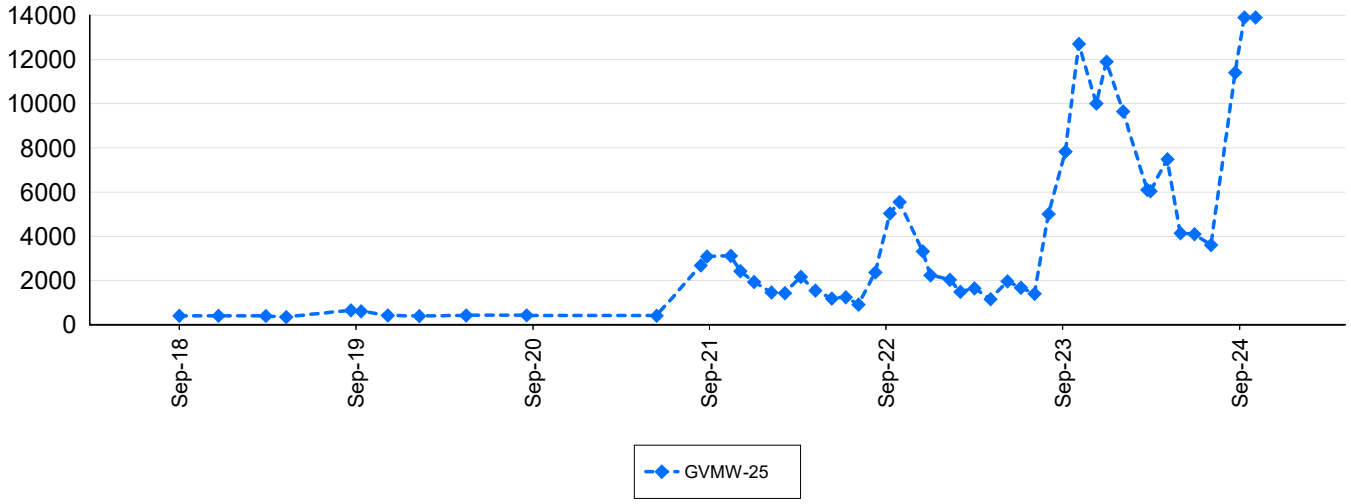
Grassy Valley: Sulfate - Total (mg/L)



Grassy Valley: Thallium - Dissolved (mg/L)



Grassy Valley: Total Dissolved Solids (mg/L)



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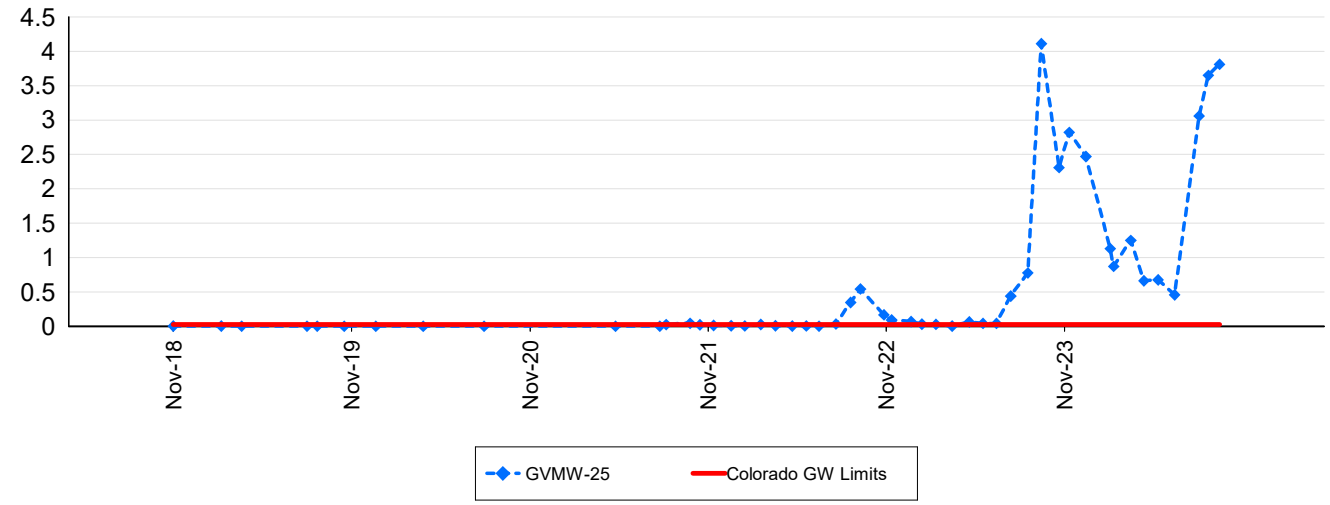
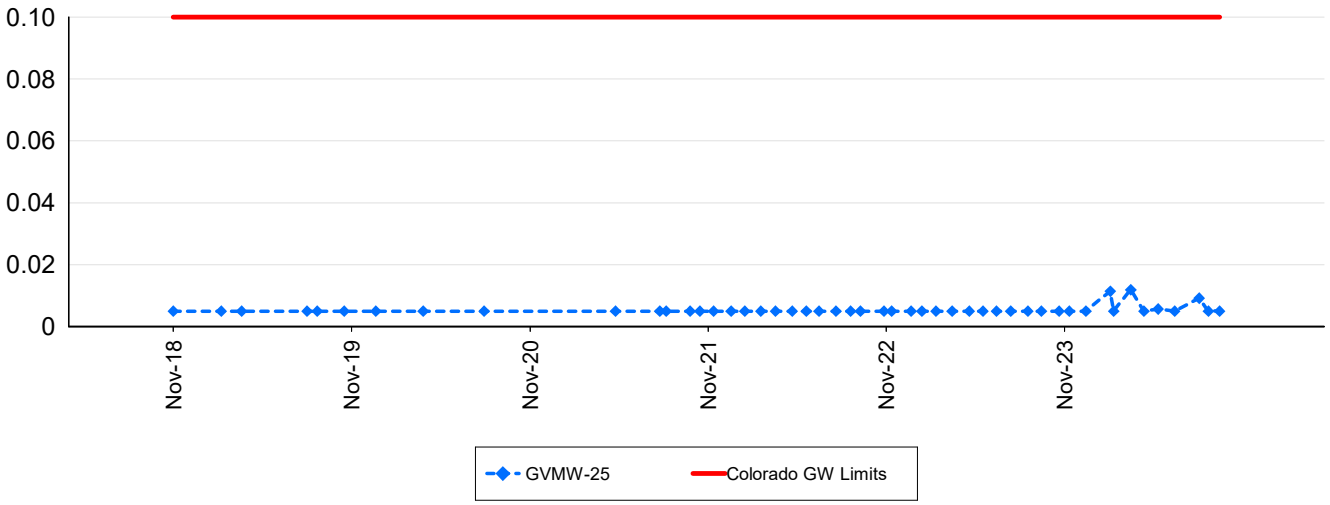
Grassy Valley: Uranium - Dissolved (mg/L)



Grassy Valley: Vanadium - Dissolved (mg/L)



Grassy Valley: Zinc - Dissolved (mg/L)