



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

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December 19, 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 November 2024 Report Submission, December 19, 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 November 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 November monitoring period, CC&V was unable to collect water samples from the following monitoring locations for the respective reasons:

- GVMW-4A and GVMW-10 were not sampled due to inclement conditions preventing access to the locations.
- GVMW-24A had sediment-laden water that caused the pump to overheat and malfunction;
- GVMW-15C was dry;
- GVMW-29, GVMW-31 and GVMW-32 were dry and GVMW-30 had insufficient water to sample;
- OSABH-12, OSABH-14, and OSABH-18 were dry and OSABH-16 was inaccessible due to inclement conditions;
- EMP-16, EMP-17, EMP-17A, EMP-17C, and EMP-020 were frozen/snow covered; and
- GV-06, GV-4.5, GV-05, GV-02 and GV-03 were frozen/dry.



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Groundwater Level Measurements

Prior to the collection of groundwater samples, depth to groundwater was measured using a Geotech™ water level indicator. The water level indicator was decontaminated with Alconox™ soap and rinsed with de-ionized water prior to each measurement to prevent cross contamination.

Groundwater Sampling

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

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

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 November 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. Complete laboratory analytical reports from the November 2024 sampling event are included in Attachment 1 and field-collected data is presented on the sampling logs in Attachment 2.

DISCUSSION

Groundwater

Observed groundwater quality data continues to show similar trends to previously recorded data with highest concentrations around October, then declining until the following fall. This trend seems to mirror seasonal fluctuations in precipitation.

Trend graphs of various constituents from the GVMW-25 monitoring location, within the property boundaries, are presented in Attachment 3. In general, results at the GVMW-25 location show a

decreasing trend in concentrations as compared to the October 2024 data. Aluminum, arsenic, beryllium, cadmium, chromium, cobalt, copper, fluoride, iron, lead, lithium, manganese nickel, nitrate, sulfate, uranium, and zinc concentrations have decreased compared to October 2024. Chloride, ammonia and sodium concentrations increased slightly compared to October 2024. All other constituents remained consistent with the October 2024 results. Antimony, boron, chromium, cyanide, lithium, mercury, molybdenum, selenium, silver, thallium, and vanadium concentrations were not detected in the November 2024 samples.

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

Other notable results include:

- Elevated fluoride at the GVMW-8B and GVMW-22A locations
- Elevated sulfate concentrations at GVMW-24B.
- Elevated iron concentrations in GVMW-15A.

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

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

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

Newly Constructed Monitoring Wells

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

Surface water

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

Stormwater Detention Ponds

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



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

Sincerely,

DocuSigned by:

Katie Blake

5A3D013B629844B...

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

EC: P. Lennberg
E. Russell
Z. Trujillo
K. Blake
J. Gonzalez
J. Adams
A. Matarrese

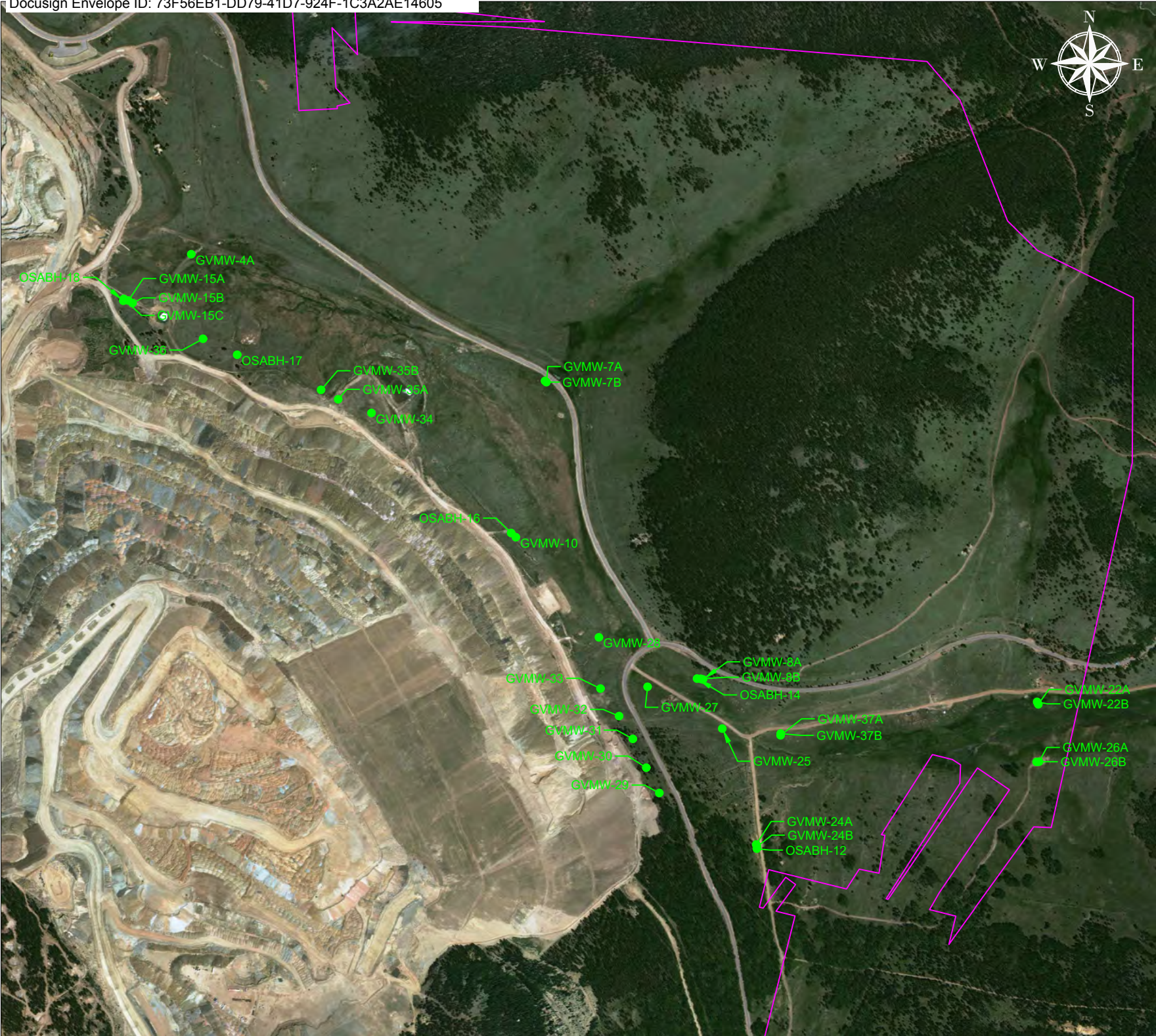
File: "C:\Users\19012214\Newmont USA Limited\CC&V - S&ER Environmental - Environmental Compliance\Water\DRMS\Grassy Monthly\2024\11 - November\Final"



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Figures



LEGEND		
	MONITORING WELL	
	PERMIT BOUNDARY	

General Notes		

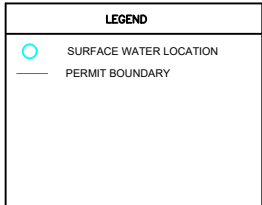
No.	Revision/Issue	Date

Firm Name and Address	
Newmont CRIPPLE CREEK & VICTOR	

Drawing Name	
GRASSY VALLEY MONITORING WELLS	

Project GRASSY VALLEY OMP	Sheet G1
Date 10/8/2024	

Scale	500	1000
Feet		



No.	Revision/Issue	Date

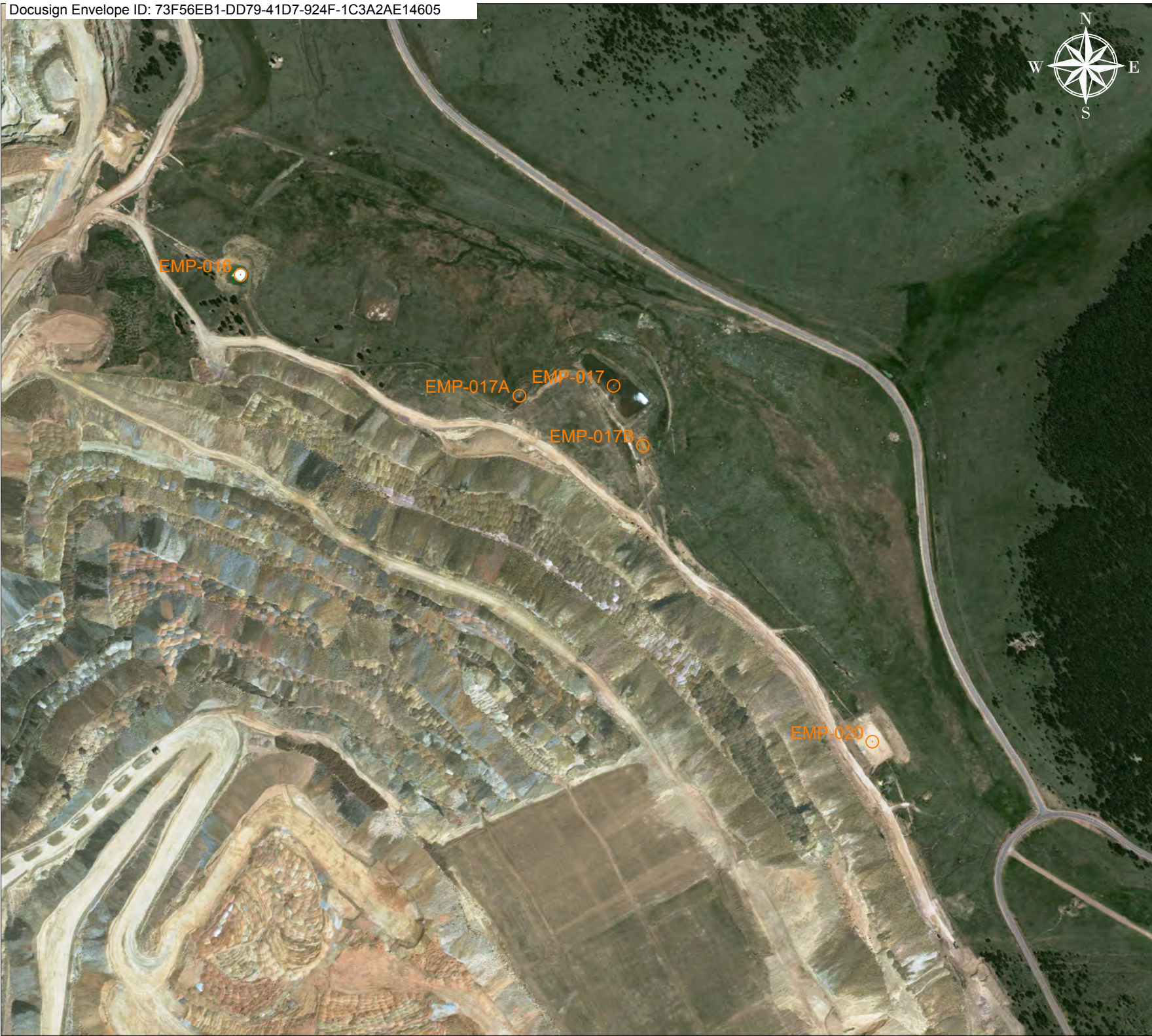


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GRASSY VALLEY
SURFACE WATER MONITORING

Project GRASSY VALLEY OAPP	Sheet G2
Date 10/8/2024	

0 700 1400 Feet



LEGEND		
	EMP	
	PERMIT BOUNDARY	

General Notes		

No.	Revision/Issue	Date

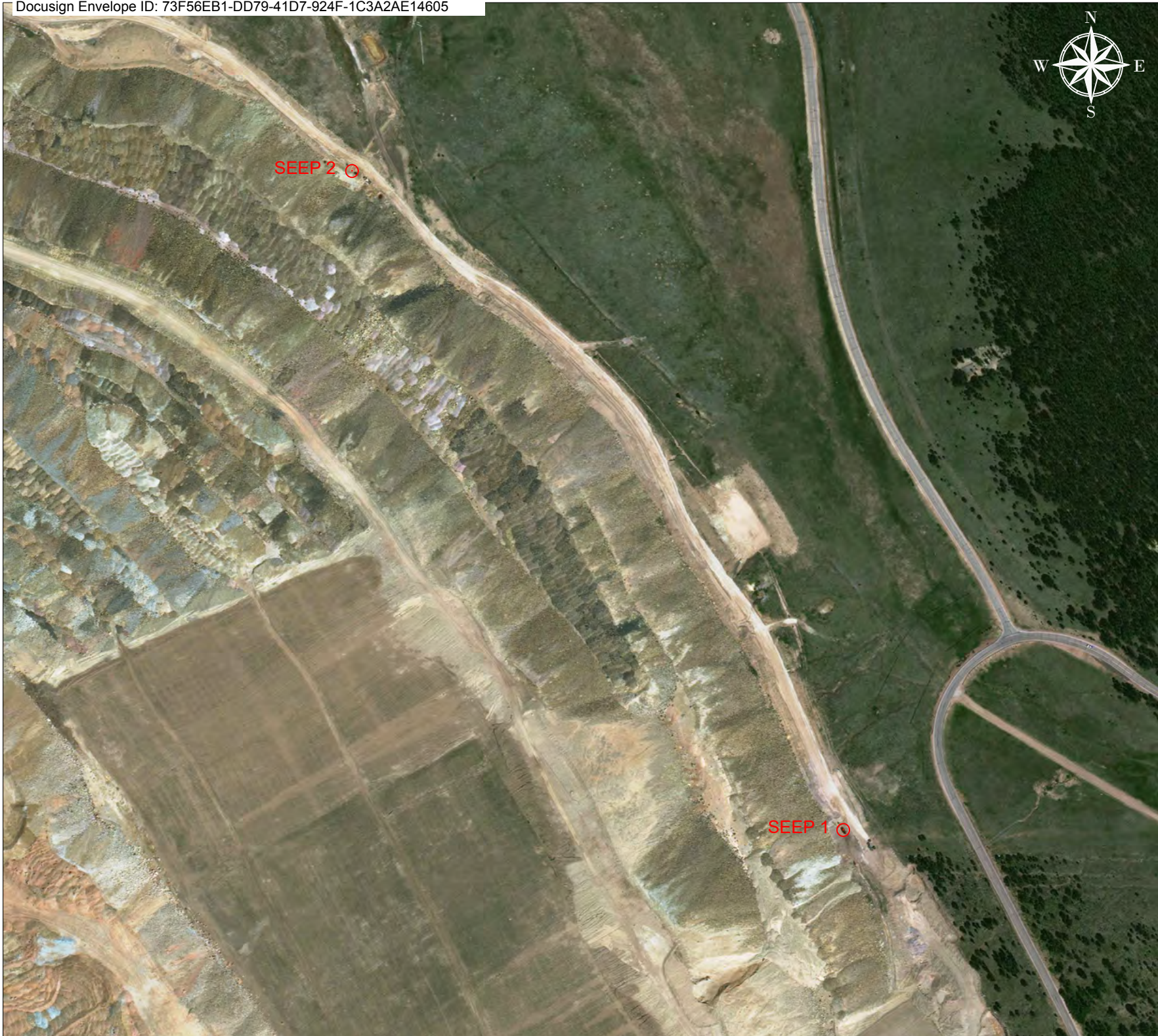
Firm Name and Address	
 CRIPPLE CREEK & VICTOR	

Drawing Name	
GRASSY VALLEY EMP MONITORING	

Project	Sheet
GRASSY VALLEY OAPP	G3

Date
10/8/2024

Scale
300 600 Feet



LEGEND	
	SEEP LOCATION
	PERMIT BOUNDARY

General Notes		

No.	Revision/Issue	Date

Firm Name and Address

Newmont
CRIPPLE CREEK & VICTOR

Drawing Name

GRASSY VALLEY
ECOSA SEEP MONITORING

Project GRASSY VALLEY GAPP	Sheet G4
Date 10/6/2024	

Scale: 0 200 400 Feet



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Tables

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

Monitoring Location	Date Monitored	Status
GVMW-4A	11/25/2024	Not sampled, location inaccessible due to inclement conditions
GVMW-7A	11/11/2024	Sampled
GVMW-7B	11/11/2024	Sampled
GVMW-8A	11/25/2024	Sampled
GVMW-8B	11/20/2024	Sampled
GVMW-10	11/26/2024	Not sampled, location inaccessible due to inclement conditions
GVMW-15A	11/21/2024	Sampled
GVMW-15B	11/21/2024	Sampled
GVMW-15C	11/21/2024	Dry at 419' BTOC
GVMW-22A	11/18/2024	Sampled
GVMW-22B	11/18/2024	Sampled
GVMW-24A	11/21/2024	Not sampled due to sediment laden water causing the pump to overheat; unable to pump well
GVMW-24B	11/18/2024	Sampled
GVMW-25	11/20/2024	Sampled
GMVW-26A	11/19/2024	Sampled
GVMW-26B	11/19/2024	Sampled
GVMW-27	11/20/2024	Sampled
GVMW-28	11/26/2024	Sampled
GVMW-29	11/25/2024	Dry at 38.38' BTOC
GVMW-30	11/25/2024	NS-IW
GVMW-31	11/25/2024	Dry at 61.82' BTOC
GVMW-32	11/25/2024	Dry at 67.32' BTOC
GVMW-33	11/26/2024	Sampled
GVMW-34	11/26/2024	Sampled
GVMW-35A	11/21/2024	Sampled
GVMW-35B	11/26/2024	Sampled
GVMW-36	11/26/2024	Sampled
GVMW-37A	11/19/2024	Sampled
GVMW-37B	11/19/2024	Sampled
OSABH-12	11/21/2024	Dry at 39' bgs
OSABH-14	11/21/2024	Dry at 29' bgs
OSABH-16	11/26/2024	Not sampled, location inaccessible due to inclement conditions
OSABH-17	11/21/2024	Sampled
OSABH-18	11/21/2024	Dry at 52' BTOC
Ecosa Seep-1	11/20/2024	Not sampled; location frozen
Ecosa Seep-2	11/20/2024	Not sampled; location frozen
GV-02	11/18/2024	Not sampled; location frozen
GV-03	11/18/2024	Not sampled; location frozen
GV-06	11/18/2024	Not sampled; location frozen
GV-4.5	11/18/2024	Not sampled; location frozen
GV-05	11/18/2024	Not sampled; location frozen
EMP-016	11/20/2024	Not sampled; location frozen/snow covered
EMP-017	11/20/2024	Not sampled; location frozen/snow covered
EMP-017A	11/20/2024	Not sampled; location frozen/snow covered
EMP-17B	11/20/2024	Not sampled; location frozen/snow covered
EMP-17C	11/20/2024	Not sampled; location frozen/snow covered
EMP-020	11/20/2024	Not sampled; location frozen/snow covered

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

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

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D.	GVMW-7A	GVMW-7B	GVMW-8A*	GVMW-8B	GVMW-15A	GVMW-15B	GVMW-22A	GVMW-22B	GVMW-24B	GVMW-25	GMVW-26A	GVMW-26B
				Sample Date	11/11/2024	11/11/2024	11/25/2024	11/20/2024	11/21/2024	11/21/2024	11/18/2024	11/18/2024	11/18/2024	11/20/2024	11/19/2024	11/19/2024
Aluminum - Dissolved	5	7	mg/L		<0.080	<0.080	<0.080	<0.080	<0.080	0.431	<0.080	<0.080	<0.080	254	<0.080	<0.080
Ammonia	NA	NA	mg/L		<0.030	<0.030	<0.030	0.039	0.032	<0.030	<0.030	<0.030	<0.030	0.072	<0.030	<0.030
Antimony - Dissolved	0.006	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00500	<0.00100	<0.00100	<0.00100	<0.0100	<0.00500	<0.00500
Arsenic - Dissolved	0.01	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	<0.00100	0.0808	<0.00100	<0.00100
Barium - Dissolved	2	NA	mg/L		0.188	0.0262	<0.0020	0.0121	0.053	0.0159	0.106	0.0574	0.012	0.017	0.204	0.119
Beryllium - Dissolved	0.004	NA	mg/L		<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.032	<0.00200	<0.00200	<0.00200	0.167	<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	<0.0400
Cadmium - Dissolved	0.005	0.005	mg/L		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.569	<0.0020	<0.0020
Chloride - Total	250	NA	mg/L		14.1	35.8	61.5	45.1	1.48	1.17	3.73	6.37	18.9	29.1	1.34	1.92
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	<0.0060
Cobalt - Dissolved	0.05	NA	mg/L		<0.0060	<0.0060	<0.0060	0.0079	0.0291	0.0671	<0.0060	<0.0060	<0.0060	0.656	<0.0060	<0.0060
Copper - Dissolved	0.2	0.2	mg/L		<0.0100	<0.0100	<0.0100	0.0331	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.848	<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
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
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	<0.0250	<0.0050	<0.0050
Fluoride - Total F	2	2	mg/L		0.887	0.373	1.89	2.38	0.278	0.354	2.21	0.392	1.26	25.2	1.97	0.237
Iron - Dissolved	0.3	14	mg/L		1.32	<0.100	<0.100	<0.100	31.7	22.8	0.146	<0.100	<0.100	19.5	<0.100	<0.100
Lead - Dissolved	0.05	NA	mg/L		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.0644	<0.0075	<0.0075	<0.0075	0.0176	<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	<0.040
Manganese - Dissolved	0.05	3	mg/L		0.26	0.0081	<0.0080	0.0142	1.98	1.38	0.213	<0.0080	0.516	94.3	<0.0080	<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
Molybdenum - Dissolved	0.21	NA	mg/L		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	0.0106	<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	0.0427	0.0887	<0.0100	<0.0100	0.0305	0.922	<0.0100	<0.0100
Nitrate as Nitrogen	10	10	mg/L		<0.050	0.699	1.16	2.13	<0.050	<0.050	<0.050	0.193	1.68	1.55	<0.050	0.666
Nitrite + Nitrate as Nitrogen	10	11	mg/L		<0.100	0.699	1.16	2.13	<0.100	<0.100	<0.100	0.197	1.69	1.55	<0.100	0.666
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	<0.250	<0.050	<0.050
pH Field	6.5-8.5	6.0-8.5	pH units		7.41	6.39	6.89	6.68	6.45	4.69	7.86	6.73	6.99	3.51	7.83	6.43
Selenium - Dissolved	0.02	0.024	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00500	<0.00100	<0.00100	<0.00100	0.00201	<0.0100	<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
Sodium - Dissolved	NA	NA	mg/L		10.8	16.9	23.9	26	14.6	13.5	36.8	23.3	21.9	60.4	32.3	10.5
Sulfate - Total	250	NA	mg/L		22.7	178	61.5	93.9	185	269	31.3	99.4	1,700	3,790	15	20.7
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	<0.00200	<0.00100	<0.00100
Total Dissolved Solids	NA	NA	mg/L		256	386	275	314	267	426	236	251	2,540	5,250	201	82
Uranium - Dissolved	0.03	NA	mg/L		0.00448	0.000369	0.00465	0.00249	0.000111	0.00314	0.00305	0.00105	0.021	0.783	0.00336	<0.000500
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
Zinc - Dissolved	2	2	mg/L		0.0108	<0.0100	<0.0100	0.0158	0.314	1.33	<0.0100	<0.0100	0.04	23	<0.0100	<0.0100

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

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

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D.	GVMW-27	GVMW-28	GVMW-33	GVMW-34	GVMW-35A	GVMW-35B	GVMW-36	GVMW-37A	GVMW-37B	OSABH-17
				Sample Date	11/20/2024	11/26/2024	11/26/2024	11/26/2024	11/21/2024	11/26/2024	11/26/2024	11/19/2024	11/19/2024	11/21/2024
Aluminum - Dissolved	5	7	mg/L		1,180	1,920	836	9.94	<0.080	<0.080	787	<0.080	<0.080	1,420
Ammonia	NA	NA	mg/L		<0.030	0.041	0.511	<0.030	<0.030	<0.030	0.12	<0.030	<0.030	<0.300
Antimony - Dissolved	0.006	NA	mg/L		<0.0100	<0.0100	<0.00200	<0.00200	<0.00500	<0.00200	<0.0200	<0.00500	<0.00500	<2.50
Arsenic - Dissolved	0.01	NA	mg/L		0.325	0.548	0.371	<0.00200	<0.00100	<0.00200	0.11	0.00152	<0.00500	<1.25
Barium - Dissolved	2	NA	mg/L		0.0147	0.0142	0.0217	0.0326	0.0547	0.0221	0.0169	0.1	0.0974	<0.0200
Beryllium - Dissolved	0.004	NA	mg/L		0.697	0.96	0.942	0.00998	<0.00200	<0.00200	0.198	<0.00200	<0.00200	0.235
Boron - Total	0.75	NA	mg/L		0.044	<0.200	0.0544	0.0433	<0.0400	<0.0400	<0.0400	<0.0400	<0.0400	<0.400
Cadmium - Dissolved	0.005	0.005	mg/L		2	3.42	1.87	0.0408	<0.0020	<0.0020	1.68	<0.0020	<0.0020	3.1
Chloride - Total	250	NA	mg/L		21.6	<5.00	6.99	29.3	19.3	82.7	13.2	4.27	3.97	17.8
Chromium - Dissolved	0.1	NA	mg/L		0.142	0.468	0.0182	<0.0060	0.0083	<0.0060	0.154	<0.0060	<0.0060	0.293
Cobalt - Dissolved	0.05	NA	mg/L		2.38	3.89	1.58	0.0375	<0.0060	<0.0060	3.59	<0.0060	<0.0060	6.51
Copper - Dissolved	0.2	0.2	mg/L		4.95	11.3	2.94	<0.0100	<0.0100	<0.0100	3.88	<0.0100	<0.0100	6.95
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	<0.0500
Cyanide - Total	NA	NA	mg/L		0.0105	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.06
Cyanide - WAD	NA	0.2	mg/L		<0.0250	<0.0250	<0.0250	<0.0250	<0.0050	<0.0050	<0.0250	<0.0050	<0.0050	<0.0250
Fluoride - Total F	2	2	mg/L		117	37.3	70.5	19.7	0.187	<0.100	40.1	1.36	1.98	598
Iron - Dissolved	0.3	14	mg/L		28.8	381	20.7	<0.100	<0.100	<0.100	63.1	<0.100	<0.100	211
Lead - Dissolved	0.05	NA	mg/L		0.0548	0.0741	0.0782	<0.0075	<0.0075	<0.0075	0.195	<0.0075	<0.0075	<0.0750
Lithium - Dissolved	2.5	NA	mg/L		0.255	0.47	0.279	0.149	<0.040	<0.040	0.299	<0.040	<0.040	<0.400
Manganese - Dissolved	0.05	3	mg/L		303	425	300	54.6	<0.0080	0.724	208	0.152	0.274	479
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	0.000289
Molybdenum - Dissolved	0.21	NA	mg/L		<0.0080	<0.0400	<0.0080	<0.0080	0.0232	<0.0080	<0.0080	0.0233	<0.0080	<0.0800
Nickel - Dissolved	0.1	NA	mg/L		3.1	4.97	2.6	0.243	<0.0100	<0.0100	3.12	<0.0100	<0.0100	4.69
Nitrate as Nitrogen	10	10	mg/L		4.26	6.07	5.21	10.7	0.112	11.6	2.79	<0.050	0.892	5.11
Nitrite + Nitrate as Nitrogen	10	11	mg/L		4.26	6.07	5.25	10.7	0.133	11.7	2.79	0.119	0.946	5.11
Nitrite as Nitrogen	1	1	mg/L		<0.500	<1.25	<0.500	<0.250	<0.050	0.098	<0.500	0.08	0.054	<2.50
pH Field	6.5-8.5	6.0-8.5	pH units		4.21	2.73	3.55	5.77	10.96	7.61	3.39	8.91	7.85	2.7
Selenium - Dissolved	0.02	0.024	mg/L		<0.500	0.0354	0.0319	0.0121	<0.00100	0.0038	<0.0200	<0.00100	<0.00500	<1.25
Silver - Dissolved	0.05	NA	mg/L		<0.0050	<0.0250	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500
Sodium - Dissolved	NA	NA	mg/L		41.7	43.8	195	47.7	36.4	16.6	119	38.5	31.2	<5.00
Sulfate - Total	250	NA	mg/L		10,600	17,600	8,760	2,650	503	1,260	8,630	243	122	38,600
Thallium - Dissolved	0.002	NA	mg/L		<0.00200	<0.00200	<0.00400	<0.000400	<0.000200	<0.000400	<0.00400	<0.00100	<0.000200	<0.0500
Total Dissolved Solids	NA	NA	mg/L		14,700	22,100	11,300	3,860	899	1,960	12,300	409	318	52,700
Uranium - Dissolved	0.03	NA	mg/L		3.75	6.77	2.78	0.0282	0.000264	0.00465	3.7	0.00448	0.00278	20.3
Vanadium - Dissolved	0.1	NA	mg/L		<0.0050	0.0284	0.02	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500
Zinc - Dissolved	2	2	mg/L		86.9	154	44.1	5.7	<0.0100	<0.0100	74.3	<0.0100	<0.0100	109

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



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

P 719.689.2977
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newmont.com

Attachment 1

Laboratory Analytical Reports



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0192**

Reported: 29-Nov-24 16:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-7A	X4K0192-01	Ground Water	11-Nov-24 09:30	JC	13-Nov-2024	
GVMW-7B	X4K0192-02	Ground Water	11-Nov-24 10:50	JC	13-Nov-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: X4K0192

The state of origin only accredits for drinking water analyses.

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



One Government Gulch - PO Box 929

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(208) 784-1258

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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: **X4K0192**

Reported: 29-Nov-24 16:33

Client Sample ID: **GVMW-7A**

Sampled: 11-Nov-24 09:30

Received: 13-Nov-24

Sampled By: JC

SVL Sample ID: **X4K0192-01 (Ground Water)**

Sample Report Page 1 of 2

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		X447185	SJN	11/25/24 15:26	
EPA 200.7	Magnesium	19.6	mg/L	0.500	0.090		X447185	SJN	11/25/24 15:26	
EPA 200.7	Potassium	1.02	mg/L	0.50	0.18		X447185	SJN	11/25/24 15:26	
SM 2340 B	Hardness (as CaCO3)	190	mg/L	2.31	0.543		N/A		11/25/24 15:26	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X447014	SJN	11/18/24 22:04	
EPA 200.7	Barium	0.188	mg/L	0.0020	0.0019		X447014	SJN	11/18/24 22:04	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X447014	SJN	11/18/24 22:04	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X447014	SJN	11/18/24 22:04	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X447014	SJN	11/18/24 22:04	
EPA 200.7	Calcium	44.2	mg/L	0.100	0.069		X447014	SJN	11/18/24 22:04	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X447014	SJN	11/18/24 22:04	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X447014	SJN	11/18/24 22:04	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X447014	SJN	11/18/24 22:04	
EPA 200.7	Iron	1.32	mg/L	0.100	0.056		X447014	SJN	11/18/24 22:04	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X447014	SJN	11/18/24 22:04	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X447014	SJN	11/18/24 22:04	
EPA 200.7	Magnesium	19.9	mg/L	0.500	0.090		X447014	SJN	11/18/24 22:04	
EPA 200.7	Manganese	0.260	mg/L	0.0080	0.0034		X447014	SJN	11/18/24 22:04	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X447014	SJN	11/18/24 22:04	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X447014	SJN	11/18/24 22:04	
EPA 200.7	Potassium	0.99	mg/L	0.50	0.18		X447014	SJN	11/18/24 22:04	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X447014	SJN	11/18/24 22:04	
EPA 200.7	Sodium	10.8	mg/L	0.50	0.12		X447014	SJN	11/18/24 22:04	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X447014	SJN	11/18/24 22:04	
EPA 200.7	Zinc	0.0108	mg/L	0.0100	0.0054		X447014	SJN	11/18/24 22:04	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X447094	JRR	11/29/24 12:06	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X447094	JRR	11/29/24 12:06	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X447094	JRR	11/29/24 12:06	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X447094	JRR	11/29/24 12:06	
EPA 200.8	Uranium	0.00448	mg/L	0.000100	0.000052		X447094	JRR	11/29/24 12:06	
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X447208	MAC	11/25/24 12:40	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X447117	DD	11/20/24 15:40	M2
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X447012	JPM	11/19/24 13:28	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X447057	DD	11/20/24 12:16	M1
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X447027	DD	11/19/24 15:22	
SM 2310 B	Acidity to pH 8.3	-175	mg/L as CaCO3	10.0			X447225	MWD	11/22/24 15:29	
SM 2320 B	Total Alkalinity	168	mg/L as CaCO3	1.0			X447018	MWD	11/18/24 15:14	
SM 2320 B	Bicarbonate	168	mg/L as CaCO3	1.0			X447018	MWD	11/18/24 15:14	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X447018	MWD	11/18/24 15:14	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X447018	MWD	11/18/24 15:14	
SM 2540 C	Total Diss. Solids	256	mg/L	10			X446236	TJL	11/19/24 13:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X446237	TJL	11/20/24 16:35	
SM 4500 H B	pH @18.9°C	7.5	pH Units				X447018	MWD	11/18/24 15:14	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 2 of 12



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

Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4K0192 Reported: 29-Nov-24 16:33
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Client Sample ID: **GVMW-7A**
SVL Sample ID: **X4K0192-01 (Ground Water)**

Sampled: 11-Nov-24 09:30
Received: 13-Nov-24
Sampled By: JC

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	14.1	mg/L	2.00	0.22	10	X446167	RS	11/13/24 22:02	
EPA 300.0	Fluoride	0.887	mg/L	0.100	0.017		X446167	RS	11/13/24 21:47	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X446167	RS	11/13/24 21:47	H3
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X446167	RS	11/13/24 21:47	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X446167	RS	11/13/24 21:47	H3
EPA 300.0	Sulfate as SO4	22.7	mg/L	0.30	0.18		X446167	RS	11/13/24 21:47	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.33 meq/L	Anion Sum: 4.28 meq/L	C/A Balance: 0.67 %	Calculated TDS: 214	TDS/cTDS: 1.20
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0192**

Reported: 29-Nov-24 16:33

Client Sample ID: **GVMW-7B**

Sampled: 11-Nov-24 10:50

SVL Sample ID: **X4K0192-02 (Ground Water)**

Received: 13-Nov-24

Sampled By: JC

Sample Report Page 1 of 2

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	59.9	mg/L	0.100	0.069		X447185	SJN	11/25/24 15:30	
EPA 200.7	Magnesium	20.0	mg/L	0.500	0.090		X447185	SJN	11/25/24 15:30	
EPA 200.7	Potassium	1.15	mg/L	0.50	0.18		X447185	SJN	11/25/24 15:30	
SM 2340 B	Hardness (as CaCO3)	232	mg/L	2.31	0.543		N/A		11/18/24 22:08	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X447014	SJN	11/18/24 22:08	
EPA 200.7	Barium	0.0262	mg/L	0.0020	0.0019		X447014	SJN	11/18/24 22:08	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X447014	SJN	11/18/24 22:08	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X447014	SJN	11/18/24 22:08	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X447014	SJN	11/18/24 22:08	
EPA 200.7	Calcium	60.8	mg/L	0.100	0.069		X447014	SJN	11/18/24 22:08	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X447014	SJN	11/18/24 22:08	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X447014	SJN	11/18/24 22:08	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X447014	SJN	11/18/24 22:08	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X447014	SJN	11/18/24 22:08	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X447014	SJN	11/18/24 22:08	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X447014	SJN	11/18/24 22:08	
EPA 200.7	Magnesium	20.1	mg/L	0.500	0.090		X447014	SJN	11/18/24 22:08	
EPA 200.7	Manganese	0.0081	mg/L	0.0080	0.0034		X447014	SJN	11/18/24 22:08	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X447014	SJN	11/18/24 22:08	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X447014	SJN	11/18/24 22:08	
EPA 200.7	Potassium	1.02	mg/L	0.50	0.18		X447014	SJN	11/18/24 22:08	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X447014	SJN	11/18/24 22:08	
EPA 200.7	Sodium	16.9	mg/L	0.50	0.12		X447014	SJN	11/18/24 22:08	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X447014	SJN	11/18/24 22:08	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X447014	SJN	11/18/24 22:08	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X447094	JRR	11/29/24 12:13	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X447094	JRR	11/29/24 12:13	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X447094	JRR	11/29/24 12:13	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X447094	JRR	11/29/24 12:13	
EPA 200.8	Uranium	0.000369	mg/L	0.000100	0.000052		X447094	JRR	11/29/24 12:13	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X447208	MAC	11/25/24 12:42	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @22.0°C	< 0.0050	mg/L	0.0050	0.0048		X447117	DD	11/20/24 15:42	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X447012	JPM	11/19/24 13:30	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X447057	DD	11/20/24 12:18	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X447027	DD	11/19/24 15:24	
SM 2310 B	Acidity to pH 8.3	-55.4	mg/L as CaCO3	10.0			X447225	MWD	11/22/24 15:29	
SM 2320 B	Total Alkalinity	48.8	mg/L as CaCO3	1.0			X447018	MWD	11/18/24 15:19	
SM 2320 B	Bicarbonate	48.8	mg/L as CaCO3	1.0			X447018	MWD	11/18/24 15:19	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X447018	MWD	11/18/24 15:19	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X447018	MWD	11/18/24 15:19	
SM 2540 C	Total Diss. Solids	386	mg/L	10			X446236	TJL	11/19/24 13:10	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X446237	TJL	11/20/24 16:35	
SM 4500 H B	pH @18.8°C	6.6	pH Units				X447018	MWD	11/18/24 15:19	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 4 of 12



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

Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4K0192 Reported: 29-Nov-24 16:33
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Client Sample ID: **GVMW-7B**
SVL Sample ID: **X4K0192-02 (Ground Water)**

Sampled: 11-Nov-24 10:50
Received: 13-Nov-24
Sampled By: JC

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	35.8	mg/L	2.00	0.22	10	X446167	RS	11/13/24 22:34	
EPA 300.0	Fluoride	0.373	mg/L	0.100	0.017		X446167	RS	11/13/24 22:18	
EPA 300.0	Nitrate as N	0.699	mg/L	0.050	0.013		X446167	RS	11/13/24 22:18	H3
EPA 300.0	Nitrate+Nitrite as N	0.699	mg/L	0.100	0.044		X446167	RS	11/13/24 22:18	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X446167	RS	11/13/24 22:18	H3
EPA 300.0	Sulfate as SO4	178	mg/L	3.00	1.80	10	X446167	RS	11/13/24 22:34	

Cation/Anion Balance and TDS Ratios

Cation Sum: 5.41 meq/L	Anion Sum: 5.76 meq/L	C/A Balance: -3.14 %	Calculated TDS: 345	TDS/cTDS: 1.12
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(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: **X4K0192**

Reported: 29-Nov-24 16:33

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X447185	25-Nov-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X447185	25-Nov-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X447185	25-Nov-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X447014	18-Nov-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X447014	18-Nov-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X447014	18-Nov-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X447014	18-Nov-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X447014	18-Nov-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X447014	18-Nov-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X447014	18-Nov-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X447014	18-Nov-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X447014	18-Nov-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X447014	18-Nov-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X447014	18-Nov-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X447014	18-Nov-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X447014	18-Nov-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X447014	18-Nov-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X447014	18-Nov-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X447014	18-Nov-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X447014	18-Nov-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X447014	18-Nov-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X447014	18-Nov-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X447014	18-Nov-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X447014	18-Nov-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X447094	29-Nov-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X447094	29-Nov-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X447094	29-Nov-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X447094	29-Nov-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X447094	29-Nov-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X447208	25-Nov-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X447117	20-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X447012	19-Nov-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X447057	20-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X447027	19-Nov-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X447225	22-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X447018	18-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X447018	18-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X447018	18-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X447018	18-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X446236	19-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X446237	20-Nov-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X446167	13-Nov-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X446167	13-Nov-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X446167	13-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X446167	13-Nov-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X446167	13-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X446167	13-Nov-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 6 of 12



One Government Gulch - PO Box 929

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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: **X4K0192**

Reported: 29-Nov-24 16:33

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	20.9	20.0	104	85 - 115	X447185	25-Nov-24	
EPA 200.7	Magnesium	mg/L	20.8	20.0	104	85 - 115	X447185	25-Nov-24	
EPA 200.7	Potassium	mg/L	20.8	20.0	104	85 - 115	X447185	25-Nov-24	
Metals (Dissolved)									
EPA 200.7	Aluminum	mg/L	0.990	1.00	99.0	85 - 115	X447014	18-Nov-24	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X447014	18-Nov-24	
EPA 200.7	Beryllium	mg/L	0.989	1.00	98.9	85 - 115	X447014	18-Nov-24	
EPA 200.7	Boron	mg/L	0.991	1.00	99.1	85 - 115	X447014	18-Nov-24	
EPA 200.7	Cadmium	mg/L	0.992	1.00	99.2	85 - 115	X447014	18-Nov-24	
EPA 200.7	Calcium	mg/L	20.2	20.0	101	85 - 115	X447014	18-Nov-24	
EPA 200.7	Chromium	mg/L	1.00	1.00	100	85 - 115	X447014	18-Nov-24	
EPA 200.7	Cobalt	mg/L	0.973	1.00	97.3	85 - 115	X447014	18-Nov-24	
EPA 200.7	Copper	mg/L	0.975	1.00	97.5	85 - 115	X447014	18-Nov-24	
EPA 200.7	Iron	mg/L	10.2	10.0	102	85 - 115	X447014	18-Nov-24	
EPA 200.7	Lead	mg/L	0.996	1.00	99.6	85 - 115	X447014	18-Nov-24	
EPA 200.7	Lithium	mg/L	0.956	1.00	95.6	85 - 115	X447014	18-Nov-24	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X447014	18-Nov-24	
EPA 200.7	Manganese	mg/L	0.987	1.00	98.7	85 - 115	X447014	18-Nov-24	
EPA 200.7	Molybdenum	mg/L	0.997	1.00	99.7	85 - 115	X447014	18-Nov-24	
EPA 200.7	Nickel	mg/L	0.971	1.00	97.1	85 - 115	X447014	18-Nov-24	
EPA 200.7	Potassium	mg/L	20.1	20.0	100	85 - 115	X447014	18-Nov-24	
EPA 200.7	Silver	mg/L	0.0496	0.0500	99.1	85 - 115	X447014	18-Nov-24	
EPA 200.7	Sodium	mg/L	19.3	19.0	102	85 - 115	X447014	18-Nov-24	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X447014	18-Nov-24	
EPA 200.7	Zinc	mg/L	0.996	1.00	99.6	85 - 115	X447014	18-Nov-24	
EPA 200.8	Antimony	mg/L	0.0249	0.0250	99.6	85 - 115	X447094	29-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0250	0.0250	100	85 - 115	X447094	29-Nov-24	
EPA 200.8	Selenium	mg/L	0.0252	0.0250	101	85 - 115	X447094	29-Nov-24	
EPA 200.8	Thallium	mg/L	0.0249	0.0250	99.5	85 - 115	X447094	29-Nov-24	
EPA 200.8	Uranium	mg/L	0.0253	0.0250	101	85 - 115	X447094	29-Nov-24	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00207	0.00200	104	85 - 115	X447208	25-Nov-24	
Classical Chemistry Parameters									
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0970	0.100	97.0	90 - 110	X447117	20-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.0998	0.100	99.8	90 - 110	X447012	19-Nov-24	
EPA 350.1	Ammonia as N	mg/L	0.979	1.00	97.9	90 - 110	X447057	20-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	0.0980	0.100	98.0	90 - 110	X447027	19-Nov-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	721	706	102	95.4 - 104	X447225	22-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.9	99.3	101	96.4 - 105	X447018	18-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	405	397	102	96.4 - 105	X447018	18-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X446237	20-Nov-24	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.98	3.00	99.3	90 - 110	X446167	13-Nov-24	
EPA 300.0	Fluoride	mg/L	2.00	2.00	99.9	90 - 110	X446167	13-Nov-24	
EPA 300.0	Nitrate as N	mg/L	1.93	2.00	96.3	90 - 110	X446167	13-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.43	4.50	98.5	90 - 110	X446167	13-Nov-24	
EPA 300.0	Nitrite as N	mg/L	2.51	2.50	100	90 - 110	X446167	13-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X446167	13-Nov-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 7 of 12

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0192**

Reported: 29-Nov-24 16:33

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X447225 - X4K0165-01	22-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	462	461	0.2	20	X447018 - X4K0191-02	18-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	462	461	0.2	20	X447018 - X4K0191-02	18-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X447018 - X4K0191-02	18-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X447018 - X4K0191-02	18-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	368	367	0.3	10	X446236 - X4K0179-02	19-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	687	672	2.2	10	X446236 - X4K0209-01	19-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X446237 - X4K0209-01	20-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X446237 - X4K0179-02	20-Nov-24	
SM 4500 H B	pH @18.8°C	pH Units	6.9	7.0	1.2	20	X447018 - X4K0191-02	18-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	76.4	54.9	20.0	107	70 - 130	X447185 - X4K0166-01	25-Nov-24	
EPA 200.7	Calcium	mg/L	917	891	20.0	129	70 - 130	X447185 - X4K0193-03	26-Nov-24	
EPA 200.7	Magnesium	mg/L	26.5	5.54	20.0	105	70 - 130	X447185 - X4K0166-01	25-Nov-24	
EPA 200.7	Magnesium	mg/L	26.5	6.08	20.0	102	70 - 130	X447185 - X4K0193-03	25-Nov-24	
EPA 200.7	Potassium	mg/L	35.1	14.2	20.0	104	70 - 130	X447185 - X4K0166-01	25-Nov-24	
EPA 200.7	Potassium	mg/L	43.9	22.0	20.0	110	70 - 130	X447185 - X4K0193-03	25-Nov-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Aluminum	mg/L	1.03	<0.080	1.00	103	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Barium	mg/L	1.04	0.0282	1.00	101	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Barium	mg/L	1.04	0.0242	1.00	101	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	101	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Boron	mg/L	1.10	0.0571	1.00	104	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Cadmium	mg/L	0.990	<0.0020	1.00	99.0	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Cadmium	mg/L	0.988	<0.0020	1.00	98.8	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Calcium	mg/L	57.4	37.3	20.0	100	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Calcium	mg/L	214	196	20.0	90.5	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Chromium	mg/L	1.02	<0.0060	1.00	102	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Cobalt	mg/L	0.972	<0.0060	1.00	97.2	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Cobalt	mg/L	0.970	<0.0060	1.00	97.0	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Copper	mg/L	0.991	<0.0100	1.00	99.1	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Copper	mg/L	1.01	<0.0100	1.00	101	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Iron	mg/L	10.4	<0.100	10.0	104	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Lead	mg/L	0.987	<0.0075	1.00	98.7	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Lead	mg/L	0.976	<0.0075	1.00	97.6	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Lithium	mg/L	1.01	<0.040	1.00	101	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Lithium	mg/L	1.08	<0.040	1.00	106	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Magnesium	mg/L	29.1	8.49	20.0	103	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Maenesium	mg/L	38.8	17.9	20.0	105	70 - 130	X447014 - X4K0069-02	18-Nov-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 8 of 12

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0192**

Reported: 29-Nov-24 16:33

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	1.02	0.0153	1.00	100	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Manganese	mg/L	1.12	0.115	1.00	100	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Molybdenum	mg/L	1.01	<0.0080	1.00	101	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Molybdenum	mg/L	1.03	<0.0080	1.00	102	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Nickel	mg/L	0.968	<0.0100	1.00	96.8	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Nickel	mg/L	0.959	<0.0100	1.00	95.9	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Potassium	mg/L	22.5	2.25	20.0	101	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Potassium	mg/L	23.8	3.40	20.0	102	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Silver	mg/L	0.0499	<0.0050	0.0500	99.7	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Silver	mg/L	0.0519	<0.0050	0.0500	104	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Sodium	mg/L	43.0	23.9	19.0	101	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Sodium	mg/L	66.0	46.8	19.0	101	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Vanadium	mg/L	1.03	<0.0050	1.00	103	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Vanadium	mg/L	1.04	<0.0050	1.00	104	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.7	Zinc	mg/L	0.999	<0.0100	1.00	99.9	70 - 130	X447014 - X4K0069-01	18-Nov-24	
EPA 200.7	Zinc	mg/L	1.01	<0.0100	1.00	100	70 - 130	X447014 - X4K0069-02	18-Nov-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.00100	0.0250	102	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Antimony	mg/L	0.0251	<0.00100	0.0250	100	70 - 130	X447094 - X4K0276-02	29-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0264	<0.00100	0.0250	103	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0256	<0.00100	0.0250	102	70 - 130	X447094 - X4K0276-02	29-Nov-24	
EPA 200.8	Selenium	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Selenium	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X447094 - X4K0276-02	29-Nov-24	
EPA 200.8	Thallium	mg/L	0.0244	<0.000200	0.0250	97.6	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Thallium	mg/L	0.0257	<0.000200	0.0250	103	70 - 130	X447094 - X4K0276-02	29-Nov-24	
EPA 200.8	Uranium	mg/L	0.0302	0.00448	0.0250	103	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Uranium	mg/L	0.0259	<0.000100	0.0250	104	70 - 130	X447094 - X4K0276-02	29-Nov-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00214	<0.000200	0.00200	107	70 - 130	X447208 - X4K0165-01	25-Nov-24	
EPA 245.1	Mercury	mg/L	0.00191	<0.000200	0.00200	95.6	70 - 130	X447208 - X4K0209-01	25-Nov-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0520	<0.0050	0.100	52.0	79 - 121	X447117 - X4K0192-01	20-Nov-24	M2
EPA 335.4	Cyanide (total)	mg/L	0.106	<0.0050	0.100	106	90 - 110	X447012 - X4K0224-03	19-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.104	<0.0050	0.100	104	90 - 110	X447012 - X4K0192-02	19-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.12	<0.030	1.00	112	90 - 110	X447057 - X4K0192-01	20-Nov-24	M1
EPA 350.1	Ammonia as N	mg/L	1.45	0.488	1.00	96.6	90 - 110	X447057 - X4K0193-01	20-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	0.112	<0.0050	0.100	111	82 - 118	X447027 - X4K0068-01	19-Nov-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	61.4	59.6	3.00	0.30R>S	90 - 110	X446167 - X4K0188-03	14-Nov-24	M4
EPA 300.0	Chloride	mg/L	4.13	1.15	3.00	99.6	90 - 110	X446167 - X4K0188-04	14-Nov-24	
EPA 300.0	Fluoride	mg/L	1.99	0.104	2.00	94.5	90 - 110	X446167 - X4K0188-03	14-Nov-24	
EPA 300.0	Fluoride	mg/L	2.04	<0.100	2.00	97.4	90 - 110	X446167 - X4K0188-04	14-Nov-24	
EPA 300.0	Nitrate as N	mg/L	1.98	0.087	2.00	94.4	90 - 110	X446167 - X4K0188-03	14-Nov-24	
EPA 300.0	Nitrate as N	mg/L	2.05	0.126	2.00	96.1	90 - 110	X446167 - X4K0188-04	14-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.90	<0.100	4.00	95.3	90 - 110	X446167 - X4K0188-03	14-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	0.126	4.00	97.9	90 - 110	X446167 - X4K0188-04	14-Nov-24	
EPA 300.0	Nitrite as N	mg/L	1.92	<0.050	2.00	96.1	90 - 110	X446167 - X4K0188-03	14-Nov-24	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	99.8	90 - 110	X446167 - X4K0188-04	14-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	36.1	26.3	10.0	98.1	90 - 110	X446167 - X4K0188-03	14-Nov-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 9 of 12



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4K0192**

Reported: 29-Nov-24 16:33

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
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Anions by Ion Chromatography (Continued)

EPA 300.0	Sulfate as SO4	mg/L	45.2	35.6	10.0	95.9	90 - 110	X446167 - X4K0188-04	14-Nov-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
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	76.0	76.4	20.0	0.6	20	105	X447185 - X4K0166-01	
EPA 200.7	Magnesium	mg/L	26.5	26.5	20.0	0.0	20	105	X447185 - X4K0166-01	
EPA 200.7	Potassium	mg/L	34.9	35.1	20.0	0.5	20	103	X447185 - X4K0166-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.01	1.01	1.00	0.1	20	101	X447014 - X4K0069-01	
EPA 200.7	Barium	mg/L	1.05	1.04	1.00	1.1	20	102	X447014 - X4K0069-01	
EPA 200.7	Beryllium	mg/L	1.01	1.01	1.00	0.6	20	101	X447014 - X4K0069-01	
EPA 200.7	Boron	mg/L	1.04	1.04	1.00	0.4	20	102	X447014 - X4K0069-01	
EPA 200.7	Cadmium	mg/L	1.00	0.990	1.00	1.1	20	100	X447014 - X4K0069-01	
EPA 200.7	Calcium	mg/L	57.8	57.4	20.0	0.8	20	103	X447014 - X4K0069-01	
EPA 200.7	Chromium	mg/L	1.01	1.01	1.00	0.1	20	101	X447014 - X4K0069-01	
EPA 200.7	Cobalt	mg/L	0.986	0.972	1.00	1.5	20	98.6	X447014 - X4K0069-01	
EPA 200.7	Copper	mg/L	0.993	0.991	1.00	0.2	20	99.3	X447014 - X4K0069-01	
EPA 200.7	Iron	mg/L	10.4	10.4	10.0	0.1	20	104	X447014 - X4K0069-01	
EPA 200.7	Lead	mg/L	0.996	0.987	1.00	1.0	20	99.6	X447014 - X4K0069-01	
EPA 200.7	Lithium	mg/L	1.04	1.01	1.00	2.1	20	104	X447014 - X4K0069-01	
EPA 200.7	Magnesium	mg/L	29.5	29.1	20.0	1.3	20	105	X447014 - X4K0069-01	
EPA 200.7	Manganese	mg/L	1.02	1.02	1.00	0.8	20	101	X447014 - X4K0069-01	
EPA 200.7	Molybdenum	mg/L	1.02	1.01	1.00	1.7	20	102	X447014 - X4K0069-01	
EPA 200.7	Nickel	mg/L	0.977	0.968	1.00	0.9	20	97.7	X447014 - X4K0069-01	
EPA 200.7	Potassium	mg/L	22.6	22.5	20.0	0.6	20	102	X447014 - X4K0069-01	
EPA 200.7	Silver	mg/L	0.0510	0.0499	0.0500	2.3	20	102	X447014 - X4K0069-01	
EPA 200.7	Sodium	mg/L	43.4	43.0	19.0	0.9	20	103	X447014 - X4K0069-01	
EPA 200.7	Vanadium	mg/L	1.03	1.03	1.00	0.2	20	103	X447014 - X4K0069-01	
EPA 200.7	Zinc	mg/L	1.01	0.999	1.00	1.3	20	101	X447014 - X4K0069-01	
EPA 200.8	Antimony	mg/L	0.0251	0.0256	0.0250	1.8	20	101	X447094 - X4K0192-01	
EPA 200.8	Arsenic	mg/L	0.0256	0.0264	0.0250	3.0	20	99.9	X447094 - X4K0192-01	
EPA 200.8	Selenium	mg/L	0.0249	0.0257	0.0250	3.1	20	99.6	X447094 - X4K0192-01	
EPA 200.8	Thallium	mg/L	0.0246	0.0244	0.0250	0.7	20	98.3	X447094 - X4K0192-01	
EPA 200.8	Uranium	mg/L	0.0303	0.0302	0.0250	0.2	20	103	X447094 - X4K0192-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00213	0.00214	0.00200	0.3	20	106	X447208 - X4K0165-01	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0570	0.0520	0.100	9.2	11	57.0	X447117 - X4K0192-01	M2
EPA 335.4	Cyanide (total)	mg/L	0.103	0.106	0.100	3.2	20	103	X447012 - X4K0224-03	
EPA 350.1	Ammonia as N	mg/L	1.03	1.12	1.00	8.7	20	103	X447057 - X4K0192-01	
OIA 1677	Cyanide (WAD)	mg/L	0.117	0.112	0.100	4.4	11	116	X447027 - X4K0068-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	61.3	61.4	3.00	0.2	20	0.30R>S	X446167 - X4K0188-03	M4
EPA 300.0	Fluoride	mg/L	2.04	1.99	2.00	2.1	20	96.7	X446167 - X4K0188-03	
EPA 300.0	Nitrate as N	mg/L	2.03	1.98	2.00	2.9	20	97.4	X446167 - X4K0188-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.01	3.90	4.00	2.8	20	98.0	X446167 - X4K0188-03	
EPA 300.0	Nitrite as N	mg/L	1.97	1.92	2.00	2.6	20	98.6	X446167 - X4K0188-03	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 10 of 12



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Newmont - Cripple Creek & Victor					Project Name: Cripple Creek/Victor Water and Soil 2024				
Post Office Box 191					Work Order: X4K0192				
Victor, CO 80860					Reported: 29-Nov-24 16:33				

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)										
Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	36.1	36.1	10.0	0.2	20	97.6	X446167 - X4K0188-03	



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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0192**

Reported: 29-Nov-24 16:33

Notes and Definitions

H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
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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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0280**

Reported: 04-Dec-24 14:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-22 A	X4K0280-01	Ground Water	18-Nov-24 10:10	TR	19-Nov-2024	
GVMW-22 B	X4K0280-02	Ground Water	18-Nov-24 11:45	TR	19-Nov-2024	
GVMW-24 B	X4K0280-03	Ground Water	18-Nov-24 13:40	TR	19-Nov-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: X4K0280

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: **X4K0280**

Reported: 04-Dec-24 14:38

Client Sample ID: **GVMW-22 A**

Sampled: 18-Nov-24 10:10

Received: 19-Nov-24

Sampled By: TR

SVL Sample ID: **X4K0280-01 (Ground Water)**

Sample Report Page 1 of 2

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		X448120	SJN	12/02/24 16:01	
EPA 200.7	Magnesium	11.8	mg/L	0.500	0.090		X448120	SJN	12/02/24 16:01	
EPA 200.7	Potassium	1.36	mg/L	0.50	0.18		X448120	SJN	12/02/24 16:01	
SM 2340 B	Hardness (as CaCO3)	120	mg/L	2.31	0.543		N/A		12/04/24 08:51	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X448017	NMS	12/04/24 08:51	
EPA 200.7	Barium	0.106	mg/L	0.0020	0.0019		X448017	NMS	12/04/24 08:51	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X448017	NMS	12/04/24 08:51	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X448017	NMS	12/04/24 08:51	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X448017	NMS	12/04/24 08:51	
EPA 200.7	Calcium	28.5	mg/L	0.100	0.069		X448017	NMS	12/04/24 08:51	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X448017	NMS	12/04/24 08:51	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X448017	NMS	12/04/24 08:51	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X448017	NMS	12/04/24 08:51	
EPA 200.7	Iron	0.146	mg/L	0.100	0.056		X448017	NMS	12/04/24 08:51	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X448017	NMS	12/04/24 08:51	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X448017	SJN	12/04/24 11:32	
EPA 200.7	Magnesium	11.5	mg/L	0.500	0.090		X448017	NMS	12/04/24 08:51	
EPA 200.7	Manganese	0.213	mg/L	0.0080	0.0034		X448017	NMS	12/04/24 08:51	
EPA 200.7	Molybdenum	0.0106	mg/L	0.0080	0.0034		X448017	NMS	12/04/24 08:51	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X448017	NMS	12/04/24 08:51	
EPA 200.7	Potassium	1.25	mg/L	0.50	0.18		X448017	SJN	12/04/24 11:32	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X448017	NMS	12/04/24 08:51	
EPA 200.7	Sodium	36.8	mg/L	0.50	0.12		X448017	NMS	12/04/24 08:51	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X448017	NMS	12/04/24 08:51	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X448017	NMS	12/04/24 08:51	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X447094	JRR	11/29/24 12:54	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X447094	JRR	11/29/24 12:54	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X447094	JRR	11/29/24 12:54	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X447094	JRR	11/29/24 12:54	
EPA 200.8	Uranium	0.00305	mg/L	0.000100	0.000052		X447094	JRR	11/29/24 12:54	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X448124	MAC	12/02/24 16:34	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X447118	DD	11/20/24 16:39	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X447232	DD	11/26/24 10:25	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X447167	JPM	11/22/24 09:59	M1
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449037	DD	12/02/24 14:15	
SM 2310 B	Acidity to pH 8.3	-175	mg/L as CaCO3	10.0			X447226	MWD	11/22/24 15:27	
SM 2320 B	Total Alkalinity	166	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:45	
SM 2320 B	Bicarbonate	166	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:45	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:45	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:45	
SM 2540 C	Total Diss. Solids	236	mg/L	10			X447202	TJL	11/23/24 10:25	
SM 2540 D	Total Susp. Solids	8.0	mg/L	5.0			X447204	TJL	11/25/24 14:55	
SM 4500 H B	pH @19.4°C	7.9	pH Units				X447180	MWD	11/21/24 17:45	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 2 of 13



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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: **X4K0280**
Reported: 04-Dec-24 14:38

Client Sample ID: **GVMW-22 A**
SVL Sample ID: **X4K0280-01 (Ground Water)**

Sample Report Page 2 of 2

Sampled: 18-Nov-24 10:10
Received: 19-Nov-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	3.73	mg/L	0.20	0.02		X447075	RS	11/19/24 17:47	
EPA 300.0	Fluoride	2.21	mg/L	0.100	0.017		X447075	RS	11/19/24 17:47	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X447075	RS	11/19/24 17:47	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X447075	RS	11/19/24 17:47	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X447075	RS	11/19/24 17:47	
EPA 300.0	Sulfate as SO4	31.3	mg/L	0.30	0.18		X447075	RS	11/19/24 17:47	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.03 meq/L

Anion Sum: 4.19 meq/L

C/A Balance: -2.03 %

Calculated TDS: 215

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

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0280**

Reported: 04-Dec-24 14:38

Client Sample ID: **GVMW-22 B**

Sampled: 18-Nov-24 11:45

SVL Sample ID: **X4K0280-02 (Ground Water)**

Received: 19-Nov-24

Sampled By: TR

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	35.1	mg/L	0.100	0.069		X448120	SJN	12/02/24 16:05	
EPA 200.7	Magnesium	10.1	mg/L	0.500	0.090		X448120	SJN	12/02/24 16:05	
EPA 200.7	Potassium	1.65	mg/L	0.50	0.18		X448120	SJN	12/02/24 16:05	
SM 2340 B	Hardness (as CaCO3)	132	mg/L	2.31	0.543		N/A		12/02/24 16:05	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X448017	NMS	12/04/24 08:55	
EPA 200.7	Barium	0.0574	mg/L	0.0020	0.0019		X448017	NMS	12/04/24 08:55	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X448017	NMS	12/04/24 08:55	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X448017	NMS	12/04/24 08:55	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X448017	NMS	12/04/24 08:55	
EPA 200.7	Calcium	36.0	mg/L	0.100	0.069		X448017	NMS	12/04/24 08:55	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X448017	NMS	12/04/24 08:55	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X448017	NMS	12/04/24 08:55	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X448017	NMS	12/04/24 08:55	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X448017	NMS	12/04/24 08:55	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X448017	NMS	12/04/24 08:55	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X448017	SJN	12/04/24 11:36	
EPA 200.7	Magnesium	10.2	mg/L	0.500	0.090		X448017	NMS	12/04/24 08:55	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X448017	NMS	12/04/24 08:55	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X448017	NMS	12/04/24 08:55	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X448017	NMS	12/04/24 08:55	
EPA 200.7	Potassium	1.70	mg/L	0.50	0.18		X448017	SJN	12/04/24 11:36	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X448017	NMS	12/04/24 08:55	
EPA 200.7	Sodium	23.3	mg/L	0.50	0.12		X448017	NMS	12/04/24 08:55	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X448017	NMS	12/04/24 08:55	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X448017	NMS	12/04/24 08:55	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X447094	JRR	11/29/24 12:56	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X447094	JRR	11/29/24 12:56	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X447094	JRR	11/29/24 12:56	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X447094	JRR	11/29/24 12:56	
EPA 200.8	Uranium	0.00105	mg/L	0.000100	0.000052		X447094	JRR	11/29/24 12:56	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X448124	MAC	12/02/24 16:36	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X447118	DD	11/20/24 16:40	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X447232	DD	11/26/24 10:28	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X447167	JPM	11/22/24 10:01	M1
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449037	DD	12/02/24 14:17	
SM 2310 B	Acidity to pH 8.3	-85.3	mg/L as CaCO3	10.0			X447226	MWD	11/22/24 15:27	
SM 2320 B	Total Alkalinity	80.7	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:50	
SM 2320 B	Bicarbonate	80.7	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:50	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:50	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:50	
SM 2540 C	Total Diss. Solids	251	mg/L	10			X447202	TJL	11/23/24 10:25	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X447204	TJL	11/25/24 14:55	
SM 4500 H B	pH @19.5°C	6.8	pH Units				X447180	MWD	11/21/24 17:50	H5



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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4K0280 Reported: 04-Dec-24 14:38
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Client Sample ID: **GVMW-22 B**
SVL Sample ID: **X4K0280-02 (Ground Water)**

Sampled: 18-Nov-24 11:45
Received: 19-Nov-24
Sampled By: TR

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	6.37	mg/L	0.20	0.02		X447075	RS	11/19/24 18:54	
EPA 300.0	Fluoride	0.392	mg/L	0.100	0.017		X447075	RS	11/19/24 18:54	
EPA 300.0	Nitrate as N	0.193	mg/L	0.050	0.013		X447075	RS	11/19/24 18:54	
EPA 300.0	Nitrate+Nitrite as N	0.197	mg/L	0.100	0.044		X447075	RS	11/19/24 18:54	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X447075	RS	11/19/24 18:54	
EPA 300.0	Sulfate as SO4	99.4	mg/L	3.00	1.80	10	X447075	RS	11/19/24 19:10	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.65 meq/L	Anion Sum: 3.90 meq/L	C/A Balance: -3.23 %	Calculated TDS: 226	TDS/cTDS: 1.11
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(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 2024Work Order: **X4K0280**

Reported: 04-Dec-24 14:38

Client Sample ID: **GVMW-24 B**

Sampled: 18-Nov-24 13:40

SVL Sample ID: **X4K0280-03 (Ground Water)**

Received: 19-Nov-24

Sampled By: TR

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	501	mg/L	1.00	0.690	10	X448120	SJN	12/02/24 18:10	
EPA 200.7	Magnesium	135	mg/L	0.500	0.090		X448120	SJN	12/02/24 16:21	
EPA 200.7	Potassium	2.79	mg/L	0.50	0.18		X448120	SJN	12/02/24 16:21	
SM 2340 B	Hardness (as CaCO3)	1810	mg/L	4.56	2.09		N/A		12/04/24 08:59	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X448017	NMS	12/04/24 08:59	
EPA 200.7	Barium	0.0120	mg/L	0.0020	0.0019		X448017	NMS	12/04/24 08:59	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X448017	NMS	12/04/24 08:59	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X448017	NMS	12/04/24 08:59	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X448017	NMS	12/04/24 08:59	
EPA 200.7	Calcium	492	mg/L	0.100	0.069		X448017	NMS	12/04/24 08:59	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X448017	NMS	12/04/24 08:59	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X448017	NMS	12/04/24 08:59	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X448017	NMS	12/04/24 08:59	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X448017	NMS	12/04/24 08:59	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X448017	NMS	12/04/24 08:59	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X448017	SJN	12/04/24 11:40	
EPA 200.7	Magnesium	138	mg/L	0.500	0.090		X448017	NMS	12/04/24 08:59	
EPA 200.7	Manganese	0.516	mg/L	0.0080	0.0034		X448017	NMS	12/04/24 08:59	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X448017	NMS	12/04/24 08:59	
EPA 200.7	Nickel	0.0305	mg/L	0.0100	0.0048		X448017	NMS	12/04/24 08:59	
EPA 200.7	Potassium	2.47	mg/L	0.50	0.18		X448017	SJN	12/04/24 11:40	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X448017	NMS	12/04/24 08:59	
EPA 200.7	Sodium	21.9	mg/L	0.50	0.12		X448017	NMS	12/04/24 08:59	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X448017	NMS	12/04/24 08:59	
EPA 200.7	Zinc	0.0400	mg/L	0.0100	0.0054		X448017	NMS	12/04/24 08:59	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X447094	JRR	11/29/24 12:59	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X447094	JRR	11/29/24 12:59	
EPA 200.8	Selenium	0.00201	mg/L	0.00100	0.00024		X447094	JRR	11/29/24 12:59	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X447094	JRR	11/29/24 12:59	
EPA 200.8	Uranium	0.0210	mg/L	0.000100	0.000052		X447094	JRR	11/29/24 12:59	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X448124	MAC	12/02/24 16:38	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X447118	DD	11/20/24 16:42	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X447232	DD	11/26/24 10:30	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X447167	JPM	11/22/24 10:03	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449037	DD	12/02/24 14:18	
SM 2310 B	Acidity to pH 8.3	-115	mg/L as CaCO3	10.0			X447226	MWD	11/22/24 15:27	
SM 2320 B	Total Alkalinity	117	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:55	
SM 2320 B	Bicarbonate	117	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:55	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:55	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:55	
SM 2540 C	Total Diss. Solids	2540	mg/L	40			X447202	TJL	11/23/24 10:25	
SM 2540 D	Total Susp. Solids	24.0	mg/L	5.0			X447204	TJL	11/25/24 14:55	
SM 4500 H B	pH @19.4°C	7.1	pH Units				X447180	MWD	11/21/24 17:55	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 6 of 13



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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: X4K0280 Reported: 04-Dec-24 14:38
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Client Sample ID: **GVMW-24 B**
SVL Sample ID: **X4K0280-03 (Ground Water)**

Sampled: 18-Nov-24 13:40
Received: 19-Nov-24
Sampled By: TR

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	18.9	mg/L	10.0	1.10	50	X447075	RS	11/19/24 19:57	
EPA 300.0	Fluoride	1.26	mg/L	0.100	0.017		X447075	RS	11/19/24 19:26	
EPA 300.0	Nitrate as N	1.68	mg/L	0.050	0.013		X447075	RS	11/19/24 19:26	
EPA 300.0	Nitrate+Nitrite as N	1.69	mg/L	0.100	0.044		X447075	RS	11/19/24 19:26	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X447075	RS	11/19/24 19:26	
EPA 300.0	Sulfate as SO4	1700	mg/L	15.0	9.00	50	X447075	RS	11/19/24 19:57	

Cation/Anion Balance and TDS Ratios

Cation Sum: 36.7 meq/L	Anion Sum: 38.5 meq/L	C/A Balance: -2.32 %	Calculated TDS: 2455	TDS/cTDS: 1.03
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0280**

Reported: 04-Dec-24 14:38

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X448120	02-Dec-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X448120	02-Dec-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X448120	02-Dec-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X448017	04-Dec-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X448017	04-Dec-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X448017	04-Dec-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X448017	04-Dec-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X448017	04-Dec-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X448017	04-Dec-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X448017	04-Dec-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X448017	04-Dec-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X448017	04-Dec-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X448017	04-Dec-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X448017	04-Dec-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X448017	04-Dec-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X448017	04-Dec-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X448017	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X448017	04-Dec-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X448017	04-Dec-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X448017	04-Dec-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X448017	04-Dec-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X448017	04-Dec-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X448017	04-Dec-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X448017	04-Dec-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X447094	29-Nov-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X447094	29-Nov-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X447094	29-Nov-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X447094	29-Nov-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X447094	29-Nov-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X448124	02-Dec-24	
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X448124	02-Dec-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X447118	20-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X447232	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X447167	22-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X449037	02-Dec-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X447226	22-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X447180	21-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X447180	21-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X447180	21-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X447180	21-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X447202	23-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X447204	25-Nov-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X447075	19-Nov-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X447075	19-Nov-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X447075	19-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X447075	19-Nov-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X447075	19-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X447075	19-Nov-24	



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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4K0280**

Reported: 04-Dec-24 14:38

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X448120	02-Dec-24	
EPA 200.7	Magnesium	mg/L	20.1	20.0	100	85 - 115	X448120	02-Dec-24	
EPA 200.7	Potassium	mg/L	20.6	20.0	103	85 - 115	X448120	02-Dec-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.921	1.00	92.1	85 - 115	X448017	04-Dec-24	
EPA 200.7	Barium	mg/L	0.994	1.00	99.4	85 - 115	X448017	04-Dec-24	
EPA 200.7	Beryllium	mg/L	0.983	1.00	98.3	85 - 115	X448017	04-Dec-24	
EPA 200.7	Boron	mg/L	0.993	1.00	99.3	85 - 115	X448017	04-Dec-24	
EPA 200.7	Cadmium	mg/L	0.947	1.00	94.7	85 - 115	X448017	04-Dec-24	
EPA 200.7	Calcium	mg/L	19.1	20.0	95.3	85 - 115	X448017	04-Dec-24	
EPA 200.7	Chromium	mg/L	0.974	1.00	97.4	85 - 115	X448017	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.953	1.00	95.3	85 - 115	X448017	04-Dec-24	
EPA 200.7	Copper	mg/L	0.956	1.00	95.6	85 - 115	X448017	04-Dec-24	
EPA 200.7	Iron	mg/L	9.70	10.0	97.0	85 - 115	X448017	04-Dec-24	
EPA 200.7	Lead	mg/L	0.963	1.00	96.3	85 - 115	X448017	04-Dec-24	
EPA 200.7	Lithium	mg/L	0.977	1.00	97.7	85 - 115	X448017	04-Dec-24	
EPA 200.7	Magnesium	mg/L	18.7	20.0	93.4	85 - 115	X448017	04-Dec-24	
EPA 200.7	Manganese	mg/L	0.968	1.00	96.8	85 - 115	X448017	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	0.979	1.00	97.9	85 - 115	X448017	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.946	1.00	94.6	85 - 115	X448017	04-Dec-24	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.2	85 - 115	X448017	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0486	0.0500	97.2	85 - 115	X448017	04-Dec-24	
EPA 200.7	Sodium	mg/L	18.7	19.0	98.4	85 - 115	X448017	04-Dec-24	
EPA 200.7	Vanadium	mg/L	0.984	1.00	98.4	85 - 115	X448017	04-Dec-24	
EPA 200.7	Zinc	mg/L	0.962	1.00	96.2	85 - 115	X448017	04-Dec-24	
EPA 200.8	Antimony	mg/L	0.0249	0.0250	99.6	85 - 115	X447094	29-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0250	0.0250	100	85 - 115	X447094	29-Nov-24	
EPA 200.8	Selenium	mg/L	0.0252	0.0250	101	85 - 115	X447094	29-Nov-24	
EPA 200.8	Thallium	mg/L	0.0249	0.0250	99.5	85 - 115	X447094	29-Nov-24	
EPA 200.8	Uranium	mg/L	0.0253	0.0250	101	85 - 115	X447094	29-Nov-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00198	0.00200	99.0	85 - 115	X448124	02-Dec-24	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0940	0.100	94.0	90 - 110	X447118	20-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.0965	0.100	96.5	90 - 110	X447232	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	0.994	1.00	99.4	90 - 110	X447167	22-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X449037	02-Dec-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	721	706	102	95.4 - 104	X447226	22-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X447180	21-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X447180	21-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X447204	25-Nov-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.95	3.00	98.3	90 - 110	X447075	19-Nov-24	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.8	90 - 110	X447075	19-Nov-24	
EPA 300.0	Nitrate as N	mg/L	1.94	2.00	96.8	90 - 110	X447075	19-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.41	4.50	98.0	90 - 110	X447075	19-Nov-24	
EPA 300.0	Nitrite as N	mg/L	2.47	2.50	99.0	90 - 110	X447075	19-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X447075	19-Nov-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 9 of 13

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0280**

Reported: 04-Dec-24 14:38

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 CaCO ₃	<10.0	<10.0	UDL	20	X447226 - X4K0264-01	22-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	124	124	0.1	20	X447180 - X4K0264-02	21-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	124	124	0.1	20	X447180 - X4K0264-02	21-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X447180 - X4K0264-02	21-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X447180 - X4K0264-02	21-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	255	251	1.6	10	X447202 - X4K0280-02	23-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	270	273	1.1	10	X447202 - X4K0275-02	23-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	11.0	11.0	0.0	10	X447204 - X4K0275-02	25-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	5.0	<5.0	<RL	10	X447204 - X4K0280-02	25-Nov-24	
SM 4500 H B	pH @19.5°C	pH Units	7.9	7.9	0.3	20	X447180 - X4K0264-02	21-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	81.2	57.9	20.0	117	70 - 130	X448120 - X4K0275-02	02-Dec-24	
EPA 200.7	Magnesium	mg/L	26.4	5.84	20.0	103	70 - 130	X448120 - X4K0275-02	02-Dec-24	
EPA 200.7	Potassium	mg/L	26.2	4.70	20.0	108	70 - 130	X448120 - X4K0275-02	02-Dec-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.964	<0.080	1.00	96.4	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Aluminum	mg/L	0.915	<0.080	1.00	91.5	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Barium	mg/L	1.12	0.106	1.00	101	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Barium	mg/L	0.991	<0.0020	1.00	99.1	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Beryllium	mg/L	0.997	<0.00200	1.00	99.7	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Boron	mg/L	1.05	<0.0400	1.00	102	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Boron	mg/L	0.980	<0.0400	1.00	98.0	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Cadmium	mg/L	0.983	<0.0020	1.00	98.3	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Cadmium	mg/L	0.982	<0.0020	1.00	98.2	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Calcium	mg/L	47.6	28.5	20.0	95.7	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Calcium	mg/L	18.8	<0.100	20.0	94.1	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Chromium	mg/L	0.990	<0.0060	1.00	99.0	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.980	<0.0060	1.00	98.0	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.976	<0.0060	1.00	97.6	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Copper	mg/L	0.983	<0.0100	1.00	98.3	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Copper	mg/L	0.969	<0.0100	1.00	96.9	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Iron	mg/L	10.1	0.146	10.0	99.1	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Iron	mg/L	9.56	<0.100	10.0	95.6	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Lead	mg/L	0.990	<0.0075	1.00	99.0	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Lead	mg/L	0.990	<0.0075	1.00	99.0	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Lithium	mg/L	0.977	<0.040	1.00	97.7	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Magnesium	mg/L	31.2	11.5	20.0	98.2	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Magnesium	mg/L	18.8	<0.500	20.0	93.8	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Manganese	mg/L	1.21	0.213	1.00	99.9	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Manganese	mg/L	0.999	<0.0080	1.00	99.9	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	1.00	0.0106	1.00	99.4	70 - 130	X448017 - X4K0280-01	04-Dec-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 10 of 13

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0280**

Reported: 04-Dec-24 14:38

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Molybdenum	mg/L	0.975	<0.0080	1.00	97.5	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.976	<0.0100	1.00	97.1	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.971	<0.0100	1.00	97.1	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Potassium	mg/L	21.8	1.25	20.0	103	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Potassium	mg/L	19.5	<0.50	20.0	97.3	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0479	<0.0050	0.0500	95.9	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0462	<0.0050	0.0500	92.4	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Sodium	mg/L	55.2	36.8	19.0	97.0	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Sodium	mg/L	18.4	<0.50	19.0	97.0	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.02	<0.0050	1.00	102	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Vanadium	mg/L	0.994	<0.0050	1.00	99.4	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.7	Zinc	mg/L	1.01	<0.0100	1.00	101	70 - 130	X448017 - X4K0280-01	04-Dec-24	
EPA 200.7	Zinc	mg/L	0.995	<0.0100	1.00	99.5	70 - 130	X448017 - X4K0374-08	04-Dec-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.00100	0.0250	102	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Antimony	mg/L	0.0251	<0.00100	0.0250	100	70 - 130	X447094 - X4K0276-02	29-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0264	<0.00100	0.0250	103	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0256	<0.00100	0.0250	102	70 - 130	X447094 - X4K0276-02	29-Nov-24	
EPA 200.8	Selenium	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Selenium	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X447094 - X4K0276-02	29-Nov-24	
EPA 200.8	Thallium	mg/L	0.0244	<0.000200	0.0250	97.6	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Thallium	mg/L	0.0257	<0.000200	0.0250	103	70 - 130	X447094 - X4K0276-02	29-Nov-24	
EPA 200.8	Uranium	mg/L	0.0302	0.00448	0.0250	103	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Uranium	mg/L	0.0259	<0.000100	0.0250	104	70 - 130	X447094 - X4K0276-02	29-Nov-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	100	70 - 130	X448124 - X4K0276-01	02-Dec-24	
EPA 245.1	Mercury	mg/L	0.00197	<0.000200	0.00200	98.4	70 - 130	X448124 - X4K0315-01	02-Dec-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0510	<0.0050	0.100	51.0	79 - 121	X447118 - X4K0224-14	20-Nov-24	M2
EPA 335.4	Cyanide (total)	mg/L	0.0977	<0.0050	0.100	97.7	90 - 110	X447232 - X4K0280-03	26-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.0976	<0.0050	0.100	97.6	90 - 110	X447232 - X4K0280-01	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.27	<0.030	1.00	125	90 - 110	X447167 - X4K0280-01	22-Nov-24	M1
EPA 350.1	Ammonia as N	mg/L	1.30	<0.030	1.00	130	90 - 110	X447167 - X4K0280-02	22-Nov-24	M1
OIA 1677	Cyanide (WAD)	mg/L	0.100	<0.0050	0.100	100	82 - 118	X449037 - X4K0276-01	02-Dec-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.09	<0.20	3.00	97.8	90 - 110	X447075 - X4K0276-02	19-Nov-24	
EPA 300.0	Chloride	mg/L	3.95	1.03	3.00	97.1	90 - 110	X447075 - X4K0274-01	20-Nov-24	
EPA 300.0	Fluoride	mg/L	2.17	0.154	2.00	101	90 - 110	X447075 - X4K0276-02	19-Nov-24	
EPA 300.0	Fluoride	mg/L	2.01	0.114	2.00	94.7	90 - 110	X447075 - X4K0274-01	20-Nov-24	
EPA 300.0	Nitrate as N	mg/L	1.95	<0.050	2.00	97.7	90 - 110	X447075 - X4K0276-02	19-Nov-24	
EPA 300.0	Nitrate as N	mg/L	6.40	4.43	2.00	98.9	90 - 110	X447075 - X4K0274-01	20-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.93	<0.100	4.00	98.1	90 - 110	X447075 - X4K0276-02	19-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	8.43	4.50	4.00	98.4	90 - 110	X447075 - X4K0274-01	20-Nov-24	
EPA 300.0	Nitrite as N	mg/L	1.97	<0.050	2.00	98.5	90 - 110	X447075 - X4K0276-02	19-Nov-24	
EPA 300.0	Nitrite as N	mg/L	2.03	0.071	2.00	97.8	90 - 110	X447075 - X4K0274-01	20-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	<0.30	10.0	103	90 - 110	X447075 - X4K0276-02	19-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	102	93.8	10.0	0.30R>S	90 - 110	X447075 - X4K0274-01	20-Nov-24	M4



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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: **X4K0280**

Reported: 04-Dec-24 14:38

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	79.9	81.2	20.0	2.0	20	110	X448120 - X4K0275-02	
EPA 200.7	Magnesium	mg/L	26.1	26.4	20.0	1.4	20	101	X448120 - X4K0275-02	
EPA 200.7	Potassium	mg/L	25.9	26.2	20.0	1.3	20	106	X448120 - X4K0275-02	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.991	0.964	1.00	2.8	20	99.1	X448017 - X4K0280-01	
EPA 200.7	Barium	mg/L	1.15	1.12	1.00	2.4	20	104	X448017 - X4K0280-01	
EPA 200.7	Beryllium	mg/L	1.01	1.02	1.00	0.4	20	101	X448017 - X4K0280-01	
EPA 200.7	Boron	mg/L	1.08	1.05	1.00	2.7	20	105	X448017 - X4K0280-01	
EPA 200.7	Cadmium	mg/L	0.989	0.983	1.00	0.7	20	98.9	X448017 - X4K0280-01	
EPA 200.7	Calcium	mg/L	48.2	47.6	20.0	1.2	20	98.6	X448017 - X4K0280-01	
EPA 200.7	Chromium	mg/L	1.00	1.00	1.00	0.2	20	100	X448017 - X4K0280-01	
EPA 200.7	Cobalt	mg/L	0.981	0.980	1.00	0.1	20	98.1	X448017 - X4K0280-01	
EPA 200.7	Copper	mg/L	0.989	0.983	1.00	0.6	20	98.9	X448017 - X4K0280-01	
EPA 200.7	Iron	mg/L	10.1	10.1	10.0	0.6	20	99.7	X448017 - X4K0280-01	
EPA 200.7	Lead	mg/L	0.991	0.990	1.00	0.2	20	99.1	X448017 - X4K0280-01	
EPA 200.7	Lithium	mg/L	1.03	1.03	1.00	0.2	20	103	X448017 - X4K0280-01	
EPA 200.7	Magnesium	mg/L	31.7	31.2	20.0	1.8	20	101	X448017 - X4K0280-01	
EPA 200.7	Manganese	mg/L	1.22	1.21	1.00	0.3	20	100	X448017 - X4K0280-01	
EPA 200.7	Molybdenum	mg/L	1.01	1.00	1.00	0.2	20	99.6	X448017 - X4K0280-01	
EPA 200.7	Nickel	mg/L	0.978	0.976	1.00	0.2	20	97.3	X448017 - X4K0280-01	
EPA 200.7	Potassium	mg/L	21.3	21.8	20.0	2.1	20	100	X448017 - X4K0280-01	
EPA 200.7	Silver	mg/L	0.0490	0.0479	0.0500	2.2	20	98.0	X448017 - X4K0280-01	
EPA 200.7	Sodium	mg/L	55.8	55.2	19.0	1.0	20	100	X448017 - X4K0280-01	
EPA 200.7	Vanadium	mg/L	1.02	1.02	1.00	0.0	20	102	X448017 - X4K0280-01	
EPA 200.7	Zinc	mg/L	1.01	1.01	1.00	0.4	20	101	X448017 - X4K0280-01	
EPA 200.8	Antimony	mg/L	0.0251	0.0256	0.0250	1.8	20	101	X447094 - X4K0192-01	
EPA 200.8	Arsenic	mg/L	0.0256	0.0264	0.0250	3.0	20	99.9	X447094 - X4K0192-01	
EPA 200.8	Selenium	mg/L	0.0249	0.0257	0.0250	3.1	20	99.6	X447094 - X4K0192-01	
EPA 200.8	Thallium	mg/L	0.0246	0.0244	0.0250	0.7	20	98.3	X447094 - X4K0192-01	
EPA 200.8	Uranium	mg/L	0.0303	0.0302	0.0250	0.2	20	103	X447094 - X4K0192-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00200	0.00200	0.00200	0.2	20	99.9	X448124 - X4K0276-01	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0670	0.0510	0.100	27.1	11	67.0	X447118 - X4K0224-14	M2
EPA 335.4	Cyanide (total)	mg/L	0.100	0.0977	0.100	2.4	20	100	X447232 - X4K0280-03	
EPA 350.1	Ammonia as N	mg/L	1.22	1.27	1.00	3.9	20	121	X447167 - X4K0280-01	M1
OIA 1677	Cyanide (WAD)	mg/L	0.105	0.100	0.100	4.9	11	105	X449037 - X4K0276-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.07	3.09	3.00	0.5	20	97.3	X447075 - X4K0276-02	
EPA 300.0	Fluoride	mg/L	2.11	2.17	2.00	2.5	20	97.9	X447075 - X4K0276-02	
EPA 300.0	Nitrate as N	mg/L	1.95	1.95	2.00	0.4	20	97.3	X447075 - X4K0276-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.92	3.93	4.00	0.2	20	97.9	X447075 - X4K0276-02	
EPA 300.0	Nitrite as N	mg/L	1.97	1.97	2.00	0.0	20	98.5	X447075 - X4K0276-02	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.5	10.0	2.9	20	100	X447075 - X4K0276-02	



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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0280**

Reported: 04-Dec-24 14:38

Notes and Definitions

H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
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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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0276**

Reported: 05-Dec-24 10:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-122 F	X4K0276-01	Ground Water	18-Nov-24 10:10	TR	19-Nov-2024	
RB-1118	X4K0276-02	Ground Water	18-Nov-24 11:09	TR	19-Nov-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: X4K0276

The state of origin only accredits for drinking water analyses.

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

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0276**

Reported: 05-Dec-24 10:33

Client Sample ID: **GVMW-122 F**

Sampled: 18-Nov-24 10:10

Received: 19-Nov-24

Sampled By: TR

SVL Sample ID: **X4K0276-01 (Ground Water)****Sample Report Page 1 of 2**

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	28.3	mg/L	0.100	0.069		X448120	SJN	12/02/24 15:54	
EPA 200.7	Magnesium	11.7	mg/L	0.500	0.090		X448120	SJN	12/02/24 15:54	
EPA 200.7	Potassium	1.27	mg/L	0.50	0.18		X448120	SJN	12/02/24 15:54	
SM 2340 B	Hardness (as CaCO3)	119	mg/L	2.31	0.543		N/A		12/04/24 12:44	
Metals (Dissolved)										
EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X449013	SJN	12/04/24 12:44	
EPA 200.7	Barium	0.107	mg/L	0.0020	0.0019		X449013	SJN	12/04/24 12:44	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X449013	SJN	12/04/24 12:44	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449013	SJN	12/04/24 12:44	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X449013	SJN	12/04/24 12:44	
EPA 200.7	Calcium	29.4	mg/L	0.100	0.069		X449013	SJN	12/04/24 12:44	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X449013	SJN	12/04/24 12:44	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X449013	SJN	12/04/24 12:44	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X449013	SJN	12/04/24 12:44	
EPA 200.7	Iron	0.158	mg/L	0.100	0.056		X449013	SJN	12/04/24 12:44	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X449013	SJN	12/04/24 12:44	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X449013	SJN	12/04/24 12:44	
EPA 200.7	Magnesium	11.7	mg/L	0.500	0.090		X449013	SJN	12/04/24 12:44	
EPA 200.7	Manganese	0.212	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 12:44	
EPA 200.7	Molybdenum	0.0100	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 12:44	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X449013	SJN	12/04/24 12:44	
EPA 200.7	Potassium	1.32	mg/L	0.50	0.18		X449013	SJN	12/04/24 12:44	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 12:44	
EPA 200.7	Sodium	37.9	mg/L	0.50	0.12		X449013	SJN	12/04/24 12:44	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 12:44	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X449013	SJN	12/04/24 12:44	
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X447094	JRR	11/29/24 12:46	D17
EPA 200.8	Arsenic	< 0.00500	mg/L	0.00500	0.00105	5	X447094	JRR	11/29/24 12:46	D17
EPA 200.8	Selenium	< 0.00500	mg/L	0.00500	0.00120	5	X447094	JRR	11/29/24 12:46	D17
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X447094	JRR	11/29/24 12:46	D17
EPA 200.8	Uranium	0.00352	mg/L	0.000500	0.000260	5	X447094	JRR	11/29/24 12:46	D17
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X448124	MAC	12/02/24 16:30	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X447118	DD	11/20/24 16:36	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X447232	DD	11/26/24 10:20	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X447167	JPM	11/22/24 09:55	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449037	DD	12/02/24 14:12	
SM 2310 B	Acidity to pH 8.3	-160	mg/L as CaCO3	10.0			X447226	MWD	11/22/24 15:27	
SM 2320 B	Total Alkalinity	166	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:25	
SM 2320 B	Bicarbonate	166	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:25	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:25	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:25	
SM 2540 C	Total Diss. Solids	241	mg/L	10			X447202	TJL	11/23/24 10:25	
SM 2540 D	Total Susp. Solids	6.0	mg/L	5.0			X447204	TJL	11/25/24 14:55	
SM 4500 H B	pH @19.5°C	7.9	pH Units				X447180	MWD	11/21/24 17:25	H5



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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4K0276 Reported: 05-Dec-24 10:33
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Client Sample ID: **GVMW-122 F**
SVL Sample ID: **X4K0276-01 (Ground Water)**

Sampled: 18-Nov-24 10:10
Received: 19-Nov-24
Sampled By: TR

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	3.71	mg/L	0.20	0.02		X447075	RS	11/19/24 16:25	
EPA 300.0	Fluoride	2.23	mg/L	0.100	0.017		X447075	RS	11/19/24 16:25	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X447075	RS	11/19/24 16:25	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X447075	RS	11/19/24 16:25	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X447075	RS	11/19/24 16:25	
EPA 300.0	Sulfate as SO4	31.2	mg/L	0.30	0.18		X447075	RS	11/19/24 16:25	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.08 meq/L	Anion Sum: 4.19 meq/L	C/A Balance: -1.32 %	Calculated TDS: 216	TDS/cTDS: 1.11
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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: **X4K0276**

Reported: 05-Dec-24 10:33

Client Sample ID: **RB-1118**

Sampled: 18-Nov-24 11:09

Received: 19-Nov-24

Sampled By: TR

SVL Sample ID: **X4K0276-02 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X448120	SJN	12/02/24 15:58	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X448120	SJN	12/02/24 15:58	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X448120	SJN	12/02/24 15:58	
SM 2340 B	Hardness (as CaCO3)	< 2.31	mg/L	2.31	0.543		N/A		12/04/24 12:47	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X449013	SJN	12/04/24 12:47	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X449013	SJN	12/04/24 12:47	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X449013	SJN	12/04/24 12:47	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449013	SJN	12/04/24 12:47	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X449013	SJN	12/04/24 12:47	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X449013	SJN	12/04/24 12:47	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X449013	SJN	12/04/24 12:47	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X449013	SJN	12/04/24 12:47	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X449013	SJN	12/04/24 12:47	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X449013	SJN	12/04/24 12:47	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X449013	SJN	12/04/24 12:47	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X449013	SJN	12/04/24 12:47	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X449013	SJN	12/04/24 12:47	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 12:47	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 12:47	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X449013	SJN	12/04/24 12:47	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X449013	SJN	12/04/24 12:47	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 12:47	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X449013	SJN	12/04/24 12:47	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 12:47	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X449013	SJN	12/04/24 12:47	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X447094	JRR	11/29/24 12:48	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X447094	JRR	11/29/24 12:48	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X447094	JRR	11/29/24 12:48	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X447094	JRR	11/29/24 12:48	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X447094	JRR	11/29/24 12:48	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X448124	MAC	12/02/24 16:32	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X447118	DD	11/20/24 16:37	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X447232	DD	11/26/24 10:23	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X447167	JPM	11/22/24 09:57	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449037	DD	12/02/24 14:14	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X447226	MWD	11/22/24 15:27	
SM 2320 B	Total Alkalinity	1.1	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:40	
SM 2320 B	Bicarbonate	1.1	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:40	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:40	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 17:40	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X447202	TJL	11/23/24 10:25	
SM 2540 D	Total Susp. Solids	6.0	mg/L	5.0			X447204	TJL	11/25/24 14:55	
SM 4500 H B	pH @19.3°C	6.3	pH Units				X447180	MWD	11/21/24 17:40	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 4 of 11



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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4K0276
Victor, CO 80860	Reported: 05-Dec-24 10:33

Client Sample ID: **RB-1118**

SVL Sample ID: **X4K0276-02 (Ground Water)**

Sample Report Page 2 of 2

Sampled: 18-Nov-24 11:09
Received: 19-Nov-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 0.20	mg/L	0.20	0.02		X447075	RS	11/19/24 16:58	
EPA 300.0	Fluoride	0.154	mg/L	0.100	0.017		X447075	RS	11/19/24 16:58	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X447075	RS	11/19/24 16:58	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X447075	RS	11/19/24 16:58	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X447075	RS	11/19/24 16:58	
EPA 300.0	Sulfate as SO4	< 0.30	mg/L	0.30	0.18		X447075	RS	11/19/24 16:58	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.03 meq/L	Anion Sum: 0.04 meq/L	C/A Balance: -5.62 %	Calculated TDS: 1	TDS/cTDS: 0.00
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0276**

Reported: 05-Dec-24 10:33

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X448120	02-Dec-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X448120	02-Dec-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X448120	02-Dec-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X449013	04-Dec-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X449013	04-Dec-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X449013	04-Dec-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X449013	04-Dec-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X449013	04-Dec-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X449013	04-Dec-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X449013	04-Dec-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X449013	04-Dec-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X449013	04-Dec-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X449013	04-Dec-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X449013	04-Dec-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X449013	04-Dec-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X449013	04-Dec-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X449013	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X449013	04-Dec-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X449013	04-Dec-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X449013	04-Dec-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X449013	04-Dec-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X449013	04-Dec-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X449013	04-Dec-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X449013	04-Dec-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X447094	29-Nov-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X447094	29-Nov-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X447094	29-Nov-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X447094	29-Nov-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X447094	29-Nov-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X448124	02-Dec-24	
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X448124	02-Dec-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X447118	20-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X447232	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X447167	22-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X449037	02-Dec-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X447226	22-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X447180	21-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X447180	21-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X447180	21-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X447180	21-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X447202	23-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X447204	25-Nov-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X447075	19-Nov-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X447075	19-Nov-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X447075	19-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X447075	19-Nov-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X447075	19-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X447075	19-Nov-24	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net
Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4K0276**

Reported: 05-Dec-24 10:33

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	19.8	20.0	99	85 - 115	X448120	02-Dec-24	
EPA 200.7	Magnesium	mg/L	20.1	20.0	100	85 - 115	X448120	02-Dec-24	
EPA 200.7	Potassium	mg/L	20.6	20.0	103	85 - 115	X448120	02-Dec-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.938	1.00	93.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Barium	mg/L	0.968	1.00	96.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.01	1.00	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Boron	mg/L	0.960	1.00	96.0	85 - 115	X449013	04-Dec-24	
EPA 200.7	Cadmium	mg/L	0.983	1.00	98.3	85 - 115	X449013	04-Dec-24	
EPA 200.7	Calcium	mg/L	19.4	20.0	96.9	85 - 115	X449013	04-Dec-24	
EPA 200.7	Chromium	mg/L	0.985	1.00	98.5	85 - 115	X449013	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X449013	04-Dec-24	
EPA 200.7	Copper	mg/L	0.964	1.00	96.4	85 - 115	X449013	04-Dec-24	
EPA 200.7	Iron	mg/L	9.88	10.0	98.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Lead	mg/L	0.983	1.00	98.3	85 - 115	X449013	04-Dec-24	
EPA 200.7	Lithium	mg/L	0.924	1.00	92.4	85 - 115	X449013	04-Dec-24	
EPA 200.7	Magnesium	mg/L	18.8	20.0	93.9	85 - 115	X449013	04-Dec-24	
EPA 200.7	Manganese	mg/L	0.986	1.00	98.6	85 - 115	X449013	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	1.00	1.00	100	85 - 115	X449013	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.961	1.00	96.1	85 - 115	X449013	04-Dec-24	
EPA 200.7	Potassium	mg/L	20.2	20.0	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0504	0.0500	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Sodium	mg/L	18.6	19.0	97.7	85 - 115	X449013	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Zinc	mg/L	0.978	1.00	97.8	85 - 115	X449013	04-Dec-24	
EPA 200.8	Antimony	mg/L	0.0249	0.0250	99.6	85 - 115	X447094	29-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0250	0.0250	100	85 - 115	X447094	29-Nov-24	
EPA 200.8	Selenium	mg/L	0.0252	0.0250	101	85 - 115	X447094	29-Nov-24	
EPA 200.8	Thallium	mg/L	0.0249	0.0250	99.5	85 - 115	X447094	29-Nov-24	
EPA 200.8	Uranium	mg/L	0.0253	0.0250	101	85 - 115	X447094	29-Nov-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00198	0.00200	99.0	85 - 115	X448124	02-Dec-24	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0940	0.100	94.0	90 - 110	X447118	20-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.0965	0.100	96.5	90 - 110	X447232	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	0.994	1.00	99.4	90 - 110	X447167	22-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X449037	02-Dec-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	721	706	102	95.4 - 104	X447226	22-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X447180	21-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X447180	21-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X447204	25-Nov-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.95	3.00	98.3	90 - 110	X447075	19-Nov-24	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.8	90 - 110	X447075	19-Nov-24	
EPA 300.0	Nitrate as N	mg/L	1.94	2.00	96.8	90 - 110	X447075	19-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.41	4.50	98.0	90 - 110	X447075	19-Nov-24	
EPA 300.0	Nitrite as N	mg/L	2.47	2.50	99.0	90 - 110	X447075	19-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X447075	19-Nov-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0276**

Reported: 05-Dec-24 10:33

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X447226 - X4K0264-01	22-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	124	124	0.1	20	X447180 - X4K0264-02	21-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	124	124	0.1	20	X447180 - X4K0264-02	21-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X447180 - X4K0264-02	21-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X447180 - X4K0264-02	21-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	255	251	1.6	10	X447202 - X4K0280-02	23-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	270	273	1.1	10	X447202 - X4K0275-02	23-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	11.0	11.0	0.0	10	X447204 - X4K0275-02	25-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	5.0	<5.0	<RL	10	X447204 - X4K0280-02	25-Nov-24	
SM 4500 H B	pH @19.5°C	pH Units	7.9	7.9	0.3	20	X447180 - X4K0264-02	21-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	81.2	57.9	20.0	117	70 - 130	X448120 - X4K0275-02	02-Dec-24	
EPA 200.7	Magnesium	mg/L	26.4	5.84	20.0	103	70 - 130	X448120 - X4K0275-02	02-Dec-24	
EPA 200.7	Potassium	mg/L	26.2	4.70	20.0	108	70 - 130	X448120 - X4K0275-02	02-Dec-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.04	<0.080	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Aluminum	mg/L	1.06	<0.080	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Barium	mg/L	1.12	0.107	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Barium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Boron	mg/L	1.09	<0.0400	1.00	108	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Calcium	mg/L	49.1	29.4	20.0	98.6	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Calcium	mg/L	70.3	48.3	20.0	110	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.995	<0.0060	1.00	99.5	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.984	<0.0060	1.00	98.4	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Copper	mg/L	0.997	<0.0100	1.00	99.7	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	99.9	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Iron	mg/L	10.2	0.158	10.0	100	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	101	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Lithium	mg/L	1.06	<0.040	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Magnesium	mg/L	31.8	11.7	20.0	101	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Magnesium	mg/L	26.1	6.00	20.0	100	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Manganese	mg/L	1.24	0.212	1.00	103	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Manganese	mg/L	1.02	<0.0080	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	1.06	0.0100	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 8 of 11

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0276**

Reported: 05-Dec-24 10:33

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Molybdenum	mg/L	1.04	<0.0080	1.00	104	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.980	<0.0100	1.00	98.0	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.973	<0.0100	1.00	97.3	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Potassium	mg/L	21.4	1.32	20.0	100	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Potassium	mg/L	21.3	0.83	20.0	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0541	<0.0050	0.0500	108	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0562	<0.0050	0.0500	112	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Sodium	mg/L	56.4	37.9	19.0	97.5	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Sodium	mg/L	43.2	23.9	19.0	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Zinc	mg/L	1.04	<0.0100	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.8	Antimony	mg/L	0.0256	<0.00100	0.0250	102	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Antimony	mg/L	0.0251	<0.00100	0.0250	100	70 - 130	X447094 - X4K0276-02	29-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0264	<0.00100	0.0250	103	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Arsenic	mg/L	0.0256	<0.00100	0.0250	102	70 - 130	X447094 - X4K0276-02	29-Nov-24	
EPA 200.8	Selenium	mg/L	0.0257	<0.00100	0.0250	103	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Selenium	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X447094 - X4K0276-02	29-Nov-24	
EPA 200.8	Thallium	mg/L	0.0244	<0.000200	0.0250	97.6	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Thallium	mg/L	0.0257	<0.000200	0.0250	103	70 - 130	X447094 - X4K0276-02	29-Nov-24	
EPA 200.8	Uranium	mg/L	0.0302	0.00448	0.0250	103	70 - 130	X447094 - X4K0192-01	29-Nov-24	
EPA 200.8	Uranium	mg/L	0.0259	<0.000100	0.0250	104	70 - 130	X447094 - X4K0276-02	29-Nov-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	100	70 - 130	X448124 - X4K0276-01	02-Dec-24	
EPA 245.1	Mercury	mg/L	0.00197	<0.000200	0.00200	98.4	70 - 130	X448124 - X4K0315-01	02-Dec-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0510	<0.0050	0.100	51.0	79 - 121	X447118 - X4K0224-14	20-Nov-24	M2
EPA 335.4	Cyanide (total)	mg/L	0.0977	<0.0050	0.100	97.7	90 - 110	X447232 - X4K0280-03	26-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.0976	<0.0050	0.100	97.6	90 - 110	X447232 - X4K0280-01	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.27	<0.030	1.00	125	90 - 110	X447167 - X4K0280-01	22-Nov-24	M1
EPA 350.1	Ammonia as N	mg/L	1.30	<0.030	1.00	130	90 - 110	X447167 - X4K0280-02	22-Nov-24	M1
OIA 1677	Cyanide (WAD)	mg/L	0.100	<0.0050	0.100	100	82 - 118	X449037 - X4K0276-01	02-Dec-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.09	<0.20	3.00	97.8	90 - 110	X447075 - X4K0276-02	19-Nov-24	
EPA 300.0	Chloride	mg/L	3.95	1.03	3.00	97.1	90 - 110	X447075 - X4K0274-01	20-Nov-24	
EPA 300.0	Fluoride	mg/L	2.17	0.154	2.00	101	90 - 110	X447075 - X4K0276-02	19-Nov-24	
EPA 300.0	Fluoride	mg/L	2.01	0.114	2.00	94.7	90 - 110	X447075 - X4K0274-01	20-Nov-24	
EPA 300.0	Nitrate as N	mg/L	1.95	<0.050	2.00	97.7	90 - 110	X447075 - X4K0276-02	19-Nov-24	
EPA 300.0	Nitrate as N	mg/L	6.40	4.43	2.00	98.9	90 - 110	X447075 - X4K0274-01	20-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.93	<0.100	4.00	98.1	90 - 110	X447075 - X4K0276-02	19-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	8.43	4.50	4.00	98.4	90 - 110	X447075 - X4K0274-01	20-Nov-24	
EPA 300.0	Nitrite as N	mg/L	1.97	<0.050	2.00	98.5	90 - 110	X447075 - X4K0276-02	19-Nov-24	
EPA 300.0	Nitrite as N	mg/L	2.03	0.071	2.00	97.8	90 - 110	X447075 - X4K0274-01	20-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	10.5	<0.30	10.0	103	90 - 110	X447075 - X4K0276-02	19-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	102	93.8	10.0	0.30R>S	90 - 110	X447075 - X4K0274-01	20-Nov-24	M4



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4K0276**

Reported: 05-Dec-24 10:33

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	79.9	81.2	20.0	2.0	20	110	X448120 - X4K0275-02	
EPA 200.7	Magnesium	mg/L	26.1	26.4	20.0	1.4	20	101	X448120 - X4K0275-02	
EPA 200.7	Potassium	mg/L	25.9	26.2	20.0	1.3	20	106	X448120 - X4K0275-02	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.04	1.04	1.00	0.1	20	104	X449013 - X4K0276-01	
EPA 200.7	Barium	mg/L	1.13	1.12	1.00	0.8	20	103	X449013 - X4K0276-01	
EPA 200.7	Beryllium	mg/L	1.04	1.05	1.00	0.6	20	104	X449013 - X4K0276-01	
EPA 200.7	Boron	mg/L	1.07	1.07	1.00	0.1	20	104	X449013 - X4K0276-01	
EPA 200.7	Cadmium	mg/L	1.03	1.02	1.00	0.4	20	103	X449013 - X4K0276-01	
EPA 200.7	Calcium	mg/L	49.6	49.1	20.0	0.9	20	101	X449013 - X4K0276-01	
EPA 200.7	Chromium	mg/L	1.02	1.03	1.00	0.5	20	102	X449013 - X4K0276-01	
EPA 200.7	Cobalt	mg/L	0.992	0.995	1.00	0.4	20	99.2	X449013 - X4K0276-01	
EPA 200.7	Copper	mg/L	0.993	0.997	1.00	0.4	20	99.3	X449013 - X4K0276-01	
EPA 200.7	Iron	mg/L	10.5	10.2	10.0	3.1	20	103	X449013 - X4K0276-01	
EPA 200.7	Lead	mg/L	1.02	1.02	1.00	0.3	20	102	X449013 - X4K0276-01	
EPA 200.7	Lithium	mg/L	1.06	1.05	1.00	0.3	20	106	X449013 - X4K0276-01	
EPA 200.7	Magnesium	mg/L	32.3	31.8	20.0	1.4	20	103	X449013 - X4K0276-01	
EPA 200.7	Manganese	mg/L	1.23	1.24	1.00	0.9	20	102	X449013 - X4K0276-01	
EPA 200.7	Molybdenum	mg/L	1.06	1.06	1.00	0.5	20	105	X449013 - X4K0276-01	
EPA 200.7	Nickel	mg/L	0.985	0.980	1.00	0.5	20	98.5	X449013 - X4K0276-01	
EPA 200.7	Potassium	mg/L	22.2	21.4	20.0	3.7	20	104	X449013 - X4K0276-01	
EPA 200.7	Silver	mg/L	0.0545	0.0541	0.0500	0.8	20	109	X449013 - X4K0276-01	
EPA 200.7	Sodium	mg/L	56.8	56.4	19.0	0.6	20	99.4	X449013 - X4K0276-01	
EPA 200.7	Vanadium	mg/L	1.06	1.06	1.00	0.2	20	106	X449013 - X4K0276-01	
EPA 200.7	Zinc	mg/L	1.04	1.04	1.00	0.2	20	104	X449013 - X4K0276-01	
EPA 200.8	Antimony	mg/L	0.0251	0.0256	0.0250	1.8	20	101	X447094 - X4K0192-01	
EPA 200.8	Arsenic	mg/L	0.0256	0.0264	0.0250	3.0	20	99.9	X447094 - X4K0192-01	
EPA 200.8	Selenium	mg/L	0.0249	0.0257	0.0250	3.1	20	99.6	X447094 - X4K0192-01	
EPA 200.8	Thallium	mg/L	0.0246	0.0244	0.0250	0.7	20	98.3	X447094 - X4K0192-01	
EPA 200.8	Uranium	mg/L	0.0303	0.0302	0.0250	0.2	20	103	X447094 - X4K0192-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	0.00200	0.00200	0.2	20	99.9	X448124 - X4K0276-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0670	0.0510	0.100	27.1	11	67.0	X447118 - X4K0224-14	M2
EPA 335.4	Cyanide (total)	mg/L	0.100	0.0977	0.100	2.4	20	100	X447232 - X4K0280-03	
EPA 350.1	Ammonia as N	mg/L	1.22	1.27	1.00	3.9	20	121	X447167 - X4K0280-01	M1
OIA 1677	Cyanide (WAD)	mg/L	0.105	0.100	0.100	4.9	11	105	X449037 - X4K0276-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.07	3.09	3.00	0.5	20	97.3	X447075 - X4K0276-02	
EPA 300.0	Fluoride	mg/L	2.11	2.17	2.00	2.5	20	97.9	X447075 - X4K0276-02	
EPA 300.0	Nitrate as N	mg/L	1.95	1.95	2.00	0.4	20	97.3	X447075 - X4K0276-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.92	3.93	4.00	0.2	20	97.9	X447075 - X4K0276-02	
EPA 300.0	Nitrite as N	mg/L	1.97	1.97	2.00	0.0	20	98.5	X447075 - X4K0276-02	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.5	10.0	2.9	20	100	X447075 - X4K0276-02	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 10 of 11



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Kellogg, ID 83837-0929

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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0276**

Reported: 05-Dec-24 10:33

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.
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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www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0315**

Reported: 06-Dec-24 14:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-26 A	X4K0315-01	Ground Water	19-Nov-24 08:43	JC	20-Nov-2024	
GVMW-26 B	X4K0315-02	Ground Water	19-Nov-24 10:42	JC	20-Nov-2024	
GVMW-37 A	X4K0315-03	Ground Water	19-Nov-24 11:52	JC	20-Nov-2024	
GVMW-37 B	X4K0315-04	Ground Water	19-Nov-24 12:55	JC	20-Nov-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: X4K0315

The state of origin only accredits for drinking water analyses.

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

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0315**

Reported: 06-Dec-24 14:22

Client Sample ID: **GVMW-26 A**

Sampled: 19-Nov-24 08:43

SVL Sample ID: **X4K0315-01 (Ground Water)**

Received: 20-Nov-24

Sampled By: JC

Sample Report Page 1 of 2

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	29.3	mg/L	0.100	0.069		X449019	SJN	12/04/24 15:38	
EPA 200.7	Magnesium	6.72	mg/L	0.500	0.090		X449019	SJN	12/04/24 15:38	
EPA 200.7	Potassium	1.03	mg/L	0.50	0.18		X449019	SJN	12/04/24 15:38	
SM 2340 B	Hardness (as CaCO3)	105	mg/L	2.31	0.543		N/A		12/04/24 15:38	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X449013	SJN	12/04/24 12:51	
EPA 200.7	Barium	0.204	mg/L	0.0020	0.0019		X449013	SJN	12/04/24 12:51	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X449013	SJN	12/04/24 12:51	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449013	SJN	12/04/24 12:51	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X449013	SJN	12/04/24 12:51	
EPA 200.7	Calcium	30.5	mg/L	0.100	0.069		X449013	SJN	12/04/24 12:51	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X449013	SJN	12/04/24 12:51	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X449013	SJN	12/04/24 12:51	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X449013	SJN	12/04/24 12:51	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X449013	SJN	12/04/24 12:51	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X449013	SJN	12/04/24 12:51	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X449013	SJN	12/04/24 12:51	
EPA 200.7	Magnesium	6.92	mg/L	0.500	0.090		X449013	SJN	12/04/24 12:51	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 12:51	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 12:51	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X449013	SJN	12/04/24 12:51	
EPA 200.7	Potassium	0.98	mg/L	0.50	0.18		X449013	SJN	12/04/24 12:51	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 12:51	
EPA 200.7	Sodium	32.3	mg/L	0.50	0.12		X449013	SJN	12/04/24 12:51	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 12:51	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X449013	SJN	12/04/24 12:51	
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X448064	JRR	12/06/24 11:54	D17
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X448064	JRR	12/06/24 10:42	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X448064	JRR	12/06/24 10:42	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X448064	JRR	12/06/24 11:54	D17
EPA 200.8	Uranium	0.00336	mg/L	0.000500	0.000260	5	X448064	JRR	12/06/24 11:54	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X448124	MAC	12/02/24 16:40	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X448022	DD	11/26/24 15:03	M2,R2B
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X447232	DD	11/26/24 10:44	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X448042	JPM	11/27/24 09:49	M1
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449037	DD	12/02/24 14:20	
SM 2310 B	Acidity to pH 8.3	-160	mg/L as CaCO3	10.0			X447226	MWD	11/22/24 15:27	
SM 2320 B	Total Alkalinity	157	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:01	
SM 2320 B	Bicarbonate	157	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:01	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:01	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:01	
SM 2540 C	Total Diss. Solids	201	mg/L	10			X447272	TJL	11/25/24 14:00	
SM 2540 D	Total Susp. Solids	26.0	mg/L	5.0			X447273	TJL	11/26/24 14:35	
SM 4500 H B	pH @19.6°C	8.0	pH Units				X447180	MWD	11/21/24 18:01	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 2 of 15



One Government Gulch - PO Box 929
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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4K0315 Reported: 06-Dec-24 14:22
--	--

Client Sample ID: **GVMW-26 A**
SVL Sample ID: **X4K0315-01 (Ground Water)**

Sampled: 19-Nov-24 08:43
Received: 20-Nov-24
Sampled By: JC

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.34	mg/L	0.20	0.02		X447149	RS	11/20/24 14:17	
EPA 300.0	Fluoride	1.97	mg/L	0.100	0.017		X447149	RS	11/20/24 14:17	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X447149	RS	11/20/24 14:17	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X447149	RS	11/20/24 14:17	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X447149	RS	11/20/24 14:17	
EPA 300.0	Sulfate as SO4	15.0	mg/L	0.30	0.18		X447149	RS	11/20/24 14:17	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.46 meq/L	Anion Sum: 3.59 meq/L	C/A Balance: -1.88 %	Calculated TDS: 183	TDS/cTDS: 1.10
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4K0315**

Reported: 06-Dec-24 14:22

Client Sample ID: **GVMW-26 B**

Sampled: 19-Nov-24 10:42

Received: 20-Nov-24

Sampled By: JC

SVL Sample ID: **X4K0315-02 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	10.8	mg/L	0.100	0.069		X449019	SJN	12/04/24 15:52	
EPA 200.7	Magnesium	2.17	mg/L	0.500	0.090		X449019	SJN	12/04/24 15:52	
EPA 200.7	Potassium	0.85	mg/L	0.50	0.18		X449019	SJN	12/04/24 15:52	
SM 2340 B	Hardness (as CaCO3)	37.1	mg/L	2.31	0.543		N/A		12/04/24 12:55	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X449013	SJN	12/04/24 12:55	
EPA 200.7	Barium	0.119	mg/L	0.0020	0.0019		X449013	SJN	12/04/24 12:55	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X449013	SJN	12/04/24 12:55	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449013	SJN	12/04/24 12:55	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X449013	SJN	12/04/24 12:55	
EPA 200.7	Calcium	11.3	mg/L	0.100	0.069		X449013	SJN	12/04/24 12:55	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X449013	SJN	12/04/24 12:55	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X449013	SJN	12/04/24 12:55	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X449013	SJN	12/04/24 12:55	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X449013	SJN	12/04/24 12:55	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X449013	SJN	12/04/24 12:55	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X449013	SJN	12/04/24 12:55	
EPA 200.7	Magnesium	2.27	mg/L	0.500	0.090		X449013	SJN	12/04/24 12:55	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 12:55	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 12:55	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X449013	SJN	12/04/24 12:55	
EPA 200.7	Potassium	0.88	mg/L	0.50	0.18		X449013	SJN	12/04/24 12:55	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 12:55	
EPA 200.7	Sodium	10.5	mg/L	0.50	0.12		X449013	SJN	12/04/24 12:55	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 12:55	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X449013	SJN	12/04/24 12:55	
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X448064	JRR	12/06/24 11:59	D17
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X448064	JRR	12/06/24 11:12	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X448064	JRR	12/06/24 11:12	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X448064	JRR	12/06/24 11:59	D17
EPA 200.8	Uranium	< 0.000500	mg/L	0.000500	0.000260	5	X448064	JRR	12/06/24 11:59	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X448124	MAC	12/02/24 16:43	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X448022	DD	11/26/24 15:04	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X447232	DD	11/26/24 10:46	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X448042	JPM	11/27/24 09:51	M1
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449037	DD	12/02/24 14:26	
SM 2310 B	Acidity to pH 8.3	-40.5	mg/L as CaCO3	10.0			X447226	MWD	11/22/24 15:27	
SM 2320 B	Total Alkalinity	36.1	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:07	
SM 2320 B	Bicarbonate	36.1	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:07	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:07	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:07	
SM 2540 C	Total Diss. Solids	82	mg/L	10			X447272	TJL	11/25/24 14:00	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X447273	TJL	11/26/24 14:35	
SM 4500 H B	pH @19.5°C	6.8	pH Units				X447180	MWD	11/21/24 18:07	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 4 of 15



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

Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4K0315 Reported: 06-Dec-24 14:22
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Client Sample ID: **GVMW-26 B**
SVL Sample ID: **X4K0315-02 (Ground Water)**

Sampled: 19-Nov-24 10:42
Received: 20-Nov-24
Sampled By: JC

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.92	mg/L	0.20	0.02		X447149	RS	11/20/24 14:49	
EPA 300.0	Fluoride	0.237	mg/L	0.100	0.017		X447149	RS	11/20/24 14:49	
EPA 300.0	Nitrate as N	0.666	mg/L	0.050	0.013		X447149	RS	11/20/24 14:49	
EPA 300.0	Nitrate+Nitrite as N	0.666	mg/L	0.100	0.044		X447149	RS	11/20/24 14:49	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X447149	RS	11/20/24 14:49	
EPA 300.0	Sulfate as SO4	20.7	mg/L	0.30	0.18		X447149	RS	11/20/24 14:49	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.21 meq/L	Anion Sum: 1.27 meq/L	C/A Balance: -2.25 %	Calculated TDS: 72	TDS/cTDS: 1.14
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0315**

Reported: 06-Dec-24 14:22

Client Sample ID: **GVMW-37 A**

Sampled: 19-Nov-24 11:52

SVL Sample ID: **X4K0315-03 (Ground Water)**

Received: 20-Nov-24

Sampled By: JC

Sample Report Page 1 of 2

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	69.2	mg/L	0.100	0.069		X449019	SJN	12/04/24 15:55	
EPA 200.7	Magnesium	15.1	mg/L	0.500	0.090		X449019	SJN	12/04/24 15:55	
EPA 200.7	Potassium	3.91	mg/L	0.50	0.18		X449019	SJN	12/04/24 15:55	
SM 2340 B	Hardness (as CaCO3)	240	mg/L	2.31	0.543		N/A		12/04/24 15:55	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X449013	SJN	12/04/24 12:58	
EPA 200.7	Barium	0.100	mg/L	0.0020	0.0019		X449013	SJN	12/04/24 12:58	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X449013	SJN	12/04/24 12:58	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449013	SJN	12/04/24 12:58	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X449013	SJN	12/04/24 12:58	
EPA 200.7	Calcium	70.3	mg/L	0.100	0.069		X449013	SJN	12/04/24 12:58	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X449013	SJN	12/04/24 12:58	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X449013	SJN	12/04/24 12:58	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X449013	SJN	12/04/24 12:58	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X449013	SJN	12/04/24 12:58	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X449013	SJN	12/04/24 12:58	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X449013	SJN	12/04/24 12:58	
EPA 200.7	Magnesium	15.6	mg/L	0.500	0.090		X449013	SJN	12/04/24 12:58	
EPA 200.7	Manganese	0.152	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 12:58	
EPA 200.7	Molybdenum	0.0233	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 12:58	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X449013	SJN	12/04/24 12:58	
EPA 200.7	Potassium	4.12	mg/L	0.50	0.18		X449013	SJN	12/04/24 12:58	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 12:58	
EPA 200.7	Sodium	38.5	mg/L	0.50	0.12		X449013	SJN	12/04/24 12:58	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 12:58	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X449013	SJN	12/04/24 12:58	
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X448064	JRR	12/06/24 12:01	D17
EPA 200.8	Arsenic	0.00152	mg/L	0.00100	0.00021		X448064	JRR	12/06/24 11:14	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X448064	JRR	12/06/24 11:14	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.000400	5	X448064	JRR	12/06/24 12:01	D17
EPA 200.8	Uranium	0.00448	mg/L	0.000500	0.000260	5	X448064	JRR	12/06/24 12:01	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X448124	MAC	12/02/24 16:45	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X448022	DD	11/26/24 15:06	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X447232	DD	11/26/24 10:49	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X448042	JPM	11/27/24 09:53	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449037	DD	12/02/24 14:27	
SM 2310 B	Acidity to pH 8.3	-85.3	mg/L as CaCO3	10.0			X447226	MWD	11/22/24 15:27	
SM 2320 B	Total Alkalinity	82.4	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:12	
SM 2320 B	Bicarbonate	77.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:12	
SM 2320 B	Carbonate	5.3	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:12	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:12	
SM 2540 C	Total Diss. Solids	409	mg/L	10			X447272	TJL	11/25/24 14:00	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X447273	TJL	11/26/24 14:35	
SM 4500 H B	pH @19.5°C	8.5	pH Units				X447180	MWD	11/21/24 18:12	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 6 of 15



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

Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4K0315 Reported: 06-Dec-24 14:22
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Client Sample ID: **GVMW-37 A**
SVL Sample ID: **X4K0315-03 (Ground Water)**

Sampled: 19-Nov-24 11:52
Received: 20-Nov-24
Sampled By: JC

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	4.27	mg/L	0.20	0.02		X447149	RS	11/20/24 15:36	
EPA 300.0	Fluoride	1.36	mg/L	0.100	0.017		X447149	RS	11/20/24 15:36	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X447149	RS	11/20/24 15:36	
EPA 300.0	Nitrate+Nitrite as N	0.119	mg/L	0.100	0.044		X447149	RS	11/20/24 15:36	
EPA 300.0	Nitrite as N	0.080	mg/L	0.050	0.031		X447149	RS	11/20/24 15:36	
EPA 300.0	Sulfate as SO4	243	mg/L	3.00	1.80	10	X447149	RS	11/20/24 15:52	

Cation/Anion Balance and TDS Ratios

Cation Sum: 6.49 meq/L	Anion Sum: 6.91 meq/L	C/A Balance: -3.10 %	Calculated TDS: 426	TDS/cTDS: 0.96
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(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: **X4K0315**

Reported: 06-Dec-24 14:22

Client Sample ID: **GVMW-37 B**

Sampled: 19-Nov-24 12:55

Received: 20-Nov-24

Sampled By: JC

SVL Sample ID: **X4K0315-04 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	54.4	mg/L	0.100	0.069		X449019	SJN	12/04/24 15:59	
EPA 200.7	Magnesium	9.10	mg/L	0.500	0.090		X449019	SJN	12/04/24 15:59	
EPA 200.7	Potassium	1.59	mg/L	0.50	0.18		X449019	SJN	12/04/24 15:59	
SM 2340 B	Hardness (as CaCO3)	172	mg/L	2.31	0.543		N/A		12/04/24 15:59	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X449013	SJN	12/04/24 13:54	
EPA 200.7	Barium	0.0974	mg/L	0.0020	0.0019		X449013	SJN	12/04/24 13:54	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X449013	SJN	12/04/24 13:54	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449013	SJN	12/04/24 13:54	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X449013	SJN	12/04/24 13:54	
EPA 200.7	Calcium	54.4	mg/L	0.100	0.069		X449013	SJN	12/04/24 13:54	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X449013	SJN	12/04/24 13:54	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X449013	SJN	12/04/24 13:54	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X449013	SJN	12/04/24 13:54	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X449013	SJN	12/04/24 13:54	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X449013	SJN	12/04/24 13:54	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X449013	SJN	12/04/24 13:54	
EPA 200.7	Magnesium	8.75	mg/L	0.500	0.090		X449013	SJN	12/04/24 13:54	
EPA 200.7	Manganese	0.274	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 13:54	
EPA 200.7	Molybdenum	0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 13:54	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X449013	SJN	12/04/24 13:54	
EPA 200.7	Potassium	1.42	mg/L	0.50	0.18		X449013	SJN	12/04/24 13:54	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 13:54	
EPA 200.7	Sodium	31.2	mg/L	0.50	0.12		X449013	SJN	12/04/24 13:54	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 13:54	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X449013	SJN	12/04/24 13:54	
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X448064	JRR	12/06/24 12:03	D17
EPA 200.8	Arsenic	< 0.00500	mg/L	0.00500	0.00105	5	X448064	JRR	12/06/24 12:03	D17
EPA 200.8	Selenium	< 0.00500	mg/L	0.00500	0.00120	5	X448064	JRR	12/06/24 12:03	D17
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X448064	JRR	12/06/24 11:15	
EPA 200.8	Uranium	0.00278	mg/L	0.000100	0.000052		X448064	JRR	12/06/24 11:15	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X448124	MAC	12/02/24 16:47	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X448022	DD	11/26/24 15:07	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X447232	DD	11/26/24 10:52	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X448042	JPM	11/27/24 09:56	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449037	DD	12/02/24 14:29	
SM 2310 B	Acidity to pH 8.3	-115	mg/L as CaCO3	10.0			X447226	MWD	11/22/24 15:27	
SM 2320 B	Total Alkalinity	114	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:18	
SM 2320 B	Bicarbonate	114	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:18	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:18	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X447180	MWD	11/21/24 18:18	
SM 2540 C	Total Diss. Solids	318	mg/L	10			X447272	TJL	11/25/24 14:00	
SM 2540 D	Total Susp. Solids	22.0	mg/L	5.0			X447273	TJL	11/26/24 14:35	
SM 4500 H B	pH @19.4°C	7.9	pH Units				X447180	MWD	11/21/24 18:18	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 8 of 15



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

Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4K0315
Victor, CO 80860	Reported: 06-Dec-24 14:22

Client Sample ID: GVMW-37 B

SVL Sample ID: X4K0315-04 (Ground Water)

Sample Report Page 2 of 2

Sampled: 19-Nov-24 12:55
Received: 20-Nov-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	3.97	mg/L	0.20	0.02		X447149	RS	11/20/24 16:40	
EPA 300.0	Fluoride	1.98	mg/L	0.100	0.017		X447149	RS	11/20/24 16:40	
EPA 300.0	Nitrate as N	0.892	mg/L	0.050	0.013		X447149	RS	11/20/24 16:40	
EPA 300.0	Nitrate+Nitrite as N	0.946	mg/L	0.100	0.044		X447149	RS	11/20/24 16:40	
EPA 300.0	Nitrite as N	0.054	mg/L	0.050	0.031		X447149	RS	11/20/24 16:40	
EPA 300.0	Sulfate as SO4	122	mg/L	3.00	1.80	10	X447149	RS	11/20/24 16:56	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.85 meq/L	Anion Sum: 5.10 meq/L	C/A Balance: -2.50 %	Calculated TDS: 297	TDS/cTDS: 1.07
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0315**

Reported: 06-Dec-24 14:22

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	X449019	04-Dec-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X449019	04-Dec-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X449019	04-Dec-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X449013	04-Dec-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X449013	04-Dec-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X449013	04-Dec-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X449013	04-Dec-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X449013	04-Dec-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X449013	04-Dec-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X449013	04-Dec-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X449013	04-Dec-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X449013	04-Dec-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X449013	04-Dec-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X449013	04-Dec-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X449013	04-Dec-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X449013	04-Dec-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X449013	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X449013	04-Dec-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X449013	04-Dec-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X449013	04-Dec-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X449013	04-Dec-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X449013	04-Dec-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X449013	04-Dec-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X449013	04-Dec-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X448064	06-Dec-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X448064	06-Dec-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X448064	06-Dec-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X448064	06-Dec-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X448064	06-Dec-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X448124	02-Dec-24	
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X448124	02-Dec-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X448022	26-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X447232	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X448042	27-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X449037	02-Dec-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X447226	22-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X447180	21-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X447180	21-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X447180	21-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X447180	21-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X447272	25-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X447273	26-Nov-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X447149	20-Nov-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X447149	20-Nov-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X447149	20-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X447149	20-Nov-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X447149	20-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X447149	20-Nov-24	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net
Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4K0315**

Reported: 06-Dec-24 14:22

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	19.6	20.0	98	85 - 115	X449019	04-Dec-24	
EPA 200.7	Magnesium	mg/L	19.6	20.0	97.9	85 - 115	X449019	04-Dec-24	
EPA 200.7	Potassium	mg/L	20.2	20.0	101	85 - 115	X449019	04-Dec-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.938	1.00	93.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Barium	mg/L	0.968	1.00	96.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.01	1.00	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Boron	mg/L	0.960	1.00	96.0	85 - 115	X449013	04-Dec-24	
EPA 200.7	Cadmium	mg/L	0.983	1.00	98.3	85 - 115	X449013	04-Dec-24	
EPA 200.7	Calcium	mg/L	19.4	20.0	96.9	85 - 115	X449013	04-Dec-24	
EPA 200.7	Chromium	mg/L	0.985	1.00	98.5	85 - 115	X449013	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X449013	04-Dec-24	
EPA 200.7	Copper	mg/L	0.964	1.00	96.4	85 - 115	X449013	04-Dec-24	
EPA 200.7	Iron	mg/L	9.88	10.0	98.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Lead	mg/L	0.983	1.00	98.3	85 - 115	X449013	04-Dec-24	
EPA 200.7	Lithium	mg/L	0.924	1.00	92.4	85 - 115	X449013	04-Dec-24	
EPA 200.7	Magnesium	mg/L	18.8	20.0	93.9	85 - 115	X449013	04-Dec-24	
EPA 200.7	Manganese	mg/L	0.986	1.00	98.6	85 - 115	X449013	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	1.00	1.00	100	85 - 115	X449013	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.961	1.00	96.1	85 - 115	X449013	04-Dec-24	
EPA 200.7	Potassium	mg/L	20.2	20.0	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0504	0.0500	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Sodium	mg/L	18.6	19.0	97.7	85 - 115	X449013	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Zinc	mg/L	0.978	1.00	97.8	85 - 115	X449013	04-Dec-24	
EPA 200.8	Antimony	mg/L	0.0264	0.0250	106	85 - 115	X448064	06-Dec-24	
EPA 200.8	Arsenic	mg/L	0.0266	0.0250	107	85 - 115	X448064	06-Dec-24	
EPA 200.8	Selenium	mg/L	0.0257	0.0250	103	85 - 115	X448064	06-Dec-24	
EPA 200.8	Thallium	mg/L	0.0265	0.0250	106	85 - 115	X448064	06-Dec-24	
EPA 200.8	Uranium	mg/L	0.0264	0.0250	106	85 - 115	X448064	06-Dec-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00198	0.00200	99.0	85 - 115	X448124	02-Dec-24	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.104	0.100	104	90 - 110	X448022	26-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.0965	0.100	96.5	90 - 110	X447232	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	0.999	1.00	99.9	90 - 110	X448042	27-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X449037	02-Dec-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	721	706	102	95.4 - 104	X447226	22-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X447180	21-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	96.4 - 105	X447180	21-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X447273	26-Nov-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.00	3.00	100	90 - 110	X447149	20-Nov-24	
EPA 300.0	Fluoride	mg/L	2.00	2.00	100	90 - 110	X447149	20-Nov-24	
EPA 300.0	Nitrate as N	mg/L	1.92	2.00	96.2	90 - 110	X447149	20-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.45	4.50	98.8	90 - 110	X447149	20-Nov-24	
EPA 300.0	Nitrite as N	mg/L	2.52	2.50	101	90 - 110	X447149	20-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X447149	20-Nov-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 11 of 15

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0315**

Reported: 06-Dec-24 14:22

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 CaCO ₃	<10.0	<10.0	UDL	20	X447226 - X4K0264-01	22-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	124	124	0.1	20	X447180 - X4K0264-02	21-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	124	124	0.1	20	X447180 - X4K0264-02	21-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X447180 - X4K0264-02	21-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X447180 - X4K0264-02	21-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	250	254	1.6	10	X447272 - X4K0319-02	25-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	415	409	1.5	10	X447272 - X4K0315-03	25-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X447273 - X4K0319-02	26-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X447273 - X4K0315-03	26-Nov-24	
SM 4500 H B	pH @19.5°C	pH Units	7.9	7.9	0.3	20	X447180 - X4K0264-02	21-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	365	349	20.0	81	70 - 130	X449019 - X4K0355-03	04-Dec-24	
EPA 200.7	Magnesium	mg/L	140	115	20.0	125	70 - 130	X449019 - X4K0355-03	04-Dec-24	
EPA 200.7	Potassium	mg/L	30.7	9.85	20.0	104	70 - 130	X449019 - X4K0355-03	04-Dec-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.04	<0.080	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Aluminum	mg/L	1.06	<0.080	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Barium	mg/L	1.12	0.107	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Barium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Boron	mg/L	1.09	<0.0400	1.00	108	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Calcium	mg/L	49.1	29.4	20.0	98.6	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Calcium	mg/L	70.3	48.3	20.0	110	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.995	<0.0060	1.00	99.5	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.984	<0.0060	1.00	98.4	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Copper	mg/L	0.997	<0.0100	1.00	99.7	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	99.9	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Iron	mg/L	10.2	0.158	10.0	100	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	101	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Lithium	mg/L	1.06	<0.040	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Magnesium	mg/L	31.8	11.7	20.0	101	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Magnesium	mg/L	26.1	6.00	20.0	100	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Manganese	mg/L	1.24	0.212	1.00	103	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Manganese	mg/L	1.02	<0.0080	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	1.06	0.0100	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 12 of 15

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0315**

Reported: 06-Dec-24 14:22

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	1.04	<0.0080	1.00	104	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.980	<0.0100	1.00	98.0	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.973	<0.0100	1.00	97.3	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Potassium	mg/L	21.4	1.32	20.0	100	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Potassium	mg/L	21.3	0.83	20.0	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0541	<0.0050	0.0500	108	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0562	<0.0050	0.0500	112	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Sodium	mg/L	56.4	37.9	19.0	97.5	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Sodium	mg/L	43.2	23.9	19.0	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Zinc	mg/L	1.04	<0.0100	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.8	Antimony	mg/L	0.0264	<0.00500	0.0250	106	70 - 130	X448064 - X4K0315-01	06-Dec-24	D17
EPA 200.8	Antimony	mg/L	<2.50	<2.50	0.0250	N/A	70 - 130	X448064 - X4K0360-04	06-Dec-24	D11,D17,M4
EPA 200.8	Arsenic	mg/L	0.0264	<0.00100	0.0250	106	70 - 130	X448064 - X4K0315-01	06-Dec-24	
EPA 200.8	Arsenic	mg/L	<1.25	<1.25	0.0250	N/A	70 - 130	X448064 - X4K0360-04	06-Dec-24	D11,D17,M4
EPA 200.8	Selenium	mg/L	0.0253	<0.00100	0.0250	101	70 - 130	X448064 - X4K0315-01	06-Dec-24	
EPA 200.8	Selenium	mg/L	<1.25	<1.25	0.0250	N/A	70 - 130	X448064 - X4K0360-04	06-Dec-24	D11,D17,M4
EPA 200.8	Thallium	mg/L	<0.0500	<0.0500	0.0250	90.6	70 - 130	X448064 - X4K0360-04	06-Dec-24	D11
EPA 200.8	Thallium	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X448064 - X4K0315-01	06-Dec-24	D17
EPA 200.8	Uranium	mg/L	19.4	20.3	0.0250	0.30R>S	70 - 130	X448064 - X4K0360-04	06-Dec-24	D11,M4
EPA 200.8	Uranium	mg/L	0.0294	0.00336	0.0250	104	70 - 130	X448064 - X4K0315-01	06-Dec-24	D17
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	<0.000200	0.00200	100	70 - 130	X448124 - X4K0276-01	02-Dec-24	
EPA 245.1	Mercury	mg/L	0.00197	<0.000200	0.00200	98.4	70 - 130	X448124 - X4K0315-01	02-Dec-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0740	<0.0050	0.100	74.0	79 - 121	X448022 - X4K0315-01	26-Nov-24	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.0977	<0.0050	0.100	97.7	90 - 110	X447232 - X4K0280-03	26-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.0976	<0.0050	0.100	97.6	90 - 110	X447232 - X4K0280-01	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.22	<0.030	1.00	122	90 - 110	X448042 - X4K0315-02	27-Nov-24	M1
EPA 350.1	Ammonia as N	mg/L	1.22	<0.030	1.00	122	90 - 110	X448042 - X4K0315-01	27-Nov-24	M1
OIA 1677	Cyanide (WAD)	mg/L	0.100	<0.0050	0.100	100	82 - 118	X449037 - X4K0276-01	02-Dec-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.86	1.92	3.00	97.8	90 - 110	X447149 - X4K0315-02	20-Nov-24	
EPA 300.0	Chloride	mg/L	3.29	0.34	3.00	98.2	90 - 110	X447149 - X4K0319-01	20-Nov-24	
EPA 300.0	Fluoride	mg/L	2.23	0.237	2.00	99.5	90 - 110	X447149 - X4K0315-02	20-Nov-24	
EPA 300.0	Fluoride	mg/L	2.02	<0.100	2.00	99.4	90 - 110	X447149 - X4K0319-01	20-Nov-24	
EPA 300.0	Nitrate as N	mg/L	2.61	0.666	2.00	97.0	90 - 110	X447149 - X4K0315-02	20-Nov-24	
EPA 300.0	Nitrate as N	mg/L	1.94	<0.050	2.00	94.8	90 - 110	X447149 - X4K0319-01	20-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.60	0.666	4.00	98.4	90 - 110	X447149 - X4K0315-02	20-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.94	<0.100	4.00	98.4	90 - 110	X447149 - X4K0319-01	20-Nov-24	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	99.8	90 - 110	X447149 - X4K0315-02	20-Nov-24	
EPA 300.0	Nitrite as N	mg/L	2.00	<0.050	2.00	99.8	90 - 110	X447149 - X4K0319-01	20-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	30.7	20.7	10.0	100	90 - 110	X447149 - X4K0315-02	20-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	12.6	2.40	10.0	102	90 - 110	X447149 - X4K0319-01	20-Nov-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0315**

Reported: 06-Dec-24 14:22

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	372	365	20.0	2.0	20	115	X449019 - X4K0355-03	
EPA 200.7	Magnesium	mg/L	139	140	20.0	0.2	20	123	X449019 - X4K0355-03	
EPA 200.7	Potassium	mg/L	31.2	30.7	20.0	1.6	20	107	X449019 - X4K0355-03	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.04	1.04	1.00	0.1	20	104	X449013 - X4K0276-01	
EPA 200.7	Barium	mg/L	1.13	1.12	1.00	0.8	20	103	X449013 - X4K0276-01	
EPA 200.7	Beryllium	mg/L	1.04	1.05	1.00	0.6	20	104	X449013 - X4K0276-01	
EPA 200.7	Boron	mg/L	1.07	1.07	1.00	0.1	20	104	X449013 - X4K0276-01	
EPA 200.7	Cadmium	mg/L	1.03	1.02	1.00	0.4	20	103	X449013 - X4K0276-01	
EPA 200.7	Calcium	mg/L	49.6	49.1	20.0	0.9	20	101	X449013 - X4K0276-01	
EPA 200.7	Chromium	mg/L	1.02	1.03	1.00	0.5	20	102	X449013 - X4K0276-01	
EPA 200.7	Cobalt	mg/L	0.992	0.995	1.00	0.4	20	99.2	X449013 - X4K0276-01	
EPA 200.7	Copper	mg/L	0.993	0.997	1.00	0.4	20	99.3	X449013 - X4K0276-01	
EPA 200.7	Iron	mg/L	10.5	10.2	10.0	3.1	20	103	X449013 - X4K0276-01	
EPA 200.7	Lead	mg/L	1.02	1.02	1.00	0.3	20	102	X449013 - X4K0276-01	
EPA 200.7	Lithium	mg/L	1.06	1.05	1.00	0.3	20	106	X449013 - X4K0276-01	
EPA 200.7	Magnesium	mg/L	32.3	31.8	20.0	1.4	20	103	X449013 - X4K0276-01	
EPA 200.7	Manganese	mg/L	1.23	1.24	1.00	0.9	20	102	X449013 - X4K0276-01	
EPA 200.7	Molybdenum	mg/L	1.06	1.06	1.00	0.5	20	105	X449013 - X4K0276-01	
EPA 200.7	Nickel	mg/L	0.985	0.980	1.00	0.5	20	98.5	X449013 - X4K0276-01	
EPA 200.7	Potassium	mg/L	22.2	21.4	20.0	3.7	20	104	X449013 - X4K0276-01	
EPA 200.7	Silver	mg/L	0.0545	0.0541	0.0500	0.8	20	109	X449013 - X4K0276-01	
EPA 200.7	Sodium	mg/L	56.8	56.4	19.0	0.6	20	99.4	X449013 - X4K0276-01	
EPA 200.7	Vanadium	mg/L	1.06	1.06	1.00	0.2	20	106	X449013 - X4K0276-01	
EPA 200.7	Zinc	mg/L	1.04	1.04	1.00	0.2	20	104	X449013 - X4K0276-01	
EPA 200.8	Antimony	mg/L	0.0269	0.0264	0.0250	1.9	20	108	X448064 - X4K0315-01	D17
EPA 200.8	Arsenic	mg/L	0.0274	0.0264	0.0250	3.5	20	109	X448064 - X4K0315-01	
EPA 200.8	Selenium	mg/L	0.0255	0.0253	0.0250	0.9	20	102	X448064 - X4K0315-01	
EPA 200.8	Thallium	mg/L	0.0259	0.0259	0.0250	0.2	20	104	X448064 - X4K0315-01	D17
EPA 200.8	Uranium	mg/L	0.0288	0.0294	0.0250	2.2	20	102	X448064 - X4K0315-01	D17
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00200	0.00200	0.00200	0.2	20	99.9	X448124 - X4K0276-01	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.104	0.0740	0.100	33.7	11	104	X448022 - X4K0315-01	R2B
EPA 335.4	Cyanide (total)	mg/L	0.100	0.0977	0.100	2.4	20	100	X447232 - X4K0280-03	
EPA 350.1	Ammonia as N	mg/L	1.21	1.22	1.00	1.1	20	121	X448042 - X4K0315-02	M1
OIA 1677	Cyanide (WAD)	mg/L	0.105	0.100	0.100	4.9	11	105	X449037 - X4K0276-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.91	4.86	3.00	1.0	20	99.5	X447149 - X4K0315-02	
EPA 300.0	Fluoride	mg/L	2.25	2.23	2.00	1.3	20	101	X447149 - X4K0315-02	
EPA 300.0	Nitrate as N	mg/L	2.65	2.61	2.00	1.5	20	99.0	X447149 - X4K0315-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.66	4.60	4.00	1.3	20	99.9	X447149 - X4K0315-02	
EPA 300.0	Nitrite as N	mg/L	2.02	2.00	2.00	1.1	20	101	X447149 - X4K0315-02	
EPA 300.0	Sulfate as SO4	mg/L	30.9	30.7	10.0	0.5	20	102	X447149 - X4K0315-02	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0315**

Reported: 06-Dec-24 14:22

Notes and Definitions

D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
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.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0383**

Reported: 16-Dec-24 12:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-8B	X4K0383-01	Ground Water	20-Nov-24 09:43	TR	22-Nov-2024	
GVMW-25	X4K0383-02	Ground Water	20-Nov-24 11:17	TR	22-Nov-2024	Q5C
GVMW-27	X4K0383-03	Ground Water	20-Nov-24 12:17	TR	22-Nov-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: X4K0383

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: **X4K0383**

Reported: 16-Dec-24 12:27

Client Sample ID: **GVMW-8B**

Sampled: 20-Nov-24 09:43

Received: 22-Nov-24

Sampled By: TR

SVL Sample ID: **X4K0383-01 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	47.1	mg/L	0.100	0.069		X449079	SJN	12/05/24 11:42	
EPA 200.7	Magnesium	7.04	mg/L	0.500	0.090		X449079	SJN	12/05/24 16:26	
EPA 200.7	Potassium	1.60	mg/L	0.50	0.18		X449079	SJN	12/05/24 11:42	
SM 2340 B	Hardness (as CaCO3)	147	mg/L	2.31	0.543		N/A		12/04/24 14:27	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X449013	SJN	12/04/24 14:27	
EPA 200.7	Barium	0.0121	mg/L	0.0020	0.0019		X449013	SJN	12/04/24 14:27	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X449013	SJN	12/04/24 14:27	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449013	SJN	12/04/24 14:27	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X449013	SJN	12/04/24 14:27	
EPA 200.7	Calcium	43.9	mg/L	0.100	0.069		X449013	SJN	12/04/24 14:27	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X449013	SJN	12/04/24 14:27	
EPA 200.7	Cobalt	0.0079	mg/L	0.0060	0.0046		X449013	SJN	12/04/24 14:27	
EPA 200.7	Copper	0.0331	mg/L	0.0100	0.0027		X449013	SJN	12/04/24 14:27	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X449013	SJN	12/04/24 14:27	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X449013	SJN	12/04/24 14:27	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X449013	SJN	12/04/24 14:27	
EPA 200.7	Magnesium	6.74	mg/L	0.500	0.090		X449013	SJN	12/04/24 14:27	
EPA 200.7	Manganese	0.0142	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 14:27	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 14:27	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X449013	SJN	12/04/24 14:27	
EPA 200.7	Potassium	1.36	mg/L	0.50	0.18		X449013	SJN	12/04/24 14:27	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 14:27	
EPA 200.7	Sodium	26.0	mg/L	0.50	0.12		X449013	SJN	12/04/24 14:27	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 14:27	
EPA 200.7	Zinc	0.0158	mg/L	0.0100	0.0054		X449013	SJN	12/04/24 14:27	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X448070	JRR	12/10/24 10:23	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X448070	JRR	12/10/24 10:23	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X448070	JRR	12/10/24 10:23	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X448070	JRR	12/10/24 10:23	
EPA 200.8	Uranium	0.00249	mg/L	0.000100	0.000052		X448070	JRR	12/10/24 10:23	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X449084	MAC	12/06/24 15:09	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X448022	DD	11/26/24 15:25	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X447232	DD	11/26/24 11:27	
EPA 350.1	Ammonia as N	0.039	mg/L	0.030	0.013		X448043	JPM	11/27/24 12:02	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449037	DD	12/02/24 14:39	
SM 2310 B	Acidity to pH 8.3	-40.5	mg/L as CaCO3	10.0			X449059	MWD	12/03/24 08:55	
SM 2320 B	Total Alkalinity	38.4	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 12:37	
SM 2320 B	Bicarbonate	38.4	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 12:37	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 12:37	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 12:37	
SM 2540 C	Total Diss. Solids	314	mg/L	10			X448011	TJL	11/26/24 14:05	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X448012	TJL	11/26/24 14:45	
SM 4500 H B	pH @17.6°C	6.8	pH Units				X448087	MWD	11/29/24 12:37	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 2 of 14



One Government Gulch - PO Box 929
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Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4K0383 Reported: 16-Dec-24 12:27
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Client Sample ID: **GVMW-8B**
SVL Sample ID: **X4K0383-01 (Ground Water)**

Sampled: 20-Nov-24 09:43
Received: 22-Nov-24
Sampled By: TR

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	45.1	mg/L	2.00	0.22	10	X447282	RS	12/03/24 22:07	
EPA 300.0	Fluoride	2.38	mg/L	0.100	0.017		X447282	RS	12/03/24 21:50	
EPA 300.0	Nitrate as N	2.13	mg/L	0.050	0.013		X447282	RS	12/03/24 21:50	H3
EPA 300.0	Nitrate+Nitrite as N	2.13	mg/L	0.100	0.044		X447282	RS	12/03/24 21:50	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X447282	RS	12/03/24 21:50	H3
EPA 300.0	Sulfate as SO4	93.9	mg/L	3.00	1.80	10	X447282	RS	12/03/24 22:07	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.93 meq/L	Anion Sum: 4.27 meq/L	C/A Balance: -4.20 %	Calculated TDS: 254	TDS/cTDS: 1.24
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

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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: **X4K0383**

Reported: 16-Dec-24 12:27

Client Sample ID: **GVMW-25**

Sampled: 20-Nov-24 11:17

Received: 22-Nov-24

Sampled By: TR

SVL Sample ID: **X4K0383-02 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	490	mg/L	1.00	0.690	10	X449079	SJN	12/05/24 14:44	
EPA 200.7	Magnesium	219	mg/L	5.00	0.900	10	X449079	SJN	12/05/24 14:44	D20
EPA 200.7	Potassium	8.16	mg/L	0.50	0.18		X449079	SJN	12/05/24 11:46	
SM 2340 B	Hardness (as CaCO3)	2100	mg/L	4.56	2.09		N/A		12/05/24 14:44	

Metals (Dissolved)

EPA 200.7	Aluminum	254	mg/L	0.080	0.054		X449013	SJN	12/04/24 15:01	
EPA 200.7	Barium	0.0170	mg/L	0.0020	0.0019		X449013	SJN	12/04/24 15:01	
EPA 200.7	Beryllium	0.167	mg/L	0.00200	0.00080		X449013	SJN	12/04/24 15:01	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449013	SJN	12/04/24 15:01	
EPA 200.7	Cadmium	0.569	mg/L	0.0020	0.0016		X449013	SJN	12/04/24 15:01	
EPA 200.7	Calcium	483	mg/L	0.100	0.069		X449013	SJN	12/04/24 15:01	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X449013	SJN	12/04/24 15:01	
EPA 200.7	Cobalt	0.656	mg/L	0.0060	0.0046		X449013	SJN	12/04/24 15:01	
EPA 200.7	Copper	0.848	mg/L	0.0100	0.0027		X449013	SJN	12/04/24 15:01	
EPA 200.7	Iron	19.5	mg/L	0.100	0.056		X449013	SJN	12/04/24 15:01	
EPA 200.7	Lead	0.0176	mg/L	0.0075	0.0049		X449013	SJN	12/04/24 15:01	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X449013	SJN	12/04/24 15:01	
EPA 200.7	Magnesium	214	mg/L	0.500	0.090		X449013	SJN	12/04/24 15:01	
EPA 200.7	Manganese	94.3	mg/L	0.0800	0.0340	10	X449013	SJN	12/04/24 15:13	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 15:01	
EPA 200.7	Nickel	0.922	mg/L	0.0100	0.0048		X449013	SJN	12/04/24 15:01	
EPA 200.7	Potassium	7.46	mg/L	0.50	0.18		X449013	SJN	12/04/24 15:01	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 15:01	
EPA 200.7	Sodium	60.4	mg/L	0.50	0.12		X449013	SJN	12/04/24 15:01	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 15:01	
EPA 200.7	Zinc	23.0	mg/L	0.0100	0.0054		X449013	SJN	12/04/24 15:01	
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X448070	JRR	12/11/24 10:24	D17,D20a
EPA 200.8	Arsenic	0.0808	mg/L	0.0100	0.00210	10	X448070	JRR	12/11/24 10:24	D17,D20a
EPA 200.8	Selenium	< 0.0100	mg/L	0.0100	0.00240	10	X448070	JRR	12/11/24 10:24	D17,D20a
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X448070	JRR	12/11/24 10:24	D17,D20a
EPA 200.8	Uranium	0.783	mg/L	0.00100	0.000520	10	X448070	JRR	12/11/24 10:24	D17,D20a

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X449084	MAC	12/06/24 15:12	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X448022	DD	11/26/24 15:27	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X447232	DD	11/26/24 11:29	
EPA 350.1	Ammonia as N	0.072	mg/L	0.030	0.013		X448043	JPM	11/27/24 12:04	
OIA 1677	Cyanide (WAD)	< 0.0250	mg/L	0.0250	0.0050	5	X449037	DD	12/02/24 14:45	D14,Q12
SM 2310 B	Acidity to pH 8.3	1730	mg/L as CaCO3	10.0			X449059	MWD	12/03/24 08:55	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 12:45	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 12:45	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 12:45	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 12:45	
SM 2540 C	Total Diss. Solids	5250	mg/L	40			X448011	TJL	11/26/24 14:05	
SM 2540 D	Total Susp. Solids	14.0	mg/L	5.0			X448012	TJL	11/26/24 14:45	
SM 4500 H B	pH @17.3°C	3.7	pH Units				X448087	MWD	11/29/24 12:45	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 4 of 14



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

Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4K0383 Reported: 16-Dec-24 12:27
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Client Sample ID: **GVMW-25**
SVL Sample ID: **X4K0383-02 (Ground Water)**

Sampled: 20-Nov-24 11:17
Received: 22-Nov-24
Sampled By: TR

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	29.1	mg/L	1.00	0.11	5	X450118	RS	12/12/24 03:31	
EPA 300.0	Fluoride	25.2	mg/L	10.0	1.70	100	X450118	RS	12/12/24 03:47	
EPA 300.0	Nitrate as N	1.55	mg/L	0.250	0.065	5	X450118	RS	12/12/24 03:31	H3
EPA 300.0	Nitrate+Nitrite as N	1.55	mg/L	0.500	0.220	5	X450118	RS	12/12/24 03:31	H3
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X450118	RS	12/12/24 03:31	D18,H3
EPA 300.0	Sulfate as SO4	3790	mg/L	30.0	18.0	100	X450118	RS	12/12/24 03:47	

Cation/Anion Balance and TDS Ratios

Cation Sum: 79.1 meq/L	Anion Sum: 81.2 meq/L	C/A Balance: -1.28 %	Calculated TDS: 4622	TDS/cTDS: 1.14
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(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: **X4K0383**

Reported: 16-Dec-24 12:27

Client Sample ID: **GVMW-27**

Sampled: 20-Nov-24 12:17

Received: 22-Nov-24

Sampled By: TR

SVL Sample ID: **X4K0383-03 (Ground Water)**

Sample Report Page 1 of 2

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	515	mg/L	1.00	0.690	10	X449079	SJN	12/05/24 14:48	D18
EPA 200.7	Magnesium	419	mg/L	5.00	0.900	10	X449079	SJN	12/05/24 14:48	D18
EPA 200.7	Potassium	5.53	mg/L	5.00	1.80	10	X449079	SJN	12/05/24 14:48	D18
SM 2340 B	Hardness (as CaCO3)	3010	mg/L	20.8	3.88		N/A		12/04/24 15:05	

Metals (Dissolved)

EPA 200.7	Aluminum	1180	mg/L	0.800	0.540	10	X449013	SJN	12/04/24 15:20	
EPA 200.7	Barium	0.0147	mg/L	0.0020	0.0019		X449013	SJN	12/04/24 15:05	
EPA 200.7	Beryllium	0.697	mg/L	0.00200	0.00080		X449013	SJN	12/04/24 15:05	
EPA 200.7	Boron	0.0440	mg/L	0.0400	0.0078		X449013	SJN	12/04/24 15:05	
EPA 200.7	Cadmium	2.00	mg/L	0.0020	0.0016		X449013	SJN	12/04/24 15:05	
EPA 200.7	Calcium	514	mg/L	0.100	0.069		X449013	SJN	12/04/24 15:05	
EPA 200.7	Chromium	0.142	mg/L	0.0060	0.0020		X449013	SJN	12/04/24 15:05	
EPA 200.7	Cobalt	2.38	mg/L	0.0060	0.0046		X449013	SJN	12/04/24 15:05	
EPA 200.7	Copper	4.95	mg/L	0.0100	0.0027		X449013	SJN	12/04/24 15:05	
EPA 200.7	Iron	28.8	mg/L	0.100	0.056		X449013	SJN	12/04/24 15:05	
EPA 200.7	Lead	0.0548	mg/L	0.0075	0.0049		X449013	SJN	12/04/24 15:05	
EPA 200.7	Lithium	0.255	mg/L	0.040	0.025		X449013	SJN	12/04/24 15:05	
EPA 200.7	Magnesium	466	mg/L	0.500	0.090		X449013	SJN	12/04/24 15:05	
EPA 200.7	Manganese	303	mg/L	0.0800	0.0340	10	X449013	SJN	12/04/24 15:20	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 15:05	
EPA 200.7	Nickel	3.10	mg/L	0.0100	0.0048		X449013	SJN	12/04/24 15:05	
EPA 200.7	Potassium	6.25	mg/L	0.50	0.18		X449013	SJN	12/04/24 15:05	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 15:05	
EPA 200.7	Sodium	41.7	mg/L	0.50	0.12		X449013	SJN	12/04/24 15:05	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 15:05	
EPA 200.7	Zinc	86.9	mg/L	0.100	0.0540	10	X449013	SJN	12/04/24 15:20	
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X448070	JRR	12/11/24 10:26	D17,D20a
EPA 200.8	Arsenic	0.325	mg/L	0.0100	0.00210	10	X448070	JRR	12/11/24 10:26	D17,D20a
EPA 200.8	Selenium	< 0.500	mg/L	0.500	0.120	500	X448070	JRR	12/11/24 10:45	D17,D20a
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X448070	JRR	12/11/24 10:26	D17,D20a
EPA 200.8	Uranium	3.75	mg/L	0.00100	0.000520	10	X448070	JRR	12/11/24 10:26	D17,D20a

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X449084	MAC	12/06/24 15:14	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X448022	DD	11/26/24 15:28	
EPA 335.4	Cyanide (total)	0.0105	mg/L	0.0050	0.0038		X447232	DD	11/26/24 11:32	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X448043	JPM	11/27/24 12:06	
OIA 1677	Cyanide (WAD)	< 0.0250	mg/L	0.0250	0.0050	5	X449037	DD	12/02/24 14:47	D14,Q12
SM 2310 B	Acidity to pH 8.3	7550	mg/L as CaCO3	10.0			X449059	MWD	12/03/24 08:55	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 12:51	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 12:51	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 12:51	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 12:51	
SM 2540 C	Total Diss. Solids	14700	mg/L	100			X448011	TJL	11/26/24 14:05	
SM 2540 D	Total Susp. Solids	19.0	mg/L	5.0			X448012	TJL	11/26/24 14:45	
SM 4500 H B	pH @17.6°C	3.3	pH Units				X448087	MWD	11/29/24 12:51	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 6 of 14



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

Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4K0383 Reported: 16-Dec-24 12:27
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Client Sample ID: **GVMW-27**
SVL Sample ID: **X4K0383-03 (Ground Water)**

Sampled: 20-Nov-24 12:17
Received: 22-Nov-24
Sampled By: TR

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	21.6	mg/L	2.00	0.22	10	X447282	RS	12/03/24 22:57	
EPA 300.0	Fluoride	117	mg/L	25.0	4.25	250	X447282	RS	12/03/24 23:13	
EPA 300.0	Nitrate as N	4.26	mg/L	0.500	0.130	10	X447282	RS	12/03/24 22:57	D18,H3
EPA 300.0	Nitrate+Nitrite as N	4.26	mg/L	1.00	0.440	10	X447282	RS	12/03/24 22:57	D18,H3
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X447282	RS	12/03/24 22:57	D18,H3
EPA 300.0	Sulfate as SO4	10600	mg/L	75.0	45.0	250	X447282	RS	12/03/24 23:13	

Cation/Anion Balance and TDS Ratios

Cation Sum: 213 meq/L	Anion Sum: 228 meq/L	C/A Balance: -3.33 %	Calculated TDS: 11762	TDS/cTDS: 1.25
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0383**

Reported: 16-Dec-24 12:27

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X449079	05-Dec-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X449079	05-Dec-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X449079	05-Dec-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X449013	04-Dec-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X449013	04-Dec-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X449013	04-Dec-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X449013	04-Dec-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X449013	04-Dec-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X449013	04-Dec-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X449013	04-Dec-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X449013	04-Dec-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X449013	04-Dec-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X449013	04-Dec-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X449013	04-Dec-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X449013	04-Dec-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X449013	04-Dec-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X449013	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X449013	04-Dec-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X449013	04-Dec-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X449013	04-Dec-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X449013	04-Dec-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X449013	04-Dec-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X449013	04-Dec-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X449013	04-Dec-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X448070	10-Dec-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X448070	10-Dec-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X448070	10-Dec-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X448070	10-Dec-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X448070	10-Dec-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X449084	06-Dec-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X448022	26-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X447232	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X448043	27-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X449037	02-Dec-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X449059	03-Dec-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X448087	29-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X448087	29-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X448087	29-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X448087	29-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X448011	26-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X448012	26-Nov-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X447282	03-Dec-24	
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X450118	12-Dec-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X447282	03-Dec-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X450118	12-Dec-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X447282	03-Dec-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X450118	12-Dec-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X447282	03-Dec-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X450118	12-Dec-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X447282	03-Dec-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 8 of 14

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0383**

Reported: 16-Dec-24 12:27

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Anions by Ion Chromatography (Continued)

EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X450118	12-Dec-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X447282	03-Dec-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X450118	12-Dec-24	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	20.6	20.0	103	85 - 115	X449079	05-Dec-24	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X449079	05-Dec-24	
EPA 200.7	Potassium	mg/L	20.6	20.0	103	85 - 115	X449079	05-Dec-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.938	1.00	93.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Barium	mg/L	0.968	1.00	96.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.01	1.00	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Boron	mg/L	0.960	1.00	96.0	85 - 115	X449013	04-Dec-24	
EPA 200.7	Cadmium	mg/L	0.983	1.00	98.3	85 - 115	X449013	04-Dec-24	
EPA 200.7	Calcium	mg/L	19.4	20.0	96.9	85 - 115	X449013	04-Dec-24	
EPA 200.7	Chromium	mg/L	0.985	1.00	98.5	85 - 115	X449013	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X449013	04-Dec-24	
EPA 200.7	Copper	mg/L	0.964	1.00	96.4	85 - 115	X449013	04-Dec-24	
EPA 200.7	Iron	mg/L	9.88	10.0	98.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Lead	mg/L	0.983	1.00	98.3	85 - 115	X449013	04-Dec-24	
EPA 200.7	Lithium	mg/L	0.924	1.00	92.4	85 - 115	X449013	04-Dec-24	
EPA 200.7	Magnesium	mg/L	18.8	20.0	93.9	85 - 115	X449013	04-Dec-24	
EPA 200.7	Manganese	mg/L	0.986	1.00	98.6	85 - 115	X449013	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	1.00	1.00	100	85 - 115	X449013	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.961	1.00	96.1	85 - 115	X449013	04-Dec-24	
EPA 200.7	Potassium	mg/L	20.2	20.0	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0504	0.0500	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Sodium	mg/L	18.6	19.0	97.7	85 - 115	X449013	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Zinc	mg/L	0.978	1.00	97.8	85 - 115	X449013	04-Dec-24	
EPA 200.8	Antimony	mg/L	0.0251	0.0250	101	85 - 115	X448070	10-Dec-24	
EPA 200.8	Arsenic	mg/L	0.0257	0.0250	103	85 - 115	X448070	10-Dec-24	
EPA 200.8	Selenium	mg/L	0.0251	0.0250	101	85 - 115	X448070	10-Dec-24	
EPA 200.8	Thallium	mg/L	0.0253	0.0250	101	85 - 115	X448070	10-Dec-24	
EPA 200.8	Uranium	mg/L	0.0249	0.0250	99.7	85 - 115	X448070	10-Dec-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00187	0.00200	93.3	85 - 115	X449084	06-Dec-24	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.104	0.100	104	90 - 110	X448022	26-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.0965	0.100	96.5	90 - 110	X447232	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X448043	27-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	0.103	0.100	103	90 - 110	X449037	02-Dec-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	721	706	102	95.4 - 104	X449059	03-Dec-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X448087	29-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.7	99.3	100	96.4 - 105	X448087	29-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	393	397	99.1	96.4 - 105	X448087	29-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X448012	26-Nov-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 9 of 14

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0383**

Reported: 16-Dec-24 12:27

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.99	3.00	99.5	90 - 110	X447282	03-Dec-24	
EPA 300.0	Chloride	mg/L	2.93	3.00	97.7	90 - 110	X450118	11-Dec-24	
EPA 300.0	Fluoride	mg/L	2.00	2.00	99.8	90 - 110	X447282	03-Dec-24	
EPA 300.0	Fluoride	mg/L	1.96	2.00	98.1	90 - 110	X450118	11-Dec-24	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	98.0	90 - 110	X447282	03-Dec-24	
EPA 300.0	Nitrate as N	mg/L	1.94	2.00	96.9	90 - 110	X450118	11-Dec-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.47	4.50	99.2	90 - 110	X447282	03-Dec-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.45	4.50	99.0	90 - 110	X450118	11-Dec-24	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	100	90 - 110	X447282	03-Dec-24	
EPA 300.0	Nitrite as N	mg/L	2.52	2.50	101	90 - 110	X450118	11-Dec-24	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X447282	03-Dec-24	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X450118	11-Dec-24	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	28900	29000	0.1	20	X449059 - X4K0369-01	03-Dec-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	358	331	7.8	20	X448087 - X4K0357-02	29-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	358	331	7.8	20	X448087 - X4K0357-02	29-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X448087 - X4K0357-02	29-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X448087 - X4K0357-02	29-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	570	604	5.8	10	X448011 - X4K0378-02	26-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	5.0	<5.0	<RL	10	X448012 - X4K0378-02	26-Nov-24	
SM 4500 H B	pH @16.0°C	pH Units	7.8	7.9	0.6	20	X448087 - X4K0357-02	29-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	39.7	20.6	20.0	96	70 - 130	X449079 - X4K0360-01	05-Dec-24	
EPA 200.7	Calcium	mg/L	323	315	20.0	0.30R>S	70 - 130	X449079 - X4K0382-02	05-Dec-24	M3
EPA 200.7	Magnesium	mg/L	39.5	17.6	20.0	109	70 - 130	X449079 - X4K0360-01	05-Dec-24	
EPA 200.7	Magnesium	mg/L	49.4	26.3	20.0	115	70 - 130	X449079 - X4K0382-02	05-Dec-24	
EPA 200.7	Potassium	mg/L	22.1	2.19	20.0	99.6	70 - 130	X449079 - X4K0360-01	05-Dec-24	
EPA 200.7	Potassium	mg/L	25.3	4.57	20.0	103	70 - 130	X449079 - X4K0382-02	05-Dec-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.04	<0.080	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Aluminum	mg/L	1.06	<0.080	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Barium	mg/L	1.12	0.107	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Barium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Boron	mg/L	1.09	<0.0400	1.00	108	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 10 of 14

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0383**

Reported: 16-Dec-24 12:27

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Calcium	mg/L	49.1	29.4	20.0	98.6	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Calcium	mg/L	70.3	48.3	20.0	110	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.995	<0.0060	1.00	99.5	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.984	<0.0060	1.00	98.4	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Copper	mg/L	0.997	<0.0100	1.00	99.7	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	99.9	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Iron	mg/L	10.2	0.158	10.0	100	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	101	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Lithium	mg/L	1.06	<0.040	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Magnesium	mg/L	31.8	11.7	20.0	101	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Magnesium	mg/L	26.1	6.00	20.0	100	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Manganese	mg/L	1.24	0.212	1.00	103	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Manganese	mg/L	1.02	<0.0080	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	1.06	0.0100	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	1.04	<0.0080	1.00	104	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.980	<0.0100	1.00	98.0	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.973	<0.0100	1.00	97.3	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Potassium	mg/L	21.4	1.32	20.0	100	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Potassium	mg/L	21.3	0.83	20.0	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0541	<0.0050	0.0500	108	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0562	<0.0050	0.0500	112	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Sodium	mg/L	56.4	37.9	19.0	97.5	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Sodium	mg/L	43.2	23.9	19.0	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Zinc	mg/L	1.04	<0.0100	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.8	Antimony	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X448070 - X4K0374-01	10-Dec-24	
EPA 200.8	Antimony	mg/L	0.0254	<0.00100	0.0250	101	70 - 130	X448070 - X4K0383-01	10-Dec-24	
EPA 200.8	Arsenic	mg/L	0.0249	<0.00100	0.0250	99.7	70 - 130	X448070 - X4K0374-01	10-Dec-24	
EPA 200.8	Arsenic	mg/L	0.0253	<0.00100	0.0250	101	70 - 130	X448070 - X4K0383-01	10-Dec-24	
EPA 200.8	Selenium	mg/L	0.0235	<0.00100	0.0250	94.1	70 - 130	X448070 - X4K0374-01	10-Dec-24	
EPA 200.8	Selenium	mg/L	0.0245	<0.00100	0.0250	98.2	70 - 130	X448070 - X4K0383-01	10-Dec-24	
EPA 200.8	Thallium	mg/L	0.0240	<0.000200	0.0250	95.9	70 - 130	X448070 - X4K0374-01	10-Dec-24	
EPA 200.8	Thallium	mg/L	0.0238	<0.000200	0.0250	95.2	70 - 130	X448070 - X4K0383-01	10-Dec-24	
EPA 200.8	Uranium	mg/L	0.0247	0.000187	0.0250	97.9	70 - 130	X448070 - X4K0374-01	10-Dec-24	
EPA 200.8	Uranium	mg/L	0.0269	0.00249	0.0250	97.5	70 - 130	X448070 - X4K0383-01	10-Dec-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00195	<0.000200	0.00200	97.4	70 - 130	X449084 - X4K0360-02	06-Dec-24	
EPA 245.1	Mercury	mg/L	0.00223	<0.000200	0.00200	111	70 - 130	X449084 - X4K0368-06	06-Dec-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0740	<0.0050	0.100	74.0	79 - 121	X448022 - X4K0315-01	26-Nov-24	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.0977	<0.0050	0.100	97.7	90 - 110	X447232 - X4K0280-03	26-Nov-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 11 of 14

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0383**

Reported: 16-Dec-24 12:27

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
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Classical Chemistry Parameters (Continued)

EPA 335.4	Cyanide (total)	mg/L	0.0976	<0.0050	0.100	97.6	90 - 110	X447232 - X4K0280-01	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.14	<0.030	1.00	112	90 - 110	X448043 - X4K0360-02	27-Nov-24	M1
EPA 350.1	Ammonia as N	mg/L	1.21	0.032	1.00	118	90 - 110	X448043 - X4K0360-01	27-Nov-24	M1
OIA 1677	Cyanide (WAD)	mg/L	0.100	<0.0050	0.100	100	82 - 118	X449037 - X4K0276-01	02-Dec-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	4.79	1.75	3.00	101	90 - 110	X447282 - X4K0390-02	04-Dec-24	
EPA 300.0	Chloride	mg/L	8.80	5.67	3.00	104	90 - 110	X447282 - X4K0390-04	04-Dec-24	
EPA 300.0	Chloride	mg/L	2.88	<0.20	3.00	94.6	90 - 110	X450118 - X4L0160-02	11-Dec-24	
EPA 300.0	Chloride	mg/L	4.47	1.51	3.00	98.6	90 - 110	X450118 - X4L0157-04	12-Dec-24	
EPA 300.0	Fluoride	mg/L	2.15	0.137	2.00	101	90 - 110	X447282 - X4K0390-02	04-Dec-24	
EPA 300.0	Fluoride	mg/L	2.15	0.148	2.00	100	90 - 110	X447282 - X4K0390-04	04-Dec-24	
EPA 300.0	Fluoride	mg/L	1.93	<0.100	2.00	95.2	90 - 110	X450118 - X4L0160-02	11-Dec-24	
EPA 300.0	Fluoride	mg/L	1.98	<0.100	2.00	97.4	90 - 110	X450118 - X4L0157-04	12-Dec-24	
EPA 300.0	Nitrate as N	mg/L	1.98	<0.050	2.00	99.0	90 - 110	X447282 - X4K0390-02	04-Dec-24	
EPA 300.0	Nitrate as N	mg/L	2.39	0.384	2.00	100	90 - 110	X447282 - X4K0390-04	04-Dec-24	
EPA 300.0	Nitrate as N	mg/L	1.95	<0.050	2.00	95.5	90 - 110	X450118 - X4L0160-02	11-Dec-24	
EPA 300.0	Nitrate as N	mg/L	1.97	<0.050	2.00	96.2	90 - 110	X450118 - X4L0157-04	12-Dec-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.99	<0.100	4.00	99.9	90 - 110	X447282 - X4K0390-02	04-Dec-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.37	0.384	4.00	99.6	90 - 110	X447282 - X4K0390-04	04-Dec-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.89	<0.100	4.00	97.3	90 - 110	X450118 - X4L0160-02	11-Dec-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.96	<0.100	4.00	97.7	90 - 110	X450118 - X4L0157-04	12-Dec-24	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	101	90 - 110	X447282 - X4K0390-02	04-Dec-24	
EPA 300.0	Nitrite as N	mg/L	1.98	<0.050	2.00	99.2	90 - 110	X447282 - X4K0390-04	04-Dec-24	
EPA 300.0	Nitrite as N	mg/L	1.95	<0.050	2.00	97.3	90 - 110	X450118 - X4L0160-02	11-Dec-24	
EPA 300.0	Nitrite as N	mg/L	1.98	<0.050	2.00	99.2	90 - 110	X450118 - X4L0157-04	12-Dec-24	
EPA 300.0	Sulfate as SO4	mg/L	12.3	2.06	10.0	102	90 - 110	X447282 - X4K0390-02	04-Dec-24	
EPA 300.0	Sulfate as SO4	mg/L	37.5	27.3	10.0	102	90 - 110	X447282 - X4K0390-04	04-Dec-24	
EPA 300.0	Sulfate as SO4	mg/L	10.0	<0.30	10.0	100	90 - 110	X450118 - X4L0160-02	11-Dec-24	
EPA 300.0	Sulfate as SO4	mg/L	12.1	1.96	10.0	102	90 - 110	X450118 - X4L0157-04	12-Dec-24	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	41.1	39.7	20.0	3.0	20	103	X449079 - X4K0360-01	
EPA 200.7	Magnesium	mg/L	40.2	39.5	20.0	1.8	20	113	X449079 - X4K0360-01	
EPA 200.7	Potassium	mg/L	23.0	22.1	20.0	4.0	20	104	X449079 - X4K0360-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.04	1.04	1.00	0.1	20	104	X449013 - X4K0276-01	
EPA 200.7	Barium	mg/L	1.13	1.12	1.00	0.8	20	103	X449013 - X4K0276-01	
EPA 200.7	Beryllium	mg/L	1.04	1.05	1.00	0.6	20	104	X449013 - X4K0276-01	
EPA 200.7	Boron	mg/L	1.07	1.07	1.00	0.1	20	104	X449013 - X4K0276-01	
EPA 200.7	Cadmium	mg/L	1.03	1.02	1.00	0.4	20	103	X449013 - X4K0276-01	
EPA 200.7	Calcium	mg/L	49.6	49.1	20.0	0.9	20	101	X449013 - X4K0276-01	
EPA 200.7	Chromium	mg/L	1.02	1.03	1.00	0.5	20	102	X449013 - X4K0276-01	
EPA 200.7	Cobalt	mg/L	0.992	0.995	1.00	0.4	20	99.2	X449013 - X4K0276-01	
EPA 200.7	Copper	mg/L	0.993	0.997	1.00	0.4	20	99.3	X449013 - X4K0276-01	
EPA 200.7	Iron	mg/L	10.5	10.2	10.0	3.1	20	103	X449013 - X4K0276-01	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 12 of 14



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0383**

Reported: 16-Dec-24 12:27

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	Lead	mg/L	1.02	1.02	1.00	0.3	20	102	X449013 - X4K0276-01	
EPA 200.7	Lithium	mg/L	1.06	1.05	1.00	0.3	20	106	X449013 - X4K0276-01	
EPA 200.7	Magnesium	mg/L	32.3	31.8	20.0	1.4	20	103	X449013 - X4K0276-01	
EPA 200.7	Manganese	mg/L	1.23	1.24	1.00	0.9	20	102	X449013 - X4K0276-01	
EPA 200.7	Molybdenum	mg/L	1.06	1.06	1.00	0.5	20	105	X449013 - X4K0276-01	
EPA 200.7	Nickel	mg/L	0.985	0.980	1.00	0.5	20	98.5	X449013 - X4K0276-01	
EPA 200.7	Potassium	mg/L	22.2	21.4	20.0	3.7	20	104	X449013 - X4K0276-01	
EPA 200.7	Silver	mg/L	0.0545	0.0541	0.0500	0.8	20	109	X449013 - X4K0276-01	
EPA 200.7	Sodium	mg/L	56.8	56.4	19.0	0.6	20	99.4	X449013 - X4K0276-01	
EPA 200.7	Vanadium	mg/L	1.06	1.06	1.00	0.2	20	106	X449013 - X4K0276-01	
EPA 200.7	Zinc	mg/L	1.04	1.04	1.00	0.2	20	104	X449013 - X4K0276-01	
EPA 200.8	Antimony	mg/L	0.0256	0.0259	0.0250	1.4	20	102	X448070 - X4K0374-01	
EPA 200.8	Arsenic	mg/L	0.0243	0.0249	0.0250	2.4	20	97.4	X448070 - X4K0374-01	
EPA 200.8	Selenium	mg/L	0.0233	0.0235	0.0250	0.8	20	93.4	X448070 - X4K0374-01	
EPA 200.8	Thallium	mg/L	0.0234	0.0240	0.0250	2.5	20	93.5	X448070 - X4K0374-01	
EPA 200.8	Uranium	mg/L	0.0236	0.0247	0.0250	4.2	20	93.8	X448070 - X4K0374-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00202	0.00195	0.00200	3.7	20	101	X449084 - X4K0360-02	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.104	0.0740	0.100	33.7	11	104	X448022 - X4K0315-01	R2B
EPA 335.4	Cyanide (total)	mg/L	0.100	0.0977	0.100	2.4	20	100	X447232 - X4K0280-03	
EPA 350.1	Ammonia as N	mg/L	1.20	1.14	1.00	4.7	20	117	X448043 - X4K0360-02	M1
OIA 1677	Cyanide (WAD)	mg/L	0.105	0.100	0.100	4.9	11	105	X449037 - X4K0276-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.83	4.79	3.00	0.9	20	103	X447282 - X4K0390-02	
EPA 300.0	Chloride	mg/L	2.92	2.88	3.00	1.1	20	95.7	X450118 - X4L0160-02	
EPA 300.0	Fluoride	mg/L	2.17	2.15	2.00	0.9	20	102	X447282 - X4K0390-02	
EPA 300.0	Fluoride	mg/L	1.96	1.93	2.00	1.5	20	96.7	X450118 - X4L0160-02	
EPA 300.0	Nitrate as N	mg/L	2.00	1.98	2.00	1.0	20	100	X447282 - X4K0390-02	
EPA 300.0	Nitrate as N	mg/L	1.97	1.95	2.00	1.4	20	96.9	X450118 - X4L0160-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.03	3.99	4.00	0.8	20	101	X447282 - X4K0390-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.96	3.89	4.00	1.8	20	99.0	X450118 - X4L0160-02	
EPA 300.0	Nitrite as N	mg/L	2.03	2.01	2.00	0.6	20	101	X447282 - X4K0390-02	
EPA 300.0	Nitrite as N	mg/L	1.99	1.95	2.00	2.1	20	99.3	X450118 - X4L0160-02	
EPA 300.0	Sulfate as SO4	mg/L	12.4	12.3	10.0	0.8	20	103	X447282 - X4K0390-02	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	10.0	1.2	20	101	X450118 - X4L0160-02	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4K0383**

Reported: 16-Dec-24 12:27

Notes and Definitions

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	subsequent QC failed for Mg, diluted sample well above detection limit
D20a	undiluted samples caused mass QC and IS failures on previous runs, diluted to mitigate matrix effects
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
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.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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Kellogg, ID 83837-0929

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www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0360**

Reported: 09-Dec-24 13:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-15 A	X4K0360-01	Ground Water	21-Nov-24 08:50	JC	22-Nov-2024	
GVMW-15 B	X4K0360-02	Ground Water	21-Nov-24 09:56	JC	22-Nov-2024	
GVMW-35 A	X4K0360-03	Ground Water	21-Nov-24 13:00	JC	22-Nov-2024	
OSABH-17	X4K0360-04	Ground Water	21-Nov-24 11:35	JC	22-Nov-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: X4K0360

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

SVL is not accredited for DO.

The state of origin only accredits for drinking water analyses.

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0360**

Reported: 09-Dec-24 13:24

Client Sample ID: **GVMW-15 A**

Sampled: 21-Nov-24 08:50

SVL Sample ID: **X4K0360-01 (Ground Water)**

Received: 22-Nov-24

Sampled By: JC

Sample Report Page 1 of 2

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	20.6	mg/L	0.100	0.069		X449079	SJN	12/05/24 10:55	
EPA 200.7	Magnesium	17.6	mg/L	0.500	0.090		X449079	SJN	12/05/24 15:49	
EPA 200.7	Potassium	2.19	mg/L	0.50	0.18		X449079	SJN	12/05/24 10:55	
SM 2340 B	Hardness (as CaCO3)	122	mg/L	2.31	0.543		N/A		12/05/24 15:49	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X449013	SJN	12/04/24 13:58	
EPA 200.7	Barium	0.0530	mg/L	0.0020	0.0019		X449013	SJN	12/04/24 13:58	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X449013	SJN	12/04/24 13:58	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449013	SJN	12/04/24 13:58	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X449013	SJN	12/04/24 13:58	
EPA 200.7	Calcium	19.9	mg/L	0.100	0.069		X449013	SJN	12/04/24 13:58	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X449013	SJN	12/04/24 13:58	
EPA 200.7	Cobalt	0.0291	mg/L	0.0060	0.0046		X449013	SJN	12/04/24 13:58	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X449013	SJN	12/04/24 13:58	
EPA 200.7	Iron	31.7	mg/L	0.100	0.056		X449013	SJN	12/04/24 13:58	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X449013	SJN	12/04/24 13:58	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X449013	SJN	12/04/24 13:58	
EPA 200.7	Magnesium	17.5	mg/L	0.500	0.090		X449013	SJN	12/04/24 13:58	
EPA 200.7	Manganese	1.98	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 13:58	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 13:58	
EPA 200.7	Nickel	0.0427	mg/L	0.0100	0.0048		X449013	SJN	12/04/24 13:58	
EPA 200.7	Potassium	1.82	mg/L	0.50	0.18		X449013	SJN	12/04/24 13:58	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 13:58	
EPA 200.7	Sodium	14.6	mg/L	0.50	0.12		X449013	SJN	12/04/24 13:58	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 13:58	
EPA 200.7	Zinc	0.314	mg/L	0.0100	0.0054		X449013	SJN	12/04/24 13:58	
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X448064	JRR	12/06/24 12:04	D17
EPA 200.8	Arsenic	< 0.00500	mg/L	0.00500	0.00105	5	X448064	JRR	12/06/24 12:04	D17
EPA 200.8	Selenium	< 0.00500	mg/L	0.00500	0.00120	5	X448064	JRR	12/06/24 12:04	D17
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X448064	JRR	12/06/24 11:17	
EPA 200.8	Uranium	0.000111	mg/L	0.000100	0.000052		X448064	JRR	12/06/24 11:17	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X449084	MAC	12/06/24 14:18	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X448022	DD	11/26/24 15:09	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X448009	DD	11/26/24 09:40	
EPA 350.1	Ammonia as N	0.032	mg/L	0.030	0.013		X448043	JPM	11/27/24 11:34	M1
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449038	DD	12/02/24 14:57	
SM 2310 B	Acidity to pH 8.3	34.2	mg/L as CaCO3	10.0			X449058	MWD	12/03/24 08:48	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:02	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:02	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:02	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:02	
SM 2540 C	Total Diss. Solids	267	mg/L	10			X448048	TJL	11/27/24 12:50	
SM 2540 D	Total Susp. Solids	39.0	mg/L	5.0			X448049	TJL	11/27/24 13:10	
SM 4500 H B	pH @16.6°C	4.4	pH Units				X448087	MWD	11/29/24 11:02	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 2 of 15



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4K0360
Victor, CO 80860	Reported: 09-Dec-24 13:24

Client Sample ID: GVMW-15 A
SVL Sample ID: X4K0360-01 (Ground Water)

Sampled: 21-Nov-24 08:50
Received: 22-Nov-24
Sampled By: JC

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.48	mg/L	0.20	0.02		X447248	RS	11/22/24 14:29	
EPA 300.0	Fluoride	0.278	mg/L	0.100	0.017		X447248	RS	11/22/24 14:29	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X447248	RS	11/22/24 14:29	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X447248	RS	11/22/24 14:29	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X447248	RS	11/22/24 14:29	
EPA 300.0	Sulfate as SO4	185	mg/L	3.00	1.80	10	X447248	RS	11/22/24 14:46	M4

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.80 meq/L	Anion Sum: 3.93 meq/L	C/A Balance: -1.71 %	Calculated TDS: 241	TDS/cTDS: 1.11
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This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Dave Tryon
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4K0360**

Reported: 09-Dec-24 13:24

Client Sample ID: **GVMW-15 B**

Sampled: 21-Nov-24 09:56

Received: 22-Nov-24

Sampled By: JC

SVL Sample ID: **X4K0360-02 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	44.1	mg/L	0.100	0.069		X449079	SJN	12/05/24 10:59	
EPA 200.7	Magnesium	22.8	mg/L	0.500	0.090		X449079	SJN	12/05/24 15:53	
EPA 200.7	Potassium	2.33	mg/L	0.50	0.18		X449079	SJN	12/05/24 10:59	
SM 2340 B	Hardness (as CaCO3)	197	mg/L	2.31	0.543		N/A		12/04/24 14:02	

Metals (Dissolved)

EPA 200.7	Aluminum	0.431	mg/L	0.080	0.054		X449013	SJN	12/04/24 14:02	
EPA 200.7	Barium	0.0159	mg/L	0.0020	0.0019		X449013	SJN	12/04/24 14:02	
EPA 200.7	Beryllium	0.0320	mg/L	0.00200	0.00080		X449013	SJN	12/04/24 14:02	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449013	SJN	12/04/24 14:02	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X449013	SJN	12/04/24 14:02	
EPA 200.7	Calcium	41.2	mg/L	0.100	0.069		X449013	SJN	12/04/24 14:02	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X449013	SJN	12/04/24 14:02	
EPA 200.7	Cobalt	0.0671	mg/L	0.0060	0.0046		X449013	SJN	12/04/24 14:02	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X449013	SJN	12/04/24 14:02	
EPA 200.7	Iron	22.8	mg/L	0.100	0.056		X449013	SJN	12/04/24 14:02	
EPA 200.7	Lead	0.0644	mg/L	0.0075	0.0049		X449013	SJN	12/04/24 14:02	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X449013	SJN	12/04/24 14:02	
EPA 200.7	Magnesium	22.4	mg/L	0.500	0.090		X449013	SJN	12/04/24 14:02	
EPA 200.7	Manganese	1.38	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 14:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 14:02	
EPA 200.7	Nickel	0.0887	mg/L	0.0100	0.0048		X449013	SJN	12/04/24 14:02	
EPA 200.7	Potassium	2.25	mg/L	0.50	0.18		X449013	SJN	12/04/24 14:02	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 14:02	
EPA 200.7	Sodium	13.5	mg/L	0.50	0.12		X449013	SJN	12/04/24 14:02	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 14:02	
EPA 200.7	Zinc	1.33	mg/L	0.0100	0.0054		X449013	SJN	12/04/24 14:02	
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X448064	JRR	12/06/24 12:06	D17
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X448064	JRR	12/06/24 11:19	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X448064	JRR	12/06/24 11:19	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X448064	JRR	12/06/24 11:19	
EPA 200.8	Uranium	0.00314	mg/L	0.000100	0.000052		X448064	JRR	12/06/24 11:19	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X449084	MAC	12/06/24 14:20	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X448022	DD	11/26/24 15:10	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X448009	DD	11/26/24 09:42	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X448043	JPM	11/27/24 11:36	M1
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449038	DD	12/02/24 14:59	
SM 2310 B	Acidity to pH 8.3	29.9	mg/L as CaCO3	10.0			X449058	MWD	12/03/24 08:48	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:07	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:07	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:07	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:07	
SM 2540 C	Total Diss. Solids	426	mg/L	10			X448048	TJL	11/27/24 12:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X448049	TJL	11/27/24 13:10	
SM 4500 H B	pH @16.6°C	3.6	pH Units				X448087	MWD	11/29/24 11:07	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 4 of 15



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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4K0360
Victor, CO 80860	Reported: 09-Dec-24 13:24

Client Sample ID: GVMW-15 B
SVL Sample ID: X4K0360-02 (Ground Water)

Sampled: 21-Nov-24 09:56
Received: 22-Nov-24
Sampled By: JC

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	1.17	mg/L	0.20	0.02		X447248	RS	11/22/24 16:09	
EPA 300.0	Fluoride	0.354	mg/L	0.100	0.017		X447248	RS	11/22/24 16:09	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X447248	RS	11/22/24 16:09	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X447248	RS	11/22/24 16:09	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X447248	RS	11/22/24 16:09	
EPA 300.0	Sulfate as SO4	269	mg/L	3.00	1.80	10	X447248	RS	11/22/24 16:25	

Cation/Anion Balance and TDS Ratios

Cation Sum: 5.51 meq/L	Anion Sum: 5.68 meq/L	C/A Balance: -1.52 %	Calculated TDS: 352	TDS/cTDS: 1.21
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This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Dave Tryon
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4K0360**

Reported: 09-Dec-24 13:24

Client Sample ID: **GVMW-35 A**

Sampled: 21-Nov-24 13:00

Received: 22-Nov-24

Sampled By: JC

SVL Sample ID: **X4K0360-03 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	265	mg/L	0.100	0.069		X449079	SJN	12/05/24 11:02	
EPA 200.7	Magnesium	27.2	mg/L	0.500	0.090		X449079	SJN	12/05/24 15:57	
EPA 200.7	Potassium	41.7	mg/L	0.50	0.18		X449079	SJN	12/05/24 11:02	
SM 2340 B	Hardness (as CaCO3)	565	mg/L	2.31	0.543		N/A		12/05/24 15:57	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X449013	SJN	12/04/24 14:05	
EPA 200.7	Barium	0.0547	mg/L	0.0020	0.0019		X449013	SJN	12/04/24 14:05	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X449013	SJN	12/04/24 14:05	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449013	SJN	12/04/24 14:05	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X449013	SJN	12/04/24 14:05	
EPA 200.7	Calcium	212	mg/L	0.100	0.069		X449013	SJN	12/04/24 14:05	
EPA 200.7	Chromium	0.0083	mg/L	0.0060	0.0020		X449013	SJN	12/04/24 14:05	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X449013	SJN	12/04/24 14:05	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X449013	SJN	12/04/24 14:05	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X449013	SJN	12/04/24 14:05	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X449013	SJN	12/04/24 14:05	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X449013	SJN	12/04/24 14:05	
EPA 200.7	Magnesium	8.52	mg/L	0.500	0.090		X449013	SJN	12/04/24 14:05	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 14:05	
EPA 200.7	Molybdenum	0.0232	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 14:05	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X449013	SJN	12/04/24 14:05	
EPA 200.7	Potassium	30.2	mg/L	0.50	0.18		X449013	SJN	12/04/24 14:05	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 14:05	
EPA 200.7	Sodium	36.4	mg/L	0.50	0.12		X449013	SJN	12/04/24 14:05	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 14:05	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X449013	SJN	12/04/24 14:05	
EPA 200.8	Antimony	< 0.00500	mg/L	0.00500	0.00360	5	X448064	JRR	12/06/24 12:14	D17
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X448064	JRR	12/06/24 11:21	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X448064	JRR	12/06/24 11:21	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X448064	JRR	12/06/24 11:21	
EPA 200.8	Uranium	0.000264	mg/L	0.000100	0.000052		X448064	JRR	12/06/24 11:21	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X449084	MAC	12/06/24 14:22	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X448022	DD	11/26/24 15:16	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X448009	DD	11/26/24 09:45	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X448043	JPM	11/27/24 11:38	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449038	DD	12/02/24 15:05	
SM 2310 B	Acidity to pH 8.3	-215	mg/L as CaCO3	10.0			X449058	MWD	12/03/24 08:48	
SM 2320 B	Total Alkalinity	209	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:12	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:12	
SM 2320 B	Carbonate	161	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:12	
SM 2320 B	Hydroxide	47.8	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:12	
SM 2540 C	Total Diss. Solids	899	mg/L	10			X448048	TJL	11/27/24 12:50	
SM 2540 D	Total Susp. Solids	132	mg/L	5.0			X448049	TJL	11/27/24 13:10	
SM 4500 H B	pH @17.1°C	11.6	pH Units				X448087	MWD	11/29/24 11:12	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 6 of 15



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor	Project Name: Cripple Creek/Victor Water and Soil 2024
Post Office Box 191	Work Order: X4K0360
Victor, CO 80860	Reported: 09-Dec-24 13:24

Client Sample ID: GVMW-35 A

SVL Sample ID: X4K0360-03 (Ground Water)

Sample Report Page 2 of 2

Sampled: 21-Nov-24 13:00
Received: 22-Nov-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	19.3	mg/L	10.0	1.10	50	X447248	RS	11/22/24 17:31	
EPA 300.0	Fluoride	0.187	mg/L	0.100	0.017		X447248	RS	11/22/24 17:15	
EPA 300.0	Nitrate as N	0.112	mg/L	0.050	0.013		X447248	RS	11/22/24 17:15	
EPA 300.0	Nitrate+Nitrite as N	0.133	mg/L	0.100	0.044		X447248	RS	11/22/24 17:15	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X447248	RS	11/22/24 17:15	
EPA 300.0	Sulfate as SO4	503	mg/L	15.0	9.00	50	X447248	RS	11/22/24 17:31	

Cation/Anion Balance and TDS Ratios

Cation Sum: 13.6 meq/L	Anion Sum: 15.2 meq/L	C/A Balance: -5.41 %	Calculated TDS: 977	TDS/cTDS: 0.92
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This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Dave Tryon
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0360**

Reported: 09-Dec-24 13:24

Client Sample ID: **OSABH-17**SVL Sample ID: **X4K0360-04 (Ground Water)**

Sampled: 21-Nov-24 11:35

Received: 22-Nov-24

Sampled By: JC

Sample Report Page 1 of 2

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	454	mg/L	1.00	0.690	10	X449079	SJN	12/05/24 11:15	D18
EPA 200.7	Magnesium	1650	mg/L	5.00	0.900	10	X449079	SJN	12/05/24 16:00	D18
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X449079	SJN	12/05/24 11:15	D18
SM 2340 B	Hardness (as CaCO3)	2910	mg/L	23.1	5.43		N/A		12/05/24 16:00	

Metals (Dissolved)

EPA 200.7	Aluminum	1420	mg/L	0.800	0.540	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Barium	< 0.0200	mg/L	0.0200	0.0190	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Beryllium	0.235	mg/L	0.0200	0.00800	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Boron	< 0.400	mg/L	0.400	0.0780	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Cadmium	3.10	mg/L	0.0200	0.0160	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Calcium	152	mg/L	1.00	0.690	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Chromium	0.293	mg/L	0.0600	0.0200	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Cobalt	6.51	mg/L	0.0600	0.0460	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Copper	6.95	mg/L	0.100	0.0270	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Iron	211	mg/L	1.00	0.560	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Lead	< 0.0750	mg/L	0.0750	0.0490	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Lithium	< 0.400	mg/L	0.400	0.250	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Magnesium	432	mg/L	5.00	0.900	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Manganese	479	mg/L	0.0800	0.0340	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Molybdenum	< 0.0800	mg/L	0.0800	0.0340	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Nickel	4.69	mg/L	0.100	0.0480	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Silver	< 0.0500	mg/L	0.0500	0.0190	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Sodium	< 5.00	mg/L	5.00	1.20	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Vanadium	< 0.0500	mg/L	0.0500	0.0190	10	X449013	SJN	12/04/24 14:09	
EPA 200.7	Zinc	109	mg/L	0.100	0.0540	10	X449013	SJN	12/04/24 14:09	
EPA 200.8	Antimony	< 2.50	mg/L	2.50	1.80	2500	X448064	JRR	12/06/24 12:21	D11,D17,M4
EPA 200.8	Arsenic	< 1.25	mg/L	1.25	0.263	1250	X448064	JRR	12/06/24 12:15	D11,D17,M4
EPA 200.8	Selenium	< 1.25	mg/L	1.25	0.300	1250	X448064	JRR	12/06/24 12:15	D11,D17,M4
EPA 200.8	Thallium	< 0.0500	mg/L	0.0500	0.0200	250	X448064	JRR	12/06/24 11:22	D11
EPA 200.8	Uranium	20.3	mg/L	0.0250	0.0130	250	X448064	JRR	12/06/24 11:22	D11,M4

Metals (Filtered)

EPA 245.1	Mercury	0.000289	mg/L	0.000200	0.000093		X449084	MAC	12/06/24 14:29	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0500	mg/L	0.0500	0.0480	10	X448022	DD	11/26/24 15:18	D13,Q12
EPA 335.4	Cyanide (total)	0.0600	mg/L	0.0050	0.0038		X448009	DD	11/26/24 09:48	
EPA 350.1	Ammonia as N	< 0.300	mg/L	0.300	0.127	10	X448043	JPM	11/27/24 11:41	
OIA 1677	Cyanide (WAD)	< 0.0250	mg/L	0.0250	0.0050	5	X449038	DD	12/02/24 15:06	D14,Q12
SM 2310 B	Acidity to pH 8.3	31400	mg/L as CaCO3	10.0			X449058	MWD	12/03/24 08:48	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:34	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:34	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:34	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 11:34	
SM 2540 C	Total Diss. Solids	52700	mg/L	100			X448048	TJL	11/27/24 12:50	E11
SM 2540 D	Total Susp. Solids	64.0	mg/L	5.0			X448049	TJL	11/27/24 13:10	
SM 4500 H B	pH @ 17.9°C	2.7	pH Units				X448087	MWD	11/29/24 11:34	H5



One Government Gulch - PO Box 929
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(208) 784-1258
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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: X4K0360 Reported: 09-Dec-24 13:24
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Client Sample ID: **OSABH-17**
SVL Sample ID: **X4K0360-04 (Ground Water)**

Sampled: 21-Nov-24 11:35
Received: 22-Nov-24
Sampled By: JC

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	17.8	mg/L	10.0	1.10	50	X447248	RS	11/22/24 17:48	
EPA 300.0	Fluoride	598	mg/L	100	17.0	1000	X447248	RS	11/22/24 18:04	
EPA 300.0	Nitrate as N	5.11	mg/L	2.50	0.650	50	X447248	RS	11/22/24 17:48	D18
EPA 300.0	Nitrate+Nitrite as N	5.11	mg/L	5.00	2.20	50	X447248	RS	11/22/24 17:48	D18
EPA 300.0	Nitrite as N	< 2.50	mg/L	2.50	1.55	50	X447248	RS	11/22/24 17:48	D18
EPA 300.0	Sulfate as SO4	38600	mg/L	300	180	1000	X447248	RS	11/22/24 18:04	

Cation/Anion Balance and TDS Ratios

Cation Sum: 671 meq/L	Anion Sum: 836 meq/L	C/A Balance: -10.93 %	Calculated TDS: 40582	TDS/cTDS: 1.30
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This data has been reviewed for accuracy and has been authorized for release.

Dave Tryon
Dave Tryon
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0360**

Reported: 09-Dec-24 13:24

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	X449079	05-Dec-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X449079	05-Dec-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X449079	05-Dec-24	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X449013	04-Dec-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X449013	04-Dec-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X449013	04-Dec-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X449013	04-Dec-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X449013	04-Dec-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X449013	04-Dec-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X449013	04-Dec-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X449013	04-Dec-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X449013	04-Dec-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X449013	04-Dec-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X449013	04-Dec-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X449013	04-Dec-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X449013	04-Dec-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X449013	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X449013	04-Dec-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X449013	04-Dec-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X449013	04-Dec-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X449013	04-Dec-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X449013	04-Dec-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X449013	04-Dec-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X449013	04-Dec-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X448064	06-Dec-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X448064	06-Dec-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X448064	06-Dec-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X448064	06-Dec-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X448064	06-Dec-24	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X449084	06-Dec-24	
Classical Chemistry Parameters								
ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X448022	26-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X448009	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X448043	27-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X449038	02-Dec-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X449058	03-Dec-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X448087	29-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X448087	29-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X448087	29-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X448087	29-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X448048	27-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X448049	27-Nov-24	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X447248	22-Nov-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X447248	22-Nov-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X447248	22-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X447248	22-Nov-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X447248	22-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X447248	22-Nov-24	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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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: **X4K0360**

Reported: 09-Dec-24 13:24

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	20.6	20.0	103	85 - 115	X449079	05-Dec-24	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X449079	05-Dec-24	
EPA 200.7	Potassium	mg/L	20.6	20.0	103	85 - 115	X449079	05-Dec-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.938	1.00	93.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Barium	mg/L	0.968	1.00	96.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.01	1.00	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Boron	mg/L	0.960	1.00	96.0	85 - 115	X449013	04-Dec-24	
EPA 200.7	Cadmium	mg/L	0.983	1.00	98.3	85 - 115	X449013	04-Dec-24	
EPA 200.7	Calcium	mg/L	19.4	20.0	96.9	85 - 115	X449013	04-Dec-24	
EPA 200.7	Chromium	mg/L	0.985	1.00	98.5	85 - 115	X449013	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X449013	04-Dec-24	
EPA 200.7	Copper	mg/L	0.964	1.00	96.4	85 - 115	X449013	04-Dec-24	
EPA 200.7	Iron	mg/L	9.88	10.0	98.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Lead	mg/L	0.983	1.00	98.3	85 - 115	X449013	04-Dec-24	
EPA 200.7	Lithium	mg/L	0.924	1.00	92.4	85 - 115	X449013	04-Dec-24	
EPA 200.7	Magnesium	mg/L	18.8	20.0	93.9	85 - 115	X449013	04-Dec-24	
EPA 200.7	Manganese	mg/L	0.986	1.00	98.6	85 - 115	X449013	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	1.00	1.00	100	85 - 115	X449013	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.961	1.00	96.1	85 - 115	X449013	04-Dec-24	
EPA 200.7	Potassium	mg/L	20.2	20.0	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0504	0.0500	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Sodium	mg/L	18.6	19.0	97.7	85 - 115	X449013	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Zinc	mg/L	0.978	1.00	97.8	85 - 115	X449013	04-Dec-24	
EPA 200.8	Antimony	mg/L	0.0264	0.0250	106	85 - 115	X448064	06-Dec-24	
EPA 200.8	Arsenic	mg/L	0.0266	0.0250	107	85 - 115	X448064	06-Dec-24	
EPA 200.8	Selenium	mg/L	0.0257	0.0250	103	85 - 115	X448064	06-Dec-24	
EPA 200.8	Thallium	mg/L	0.0265	0.0250	106	85 - 115	X448064	06-Dec-24	
EPA 200.8	Uranium	mg/L	0.0264	0.0250	106	85 - 115	X448064	06-Dec-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00187	0.00200	93.3	85 - 115	X449084	06-Dec-24	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.104	0.100	104	90 - 110	X448022	26-Nov-24	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	103	90 - 110	X448009	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X448043	27-Nov-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X449038	02-Dec-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	721	706	102	95.4 - 104	X449058	03-Dec-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X448087	29-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.7	99.3	100	96.4 - 105	X448087	29-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	393	397	99.1	96.4 - 105	X448087	29-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X448049	27-Nov-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.96	3.00	98.8	90 - 110	X447248	22-Nov-24	
EPA 300.0	Fluoride	mg/L	1.95	2.00	97.7	90 - 110	X447248	22-Nov-24	
EPA 300.0	Nitrate as N	mg/L	1.95	2.00	97.5	90 - 110	X447248	22-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.45	4.50	99.0	90 - 110	X447248	22-Nov-24	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	100	90 - 110	X447248	22-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X447248	22-Nov-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 11 of 15

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0360**

Reported: 09-Dec-24 13:24

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 CaCO ₃	<10.0	<10.0	UDL	20	X449058 - X4K0359-01	03-Dec-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	358	331	7.8	20	X448087 - X4K0357-02	29-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	358	331	7.8	20	X448087 - X4K0357-02	29-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X448087 - X4K0357-02	29-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X448087 - X4K0357-02	29-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	210	205	2.4	10	X448048 - X4K0361-01	27-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	419	426	1.7	10	X448048 - X4K0360-02	27-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X448049 - X4K0360-02	27-Nov-24	
SM 4500 H B	pH @16.0°C	pH Units	7.8	7.9	0.6	20	X448087 - X4K0357-02	29-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	39.7	20.6	20.0	96	70 - 130	X449079 - X4K0360-01	05-Dec-24	
EPA 200.7	Calcium	mg/L	323	315	20.0	0.30R>S	70 - 130	X449079 - X4K0382-02	05-Dec-24	M3
EPA 200.7	Magnesium	mg/L	39.5	17.6	20.0	109	70 - 130	X449079 - X4K0360-01	05-Dec-24	
EPA 200.7	Magnesium	mg/L	49.4	26.3	20.0	115	70 - 130	X449079 - X4K0382-02	05-Dec-24	
EPA 200.7	Potassium	mg/L	22.1	2.19	20.0	99.6	70 - 130	X449079 - X4K0360-01	05-Dec-24	
EPA 200.7	Potassium	mg/L	25.3	4.57	20.0	103	70 - 130	X449079 - X4K0382-02	05-Dec-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.04	<0.080	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Aluminum	mg/L	1.06	<0.080	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Barium	mg/L	1.12	0.107	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Barium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Boron	mg/L	1.09	<0.0400	1.00	108	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Calcium	mg/L	49.1	29.4	20.0	98.6	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Calcium	mg/L	70.3	48.3	20.0	110	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.995	<0.0060	1.00	99.5	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.984	<0.0060	1.00	98.4	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Copper	mg/L	0.997	<0.0100	1.00	99.7	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	99.9	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Iron	mg/L	10.2	0.158	10.0	100	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	101	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Lithium	mg/L	1.06	<0.040	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Magnesium	mg/L	31.8	11.7	20.0	101	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Magnesium	mg/L	26.1	6.00	20.0	100	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Manganese	mg/L	1.24	0.212	1.00	103	70 - 130	X449013 - X4K0276-01	04-Dec-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 12 of 15

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0360**

Reported: 09-Dec-24 13:24

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	1.02	<0.0080	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	1.06	0.0100	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	1.04	<0.0080	1.00	104	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.980	<0.0100	1.00	98.0	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.973	<0.0100	1.00	97.3	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Potassium	mg/L	21.4	1.32	20.0	100	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Potassium	mg/L	21.3	0.83	20.0	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0541	<0.0050	0.0500	108	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0562	<0.0050	0.0500	112	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Sodium	mg/L	56.4	37.9	19.0	97.5	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Sodium	mg/L	43.2	23.9	19.0	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Zinc	mg/L	1.04	<0.0100	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.8	Antimony	mg/L	0.0264	<0.00500	0.0250	106	70 - 130	X448064 - X4K0315-01	06-Dec-24	D17
EPA 200.8	Antimony	mg/L	<2.50	<2.50	0.0250	N/A	70 - 130	X448064 - X4K0360-04	06-Dec-24	D11,D17,M4
EPA 200.8	Arsenic	mg/L	0.0264	<0.00100	0.0250	106	70 - 130	X448064 - X4K0315-01	06-Dec-24	
EPA 200.8	Arsenic	mg/L	<1.25	<1.25	0.0250	N/A	70 - 130	X448064 - X4K0360-04	06-Dec-24	D11,D17,M4
EPA 200.8	Selenium	mg/L	0.0253	<0.00100	0.0250	101	70 - 130	X448064 - X4K0315-01	06-Dec-24	
EPA 200.8	Selenium	mg/L	<1.25	<1.25	0.0250	N/A	70 - 130	X448064 - X4K0360-04	06-Dec-24	D11,D17,M4
EPA 200.8	Thallium	mg/L	<0.0500	<0.0500	0.0250	90.6	70 - 130	X448064 - X4K0360-04	06-Dec-24	D11
EPA 200.8	Thallium	mg/L	0.0259	<0.00100	0.0250	104	70 - 130	X448064 - X4K0315-01	06-Dec-24	D17
EPA 200.8	Uranium	mg/L	19.4	20.3	0.0250	0.30R>S	70 - 130	X448064 - X4K0360-04	06-Dec-24	D11,M4
EPA 200.8	Uranium	mg/L	0.0294	0.00336	0.0250	104	70 - 130	X448064 - X4K0315-01	06-Dec-24	D17
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00195	<0.000200	0.00200	97.4	70 - 130	X449084 - X4K0360-02	06-Dec-24	
EPA 245.1	Mercury	mg/L	0.00223	<0.000200	0.00200	111	70 - 130	X449084 - X4K0368-06	06-Dec-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0740	<0.0050	0.100	74.0	79 - 121	X448022 - X4K0315-01	26-Nov-24	M2,R2B
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	100	90 - 110	X448009 - X4K0360-02	26-Nov-24	
EPA 350.1	Ammonia as N	mg/L	1.14	<0.030	1.00	112	90 - 110	X448043 - X4K0360-02	27-Nov-24	M1
EPA 350.1	Ammonia as N	mg/L	1.21	0.032	1.00	118	90 - 110	X448043 - X4K0360-01	27-Nov-24	M1
OIA 1677	Cyanide (WAD)	mg/L	0.106	<0.0050	0.100	106	82 - 118	X449038 - X4K0357-01	02-Dec-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.42	1.48	3.00	97.9	90 - 110	X447248 - X4K0360-01	22-Nov-24	
EPA 300.0	Chloride	mg/L	3.17	0.29	3.00	96.2	90 - 110	X447248 - X4K0384-01	22-Nov-24	
EPA 300.0	Fluoride	mg/L	2.23	0.278	2.00	97.7	90 - 110	X447248 - X4K0360-01	22-Nov-24	
EPA 300.0	Fluoride	mg/L	1.97	<0.100	2.00	96.3	90 - 110	X447248 - X4K0384-01	22-Nov-24	
EPA 300.0	Nitrate as N	mg/L	1.94	<0.050	2.00	95.8	90 - 110	X447248 - X4K0360-01	22-Nov-24	
EPA 300.0	Nitrate as N	mg/L	2.00	0.078	2.00	96.1	90 - 110	X447248 - X4K0384-01	22-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.91	<0.100	4.00	97.8	90 - 110	X447248 - X4K0360-01	22-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	<0.100	4.00	97.1	90 - 110	X447248 - X4K0384-01	22-Nov-24	
EPA 300.0	Nitrite as N	mg/L	1.97	<0.050	2.00	98.3	90 - 110	X447248 - X4K0360-01	22-Nov-24	
EPA 300.0	Nitrite as N	mg/L	1.97	<0.050	2.00	98.4	90 - 110	X447248 - X4K0384-01	22-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	190	185	10.0	0.30R>S	90 - 110	X447248 - X4K0360-01	22-Nov-24	M4
EPA 300.0	Sulfate as SO4	mg/L	11.3	1.37	10.0	99.5	90 - 110	X447248 - X4K0384-01	22-Nov-24	

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0360**

Reported: 09-Dec-24 13:24

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	41.1	39.7	20.0	3.0	20	103	X449079 - X4K0360-01	
EPA 200.7	Magnesium	mg/L	40.2	39.5	20.0	1.8	20	113	X449079 - X4K0360-01	
EPA 200.7	Potassium	mg/L	23.0	22.1	20.0	4.0	20	104	X449079 - X4K0360-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.04	1.04	1.00	0.1	20	104	X449013 - X4K0276-01	
EPA 200.7	Barium	mg/L	1.13	1.12	1.00	0.8	20	103	X449013 - X4K0276-01	
EPA 200.7	Beryllium	mg/L	1.04	1.05	1.00	0.6	20	104	X449013 - X4K0276-01	
EPA 200.7	Boron	mg/L	1.07	1.07	1.00	0.1	20	104	X449013 - X4K0276-01	
EPA 200.7	Cadmium	mg/L	1.03	1.02	1.00	0.4	20	103	X449013 - X4K0276-01	
EPA 200.7	Calcium	mg/L	49.6	49.1	20.0	0.9	20	101	X449013 - X4K0276-01	
EPA 200.7	Chromium	mg/L	1.02	1.03	1.00	0.5	20	102	X449013 - X4K0276-01	
EPA 200.7	Cobalt	mg/L	0.992	0.995	1.00	0.4	20	99.2	X449013 - X4K0276-01	
EPA 200.7	Copper	mg/L	0.993	0.997	1.00	0.4	20	99.3	X449013 - X4K0276-01	
EPA 200.7	Iron	mg/L	10.5	10.2	10.0	3.1	20	103	X449013 - X4K0276-01	
EPA 200.7	Lead	mg/L	1.02	1.02	1.00	0.3	20	102	X449013 - X4K0276-01	
EPA 200.7	Lithium	mg/L	1.06	1.05	1.00	0.3	20	106	X449013 - X4K0276-01	
EPA 200.7	Magnesium	mg/L	32.3	31.8	20.0	1.4	20	103	X449013 - X4K0276-01	
EPA 200.7	Manganese	mg/L	1.23	1.24	1.00	0.9	20	102	X449013 - X4K0276-01	
EPA 200.7	Molybdenum	mg/L	1.06	1.06	1.00	0.5	20	105	X449013 - X4K0276-01	
EPA 200.7	Nickel	mg/L	0.985	0.980	1.00	0.5	20	98.5	X449013 - X4K0276-01	
EPA 200.7	Potassium	mg/L	22.2	21.4	20.0	3.7	20	104	X449013 - X4K0276-01	
EPA 200.7	Silver	mg/L	0.0545	0.0541	0.0500	0.8	20	109	X449013 - X4K0276-01	
EPA 200.7	Sodium	mg/L	56.8	56.4	19.0	0.6	20	99.4	X449013 - X4K0276-01	
EPA 200.7	Vanadium	mg/L	1.06	1.06	1.00	0.2	20	106	X449013 - X4K0276-01	
EPA 200.7	Zinc	mg/L	1.04	1.04	1.00	0.2	20	104	X449013 - X4K0276-01	
EPA 200.8	Antimony	mg/L	0.0269	0.0264	0.0250	1.9	20	108	X448064 - X4K0315-01	D17
EPA 200.8	Arsenic	mg/L	0.0274	0.0264	0.0250	3.5	20	109	X448064 - X4K0315-01	
EPA 200.8	Selenium	mg/L	0.0255	0.0253	0.0250	0.9	20	102	X448064 - X4K0315-01	
EPA 200.8	Thallium	mg/L	0.0259	0.0259	0.0250	0.2	20	104	X448064 - X4K0315-01	D17
EPA 200.8	Uranium	mg/L	0.0288	0.0294	0.0250	2.2	20	102	X448064 - X4K0315-01	D17
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00202	0.00195	0.00200	3.7	20	101	X449084 - X4K0360-02	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.104	0.0740	0.100	33.7	11	104	X448022 - X4K0315-01	R2B
EPA 335.4	Cyanide (total)	mg/L	0.103	0.100	0.100	2.5	20	103	X448009 - X4K0360-02	
EPA 350.1	Ammonia as N	mg/L	1.20	1.14	1.00	4.7	20	117	X448043 - X4K0360-02	M1
OIA 1677	Cyanide (WAD)	mg/L	0.107	0.106	0.100	0.9	11	107	X449038 - X4K0357-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	4.45	4.42	3.00	0.7	20	98.8	X447248 - X4K0360-01	
EPA 300.0	Fluoride	mg/L	2.25	2.23	2.00	0.9	20	98.7	X447248 - X4K0360-01	
EPA 300.0	Nitrate as N	mg/L	1.97	1.94	2.00	1.1	20	96.9	X447248 - X4K0360-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.95	3.91	4.00	1.1	20	98.8	X447248 - X4K0360-01	
EPA 300.0	Nitrite as N	mg/L	1.99	1.97	2.00	1.1	20	99.4	X447248 - X4K0360-01	
EPA 300.0	Sulfate as SO4	mg/L	192	190	10.0	0.7	20	0.30R>S	X447248 - X4K0360-01	M4

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0360**

Reported: 09-Dec-24 13:24

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.
E11	Sample exceeds method-specified limit for solids content.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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www.svl.net**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0407**

Reported: 13-Dec-24 14:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-8A	X4K0407-01	Ground Water	25-Nov-24 09:50	TR	26-Nov-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: X4K0407

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: **X4K0407**

Reported: 13-Dec-24 14:29

Client Sample ID: **GVMW-8A**

Sampled: 25-Nov-24 09:50

Received: 26-Nov-24

Sampled By: TR

SVL Sample ID: **X4K0407-01 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	51.0	mg/L	0.100	0.069		X449108	SJN	12/05/24 15:31	
EPA 200.7	Magnesium	6.84	mg/L	0.500	0.090		X449108	SJN	12/05/24 15:31	
EPA 200.7	Potassium	0.97	mg/L	0.50	0.18		X449108	SJN	12/05/24 15:31	
SM 2340 B	Hardness (as CaCO3)	155	mg/L	2.31	0.543		N/A		12/04/24 15:08	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X449013	SJN	12/04/24 15:08	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X449013	SJN	12/04/24 15:08	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X449013	SJN	12/04/24 15:08	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449013	SJN	12/04/24 15:08	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X449013	SJN	12/04/24 15:08	
EPA 200.7	Calcium	48.3	mg/L	0.100	0.069		X449013	SJN	12/04/24 15:08	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X449013	SJN	12/04/24 15:08	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X449013	SJN	12/04/24 15:08	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X449013	SJN	12/04/24 15:08	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X449013	SJN	12/04/24 15:08	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X449013	SJN	12/04/24 15:08	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X449013	SJN	12/04/24 15:08	
EPA 200.7	Magnesium	6.00	mg/L	0.500	0.090		X449013	SJN	12/04/24 15:08	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 15:08	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X449013	SJN	12/04/24 15:08	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X449013	SJN	12/04/24 15:08	
EPA 200.7	Potassium	0.83	mg/L	0.50	0.18		X449013	SJN	12/04/24 15:08	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 15:08	
EPA 200.7	Sodium	23.9	mg/L	0.50	0.12		X449013	SJN	12/04/24 15:08	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449013	SJN	12/04/24 15:08	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X449013	SJN	12/04/24 15:08	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X450005	SMU	12/13/24 10:01	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X450005	SMU	12/13/24 10:01	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X450005	SMU	12/13/24 10:01	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X450005	SMU	12/13/24 10:01	
EPA 200.8	Uranium	0.00465	mg/L	0.000100	0.000052		X450005	SMU	12/13/24 10:01	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X449085	MAC	12/06/24 17:19	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X449156	DD	12/05/24 14:04	R4
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X449001	DD	12/03/24 14:06	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X449065	DD	12/04/24 12:27	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449038	DD	12/02/24 15:08	
SM 2310 B	Acidity to pH 8.3	-55.4	mg/L as CaCO3	10.0			X449059	MWD	12/03/24 08:55	
SM 2320 B	Total Alkalinity	49.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 13:29	
SM 2320 B	Bicarbonate	49.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 13:29	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 13:29	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X448087	MWD	11/29/24 13:29	
SM 2540 C	Total Diss. Solids	275	mg/L	10			X448077	TJL	12/02/24 12:40	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X448078	TJL	12/02/24 13:40	
SM 4500 H B	pH @18.1°C	7.1	pH Units				X448087	MWD	11/29/24 13:29	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 2 of 9



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Newmont - Cripple Creek & Victor					Project Name: Cripple Creek/Victor Water and Soil 2024				
Post Office Box 191					Work Order: X4K0407				
Victor, CO 80860					Reported: 13-Dec-24 14:29				

Client Sample ID: GVMW-8A

SVL Sample ID: X4K0407-01 (Ground Water)

Sample Report Page 2 of 2

Sampled: 25-Nov-24 09:50
Received: 26-Nov-24
Sampled By: TR

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	61.5	mg/L	2.00	0.22	10	X448076	RS	11/26/24 20:08	
EPA 300.0	Fluoride	1.89	mg/L	0.100	0.017		X448076	RS	11/26/24 19:51	
EPA 300.0	Nitrate as N	1.16	mg/L	0.050	0.013		X448076	RS	11/26/24 19:51	
EPA 300.0	Nitrate+Nitrite as N	1.16	mg/L	0.100	0.044		X448076	RS	11/26/24 19:51	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X448076	RS	11/26/24 19:51	
EPA 300.0	Sulfate as SO4	61.5	mg/L	3.00	1.80	10	X448076	RS	11/26/24 20:08	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.98 meq/L	Anion Sum: 4.18 meq/L	C/A Balance: -2.44 %	Calculated TDS: 240	TDS/cTDS: 1.14
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0407**

Reported: 13-Dec-24 14:29

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X449108	05-Dec-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X449108	05-Dec-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X449108	05-Dec-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X449013	04-Dec-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X449013	04-Dec-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X449013	04-Dec-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X449013	04-Dec-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X449013	04-Dec-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X449013	04-Dec-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X449013	04-Dec-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X449013	04-Dec-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X449013	04-Dec-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X449013	04-Dec-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X449013	04-Dec-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X449013	04-Dec-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X449013	04-Dec-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X449013	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X449013	04-Dec-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X449013	04-Dec-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X449013	04-Dec-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X449013	04-Dec-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X449013	04-Dec-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X449013	04-Dec-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X449013	04-Dec-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X450005	13-Dec-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X450005	13-Dec-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X450005	13-Dec-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X450005	13-Dec-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X450005	13-Dec-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X449085	06-Dec-24	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X449156	05-Dec-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X449001	03-Dec-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X449065	04-Dec-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X449038	02-Dec-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X449059	03-Dec-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X448087	29-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X448087	29-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X448087	29-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X448087	29-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X448077	02-Dec-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X448078	02-Dec-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X448076	26-Nov-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X448076	26-Nov-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X448076	26-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X448076	26-Nov-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X448076	26-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X448076	26-Nov-24	



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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4K0407**

Reported: 13-Dec-24 14:29

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	21.1	20.0	106	85 - 115	X449108	05-Dec-24	
EPA 200.7	Magnesium	mg/L	20.9	20.0	105	85 - 115	X449108	05-Dec-24	
EPA 200.7	Potassium	mg/L	21.8	20.0	109	85 - 115	X449108	05-Dec-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.938	1.00	93.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Barium	mg/L	0.968	1.00	96.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.01	1.00	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Boron	mg/L	0.960	1.00	96.0	85 - 115	X449013	04-Dec-24	
EPA 200.7	Cadmium	mg/L	0.983	1.00	98.3	85 - 115	X449013	04-Dec-24	
EPA 200.7	Calcium	mg/L	19.4	20.0	96.9	85 - 115	X449013	04-Dec-24	
EPA 200.7	Chromium	mg/L	0.985	1.00	98.5	85 - 115	X449013	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.960	1.00	96.0	85 - 115	X449013	04-Dec-24	
EPA 200.7	Copper	mg/L	0.964	1.00	96.4	85 - 115	X449013	04-Dec-24	
EPA 200.7	Iron	mg/L	9.88	10.0	98.8	85 - 115	X449013	04-Dec-24	
EPA 200.7	Lead	mg/L	0.983	1.00	98.3	85 - 115	X449013	04-Dec-24	
EPA 200.7	Lithium	mg/L	0.924	1.00	92.4	85 - 115	X449013	04-Dec-24	
EPA 200.7	Magnesium	mg/L	18.8	20.0	93.9	85 - 115	X449013	04-Dec-24	
EPA 200.7	Manganese	mg/L	0.986	1.00	98.6	85 - 115	X449013	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	1.00	1.00	100	85 - 115	X449013	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.961	1.00	96.1	85 - 115	X449013	04-Dec-24	
EPA 200.7	Potassium	mg/L	20.2	20.0	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0504	0.0500	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Sodium	mg/L	18.6	19.0	97.7	85 - 115	X449013	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X449013	04-Dec-24	
EPA 200.7	Zinc	mg/L	0.978	1.00	97.8	85 - 115	X449013	04-Dec-24	
EPA 200.8	Antimony	mg/L	0.0233	0.0250	93.0	85 - 115	X450005	13-Dec-24	
EPA 200.8	Arsenic	mg/L	0.0243	0.0250	97.3	85 - 115	X450005	13-Dec-24	
EPA 200.8	Selenium	mg/L	0.0229	0.0250	91.7	85 - 115	X450005	13-Dec-24	
EPA 200.8	Thallium	mg/L	0.0249	0.0250	99.7	85 - 115	X450005	13-Dec-24	
EPA 200.8	Uranium	mg/L	0.0249	0.0250	99.5	85 - 115	X450005	13-Dec-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00208	0.00200	104	85 - 115	X449085	06-Dec-24	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	0.100	100	90 - 110	X449156	05-Dec-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X449001	03-Dec-24	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X449065	04-Dec-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X449038	02-Dec-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	721	706	102	95.4 - 104	X449059	03-Dec-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	96.4 - 105	X448087	29-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.7	99.3	100	96.4 - 105	X448087	29-Nov-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	393	397	99.1	96.4 - 105	X448087	29-Nov-24	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X448078	02-Dec-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.96	3.00	98.7	90 - 110	X448076	26-Nov-24	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.9	90 - 110	X448076	26-Nov-24	
EPA 300.0	Nitrate as N	mg/L	1.95	2.00	97.3	90 - 110	X448076	26-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.43	4.50	98.5	90 - 110	X448076	26-Nov-24	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.5	90 - 110	X448076	26-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X448076	26-Nov-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 5 of 9

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0407**

Reported: 13-Dec-24 14:29

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 CaCO ₃	28900	29000	0.1	20	X449059 - X4K0369-01	03-Dec-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	358	331	7.8	20	X448087 - X4K0357-02	29-Nov-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	358	331	7.8	20	X448087 - X4K0357-02	29-Nov-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X448087 - X4K0357-02	29-Nov-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X448087 - X4K0357-02	29-Nov-24	
SM 2540 C	Total Diss. Solids	mg/L	237	239	0.8	10	X448077 - X4K0416-02	02-Dec-24	
SM 2540 C	Total Diss. Solids	mg/L	284	275	3.2	10	X448077 - X4K0407-01	02-Dec-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X448078 - X4K0407-01	02-Dec-24	
SM 4500 H B	pH @16.0°C	pH Units	7.8	7.9	0.6	20	X448087 - X4K0357-02	29-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	84.9	63.1	20.0	109	70 - 130	X449108 - X4K0409-01	05-Dec-24	
EPA 200.7	Calcium	mg/L	232	214	20.0	91	70 - 130	X449108 - X4K0439-03	05-Dec-24	
EPA 200.7	Magnesium	mg/L	27.7	6.60	20.0	106	70 - 130	X449108 - X4K0409-01	05-Dec-24	
EPA 200.7	Magnesium	mg/L	56.3	37.6	20.0	93.5	70 - 130	X449108 - X4K0439-03	05-Dec-24	
EPA 200.7	Potassium	mg/L	40.6	18.5	20.0	110	70 - 130	X449108 - X4K0409-01	05-Dec-24	
EPA 200.7	Potassium	mg/L	57.3	36.6	20.0	103	70 - 130	X449108 - X4K0439-03	05-Dec-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.04	<0.080	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Aluminum	mg/L	1.06	<0.080	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Barium	mg/L	1.12	0.107	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Barium	mg/L	1.05	<0.0020	1.00	105	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Beryllium	mg/L	1.05	<0.00200	1.00	105	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Boron	mg/L	1.07	<0.0400	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Boron	mg/L	1.09	<0.0400	1.00	108	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Cadmium	mg/L	1.02	<0.0020	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Calcium	mg/L	49.1	29.4	20.0	98.6	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Calcium	mg/L	70.3	48.3	20.0	110	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Chromium	mg/L	1.03	<0.0060	1.00	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.995	<0.0060	1.00	99.5	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Cobalt	mg/L	0.984	<0.0060	1.00	98.4	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Copper	mg/L	0.997	<0.0100	1.00	99.7	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Copper	mg/L	1.00	<0.0100	1.00	99.9	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Iron	mg/L	10.2	0.158	10.0	100	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	101	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Lead	mg/L	1.02	<0.0075	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Lithium	mg/L	1.06	<0.040	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Magnesium	mg/L	31.8	11.7	20.0	101	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Magnesium	mg/L	26.1	6.00	20.0	100	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Manganese	mg/L	1.24	0.212	1.00	103	70 - 130	X449013 - X4K0276-01	04-Dec-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 6 of 9



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net
Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4K0407**

Reported: 13-Dec-24 14:29

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	1.02	<0.0080	1.00	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	1.06	0.0100	1.00	105	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Molybdenum	mg/L	1.04	<0.0080	1.00	104	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.980	<0.0100	1.00	98.0	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Nickel	mg/L	0.973	<0.0100	1.00	97.3	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Potassium	mg/L	21.4	1.32	20.0	100	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Potassium	mg/L	21.3	0.83	20.0	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0541	<0.0050	0.0500	108	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Silver	mg/L	0.0562	<0.0050	0.0500	112	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Sodium	mg/L	56.4	37.9	19.0	97.5	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Sodium	mg/L	43.2	23.9	19.0	102	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Vanadium	mg/L	1.06	<0.0050	1.00	106	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.7	Zinc	mg/L	1.04	<0.0100	1.00	104	70 - 130	X449013 - X4K0276-01	04-Dec-24	
EPA 200.7	Zinc	mg/L	1.03	<0.0100	1.00	103	70 - 130	X449013 - X4K0407-01	04-Dec-24	
EPA 200.8	Antimony	mg/L	0.0320	<0.0100	0.0250	95.1	70 - 130	X450005 - X4K0435-01	13-Dec-24	D17
EPA 200.8	Antimony	mg/L	0.0231	<0.00100	0.0250	92.5	70 - 130	X450005 - X4L0090-01	13-Dec-24	
EPA 200.8	Arsenic	mg/L	0.577	0.548	0.0250	115	70 - 130	X450005 - X4K0435-01	13-Dec-24	D17
EPA 200.8	Arsenic	mg/L	0.0295	<0.00100	0.0250	115	70 - 130	X450005 - X4L0090-01	13-Dec-24	
EPA 200.8	Selenium	mg/L	0.0561	0.0354	0.0250	82.8	70 - 130	X450005 - X4K0435-01	13-Dec-24	D17
EPA 200.8	Selenium	mg/L	0.0294	<0.00100	0.0250	118	70 - 130	X450005 - X4L0090-01	13-Dec-24	
EPA 200.8	Thallium	mg/L	0.0265	<0.00200	0.0250	106	70 - 130	X450005 - X4K0435-01	13-Dec-24	D17
EPA 200.8	Thallium	mg/L	0.0297	<0.000200	0.0250	119	70 - 130	X450005 - X4L0090-01	13-Dec-24	
EPA 200.8	Uranium	mg/L	6.81	6.77	0.0250	0.30R>S	70 - 130	X450005 - X4K0435-01	13-Dec-24	D17,M4
EPA 200.8	Uranium	mg/L	0.0301	0.000277	0.0250	119	70 - 130	X450005 - X4L0090-01	13-Dec-24	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	100	70 - 130	X449085 - X4K0366-02	06-Dec-24	
EPA 245.1	Mercury	mg/L	0.00198	<0.000200	0.00200	98.8	70 - 130	X449085 - X4K0407-01	06-Dec-24	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0880	<0.0050	0.100	88.0	79 - 121	X449156 - X4K0407-01	05-Dec-24	R4
EPA 335.4	Cyanide (total)	mg/L	0.0920	<0.0050	0.100	92.0	90 - 110	X449001 - X4K0390-04	03-Dec-24	
EPA 335.4	Cyanide (total)	mg/L	0.0900	<0.0050	0.100	90.0	90 - 110	X449001 - X4K0390-03	03-Dec-24	
EPA 350.1	Ammonia as N	mg/L	1.51	0.511	1.00	99.5	90 - 110	X449065 - X4K0435-02	04-Dec-24	
EPA 350.1	Ammonia as N	mg/L	1.10	0.041	1.00	106	90 - 110	X449065 - X4K0435-01	04-Dec-24	
OIA 1677	Cyanide (WAD)	mg/L	0.106	<0.0050	0.100	106	82 - 118	X449038 - X4K0357-01	02-Dec-24	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	17.3	14.7	3.00	0.30R>S	90 - 110	X448076 - X4K0402-01	26-Nov-24	M4
EPA 300.0	Fluoride	mg/L	1.95	<0.100	2.00	95.6	90 - 110	X448076 - X4K0402-01	26-Nov-24	
EPA 300.0	Nitrate as N	mg/L	3.01	1.06	2.00	97.5	90 - 110	X448076 - X4K0402-01	26-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.98	1.06	4.00	97.8	90 - 110	X448076 - X4K0402-01	26-Nov-24	
EPA 300.0	Nitrite as N	mg/L	1.96	<0.050	2.00	98.1	90 - 110	X448076 - X4K0402-01	26-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	17.8	7.93	10.0	98.8	90 - 110	X448076 - X4K0402-01	26-Nov-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 7 of 9



One Government Gulch - PO Box 929

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Newmont - Cripple Creek & Victor

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X4K0407**

Reported: 13-Dec-24 14:29

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	80.3	84.9	20.0	6.0	20	86	X449108 - X4K0409-01	
EPA 200.7	Magnesium	mg/L	28.3	27.7	20.0	2.1	20	109	X449108 - X4K0409-01	
EPA 200.7	Potassium	mg/L	39.2	40.6	20.0	3.3	20	104	X449108 - X4K0409-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.04	1.04	1.00	0.1	20	104	X449013 - X4K0276-01	
EPA 200.7	Barium	mg/L	1.13	1.12	1.00	0.8	20	103	X449013 - X4K0276-01	
EPA 200.7	Beryllium	mg/L	1.04	1.05	1.00	0.6	20	104	X449013 - X4K0276-01	
EPA 200.7	Boron	mg/L	1.07	1.07	1.00	0.1	20	104	X449013 - X4K0276-01	
EPA 200.7	Cadmium	mg/L	1.03	1.02	1.00	0.4	20	103	X449013 - X4K0276-01	
EPA 200.7	Calcium	mg/L	49.6	49.1	20.0	0.9	20	101	X449013 - X4K0276-01	
EPA 200.7	Chromium	mg/L	1.02	1.03	1.00	0.5	20	102	X449013 - X4K0276-01	
EPA 200.7	Cobalt	mg/L	0.992	0.995	1.00	0.4	20	99.2	X449013 - X4K0276-01	
EPA 200.7	Copper	mg/L	0.993	0.997	1.00	0.4	20	99.3	X449013 - X4K0276-01	
EPA 200.7	Iron	mg/L	10.5	10.2	10.0	3.1	20	103	X449013 - X4K0276-01	
EPA 200.7	Lead	mg/L	1.02	1.02	1.00	0.3	20	102	X449013 - X4K0276-01	
EPA 200.7	Lithium	mg/L	1.06	1.05	1.00	0.3	20	106	X449013 - X4K0276-01	
EPA 200.7	Magnesium	mg/L	32.3	31.8	20.0	1.4	20	103	X449013 - X4K0276-01	
EPA 200.7	Manganese	mg/L	1.23	1.24	1.00	0.9	20	102	X449013 - X4K0276-01	
EPA 200.7	Molybdenum	mg/L	1.06	1.06	1.00	0.5	20	105	X449013 - X4K0276-01	
EPA 200.7	Nickel	mg/L	0.985	0.980	1.00	0.5	20	98.5	X449013 - X4K0276-01	
EPA 200.7	Potassium	mg/L	22.2	21.4	20.0	3.7	20	104	X449013 - X4K0276-01	
EPA 200.7	Silver	mg/L	0.0545	0.0541	0.0500	0.8	20	109	X449013 - X4K0276-01	
EPA 200.7	Sodium	mg/L	56.8	56.4	19.0	0.6	20	99.4	X449013 - X4K0276-01	
EPA 200.7	Vanadium	mg/L	1.06	1.06	1.00	0.2	20	106	X449013 - X4K0276-01	
EPA 200.7	Zinc	mg/L	1.04	1.04	1.00	0.2	20	104	X449013 - X4K0276-01	
EPA 200.8	Antimony	mg/L	0.0330	0.0320	0.0250	3.0	20	99.0	X450005 - X4K0435-01	D17
EPA 200.8	Arsenic	mg/L	0.591	0.577	0.0250	2.4	20	0.30R>S	X450005 - X4K0435-01	D17,M4
EPA 200.8	Selenium	mg/L	0.0571	0.0561	0.0250	1.8	20	86.8	X450005 - X4K0435-01	D17
EPA 200.8	Thallium	mg/L	0.0276	0.0265	0.0250	3.8	20	110	X450005 - X4K0435-01	D17
EPA 200.8	Uranium	mg/L	6.93	6.81	0.0250	1.8	20	0.30R>S	X450005 - X4K0435-01	D17,M4

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00208	0.00201	0.00200	3.4	20	104	X449085 - X4K0366-02	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.0880	0.100	11.8	11	99.0	X449156 - X4K0407-01	R4
EPA 335.4	Cyanide (total)	mg/L	0.0927	0.0920	0.100	0.8	20	92.7	X449001 - X4K0390-04	
EPA 350.1	Ammonia as N	mg/L	1.47	1.51	1.00	2.4	20	95.9	X449065 - X4K0435-02	
OIA 1677	Cyanide (WAD)	mg/L	0.107	0.106	0.100	0.9	11	107	X449038 - X4K0357-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	17.3	17.3	3.00	0.1	20	0.30R>S	X448076 - X4K0402-01	M4
EPA 300.0	Fluoride	mg/L	1.99	1.95	2.00	2.2	20	97.8	X448076 - X4K0402-01	
EPA 300.0	Nitrate as N	mg/L	3.05	3.01	2.00	1.3	20	99.4	X448076 - X4K0402-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.06	4.98	4.00	1.6	20	99.9	X448076 - X4K0402-01	
EPA 300.0	Nitrite as N	mg/L	2.01	1.96	2.00	2.2	20	100	X448076 - X4K0402-01	
EPA 300.0	Sulfate as SO4	mg/L	18.0	17.8	10.0	1.0	20	101	X448076 - X4K0402-01	



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Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0407**

Reported: 13-Dec-24 14:29

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.
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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Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0435**

Reported: 13-Dec-24 14:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-28	X4K0435-01	Ground Water	26-Nov-24 10:30	JC	27-Nov-2024	Q5C
GVMW-33	X4K0435-02	Ground Water	26-Nov-24 08:18	JC	27-Nov-2024	Q5C
GVMW-34	X4K0435-03	Ground Water	26-Nov-24 08:45	JC	27-Nov-2024	
GVMW-35B	X4K0435-04	Ground Water	26-Nov-24 09:10	JC	27-Nov-2024	
GVMW-135G	X4K0435-05	Ground Water	26-Nov-24 09:10	JC	27-Nov-2024	
GVMW-36	X4K0435-06	Ground Water	26-Nov-24 09:40	JC	27-Nov-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: X4K0435

The state of origin only accredits for drinking water analyses.

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

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0435**

Reported: 13-Dec-24 14:58

Client Sample ID: **GVMW-28**

Sampled: 26-Nov-24 10:30

Received: 27-Nov-24

Sampled By: JC

SVL Sample ID: **X4K0435-01 (Ground Water)****Sample Report Page 1 of 2**

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	515	mg/L	1.00	0.690	10	X449108	SJN	12/05/24 16:54	
EPA 200.7	Magnesium	575	mg/L	5.00	0.900	10	X449108	SJN	12/05/24 16:54	
EPA 200.7	Potassium	2.13	mg/L	0.50	0.18		X449108	SJN	12/05/24 16:04	
SM 2340 B	Hardness (as CaCO3)	3670	mg/L	21.8	4.57		N/A		12/09/24 13:25	
Metals (Dissolved)										
EPA 200.7	Aluminum	1920	mg/L	0.400	0.270	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Barium	0.0142	mg/L	0.0100	0.0095	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Beryllium	0.960	mg/L	0.0100	0.00400	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Boron	< 0.200	mg/L	0.200	0.0390	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Cadmium	3.42	mg/L	0.0100	0.0080	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Calcium	521	mg/L	0.500	0.345	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Chromium	0.468	mg/L	0.0300	0.0100	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Cobalt	3.89	mg/L	0.0300	0.0230	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Copper	11.3	mg/L	0.0500	0.0135	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Iron	381	mg/L	0.500	0.280	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Lead	0.0741	mg/L	0.0375	0.0245	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Lithium	0.470	mg/L	0.200	0.125	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Magnesium	582	mg/L	2.50	0.450	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Manganese	425	mg/L	0.0400	0.0170	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Molybdenum	< 0.0400	mg/L	0.0400	0.0170	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Nickel	4.97	mg/L	0.0500	0.0240	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Potassium	< 2.50	mg/L	2.50	0.90	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Silver	< 0.0250	mg/L	0.0250	0.0095	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Sodium	43.8	mg/L	2.50	0.60	5	X449127	SJN	12/09/24 18:54	D11
EPA 200.7	Vanadium	0.0284	mg/L	0.0250	0.0095	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.7	Zinc	154	mg/L	0.0500	0.0270	5	X449127	SJN	12/09/24 13:25	D11
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X450005	SMU	12/13/24 10:04	D17
EPA 200.8	Arsenic	0.548	mg/L	0.0100	0.00210	10	X450005	SMU	12/13/24 10:04	D17,M4
EPA 200.8	Selenium	0.0354	mg/L	0.0100	0.00240	10	X450005	SMU	12/13/24 10:04	D17
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X450005	SMU	12/13/24 10:04	D17
EPA 200.8	Uranium	6.77	mg/L	0.00100	0.000520	10	X450005	SMU	12/13/24 10:04	D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X449085	MAC	12/06/24 17:26	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X449156	DD	12/05/24 14:06	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X449001	DD	12/03/24 14:11	
EPA 350.1	Ammonia as N	0.041	mg/L	0.030	0.013		X449065	DD	12/04/24 12:55	
OIA 1677	Cyanide (WAD)	< 0.0250	mg/L	0.0250	0.0050	5	X449038	DD	12/02/24 15:09	D14,Q12
SM 2310 B	Acidity to pH 8.3	13900	mg/L as CaCO3	10.0			X449200	MWD	12/07/24 09:23	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:23	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:23	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:23	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:23	
SM 2540 C	Total Diss. Solids	22100	mg/L	100			X449004	TJL	12/03/24 11:15	E11
SM 2540 D	Total Susp. Solids	60.0	mg/L	5.0			X449005	TJL	12/03/24 10:35	
SM 4500 H B	pH @20.2°C	2.8	pH Units				X449113	MWD	12/05/24 16:23	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 2 of 19



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(208) 784-1258
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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: X4K0435 Reported: 13-Dec-24 14:58
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Client Sample ID: **GVMW-28**
SVL Sample ID: **X4K0435-01 (Ground Water)**

Sampled: 26-Nov-24 10:30
Received: 27-Nov-24
Sampled By: JC

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 5.00	mg/L	5.00	0.55	25	X448108	RS	11/27/24 15:28	D18
EPA 300.0	Fluoride	37.3	mg/L	2.50	0.425	25	X448108	RS	11/27/24 15:28	
EPA 300.0	Nitrate as N	6.07	mg/L	1.25	0.325	25	X448108	RS	11/27/24 15:28	D18
EPA 300.0	Nitrate+Nitrite as N	6.07	mg/L	2.50	1.10	25	X448108	RS	11/27/24 15:28	D18
EPA 300.0	Nitrite as N	< 1.25	mg/L	1.25	0.775	25	X448108	RS	11/27/24 15:28	D18
EPA 300.0	Sulfate as SO4	17600	mg/L	150	90.0	500	X448108	RS	11/27/24 15:45	

Cation/Anion Balance and TDS Ratios

Cation Sum: 353 meq/L	Anion Sum: 369 meq/L	C/A Balance: -2.20 %	Calculated TDS: 18806	TDS/cTDS: 1.18
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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: **X4K0435**

Reported: 13-Dec-24 14:58

Client Sample ID: **GVMW-33**

Sampled: 26-Nov-24 08:18

Received: 27-Nov-24

Sampled By: JC

SVL Sample ID: **X4K0435-02 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	439	mg/L	0.100	0.069		X449108	SJN	12/05/24 16:08	
EPA 200.7	Magnesium	368	mg/L	0.500	0.090		X449108	SJN	12/05/24 16:08	
EPA 200.7	Potassium	12.7	mg/L	0.50	0.18		X449108	SJN	12/05/24 16:08	
SM 2340 B	Hardness (as CaCO3)	2950	mg/L	2.31	0.543		N/A		12/05/24 16:08	

Metals (Dissolved)

EPA 200.7	Aluminum	836	mg/L	0.800	0.540	10	X449127	SJN	12/09/24 14:43	
EPA 200.7	Barium	0.0217	mg/L	0.0020	0.0019		X449127	SJN	12/09/24 13:29	
EPA 200.7	Beryllium	0.942	mg/L	0.00200	0.00080		X449127	SJN	12/09/24 13:29	
EPA 200.7	Boron	0.0544	mg/L	0.0400	0.0078		X449127	SJN	12/09/24 13:29	
EPA 200.7	Cadmium	1.87	mg/L	0.0020	0.0016		X449127	SJN	12/09/24 13:29	
EPA 200.7	Calcium	479	mg/L	0.100	0.069		X449127	SJN	12/09/24 13:29	
EPA 200.7	Chromium	0.0182	mg/L	0.0060	0.0020		X449127	SJN	12/09/24 13:29	
EPA 200.7	Cobalt	1.58	mg/L	0.0060	0.0046		X449127	SJN	12/09/24 13:29	
EPA 200.7	Copper	2.94	mg/L	0.0100	0.0027		X449127	SJN	12/09/24 13:29	
EPA 200.7	Iron	20.7	mg/L	0.100	0.056		X449127	SJN	12/09/24 13:29	
EPA 200.7	Lead	0.0782	mg/L	0.0075	0.0049		X449127	SJN	12/09/24 13:29	
EPA 200.7	Lithium	0.279	mg/L	0.040	0.025		X449127	SJN	12/09/24 13:29	
EPA 200.7	Magnesium	450	mg/L	0.500	0.090		X449127	SJN	12/09/24 13:29	
EPA 200.7	Manganese	300	mg/L	0.0800	0.0340	10	X449127	SJN	12/09/24 14:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X449127	SJN	12/09/24 13:29	
EPA 200.7	Nickel	2.60	mg/L	0.0100	0.0048		X449127	SJN	12/09/24 13:29	
EPA 200.7	Potassium	13.8	mg/L	0.50	0.18		X449127	SJN	12/09/24 13:29	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449127	SJN	12/09/24 13:29	
EPA 200.7	Sodium	195	mg/L	0.50	0.12		X449127	SJN	12/09/24 18:58	
EPA 200.7	Vanadium	0.0200	mg/L	0.0050	0.0019		X449127	SJN	12/09/24 13:29	
EPA 200.7	Zinc	44.1	mg/L	0.100	0.0540	10	X449127	SJN	12/09/24 14:43	
EPA 200.8	Antimony	< 0.00200	mg/L	0.00200	0.00144	2	X450005	SMU	12/13/24 10:13	D17
EPA 200.8	Arsenic	0.371	mg/L	0.00200	0.00042	2	X450005	SMU	12/13/24 10:13	D17
EPA 200.8	Selenium	0.0319	mg/L	0.00200	0.00048	2	X450005	SMU	12/13/24 10:13	D17
EPA 200.8	Thallium	< 0.00400	mg/L	0.00400	0.00160	20	X450005	SMU	12/13/24 11:53	D17
EPA 200.8	Uranium	2.78	mg/L	0.00200	0.00104	20	X450005	SMU	12/13/24 11:53	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X449085	MAC	12/06/24 17:28	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X449156	DD	12/05/24 14:08	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X449001	DD	12/03/24 14:14	
EPA 350.1	Ammonia as N	0.511	mg/L	0.030	0.013		X449065	DD	12/04/24 12:57	
OIA 1677	Cyanide (WAD)	< 0.0250	mg/L	0.0250	0.0050	5	X449038	DD	12/02/24 15:11	D14,Q12
SM 2310 B	Acidity to pH 8.3	6180	mg/L as CaCO3	10.0			X449200	MWD	12/07/24 09:23	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:29	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:29	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:29	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:29	
SM 2540 C	Total Diss. Solids	11300	mg/L	100			X449004	TJL	12/03/24 11:15	
SM 2540 D	Total Susp. Solids	86.0	mg/L	5.0			X449005	TJL	12/03/24 10:35	
SM 4500 H B	pH @20.3°C	3.3	pH Units				X449113	MWD	12/05/24 16:29	H5,R2B

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 4 of 19



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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: X4K0435 Reported: 13-Dec-24 14:58
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Client Sample ID: **GVMW-33**
SVL Sample ID: **X4K0435-02 (Ground Water)**

Sampled: 26-Nov-24 08:18
Received: 27-Nov-24
Sampled By: JC

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	6.99	mg/L	2.00	0.22	10	X448108	RS	11/27/24 16:03	D18
EPA 300.0	Fluoride	70.5	mg/L	1.00	0.170	10	X448108	RS	11/27/24 16:03	
EPA 300.0	Nitrate as N	5.21	mg/L	0.500	0.130	10	X448108	RS	11/27/24 16:03	D18
EPA 300.0	Nitrate+Nitrite as N	5.25	mg/L	1.00	0.440	10	X448108	RS	11/27/24 16:03	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X448108	RS	11/27/24 16:03	D18
EPA 300.0	Sulfate as SO4	8760	mg/L	75.0	45.0	250	X448108	RS	11/27/24 16:19	

Cation/Anion Balance and TDS Ratios										
Cation Sum: 185 meq/L		Anion Sum: 187 meq/L		C/A Balance: -0.56 %		Calculated TDS: 9937		TDS/cTDS: 1.14		

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

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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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: **X4K0435**

Reported: 13-Dec-24 14:58

Client Sample ID: **GVMW-34**

Sampled: 26-Nov-24 08:45

Received: 27-Nov-24

Sampled By: JC

SVL Sample ID: **X4K0435-03 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	654	mg/L	1.00	0.690	10	X449108	SJN	12/05/24 16:57	
EPA 200.7	Magnesium	270	mg/L	0.500	0.090		X449108	SJN	12/05/24 16:11	
EPA 200.7	Potassium	4.73	mg/L	0.50	0.18		X449108	SJN	12/05/24 16:11	
SM 2340 B	Hardness (as CaCO3)	2800	mg/L	4.56	2.09		N/A		12/05/24 16:11	

Metals (Dissolved)

EPA 200.7	Aluminum	9.94	mg/L	0.080	0.054		X449127	SJN	12/09/24 14:18	
EPA 200.7	Barium	0.0326	mg/L	0.0020	0.0019		X449127	SJN	12/09/24 14:18	
EPA 200.7	Beryllium	0.00998	mg/L	0.00200	0.00080		X449127	SJN	12/09/24 14:18	
EPA 200.7	Boron	0.0433	mg/L	0.0400	0.0078		X449127	SJN	12/09/24 14:18	
EPA 200.7	Cadmium	0.0408	mg/L	0.0020	0.0016		X449127	SJN	12/09/24 14:18	
EPA 200.7	Calcium	668	mg/L	0.100	0.069		X449127	SJN	12/09/24 14:18	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X449127	SJN	12/09/24 14:18	
EPA 200.7	Cobalt	0.0375	mg/L	0.0060	0.0046		X449127	SJN	12/09/24 14:18	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X449127	SJN	12/09/24 14:18	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X449127	SJN	12/09/24 14:18	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X449127	SJN	12/09/24 14:18	
EPA 200.7	Lithium	0.149	mg/L	0.040	0.025		X449127	SJN	12/09/24 14:18	
EPA 200.7	Magnesium	284	mg/L	0.500	0.090		X449127	SJN	12/09/24 14:18	
EPA 200.7	Manganese	54.6	mg/L	0.0080	0.0034		X449127	SJN	12/09/24 14:18	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X449127	SJN	12/09/24 14:18	
EPA 200.7	Nickel	0.243	mg/L	0.0100	0.0048		X449127	SJN	12/09/24 14:18	
EPA 200.7	Potassium	4.52	mg/L	0.50	0.18		X449127	SJN	12/09/24 14:18	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449127	SJN	12/09/24 14:18	
EPA 200.7	Sodium	47.7	mg/L	0.50	0.12		X449127	SJN	12/09/24 19:02	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449127	SJN	12/09/24 14:18	
EPA 200.7	Zinc	5.70	mg/L	0.0100	0.0054		X449127	SJN	12/09/24 14:18	
EPA 200.8	Antimony	< 0.00200	mg/L	0.00200	0.00144	2	X450005	SMU	12/13/24 10:17	D17
EPA 200.8	Arsenic	< 0.00200	mg/L	0.00200	0.00042	2	X450005	SMU	12/13/24 10:17	D17
EPA 200.8	Selenium	0.0121	mg/L	0.00200	0.00048	2	X450005	SMU	12/13/24 10:17	D17
EPA 200.8	Thallium	< 0.000400	mg/L	0.000400	0.000160	2	X450005	SMU	12/13/24 10:17	D17
EPA 200.8	Uranium	0.0282	mg/L	0.000200	0.000104	2	X450005	SMU	12/13/24 10:17	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X449085	MAC	12/06/24 17:30	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X449156	DD	12/05/24 14:10	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X449001	DD	12/03/24 14:28	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X449065	DD	12/04/24 13:00	
OIA 1677	Cyanide (WAD)	< 0.0250	mg/L	0.0250	0.0050	5	X449038	DD	12/02/24 15:12	D14,Q12
SM 2310 B	Acidity to pH 8.3	-215	mg/L as CaCO3	10.0			X449200	MWD	12/07/24 09:23	
SM 2320 B	Total Alkalinity	214	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:34	
SM 2320 B	Bicarbonate	214	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:34	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:34	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:34	
SM 2540 C	Total Diss. Solids	3860	mg/L	40			X449004	TJL	12/03/24 11:15	
SM 2540 D	Total Susp. Solids	74.0	mg/L	5.0			X449005	TJL	12/03/24 10:35	
SM 4500 H B	pH @20.1°C	6.2	pH Units				X449113	MWD	12/05/24 16:34	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 6 of 19



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

Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4K0435 Reported: 13-Dec-24 14:58
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Client Sample ID: **GVMW-34**
SVL Sample ID: **X4K0435-03 (Ground Water)**

Sampled: 26-Nov-24 08:45
Received: 27-Nov-24
Sampled By: JC

Sample Report Page 2 of 2

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	X448108	RS	11/27/24 16:36	
EPA 300.0	Fluoride	19.7	mg/L	0.500	0.085	5	X448108	RS	11/27/24 16:36	
EPA 300.0	Nitrate as N	10.7	mg/L	0.250	0.065	5	X448108	RS	11/27/24 16:36	
EPA 300.0	Nitrate+Nitrite as N	10.7	mg/L	0.500	0.220	5	X448108	RS	11/27/24 16:36	
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X448108	RS	11/27/24 16:36	D18
EPA 300.0	Sulfate as SO4	2650	mg/L	30.0	18.0	100	X448108	RS	11/27/24 16:52	

Cation/Anion Balance and TDS Ratios

Cation Sum: 60.3 meq/L	Anion Sum: 62.1 meq/L	C/A Balance: -1.42 %	Calculated TDS: 3865	TDS/cTDS: 1.00
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(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 2024Work Order: **X4K0435**

Reported: 13-Dec-24 14:58

Client Sample ID: **GVMW-35B**

Sampled: 26-Nov-24 09:10

SVL Sample ID: **X4K0435-04 (Ground Water)**

Received: 27-Nov-24

Sampled By: JC

Sample Report Page 1 of 2

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	391	mg/L	0.100	0.069		X449108	SJN	12/05/24 16:15	
EPA 200.7	Magnesium	112	mg/L	0.500	0.090		X449108	SJN	12/05/24 16:15	
EPA 200.7	Potassium	4.85	mg/L	0.50	0.18		X449108	SJN	12/05/24 16:15	
SM 2340 B	Hardness (as CaCO3)	1380	mg/L	2.31	0.543		N/A		12/05/24 16:15	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X449127	SJN	12/09/24 14:22	
EPA 200.7	Barium	0.0221	mg/L	0.0020	0.0019		X449127	SJN	12/09/24 14:22	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X449127	SJN	12/09/24 14:22	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449127	SJN	12/09/24 14:22	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X449127	SJN	12/09/24 14:22	
EPA 200.7	Calcium	380	mg/L	0.100	0.069		X449127	SJN	12/09/24 14:22	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X449127	SJN	12/09/24 14:22	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X449127	SJN	12/09/24 14:22	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X449127	SJN	12/09/24 14:22	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X449127	SJN	12/09/24 14:22	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X449127	SJN	12/09/24 14:22	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X449127	SJN	12/09/24 14:22	
EPA 200.7	Magnesium	106	mg/L	0.500	0.090		X449127	SJN	12/09/24 14:22	
EPA 200.7	Manganese	0.724	mg/L	0.0080	0.0034		X449127	SJN	12/09/24 14:22	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X449127	SJN	12/09/24 14:22	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X449127	SJN	12/09/24 14:22	
EPA 200.7	Potassium	3.96	mg/L	0.50	0.18		X449127	SJN	12/09/24 14:22	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449127	SJN	12/09/24 14:22	
EPA 200.7	Sodium	16.6	mg/L	0.50	0.12		X449127	SJN	12/09/24 19:06	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449127	SJN	12/09/24 14:22	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X449127	SJN	12/09/24 14:22	
EPA 200.8	Antimony	< 0.00200	mg/L	0.00200	0.00144	2	X450005	SMU	12/13/24 10:20	D17
EPA 200.8	Arsenic	< 0.00200	mg/L	0.00200	0.00042	2	X450005	SMU	12/13/24 10:20	D17
EPA 200.8	Selenium	0.00380	mg/L	0.00200	0.00048	2	X450005	SMU	12/13/24 10:20	D17
EPA 200.8	Thallium	< 0.000400	mg/L	0.000400	0.000160	2	X450005	SMU	12/13/24 10:20	D17
EPA 200.8	Uranium	0.00465	mg/L	0.000200	0.000104	2	X450005	SMU	12/13/24 10:20	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X449085	MAC	12/06/24 17:32	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X449156	DD	12/05/24 14:12	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X449001	DD	12/03/24 14:30	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X449065	DD	12/04/24 13:02	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449038	DD	12/02/24 15:14	
SM 2310 B	Acidity to pH 8.3	-55.4	mg/L as CaCO3	10.0			X449200	MWD	12/07/24 09:23	
SM 2320 B	Total Alkalinity	61.2	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:39	
SM 2320 B	Bicarbonate	61.2	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:39	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:39	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:39	
SM 2540 C	Total Diss. Solids	1960	mg/L	40			X449004	TJL	12/03/24 11:15	
SM 2540 D	Total Susp. Solids	55.0	mg/L	5.0			X449005	TJL	12/03/24 10:35	
SM 4500 H B	pH @20.1°C	7.8	pH Units				X449113	MWD	12/05/24 16:39	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 8 of 19



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Newmont - Cripple Creek & Victor					Project Name: Cripple Creek/Victor Water and Soil 2024				
Post Office Box 191					Work Order: X4K0435				
Victor, CO 80860					Reported: 13-Dec-24 14:58				

Client Sample ID: GVMW-35B

SVL Sample ID: X4K0435-04 (Ground Water)

Sample Report Page 2 of 2

Sampled: 26-Nov-24 09:10
Received: 27-Nov-24
Sampled By: JC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	82.7	mg/L	10.0	1.10	50	X448108	RS	11/27/24 17:25	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X448108	RS	11/27/24 17:09	
EPA 300.0	Nitrate as N	11.6	mg/L	2.50	0.650	50	X448108	RS	11/27/24 17:25	
EPA 300.0	Nitrate+Nitrite as N	11.7	mg/L	0.100	0.044		X448108	RS	11/27/24 17:09	
EPA 300.0	Nitrite as N	0.098	mg/L	0.050	0.031		X448108	RS	11/27/24 17:09	
EPA 300.0	Sulfate as SO4	1260	mg/L	15.0	9.00	50	X448108	RS	11/27/24 17:25	

Cation/Anion Balance and TDS Ratios

Cation Sum: 28.5 meq/L	Anion Sum: 30.6 meq/L	C/A Balance: -3.51 %	Calculated TDS: 1947	TDS/cTDS: 1.01
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(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: **X4K0435**

Reported: 13-Dec-24 14:58

Client Sample ID: **GVMW-135G**

Sampled: 26-Nov-24 09:10

Received: 27-Nov-24

Sampled By: JC

SVL Sample ID: **X4K0435-05 (Ground Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	399	mg/L	0.100	0.069		X449108	SJN	12/05/24 16:19	
EPA 200.7	Magnesium	120	mg/L	0.500	0.090		X449108	SJN	12/05/24 16:19	
EPA 200.7	Potassium	4.88	mg/L	0.50	0.18		X449108	SJN	12/05/24 16:19	
SM 2340 B	Hardness (as CaCO3)	1400	mg/L	2.31	0.543		N/A		12/05/24 16:19	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X449127	SJN	12/09/24 14:25	
EPA 200.7	Barium	0.0222	mg/L	0.0020	0.0019		X449127	SJN	12/09/24 14:25	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X449127	SJN	12/09/24 14:25	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449127	SJN	12/09/24 14:25	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X449127	SJN	12/09/24 14:25	
EPA 200.7	Calcium	382	mg/L	0.100	0.069		X449127	SJN	12/09/24 14:25	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X449127	SJN	12/09/24 14:25	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X449127	SJN	12/09/24 14:25	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X449127	SJN	12/09/24 14:25	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X449127	SJN	12/09/24 14:25	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X449127	SJN	12/09/24 14:25	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X449127	SJN	12/09/24 14:25	
EPA 200.7	Magnesium	109	mg/L	0.500	0.090		X449127	SJN	12/09/24 14:25	
EPA 200.7	Manganese	0.729	mg/L	0.0080	0.0034		X449127	SJN	12/09/24 14:25	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X449127	SJN	12/09/24 14:25	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X449127	SJN	12/09/24 14:25	
EPA 200.7	Potassium	4.05	mg/L	0.50	0.18		X449127	SJN	12/09/24 14:25	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449127	SJN	12/09/24 14:25	
EPA 200.7	Sodium	16.4	mg/L	0.50	0.12		X449127	SJN	12/09/24 19:09	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449127	SJN	12/09/24 14:25	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X449127	SJN	12/09/24 14:25	
EPA 200.8	Antimony	< 0.00200	mg/L	0.00200	0.00144	2	X450005	SMU	12/13/24 10:23	D17
EPA 200.8	Arsenic	< 0.00200	mg/L	0.00200	0.00042	2	X450005	SMU	12/13/24 10:23	D17
EPA 200.8	Selenium	0.00385	mg/L	0.00200	0.00048	2	X450005	SMU	12/13/24 10:23	D17
EPA 200.8	Thallium	< 0.000400	mg/L	0.000400	0.000160	2	X450005	SMU	12/13/24 10:23	D17
EPA 200.8	Uranium	0.00440	mg/L	0.000200	0.000104	2	X450005	SMU	12/13/24 10:23	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X449085	MAC	12/06/24 17:34	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X449156	DD	12/05/24 14:14	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X449001	DD	12/03/24 14:33	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X449065	DD	12/04/24 13:04	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X449038	DD	12/02/24 15:15	
SM 2310 B	Acidity to pH 8.3	-55.4	mg/L as CaCO3	10.0			X449200	MWD	12/07/24 09:23	
SM 2320 B	Total Alkalinity	61.2	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:45	
SM 2320 B	Bicarbonate	61.2	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:45	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:45	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:45	
SM 2540 C	Total Diss. Solids	2250	mg/L	40			X449004	TJL	12/03/24 11:15	
SM 2540 D	Total Susp. Solids	34.0	mg/L	5.0			X449005	TJL	12/03/24 10:35	
SM 4500 H B	pH @20.1°C	7.9	pH Units				X449113	MWD	12/05/24 16:45	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 10 of 19



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

Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4K0435 Reported: 13-Dec-24 14:58
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Client Sample ID: **GVMW-135G**
SVL Sample ID: **X4K0435-05 (Ground Water)**

Sampled: 26-Nov-24 09:10
Received: 27-Nov-24
Sampled By: JC

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	82.7	mg/L	10.0	1.10	50	X448108	RS	11/27/24 18:31	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X448108	RS	11/27/24 18:15	
EPA 300.0	Nitrate as N	11.8	mg/L	2.50	0.650	50	X448108	RS	11/27/24 18:31	
EPA 300.0	Nitrate+Nitrite as N	11.9	mg/L	0.100	0.044		X448108	RS	11/27/24 18:15	
EPA 300.0	Nitrite as N	0.101	mg/L	0.050	0.031		X448108	RS	11/27/24 18:15	
EPA 300.0	Sulfate as SO4	1260	mg/L	15.0	9.00	50	X448108	RS	11/27/24 18:31	

Cation/Anion Balance and TDS Ratios

Cation Sum: 28.9 meq/L	Anion Sum: 30.6 meq/L	C/A Balance: -2.94 %	Calculated TDS: 1958	TDS/cTDS: 1.15
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(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 2024Work Order: **X4K0435**

Reported: 13-Dec-24 14:58

Client Sample ID: **GVMW-36**

Sampled: 26-Nov-24 09:40

Received: 27-Nov-24

Sampled By: JC

SVL Sample ID: **X4K0435-06 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	479	mg/L	1.00	0.690	10	X449108	SJN	12/05/24 17:01	
EPA 200.7	Magnesium	517	mg/L	5.00	0.900	10	X449108	SJN	12/05/24 17:01	
EPA 200.7	Potassium	9.58	mg/L	0.50	0.18		X449108	SJN	12/05/24 16:23	
SM 2340 B	Hardness (as CaCO3)	3530	mg/L	2.31	0.543		N/A		12/05/24 17:01	

Metals (Dissolved)

EPA 200.7	Aluminum	787	mg/L	0.080	0.054		X449127	SJN	12/09/24 14:29	M3
EPA 200.7	Barium	0.0169	mg/L	0.0020	0.0019		X449127	SJN	12/09/24 14:29	M2
EPA 200.7	Beryllium	0.198	mg/L	0.00200	0.00080		X449127	SJN	12/09/24 14:29	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X449127	SJN	12/09/24 14:29	
EPA 200.7	Cadmium	1.68	mg/L	0.0020	0.0016		X449127	SJN	12/09/24 14:29	
EPA 200.7	Calcium	483	mg/L	0.100	0.069		X449127	SJN	12/09/24 14:29	M3
EPA 200.7	Chromium	0.154	mg/L	0.0060	0.0020		X449127	SJN	12/09/24 14:29	
EPA 200.7	Cobalt	3.59	mg/L	0.0060	0.0046		X449127	SJN	12/09/24 14:29	
EPA 200.7	Copper	3.88	mg/L	0.0100	0.0027		X449127	SJN	12/09/24 14:29	
EPA 200.7	Iron	63.1	mg/L	0.100	0.056		X449127	SJN	12/09/24 14:29	
EPA 200.7	Lead	0.195	mg/L	0.0075	0.0049		X449127	SJN	12/09/24 14:29	
EPA 200.7	Lithium	0.299	mg/L	0.040	0.025		X449127	SJN	12/09/24 14:29	M1
EPA 200.7	Magnesium	566	mg/L	0.500	0.090		X449127	SJN	12/09/24 14:29	M3
EPA 200.7	Manganese	208	mg/L	0.0800	0.0340	10	X449127	SJN	12/09/24 14:47	M4
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X449127	SJN	12/09/24 14:29	
EPA 200.7	Nickel	3.12	mg/L	0.0100	0.0048		X449127	SJN	12/09/24 14:29	
EPA 200.7	Potassium	9.32	mg/L	0.50	0.18		X449127	SJN	12/09/24 14:29	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X449127	SJN	12/09/24 14:29	
EPA 200.7	Sodium	119	mg/L	0.50	0.12		X449127	SJN	12/09/24 19:13	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X449127	SJN	12/09/24 14:29	
EPA 200.7	Zinc	74.3	mg/L	0.100	0.0540	10	X449127	SJN	12/09/24 14:47	M4
EPA 200.8	Antimony	< 0.0200	mg/L	0.0200	0.0144	20	X450005	SMU	12/13/24 11:56	D17
EPA 200.8	Arsenic	0.110	mg/L	0.0200	0.00420	20	X450005	SMU	12/13/24 11:56	D17
EPA 200.8	Selenium	< 0.0200	mg/L	0.0200	0.00480	20	X450005	SMU	12/13/24 11:56	D17
EPA 200.8	Thallium	< 0.00400	mg/L	0.00400	0.00160	20	X450005	SMU	12/13/24 11:56	D17
EPA 200.8	Uranium	3.70	mg/L	0.00200	0.00104	20	X450005	SMU	12/13/24 11:56	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X449085	MAC	12/06/24 17:36	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X449156	DD	12/05/24 14:22	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X449001	DD	12/03/24 14:35	
EPA 350.1	Ammonia as N	0.120	mg/L	0.030	0.013		X449065	DD	12/04/24 13:07	
OIA 1677	Cyanide (WAD)	< 0.0250	mg/L	0.0250	0.0050	5	X449038	DD	12/02/24 15:17	D14,Q12
SM 2310 B	Acidity to pH 8.3	5580	mg/L as CaCO3	10.0			X449200	MWD	12/07/24 09:23	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:51	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:51	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:51	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X449113	MWD	12/05/24 16:51	
SM 2540 C	Total Diss. Solids	12300	mg/L	100			X449004	TJL	12/03/24 11:15	
SM 2540 D	Total Susp. Solids	54.0	mg/L	5.0			X449005	TJL	12/03/24 10:35	
SM 4500 H B	pH @20.0°C	3.3	pH Units				X449113	MWD	12/05/24 16:51	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 12 of 19



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

Newmont - Cripple Creek & Victor Post Office Box 191 Victor, CO 80860	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X4K0435 Reported: 13-Dec-24 14:58
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Client Sample ID: **GVMW-36**
SVL Sample ID: **X4K0435-06 (Ground Water)**

Sampled: 26-Nov-24 09:40
Received: 27-Nov-24
Sampled By: JC

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	13.2	mg/L	2.00	0.22	10	X448108	RS	11/27/24 18:48	
EPA 300.0	Fluoride	40.1	mg/L	1.00	0.170	10	X448108	RS	11/27/24 18:48	
EPA 300.0	Nitrate as N	2.79	mg/L	0.500	0.130	10	X448108	RS	11/27/24 18:48	D18
EPA 300.0	Nitrate+Nitrite as N	2.79	mg/L	1.00	0.440	10	X448108	RS	11/27/24 18:48	D18
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X448108	RS	11/27/24 18:48	D18
EPA 300.0	Sulfate as SO4	8630	mg/L	75.0	45.0	250	X448108	RS	11/27/24 19:04	

Cation/Anion Balance and TDS Ratios

Cation Sum: 183 meq/L	Anion Sum: 182 meq/L	C/A Balance: 0.30 %	Calculated TDS: 9847	TDS/cTDS: 1.25
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This data has been reviewed for accuracy and has been authorized for release.

Kristi A. Groth

Kristi A. Groth
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(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: **X4K0435**

Reported: 13-Dec-24 14:58

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X449108	05-Dec-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X449108	05-Dec-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X449108	05-Dec-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X449127	09-Dec-24	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X449127	09-Dec-24	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X449127	09-Dec-24	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X449127	09-Dec-24	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X449127	09-Dec-24	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X449127	09-Dec-24	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X449127	09-Dec-24	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X449127	09-Dec-24	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X449127	09-Dec-24	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X449127	09-Dec-24	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X449127	09-Dec-24	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X449127	09-Dec-24	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X449127	09-Dec-24	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X449127	09-Dec-24	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X449127	09-Dec-24	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X449127	09-Dec-24	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X449127	09-Dec-24	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X449127	09-Dec-24	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X449127	09-Dec-24	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X449127	09-Dec-24	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X449127	09-Dec-24	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X450005	13-Dec-24	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X450005	13-Dec-24	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X450005	13-Dec-24	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X450005	13-Dec-24	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X450005	13-Dec-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X449085	06-Dec-24	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X449156	05-Dec-24	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X449001	03-Dec-24	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X449065	04-Dec-24	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X449038	02-Dec-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X449200	07-Dec-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X449113	05-Dec-24	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X449113	05-Dec-24	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X449113	05-Dec-24	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X449113	05-Dec-24	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X449004	03-Dec-24	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X449005	03-Dec-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X448108	27-Nov-24	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X448108	27-Nov-24	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X448108	27-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X448108	27-Nov-24	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X448108	27-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X448108	27-Nov-24	



One Government Gulch - PO Box 929

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(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: **X4K0435**

Reported: 13-Dec-24 14:58

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	21.1	20.0	106	85 - 115	X449108	05-Dec-24	
EPA 200.7	Magnesium	mg/L	20.9	20.0	105	85 - 115	X449108	05-Dec-24	
EPA 200.7	Potassium	mg/L	21.8	20.0	109	85 - 115	X449108	05-Dec-24	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.980	1.00	98.0	85 - 115	X449127	09-Dec-24	
EPA 200.7	Barium	mg/L	0.982	1.00	98.2	85 - 115	X449127	09-Dec-24	
EPA 200.7	Beryllium	mg/L	0.963	1.00	96.3	85 - 115	X449127	09-Dec-24	
EPA 200.7	Boron	mg/L	0.971	1.00	97.1	85 - 115	X449127	09-Dec-24	
EPA 200.7	Cadmium	mg/L	0.963	1.00	96.3	85 - 115	X449127	09-Dec-24	
EPA 200.7	Calcium	mg/L	19.9	20.0	99.3	85 - 115	X449127	09-Dec-24	
EPA 200.7	Chromium	mg/L	0.955	1.00	95.5	85 - 115	X449127	09-Dec-24	
EPA 200.7	Cobalt	mg/L	0.926	1.00	92.6	85 - 115	X449127	09-Dec-24	
EPA 200.7	Copper	mg/L	0.904	1.00	90.4	85 - 115	X449127	09-Dec-24	
EPA 200.7	Iron	mg/L	10.0	10.0	100	85 - 115	X449127	09-Dec-24	
EPA 200.7	Lead	mg/L	0.947	1.00	94.7	85 - 115	X449127	09-Dec-24	
EPA 200.7	Lithium	mg/L	0.936	1.00	93.6	85 - 115	X449127	09-Dec-24	
EPA 200.7	Magnesium	mg/L	19.4	20.0	96.8	85 - 115	X449127	09-Dec-24	
EPA 200.7	Manganese	mg/L	0.952	1.00	95.2	85 - 115	X449127	09-Dec-24	
EPA 200.7	Molybdenum	mg/L	0.967	1.00	96.7	85 - 115	X449127	09-Dec-24	
EPA 200.7	Nickel	mg/L	0.929	1.00	92.9	85 - 115	X449127	09-Dec-24	
EPA 200.7	Potassium	mg/L	20.2	20.0	101	85 - 115	X449127	09-Dec-24	
EPA 200.7	Silver	mg/L	0.0508	0.0500	102	85 - 115	X449127	09-Dec-24	
EPA 200.7	Sodium	mg/L	20.5	19.0	108	85 - 115	X449127	09-Dec-24	
EPA 200.7	Vanadium	mg/L	0.971	1.00	97.1	85 - 115	X449127	09-Dec-24	
EPA 200.7	Zinc	mg/L	0.953	1.00	95.3	85 - 115	X449127	09-Dec-24	
EPA 200.8	Antimony	mg/L	0.0233	0.0250	93.0	85 - 115	X450005	13-Dec-24	
EPA 200.8	Arsenic	mg/L	0.0243	0.0250	97.3	85 - 115	X450005	13-Dec-24	
EPA 200.8	Selenium	mg/L	0.0229	0.0250	91.7	85 - 115	X450005	13-Dec-24	
EPA 200.8	Thallium	mg/L	0.0249	0.0250	99.7	85 - 115	X450005	13-Dec-24	
EPA 200.8	Uranium	mg/L	0.0249	0.0250	99.5	85 - 115	X450005	13-Dec-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00208	0.00200	104	85 - 115	X449085	06-Dec-24	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.100	0.100	100	90 - 110	X449156	05-Dec-24	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X449001	03-Dec-24	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X449065	04-Dec-24	
OIA 1677	Cyanide (WAD)	mg/L	0.101	0.100	101	90 - 110	X449038	02-Dec-24	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	721	706	102	95.4 - 104	X449200	07-Dec-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	96.4 - 105	X449113	05-Dec-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	96.4 - 105	X449113	05-Dec-24	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X449005	03-Dec-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.97	3.00	98.9	90 - 110	X448108	27-Nov-24	
EPA 300.0	Fluoride	mg/L	1.99	2.00	99.4	90 - 110	X448108	27-Nov-24	
EPA 300.0	Nitrate as N	mg/L	1.95	2.00	97.6	90 - 110	X448108	27-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.45	4.50	99.0	90 - 110	X448108	27-Nov-24	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	100	90 - 110	X448108	27-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X448108	27-Nov-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 15 of 19

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0435**

Reported: 13-Dec-24 14:58

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 CaCO ₃	13900	13900	0.1	20	X449200 - X4K0435-01	07-Dec-24	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X449113 - X4K0435-02	05-Dec-24	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X449113 - X4K0435-02	05-Dec-24	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X449113 - X4K0435-02	05-Dec-24	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X449113 - X4K0435-02	05-Dec-24	
SM 2540 C	Total Diss. Solids	mg/L	148	154	4.0	10	X449004 - X4K0442-01	03-Dec-24	
SM 2540 C	Total Diss. Solids	mg/L	552	556	0.7	10	X449004 - X4K0440-03	03-Dec-24	
SM 2540 D	Total Susp. Solids	mg/L	15.0	16.0	6.5	10	X449005 - X4K0442-01	03-Dec-24	
SM 4500 H B	pH @20.3°C	pH Units	4.0	3.3	19.5	20	X449113 - X4K0435-02	05-Dec-24	R2B

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	84.9	63.1	20.0	109	70 - 130	X449108 - X4K0409-01	05-Dec-24	
EPA 200.7	Calcium	mg/L	232	214	20.0	91	70 - 130	X449108 - X4K0439-03	05-Dec-24	
EPA 200.7	Magnesium	mg/L	27.7	6.60	20.0	106	70 - 130	X449108 - X4K0409-01	05-Dec-24	
EPA 200.7	Magnesium	mg/L	56.3	37.6	20.0	93.5	70 - 130	X449108 - X4K0439-03	05-Dec-24	
EPA 200.7	Potassium	mg/L	40.6	18.5	20.0	110	70 - 130	X449108 - X4K0409-01	05-Dec-24	
EPA 200.7	Potassium	mg/L	57.3	36.6	20.0	103	70 - 130	X449108 - X4K0439-03	05-Dec-24	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	768	787	1.00	0.30R>S	70 - 130	X449127 - X4K0435-06	09-Dec-24	M3
EPA 200.7	Barium	mg/L	0.720	0.0169	1.00	70.3	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Beryllium	mg/L	1.18	0.198	1.00	98.4	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Boron	mg/L	1.02	<0.0400	1.00	98.1	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Cadmium	mg/L	2.49	1.68	1.00	81.2	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Calcium	mg/L	524	483	20.0	0.30R>S	70 - 130	X449127 - X4K0435-06	09-Dec-24	M3
EPA 200.7	Chromium	mg/L	1.04	0.154	1.00	88.9	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Cobalt	mg/L	4.33	3.59	1.00	73.9	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Copper	mg/L	4.79	3.88	1.00	91.3	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Iron	mg/L	75.6	63.1	10.0	125	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Lead	mg/L	0.974	0.195	1.00	77.9	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Lithium	mg/L	1.57	0.299	1.00	127	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Magnesium	mg/L	561	566	20.0	0.30R>S	70 - 130	X449127 - X4K0435-06	09-Dec-24	M3
EPA 200.7	Manganese	mg/L	216	208	1.00	0.30R>S	70 - 130	X449127 - X4K0435-06	09-Dec-24	M4
EPA 200.7	Molybdenum	mg/L	0.897	<0.0080	1.00	89.7	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Nickel	mg/L	3.89	3.12	1.00	76.4	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Potassium	mg/L	31.5	9.32	20.0	111	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Silver	mg/L	0.0408	<0.0050	0.0500	81.6	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Sodium	mg/L	144	119	19.0	127	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Vanadium	mg/L	0.942	<0.0050	1.00	94.2	70 - 130	X449127 - X4K0435-06	09-Dec-24	
EPA 200.7	Zinc	mg/L	75.7	74.3	1.00	0.30R>S	70 - 130	X449127 - X4K0435-06	09-Dec-24	M4
EPA 200.8	Antimony	mg/L	0.0320	<0.0100	0.0250	95.1	70 - 130	X450005 - X4K0435-01	13-Dec-24	D17
EPA 200.8	Antimony	mg/L	0.0231	<0.00100	0.0250	92.5	70 - 130	X450005 - X4L0090-01	13-Dec-24	
EPA 200.8	Arsenic	mg/L	0.577	0.548	0.0250	115	70 - 130	X450005 - X4K0435-01	13-Dec-24	D17
EPA 200.8	Arsenic	mg/L	0.0295	<0.00100	0.0250	115	70 - 130	X450005 - X4L0090-01	13-Dec-24	
EPA 200.8	Selenium	mg/L	0.0561	0.0354	0.0250	82.8	70 - 130	X450005 - X4K0435-01	13-Dec-24	D17
EPA 200.8	Selenium	mg/L	0.0294	<0.00100	0.0250	118	70 - 130	X450005 - X4L0090-01	13-Dec-24	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 16 of 19

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0435**

Reported: 13-Dec-24 14:58

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
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Metals (Dissolved) (Continued)

EPA 200.8	Thallium	mg/L	0.0265	<0.00200	0.0250	106	70 - 130	X450005 - X4K0435-01	13-Dec-24	D17
EPA 200.8	Thallium	mg/L	0.0297	<0.000200	0.0250	119	70 - 130	X450005 - X4L0090-01	13-Dec-24	
EPA 200.8	Uranium	mg/L	6.81	6.77	0.0250	0.30R>S	70 - 130	X450005 - X4K0435-01	13-Dec-24	D17,M4
EPA 200.8	Uranium	mg/L	0.0301	0.000277	0.0250	119	70 - 130	X450005 - X4L0090-01	13-Dec-24	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00201	<0.000200	0.00200	100	70 - 130	X449085 - X4K0366-02	06-Dec-24	
EPA 245.1	Mercury	mg/L	0.00198	<0.000200	0.00200	98.8	70 - 130	X449085 - X4K0407-01	06-Dec-24	

Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0880	<0.0050	0.100	88.0	79 - 121	X449156 - X4K0407-01	05-Dec-24	R4
EPA 335.4	Cyanide (total)	mg/L	0.0920	<0.0050	0.100	92.0	90 - 110	X449001 - X4K0390-04	03-Dec-24	
EPA 335.4	Cyanide (total)	mg/L	0.0900	<0.0050	0.100	90.0	90 - 110	X449001 - X4K0390-03	03-Dec-24	
EPA 350.1	Ammonia as N	mg/L	1.51	0.511	1.00	99.5	90 - 110	X449065 - X4K0435-02	04-Dec-24	
EPA 350.1	Ammonia as N	mg/L	1.10	0.041	1.00	106	90 - 110	X449065 - X4K0435-01	04-Dec-24	
OIA 1677	Cyanide (WAD)	mg/L	0.106	<0.0050	0.100	106	82 - 118	X449038 - X4K0357-01	02-Dec-24	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	5.53	4.86	3.00	22.3	90 - 110	X448108 - X4K0442-01	27-Nov-24	M2
EPA 300.0	Fluoride	mg/L	2.04	0.125	2.00	95.6	90 - 110	X448108 - X4K0442-01	27-Nov-24	
EPA 300.0	Nitrate as N	mg/L	3.05	1.08	2.00	98.4	90 - 110	X448108 - X4K0442-01	27-Nov-24	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.02	1.08	4.00	98.5	90 - 110	X448108 - X4K0442-01	27-Nov-24	
EPA 300.0	Nitrite as N	mg/L	1.97	<0.050	2.00	98.6	90 - 110	X448108 - X4K0442-01	27-Nov-24	
EPA 300.0	Sulfate as SO4	mg/L	61.2	52.8	10.0	0.30R>S	90 - 110	X448108 - X4K0442-01	27-Nov-24	M4

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Calcium	mg/L	80.3	84.9	20.0	6.0	20	86	X449108 - X4K0409-01	
EPA 200.7	Magnesium	mg/L	28.3	27.7	20.0	2.1	20	109	X449108 - X4K0409-01	
EPA 200.7	Potassium	mg/L	39.2	40.6	20.0	3.3	20	104	X449108 - X4K0409-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	827	768	1.00	7.4	20	0.30R>S	X449127 - X4K0435-06	M3
EPA 200.7	Barium	mg/L	0.674	0.720	1.00	6.5	20	65.7	X449127 - X4K0435-06	M2
EPA 200.7	Beryllium	mg/L	1.26	1.18	1.00	6.6	20	106	X449127 - X4K0435-06	
EPA 200.7	Boron	mg/L	1.09	1.02	1.00	7.1	20	106	X449127 - X4K0435-06	
EPA 200.7	Cadmium	mg/L	2.71	2.49	1.00	8.4	20	103	X449127 - X4K0435-06	
EPA 200.7	Calcium	mg/L	523	524	20.0	0.2	20	0.30R>S	X449127 - X4K0435-06	M3
EPA 200.7	Chromium	mg/L	1.15	1.04	1.00	9.4	20	99.2	X449127 - X4K0435-06	
EPA 200.7	Cobalt	mg/L	4.68	4.33	1.00	7.8	20	109	X449127 - X4K0435-06	
EPA 200.7	Copper	mg/L	5.16	4.79	1.00	7.3	20	128	X449127 - X4K0435-06	
EPA 200.7	Iron	mg/L	75.4	75.6	10.0	0.2	20	123	X449127 - X4K0435-06	
EPA 200.7	Lead	mg/L	1.05	0.974	1.00	7.9	20	85.8	X449127 - X4K0435-06	
EPA 200.7	Lithium	mg/L	1.68	1.57	1.00	6.9	20	139	X449127 - X4K0435-06	M1
EPA 200.7	Magnesium	mg/L	603	561	20.0	7.2	20	0.30R>S	X449127 - X4K0435-06	M3
EPA 200.7	Manganese	mg/L	217	216	1.00	0.5	20	0.30R>S	X449127 - X4K0435-06	M4
EPA 200.7	Molybdenum	mg/L	0.985	0.897	1.00	9.4	20	98.5	X449127 - X4K0435-06	
EPA 200.7	Nickel	mg/L	4.21	3.89	1.00	7.8	20	108	X449127 - X4K0435-06	
EPA 200.7	Potassium	mg/L	31.3	31.5	20.0	0.8	20	110	X449127 - X4K0435-06	
EPA 200.7	Silver	mg/L	0.0418	0.0408	0.0500	2.4	20	83.7	X449127 - X4K0435-06	

SVL holds the following certifications:

AZ:0538, ID:ID00019, NV:ID000192007A, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 17 of 19

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X4K0435**

Reported: 13-Dec-24 14:58

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Sodium	mg/L	143	144	19.0	0.4	20	124	X449127 - X4K0435-06	
EPA 200.7	Vanadium	mg/L	1.04	0.942	1.00	9.6	20	104	X449127 - X4K0435-06	
EPA 200.7	Zinc	mg/L	78.0	75.7	1.00	3.0	20	0.30R>S	X449127 - X4K0435-06	M4
EPA 200.8	Antimony	mg/L	0.0330	0.0320	0.0250	3.0	20	99.0	X450005 - X4K0435-01	D17
EPA 200.8	Arsenic	mg/L	0.591	0.577	0.0250	2.4	20	0.30R>S	X450005 - X4K0435-01	D17,M4
EPA 200.8	Selenium	mg/L	0.0571	0.0561	0.0250	1.8	20	86.8	X450005 - X4K0435-01	D17
EPA 200.8	Thallium	mg/L	0.0276	0.0265	0.0250	3.8	20	110	X450005 - X4K0435-01	D17
EPA 200.8	Uranium	mg/L	6.93	6.81	0.0250	1.8	20	0.30R>S	X450005 - X4K0435-01	D17,M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00208	0.00201	0.00200	3.4	20	104	X449085 - X4K0366-02	
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.0990	0.0880	0.100	11.8	11	99.0	X449156 - X4K0407-01	R4
EPA 335.4	Cyanide (total)	mg/L	0.0927	0.0920	0.100	0.8	20	92.7	X449001 - X4K0390-04	
EPA 350.1	Ammonia as N	mg/L	1.47	1.51	1.00	2.4	20	95.9	X449065 - X4K0435-02	
OIA 1677	Cyanide (WAD)	mg/L	0.107	0.106	0.100	0.9	11	107	X449038 - X4K0357-01	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	5.60	5.53	3.00	1.3	20	24.7	X448108 - X4K0442-01	M2
EPA 300.0	Fluoride	mg/L	2.09	2.04	2.00	2.6	20	98.2	X448108 - X4K0442-01	
EPA 300.0	Nitrate as N	mg/L	3.09	3.05	2.00	1.4	20	101	X448108 - X4K0442-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.11	5.02	4.00	1.9	20	101	X448108 - X4K0442-01	
EPA 300.0	Nitrite as N	mg/L	2.02	1.97	2.00	2.7	20	101	X448108 - X4K0442-01	
EPA 300.0	Sulfate as SO4	mg/L	61.3	61.2	10.0	0.2	20	0.30R>S	X448108 - X4K0442-01	M4



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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: **X4K0435**

Reported: 13-Dec-24 14:58

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.
E11	Sample exceeds method-specified limit for solids content.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q12	Sample was received and analyzed with pH <12.
Q5C	After two pH adjustments, the method-specified pH was not achieved.
R2B	RPD exceeded the laboratory acceptance limit.
R4	MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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Attachment 2

Sampling Logs

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

Location: Emp-016

Date: 11/20/24

Technician: T. Reed

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
11:22		Frozen		

Sample Method: _____

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 33° Sunny

Signature: [Signature]

Comments / Notes:

Emp-16 is frozen. Not able to sample.

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

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

Location: EMP-17

Date: 11/20/24

Technician: T. Reed

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
1:25	_____	Frozen	_____	_____

Sample Method: _____

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 34° Sunny

Signature: [Signature]

Comments / Notes:

EMP-17 is frozen, Not able to sample.

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

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

Location: Emp-17A

Date: 11/20/20

Technician: T. Reed

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
1:30		Frozen		

Sample Method: _____

Oil/Gas visible

~~[Y+N]~~

Turbid

~~[Y+N]~~

Clear

[Y+N]

Weather:

34° Sunny

Signature:

T. Reed

Comments / Notes:

Emp-17A is frozen. Not able to sample.

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

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

Location: Emp 17BDate: 11/20/24Technician: T. Reed.Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
11:35	_____	Frozen	_____	_____

Sample Method: Oil/Gas visible ~~[Y/N]~~Turbid ~~[Y/N]~~Clear ~~[Y/N]~~Weather: 34° SunnySignature: **Comments / Notes:**

Emp- 17B is frozen. Not able to sample.

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

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

Location: EMP-20

Date: 11/20/20

Technician: J. Reed

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
1:42		Frozen		

Sample Method: _____

Oil/Gas visible

~~{Y/N}~~

Turbid

~~{Y/N}~~

Clear

~~{Y/N}~~

Weather: 34° sunny

Signature: 

Comments / Notes:

EMP-20 is frozen. Not able to sample.

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

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

Location: 6V-02

Date: 11/18/24

Technician: T. Reed

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:52	_____	Frozen	_____	_____

Sample Method: _____

Oil/Gas visible **{Y+ N}**

Turbid **{YTN}**

Clear **{Y+ N}**

Weather: 300 overcast
~~sun~~

Signature: [Signature]

Comments / Notes:

6V02 is frozen. Not able to sample.

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

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

Location: 6U-03

Date: 11/18/24

Technician: T. Reed

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:46	<u> </u>	<u>Frozen</u>	<u> </u>	<u> </u>

Sample Method:

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

Turbid ~~[Y+N]~~

Clear ~~[Y+N]~~

Weather: 30° Overcast

Signature: *T. Reed*

Comments / Notes:

6U-03 is frozen. Not able to sample.

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

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

Location: GV: 4.5

Date: 11/18/21

Technician: T. Reed

Quarter: M

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:40	<u> </u>	<u>Frozen</u>	<u> </u>	<u> </u>

Sample Method: 1

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

Turbid ~~[Y+N]~~

Clear ~~[Y+N]~~

Weather: 30° overcast

Signature: *T. Reed*

Comments / Notes:

GV-4.5 is frozen - not able to sample.

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

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

Location: 6V-05

Date: 11/18/24

Technician: T. Reed

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:34	<u> </u>	<u>Frozen</u>	<u> </u>	<u> </u>

Sample Method:

Oil/Gas visible ~~{Y+N}~~

Turbid ~~{Y+N}~~

Clear ~~{Y+N}~~

Weather: 30° Sunny

Signature: 

Comments / Notes:

6V. 05 is frozen. Not able sample.

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

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

Location: 6V-06

Date: 11/18/24

Technician: T. Reed

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:30		Frozen		

Sample Method:

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 30° overcast

Signature: 

Comments / Notes:

6V-06 is ~~dry~~ ^{Frozen}. Not able to sample.

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

Inaccessible due to snow

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley Date: 11/11/24
 Technician: J. Crawford Quarter: 4
 Static Water Level (DTW): 29.57 Well ID: Gmw-7A
 Is well Dry? no If so Dry at: — Well Depth (TD): 200
 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
8:35			6.57	524.0	1.6	6.40	213.9	
8:40	29.60	0.03	6.89	422.6	1.9	4.68	158.8	
8:45	29.65	0.05	7.18	405.7	2.1	3.74	96.0	0.13 L/m
8:50	29.67	0.02	7.19	396.8	2.4	3.30	69.1	
8:55	29.69	0.02	7.22	390.4	2.1	2.97	55.4	
9:00	29.69	0.00	7.31	385.5	2.1	2.83	43.1	
9:05	29.69	0.00	7.34	383.5	2.2	2.79	36.2	
9:10	29.69	0.00	7.36	342.7	2.3	2.72	28.9	
9:15	29.69	0.00	7.38	339.3	2.3	2.63	20.8	
9:20	29.69	0.00	7.37	339.5	2.3	2.61	14.6	
9:25	29.69	0.00	7.40	343.9	2.4	2.55	10.1	
9:30	29.69	0.00	7.41	344.4	2.4	2.52	6.6	
Total Drawdown								
		0.12						

Sample Method: low-flow Rate (gpm): 0.03 Time Start: 8:35 Time End: 9:30
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	7.41	Y / N	
Conductivity	344.4	Y / N	
Temp (deg C)	2.4	Y / N	
Dissolved Oxygen	2.52	Y / N	
Turbidity	—	Y / N	
Oxidation/Reduction Potential	6.5	Y / N	
DTW Stabilized	29.69	Y / N	
Final H2O level	29.69	Y / N	

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

O/G visible: Y / N Turbid? Y / N
 Equipment Decontaminated: Y / N
 Decontamination procedure used: Triple rinse; liquid - kex

Weather: 34°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: <u>use 5 gal bucket</u>

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley Date: 11/11/24
Technician: J. Cranford Quarter: 4
Static Water Level (DTW): 26.67 Well ID: GLMW-7B
Is well Dry? no If so Dry at: _____ Well Depth (TD): 50 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:55			6.79	711.2	2.8	11.36	116.4	
10:00	26.84	0.13	6.67	640.5	3.0	11.74	133.0	
10:05	26.76	0.02	6.65	684.1	3.4	11.06	141.7	0.284/m
10:10	26.76	0.00	6.62	678.4	3.5	10.87	150.4	
10:15	26.79	0.03	6.58	664.8	3.6	10.80	162.7	
10:20	26.79	0.00	6.55	653.0	3.7	10.77	167.7	
10:25	26.79	0.00	6.57	624.0	3.7	10.13	172.7	
10:30	26.79	0.00	6.45	546.8	3.7	9.89	180.3	
10:35	26.79	0.00	6.42	488.2	3.7	9.25	184.4	
10:40	26.79	0.00	6.42	435.4	3.7	9.30	187.6	
10:45	26.79	0.00	6.40	468.4	3.7	9.53	190.8	
10:50	26.79	0.00	6.39	409.6	3.7	9.36	198.1	
Total Drawdown								
0.18								

Sample Method: low-flow Rate (gpm): 0.07 Time Start: 9:55 Time End: 10:50
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.39	±0.1 (Y) / N	
Conductivity	468.6	3% (Y) / N	
Temp (deg C)	3.7	3% (Y) / N	
Dissolved Oxygen	9.35	10% (Y) / N	
Turbidity		10% (Y) / N	
Oxidation/Reduction Potential	198.1	±10 (Y) / N	
DTW Stabilized	26.79	feet (Y) / N	
Final H2O level	26.79	feet	

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): _____ Actual vol. pumped (gal) ~ 5.5
* See Field Volume Guide following stabilization

O/G visible: Y / (N) Turbid? Y / (N)
Equipment Decontaminated: Y / N
Decontamination procedure used: sample rinse, Liquid-100X

Weather: 38°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: $h(ft) = \text{Total Depth}(TD)(ft) - \text{Depth to Water}(DTW)(ft)$	
Well Volume Purge Method: Three Well Volumes = $3 * V$	
Conversions:	Show Calculations:
1ft ³ = 7.48 gal	
1gal = 3.785 L	

use 5 gal bucket

use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Crossy Valley

Date: 11/20/24

Technician: T. Reed

Quarter: 4

Static Water Level (DTW): 37.0

Well ID: CUMW-8B

Is well Dry? No

If so Dry at: —

Well Depth (TD): 50.6
feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:18			6.93	1463	0.3	19.79	248.4	
9:23	37.15	0.15	6.30	889.7	1.3	14.79	232.7	0.36/m
9:28	37.25	0.10	6.62	598.2	1.3	12.57	198.2	
9:33	37.30	0.05	6.64	512.3	2.2	12.05	184.2	
9:38	37.32	0.02	6.66	520.5	2.2	11.78	163.6	
9:43	37.32	0.00	6.68	520.9	2.1	11.40	155.5	
Total Drawdown								
		0.32						

Sample Method: Low Flow Rate (gpm): 0.07 Time Start: 9:18 Time End: 9:43
* Flow rate at stabilization (during sample collection)

Final Parameters	Stabilization Guidance	Met?	Comments
pH	6.68	Y / N	
Conductivity	520.9	Y / N	
Temp (deg C)	2.1	Y / N	
Dissolved Oxygen	11.40	Y / N	
Turbidity	—	Y / N	
Oxidation/Reduction	185.5	Y / N	
DTW Stabilized	37.32	Y / N	
Final H2O level	37.32	Y / N	

If Low Flow Met Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): — Actual vol. pumped (gal): 2.1
* See Field Volume Guide following stabilization

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

Weather: 78° 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:
1ft³ = 7.48 gal
1gal = 3.785 L

Show Calculations:
Use 5gal Bucket

[Handwritten notes and signatures on the right margin]

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:	Show Calculations:
$1ft^3 = 7.48\ gal$	
$1gal = 3.785\ L$	
Inaccessible due to snow	

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley Date: 11/21/24
Technician: J. Cranford Quarter: 4
Static Water Level (DTW): 91.82 Well ID: 6VW-15A
Is well Dry? no If so Dry at: — Well Depth (TD): 820 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
8:15			6.33	516.4	1.4	10.74	142.3	
8:20	92.51	0.69	6.39	508.8	1.7	4.89	160.4	
8:25	92.60	0.09	6.43	501.3	1.7	4.28	141.2	0.29 L/m
8:30	92.64	0.04	6.44	499.2	1.8	4.02	124.2	
8:35	92.66	0.02	6.47	506.3	1.8	3.88	111.6	
8:40	92.70	0.04	6.48	502.8	2.0	3.82	104.6	
8:45	92.74	0.0	6.46	502.1	2.0	3.89	100.3	
8:50	92.71	0.00	6.45	501.8	2.0	3.83	97.3	
Total Drawdown								
0.89								

Sample Method: low flow Rate (gpm): 0.07 Time Start: 8:15 Time End: 8:50
* Flow rate at stabilization (during sample collection)

Final Parameters	Stabilization Guidance	Met?	Comments
pH	6.45	±0.1	(Y) / N
Conductivity	501.8	3%	(Y) / N
Temp (deg C)	2.6	3%	(Y) / N
Dissolved Oxygen	3.83	10%	(Y) / N
Turbidity		10%	(Y) / N
Oxidation/Reduction	97.3	±10	(Y) / N
DTW Stabilized	92.71	feet	(Y) / N
Final H2O level	92.71	feet	

If Low Flow Met Drawdown greater than 0.33 ft? (Y) / N If yes, required pump vol (gal): 2.63 Actual vol. pumped (gal) 3.50
* See Field Volume Guide following stabilization

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

Weather: 33°F, 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: 1ft³ = 7.48 gal 1gal = 3.785 L	Show Calculations: <u>0.89 * 1.74 = 2.63</u> <u>use 5 gal bucket</u>

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grossy valley Date: 11/21/24
Technician: S. Crawford Quarter: 4
Static Water Level (DTW): 80.02 Well ID: GLW-15B
Is well Dry? no If so Dry at: 102 Well Depth (TD): 102 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:30			4.78	580.0	1.2	5.14	141.6	
9:35	80.24	0.22	4.77	576.3	2.1	3.99	140.2	
9:40	80.24	0.00	4.74	581.6	2.1	3.69	141.2	0.45 1/m
9:45	80.24	0.00	4.72	589.0	2.2	3.67	143.5	
9:50	80.25	0.01	4.71	592.9	2.2	3.66	144.7	
9:55	80.25	0.00	4.69	601.9	2.2	3.67	146.9	
Total Drawdown								
0.23								

Sample Method: low-flow Rate (gpm): 100.11 Time Start: 9:30 Time End: 9:55
* Flow rate at stabilization (during sample collection)

Final Parameters	Stabilization Guidance	Met?	Comments
pH	4.69	Y / N	
Conductivity	601.9	Y / N	
Temp (deg C)	2.2	Y / N	
Dissolved Oxygen	3.67	Y / N	
Turbidity	10%	Y / N	
Oxidation/Reduction	146.9	Y / N	
DTW Stabilized	80.25	Y / N	
Final H2O level	80.25	Y / N	

If Low Flow Met Drawdown greater than 0.33 ft? Y / (N) If yes, required pump vol (gal): 2,75 Actual vol. pumped (gal) 2,75
* See Field Volume Guide following stabilization

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

Weather: 35°F, 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: <u>use 5 gal bucket</u>

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grossv valley

Date: 11/18/24

Technician: J. Cranford

Quarter: 4

Static Water Level (DTW): 3.30

Well ID: 6VMW-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
9:30			6.66	596.2	2.0	7.41	211.1	
9:35	3.75	0.45	7.39	347.2	2.5	8.05	101.3	
9:40	4.30	0.25	7.69	334.2	2.2	2.79	72.8	0.11 L/m
9:45	4.70	0.40	7.74	337.4	1.6	2.60	49.8	
9:50	4.82	0.12	7.80	338.9	1.9	2.49	30.0	
9:55	4.82	0.00	7.80	344.0	1.6	2.47	29.9	
10:00	4.82	0.00	7.81	344.2	1.6	2.59	19.5	
10:05	4.82	0.00	7.85	347.8	1.6	2.46	11.8	
10:10	4.82	0.00	7.86	342.5	1.6	2.43	8.8	
Total Drawdown								
1.22								

Sample Method: low-flow

Rate (gpm): 0.02

Time Start: 9:30

Time End: 10:10

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	7.86	Y / N	
Conductivity	342.5	Y / N	
Temp (deg C)	1.6	Y / N	
Dissolved Oxygen	2.43	Y / N	
Turbidity		Y / N	
Oxidation/Reduction Potential	8.8	Y / N	
DTW Stabilized	4.82	Y / N	
Final H2O level	4.82		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N

* See Field Volume Guide

If yes, required pump vol (gal): 2.32

Actual vol. pumped (gal)

~2.75

O/G visible:

Equipment Decontaminated:

Turbid?

Y / N

Decontamination procedure used:

Triple rinse, Liquid-100X

Weather:

30° Sunny

Signature:

[Signature]

Volume Calculations:

For 2" Diameter Well (gal): $V(gal) = 0.1632 \cdot h(ft)$

For 4" Diameter Well (gal): $V(gal) = 0.6528 \cdot h(ft)$

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

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

Well Volume Purge Method: $\text{Three Well Volumes} = 3 \cdot V$

Conversions:

$1ft^3 = 7.48 gal$

$1gal = 3.785 L$

Show Calculations:

$1.72 + 1.1 = 2.82$

use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 11/18/24
Technician: S. Cranford Quarter: 4
Static Water Level (DTW): 4.54 Well ID: GVMW-22B
Is well Dry? ~~4.54~~ no If so Dry at: — Well Depth (TD): 30 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:20			6.12	870.0	3.1	6.89	228.0	
11:25	4.72	0.18	6.58	340.3	3.4	3.12	141.6	
11:30	4.72	0.00	6.73	336.0	3.4	2.53	156.5	0.56 u/m
11:35	4.74	0.02	6.71	332.4	3.5	2.44	150.4	
11:40	4.74	0.00	6.79	331.8	3.5	2.63	150.2	
11:45	4.74	0.00	6.73	331.6	3.6	2.46	148.1	
Total Drawdown								
0.20								

Sample Method: low-flow Rate (gpm): 0.14 Time Start: 11:20 Time End: 11:45
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.73	±0.1	(Y) / N
Conductivity	331.6	3%	(Y) / N
Temp (deg C)	3.6	3%	(Y) / N
Dissolved Oxygen	2.46	10%	(Y) / N
Turbidity		10%	(Y) / N
Oxidation/Reduction Potential	148.1	±10	(Y) / N
DTW Stabilized	4.74	feet	(Y) / N
Final H2O level	4.74	feet	

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

O/G visible: (Y) / (N) Turbid? (Y) / (N)
Equipment Decontaminated: (Y) / (N)
Decontamination procedure used: Triple rinse, Liquid-100X

Weather: 37° 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: use 5 gal bucket

Volume Calculations:	
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$	For 4" Diameter Well (gal): $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$	
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$	
Well Volume Purge Method: $Three\ Well\ Volumes = 3 * V$	
Conversions: $1ft^3 = 7.48\ gal$ $1gal = 3.785\ L$	Show Calculations: No sample due to extreme silt in water. Pump was not able to pump any water.

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley

Date: 11/18/24

Technician: S. Cranford

Quarter: 4

Static Water Level (DTW): 93.53

Well ID: 6VMW-24B

Is well Dry? no

If so Dry at: —

Well Depth (TD): 100
feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
1:10			6.84	2227	0.8	6.44	218.9	
1:15	93.80	0.27	6.96	2240	1.1	4.91	216.8	
1:20	93.80	0.00	7.00	2247	1.8	3.93	213.4	0.29 L/m
1:25	93.83	0.03	6.99	2252	1.8	3.57	207.8	
1:30	93.83	0.00	7.01	2254	1.8	3.50	203.3	
1:35	93.83	0.00	7.00	2253	1.8	3.23	198.0	
1:40	93.83	0.00	6.99	2254	1.8	3.19	194.1	
Total Drawdown								
0.30								

Sample Method: low-flow

Rate (gpm): 0.07

Time Start: 1:10

Time End: 1:40

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.99	Y / N	
Conductivity	2254	Y / N	
Temp (deg C)	1.8	Y / N	
Dissolved Oxygen	3.19	Y / N	
Turbidity		Y / N	
Oxidation/Reduction Potential	194.1	Y / N	
DTW Stabilized	93.83	Y / N	
Final H2O level	93.83		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N

* See Field Volume Guide

If yes, required pump vol (gal): —

Actual vol. pumped (gal): — 2

following stabilization

O/G visible: Y / N

Turbid? Y / N

Equipment Decontaminated: Y / N

Decontamination procedure used: Triple rinse, Liquid-knox

Weather: 40° Sunny

Signature: [Signature]

Volume Calculations:

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

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

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

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

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

Conversions:

$1ft^3 = 7.48\ gal$

$1gal = 3.785\ L$

Show Calculations:

use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 11/20/24
 Technician: T. Reed Quarter: 4
 Static Water Level (DTW): 54.15 Well ID: 6VMW-25
 Is well Dry? No If so Dry at: — 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
10:32			3.43	8007	1.5	4.93	295.8	
10:37	54.46	0.31	3.52	8291	2.3	3.66	357.8	
10:42	54.46	0.00	3.52	8286	2.4	3.67	382.0	0.4 L/M
10:47	54.51	0.05	3.57	8274	2.5	3.81	404.1	
10:52	54.56	0.05	3.52	8032	2.4	4.39	423.5	
10:57	54.60	0.04	3.50	7466	2.5	5.00	454.3	
11:02	54.60	0.00	3.50	8044	2.4	6.21	472.7	
11:07	54.60	0.00	3.50	8074	2.4	6.89	485.4	
11:12	54.60	0.00	3.52	8083	2.3	6.83	490.3	
11:17	54.60	0.00	3.51	8157	2.3	6.48	495.3	
Total Drawdown								
0.45								

Sample Method: Low Flow Rate (gpm): 0.12 Time Start: 10:32 Time End: 11:17
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	3.5'	Y / N	
Conductivity	8157	Y / N	
Temp (deg C)	2.3	Y / N	
Dissolved Oxygen	6.48	Y / N	
Turbidity	—	Y / N	
Oxidation/Reduction	495.3	Y / N	
DTW Stabilized	54.60	Y / N	
Final H2O level	54.60		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): 1015 Actual vol. pumped (gal): 29.5 gal
 * See Field Volume Guide following stabilization

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

Weather: 32° 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: <u>0.45 + 0.45 + 0.25 = 1.15</u> <u>Use 5gal Bucket</u>

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location :

Grassy valley

Date:

11/19/24

Technician:

S. Crumford

Quarter:

4

Static Water Level (DTW):

6.72

Well ID:

GVMW-264

Is well Dry?

no

If so Dry at:

Well Depth (TD):

71

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
8:18			7.16	552.2	0.7	4.11	64.2	
8:23	6.72	0.00	7.18	539.4	0.7	3.44	60.2	
8:28	6.75	0.03	7.76	567.5	0.6	3.31	61.0	0.264m
8:33	6.80	0.05	7.74	566.0	0.5	3.21	60.2	
8:38	6.80	0.00	7.88	563.6	0.5	3.26	61.5	
8:43	6.80	0.00	7.83	566.2	0.5	3.33	63.3	
Total Drawdown								
0.08								

Sample Method: low flow

Rate (gpm): 0.06

Time Start: 8:18

Time End: 8:43

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	7.83	±0.1	Y / N
Conductivity	566.2	3%	Y / N
Temp (deg C)	0.6	3%	Y / N
Dissolved Oxygen	3.33	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction	63.3	±10	Y / N
DTW Stabilized	6.80	feet	Y / N
Final H2O level	6.80	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

O/G visible:

Y / (N)

Turbid?

Y / (N)

Equipment Decontaminated:

(Y) / N

Decontamination procedure used:

Triple Rinse, High Flow

Weather:

20° F, Sunny

Signature:

Volume Calculations: For 2" Diameter Well (gal): $V(gal) = 0.1632 \cdot h(ft)$ For 4" Diameter Well (gal): $V(gal) = 0.6528 \cdot h(ft)$ Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 \cdot (r(in))^2 \cdot h(ft)$ Water Column Calculation: $h(ft) = \text{Total Depth}(TD)(ft) - \text{Depth to Water}(DTW)(ft)$ 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

use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 11/20/24
Technician: T. Reed Quarter: 4
Static Water Level (DTW): 56.43 Well ID: 60mu-27
Is well Dry? no If so Dry at: — Well Depth (TD): 74.28 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
11:52			4.22	4891	1.5	15.96	312.9	
11:57	56.68	0.23	3.32	4883	2.2	7.36	331.2	
12:02	56.68	0.00	4.19	4880	2.3	7.50	322.5	0.41 L/m
12:07	56.68	0.00	4.19	4822	2.2	8.11	300.7	
12:12	56.68	0.00	4.20	4729	2.2	8.63	300.2	
12:17	56.68	0.00	4.21	4702	2.1	8.81	296.3	
Total Drawdown								
0.23								

Sample Method: Gvab Rate (gpm): 0.11 Time Start: 11:52 Time End: 12:17
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	4.21	Y / N	
Conductivity	4702	Y / N	
Temp (deg C)	2.1	Y / N	
Dissolved Oxygen	8.81	Y / N	
Turbidity	—	Y / N	
Oxidation/Reduction	296.3	Y / N	
DTW Stabilized	56.68	Y / N	
Final H2O level	56.68		

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: Triple Rinse liquid knox

Weather: 360 Sun X
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:
1ft³ = 7.48 gal
1gal = 3.785 L

Show Calculations:
use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 11/26/24
 Technician: J. Cranford Quarter: 4
 Static Water Level (DTW): 36.01 Well ID: GVMW-28
 Is well Dry? no If so Dry at: — Well Depth (TD): 71.56 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:05			2.74	11114	1.4	7.64	503.5	
10:10	36.14	1.13	2.71	11095	1.6	7.57	506.1	
10:15	36.27	0.13	2.74	11054	1.7	7.31	508.6	0.24 L/m
10:20	36.34	0.07	2.71	11064	1.8	7.19	512.2	
10:25	36.45	0.11	2.74	11050	1.7	7.36	514.7	
10:30	36.45	0.00	2.73	11035	1.07	7.52	515.9	
Total Drawdown								
1.44								

Sample Method: low-flow Rate (gpm): 0.06 Time Start: 10:05 Time End: 10:30
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	2.73	Y / N	
Conductivity	11035	Y / N	
Temp (deg C)	1.7	Y / N	
Dissolved Oxygen	7.52	Y / N	
Turbidity		Y / N	
Oxidation/Reduction	515.9	Y / N	
DTW Stabilized	36.45	Y / N	
Final H2O level	36.45		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): 2.74 Actual vol. pumped (gal): 3.25
 * See Field Volume Guide following stabilization

O/G visible: Y / N Turbid? Y / N - slightly
 Equipment Decontaminated: Y / N Triple rinse, Liquid-100X
 Decontamination procedure used: _____

Weather: 31° 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: $1.44 + 0.40 + 0.90 = 2.74$ <u>use 5 gal bucket</u>

used sound wuz 11 is Dry

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: Not enough water, insufficient to pump

well is Dry

Show calculations:

Show Calculations:

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

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grossy valley Date: 11/19/24
 Technician: S. Cronford Quarter: 4
 Static Water Level (DTW): 36.26 Well ID: GUM-374
 Is well Dry? no If so Dry at: — 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
11:27			8.22	1130	1.2	4.98	175.4	
11:32	37.00	0.74	8.80	1122	1.6	3.73	172.4	
11:37	37.12	0.12	8.90	1126	1.4	3.60	171.0	0.57 L/m
11:42	37.15	0.03	8.92	1120	1.4	3.33	169.5	
11:47	37.15	0.00	8.90	1121	1.4	3.29	169.6	
11:52	37.15	0.00	8.91	1120	1.4	3.28	167.1	
Total Drawdown								
0.89								

Sample Method: low-flow Rate (gpm): 0.15 Time Start: 11:27 Time End: 11:52
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	8.91	Y / N	
Conductivity	1120	Y / N	
Temp (deg C)	1.4	Y / N	
Dissolved Oxygen	3.28	Y / N	
Turbidity	10%	Y / N	
Oxidation/Reduction	167.1	Y / N	
DTW Stabilized	37.15	Y / N	
Final H2O level	37.16		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): 2.63 Actual vol. pumped (gal) ~ 6.25
 * See Field Volume Guide following stabilization

O/G visible: Y / N Turbid? Y / N
 Equipment Decontaminated: Y / N
 Decontamination procedure used: triple rinse, Liquid-kenox

Weather: 22° F, 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: 1ft³ = 7.48 gal 1gal = 3.785 L	Show Calculations: $0.89 + 1.14 + 0.6 = 2.63$ use 5 gal bucket

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 11/19/24
Technician: S. Cranford Quarter: 4
Static Water Level (DTW): 35.57 Well ID: GUMW-37B
Is well Dry? no If so Dry at: — Well Depth (TD): 74.89 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
12:15			8.27	115	1.6	3.70	-106.8	
12:20	36.17	0.60	8.17	1045	1.9	3.44	-106.5	
12:25	36.20	0.03	7.99	896.0	2.0	3.60	-135.7	0.46 L/m
12:30	36.24	0.04	7.92	837.1	2.0	3.88	-108.9	
12:35	36.27	0.03	7.88	823.7	2.1	3.96	-88.8	
12:40	36.27	0.00	7.84	826.0	2.1	4.05	-74.1	
12:45	36.27	0.00	7.85	817.4	2.0	4.03	-62.5	
12:50	36.27	0.00	7.85	819.7	2.1	4.01	-58.0	
12:55	36.27	0.00	7.85	823.9	2.1	4.00	-53.7	
Total Drawdown								
0.70								

Sample Method: low-flow Rate (gpm): 0.12 Time Start: 12:15 Time End: 12:55
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	7.85	Y / N	
Conductivity	823.9	Y / N	
Temp (deg C)	2.1	Y / N	
Dissolved Oxygen	4.00	Y / N	
Turbidity		Y / N	
Oxidation/Reduction	-53.7	Y / N	
DTW Stabilized	36.27	Y / N	
Final H2O level	36.27		

If Low Flow Met Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): 1.6 Actual vol. pumped (gal): 5
* See Field Volume Guide following stabilization

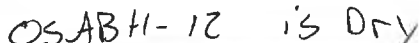
O/G visible: Y / N Turbid? Y / N - slightly
Equipment Decontaminated: Y / N
Decontamination procedure used: Triple rinse, Liquid-Ionox

Weather: 22°, Sunny
Signature: [Signature]

Volume Calculations:	
For 2" Diameter Well (gal): $V(gal) = 0.1632 \cdot h(ft)$	For 4" Diameter Well (gal): $V(gal) = 0.6528 \cdot h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 \cdot (r(in))^2 \cdot h(ft)$	
Water Column Calculation: $h(ft) = \text{Total Depth}(TD)(ft) - \text{Depth to Water}(DTW)(ft)$	
Well Volume Purge Method: Three Well Volumes = $3 \cdot V$	
Conversions: 1 ft ³ = 7.48 gal 1 gal = 3.785 L	Show Calculations: $0.7 + 0.4 + 0.5 = 1.6$ use 5 gal bucket

Duplicate of GVMN-224

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: 

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

OSABH-18 is Dr

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

Location: RB-1118

Date: 11/18/24

Technician: J. Cranford

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chlorine
11:09	8.35	3.02	1.6	260	—

Sample Method: Grab

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 37° Sunny

Signature: [Signature]

Comments / Notes:

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

Location: Seep-1

Date: 11/20/24

Technician: J. Reed

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
1:12	<u> </u>	<u>Frozen</u>	<u> </u>	<u> </u>

Sample Method:

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

Turbid ~~[Y+N]~~

Clear ~~[Y+N]~~

Weather: 32° Sunny

Signature: 

Comments / Notes:

Seep-1 is Frozen not able to sample.

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

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

Location: Seep-2

Date: 11/20/2011

Technician: T. Reed

Quarter: 4

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
11:15	_____	Frozen		

Sample Method: _____

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 33° Sunny

Signature: 

Comments / Notes:

Seep -2 is frozen not able to sample

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



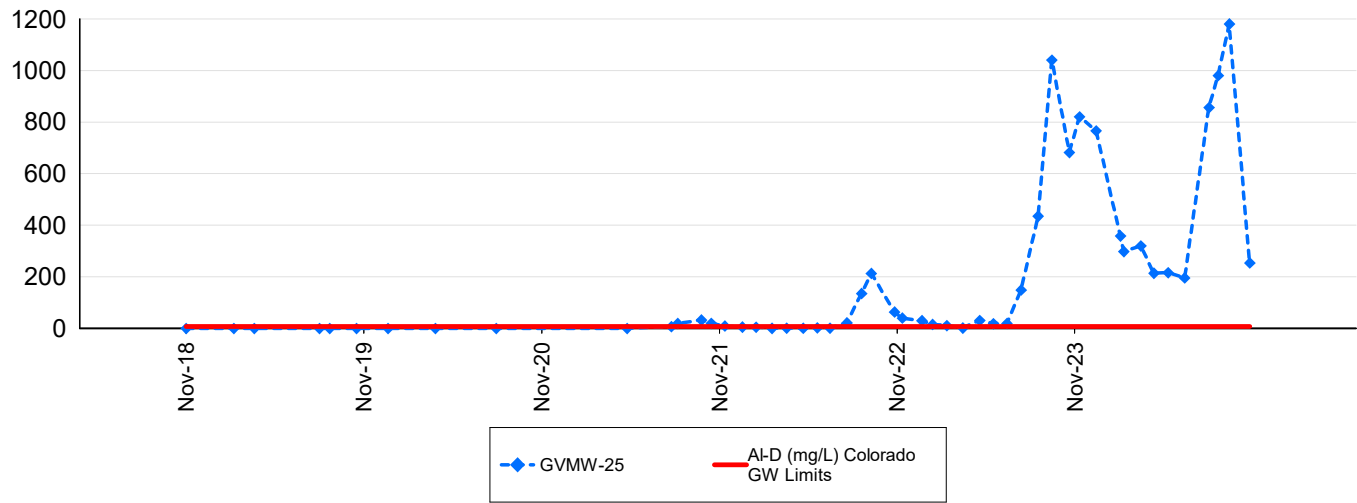
Cripple Creek & Victor
Gold Mining Company
P.O. Box 191
100 North 3rd Street
Victor, Colorado 80860

P 719.689.2977
F 719.689.3254
newmont.com

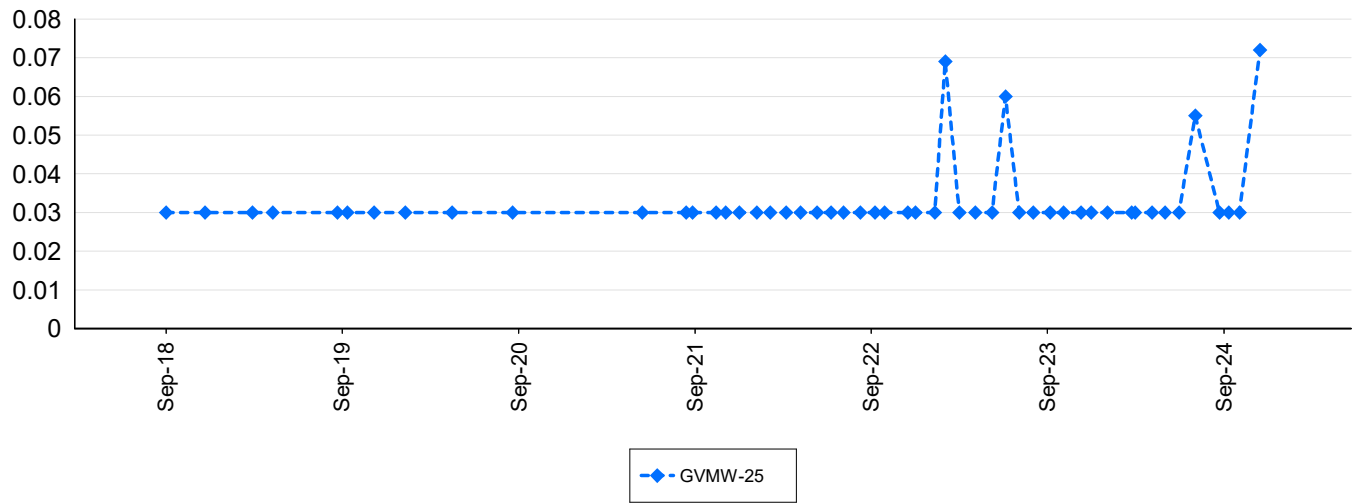
Attachment 3

GVMW-25 Historical Graphs

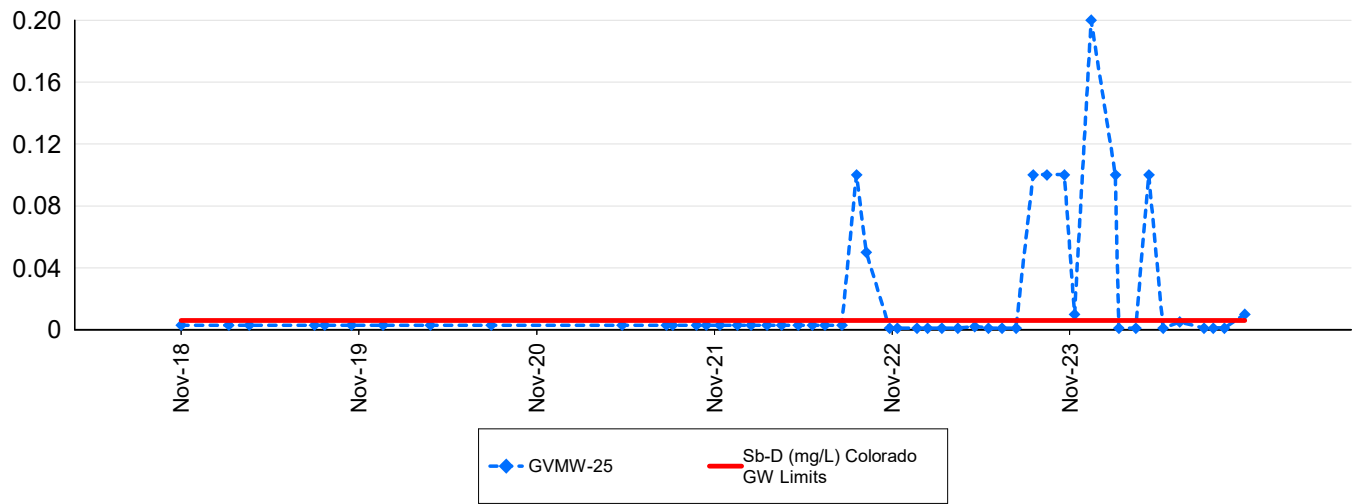
Grassy Valley: Aluminium - Dissolved (mg/L)



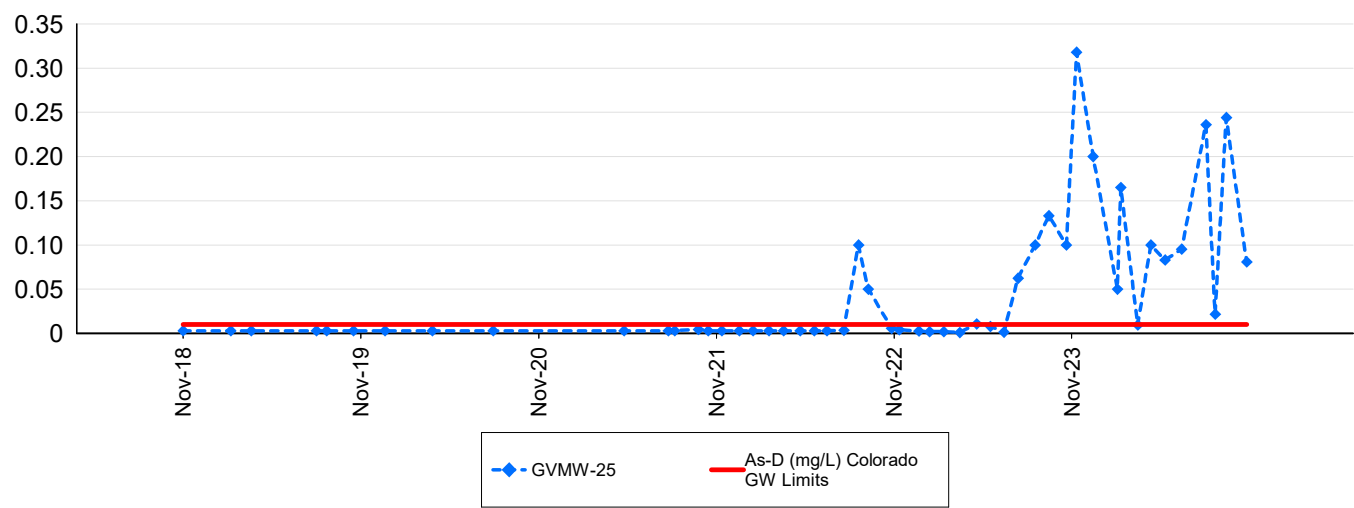
Grassy Valley: Ammonia (mg/L)



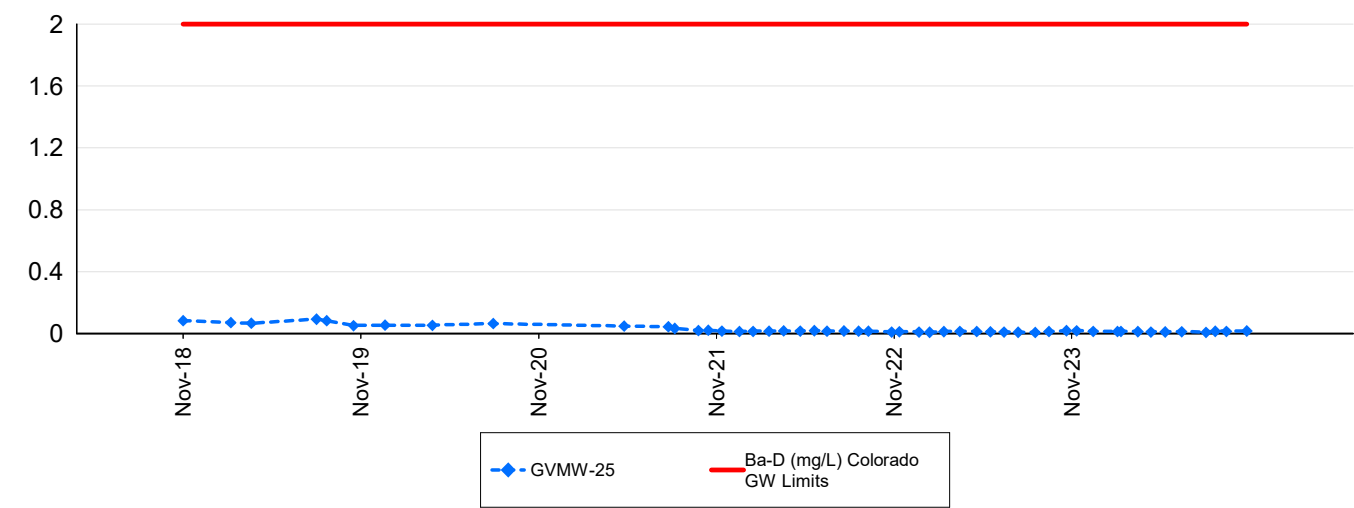
Grassy Valley: Antimony - Dissolved (mg/L)



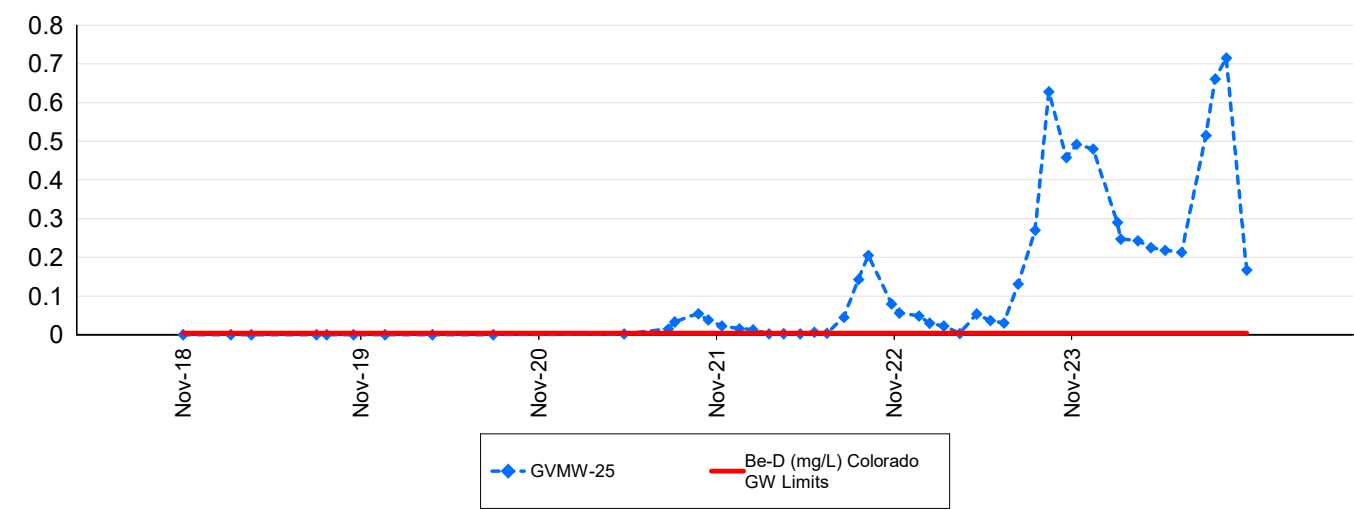
Grassy Valley: Arsenic - Dissolved (mg/L)



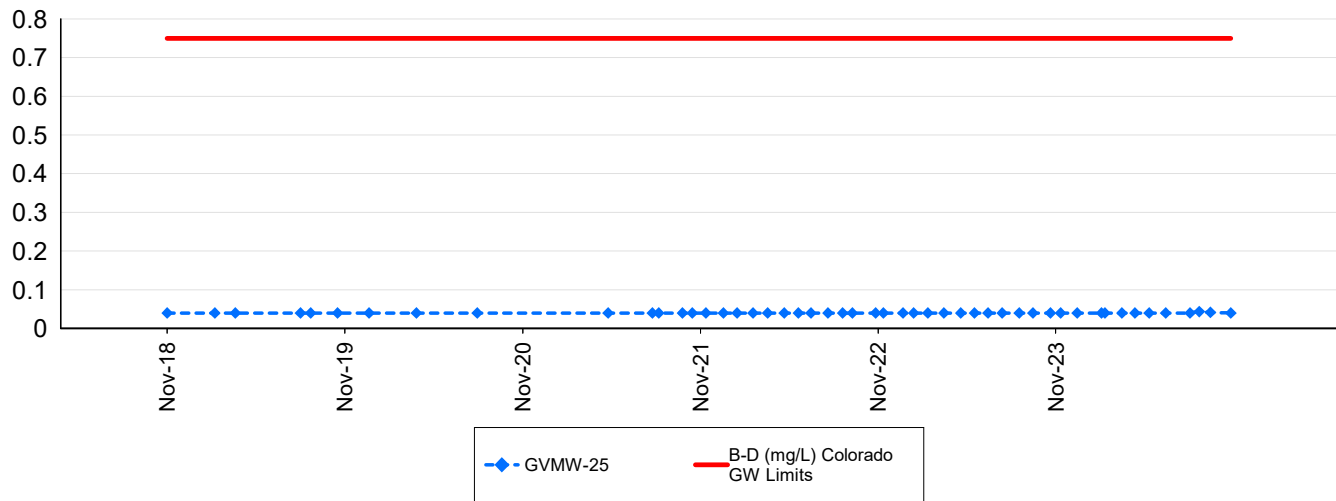
Grassy Valley: Barium - Dissolved (mg/L)



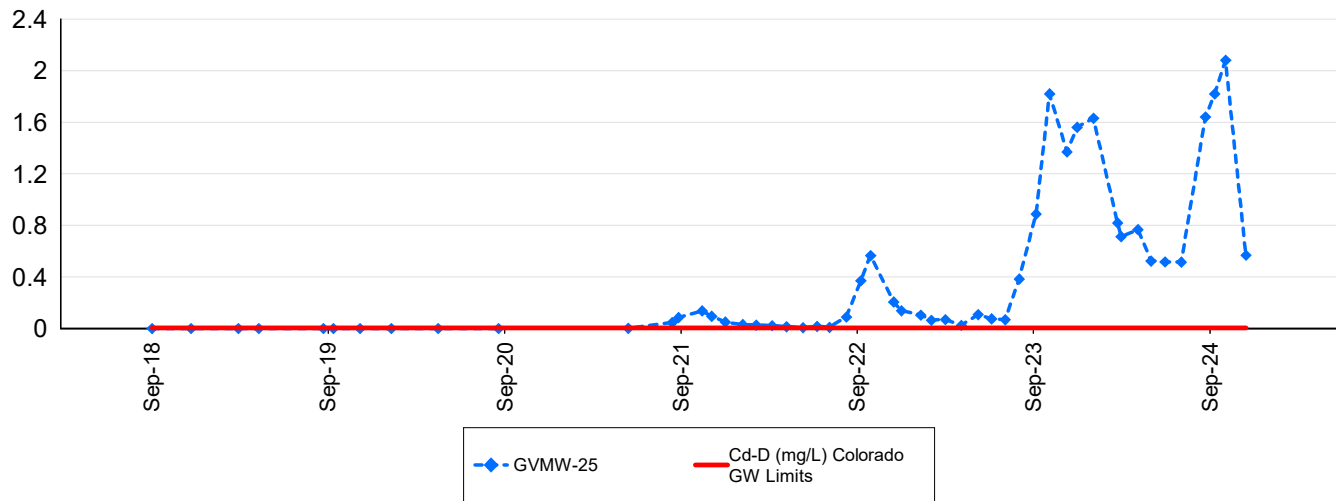
Grassy Valley: Beryllium - Dissolved (mg/L)



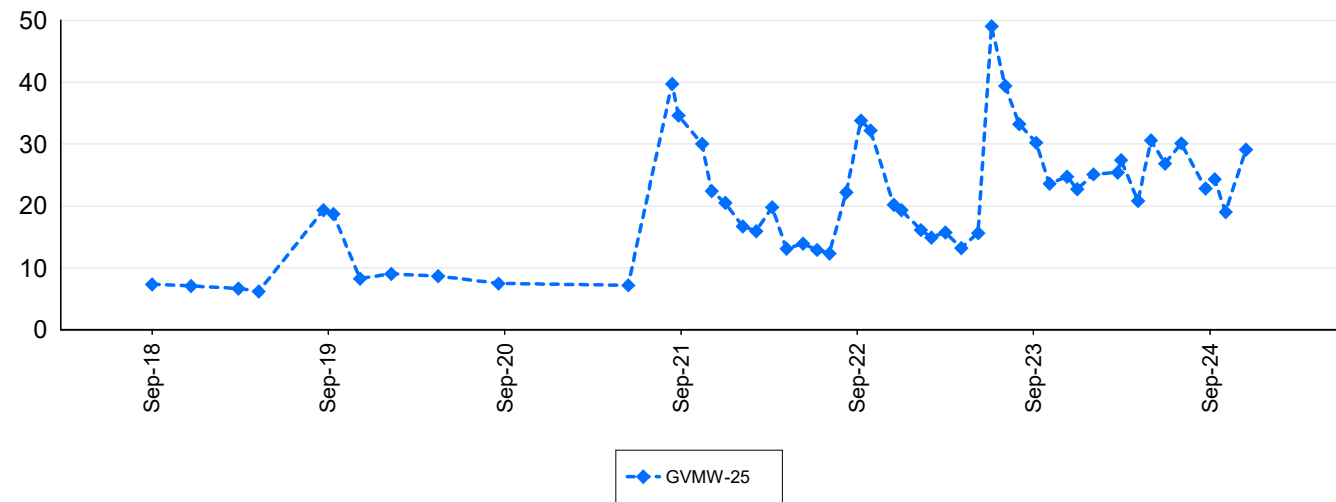
Grassy Valley: Boron - Dissolved (mg/L)



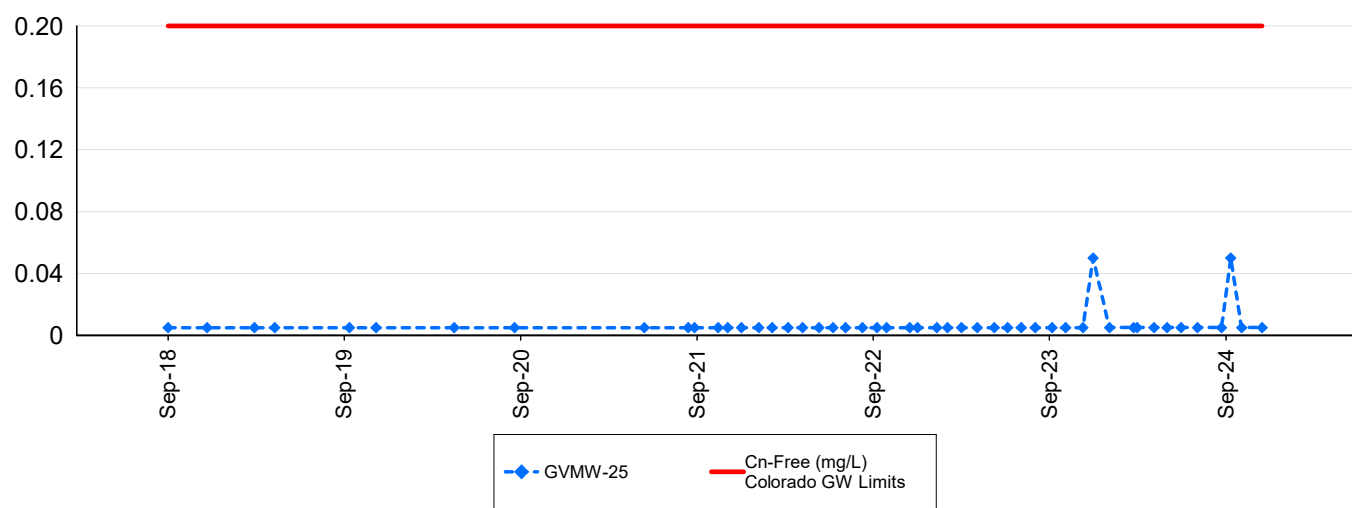
Grassy Valley: Cadmium - Dissolved (mg/L)



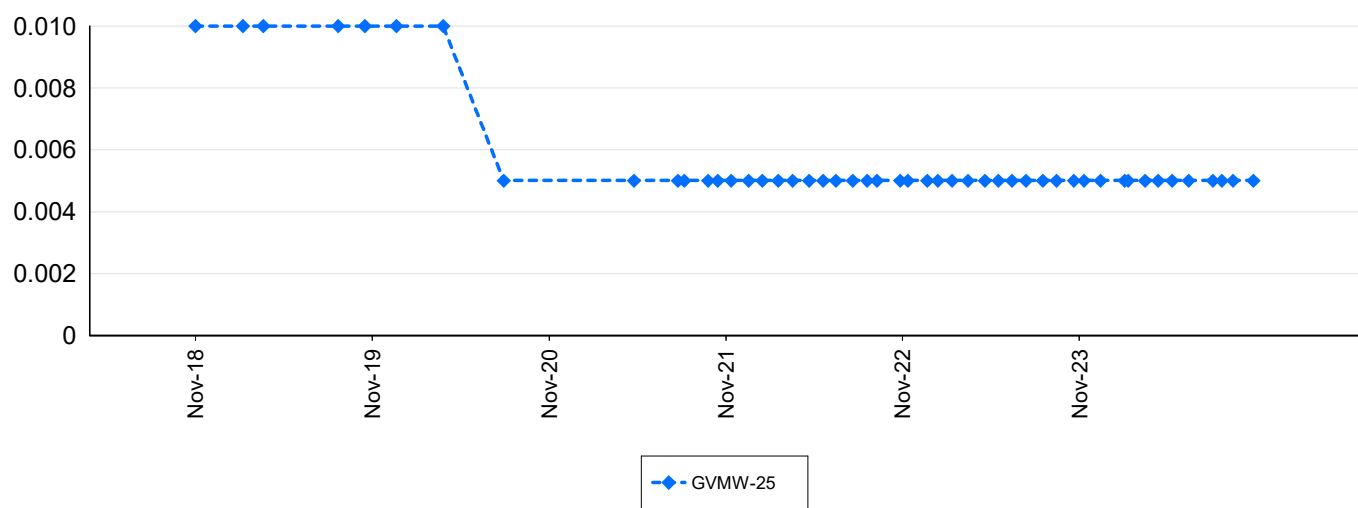
Grassy Valley: Chloride - Total (mg/L)



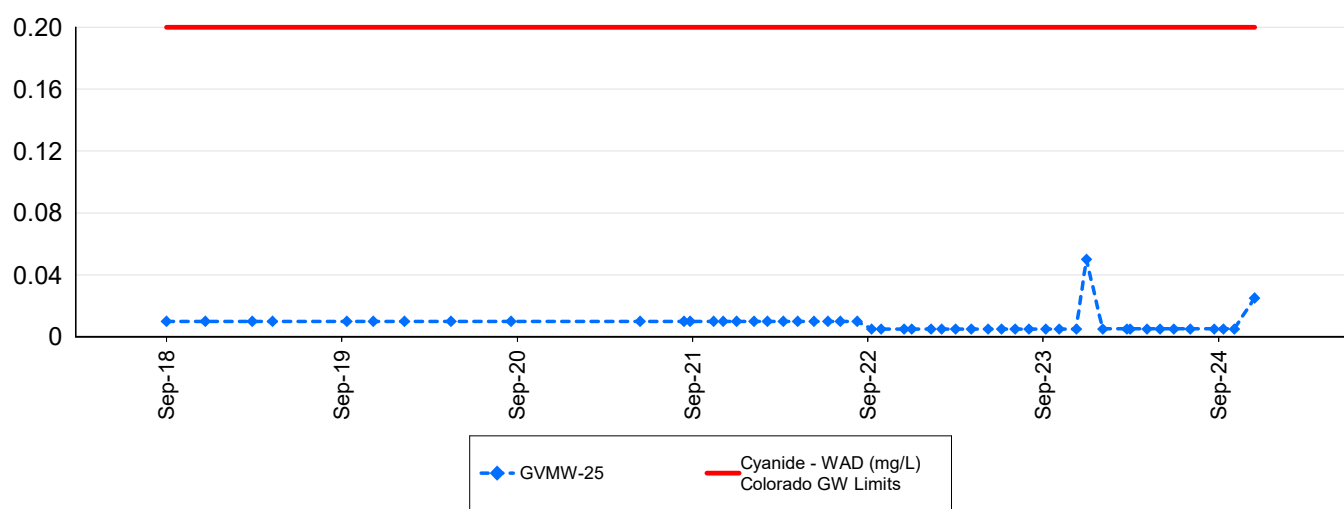
Grassy Valley: Cyanide - Free (mg/L)



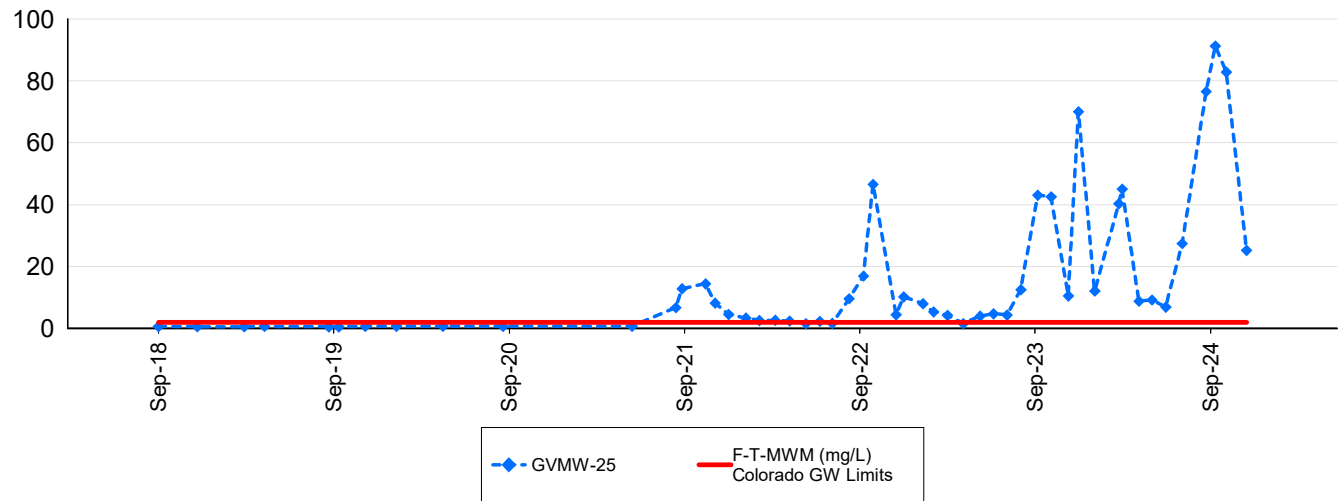
Grassy Valley: Cyanide - Total (mg/L)



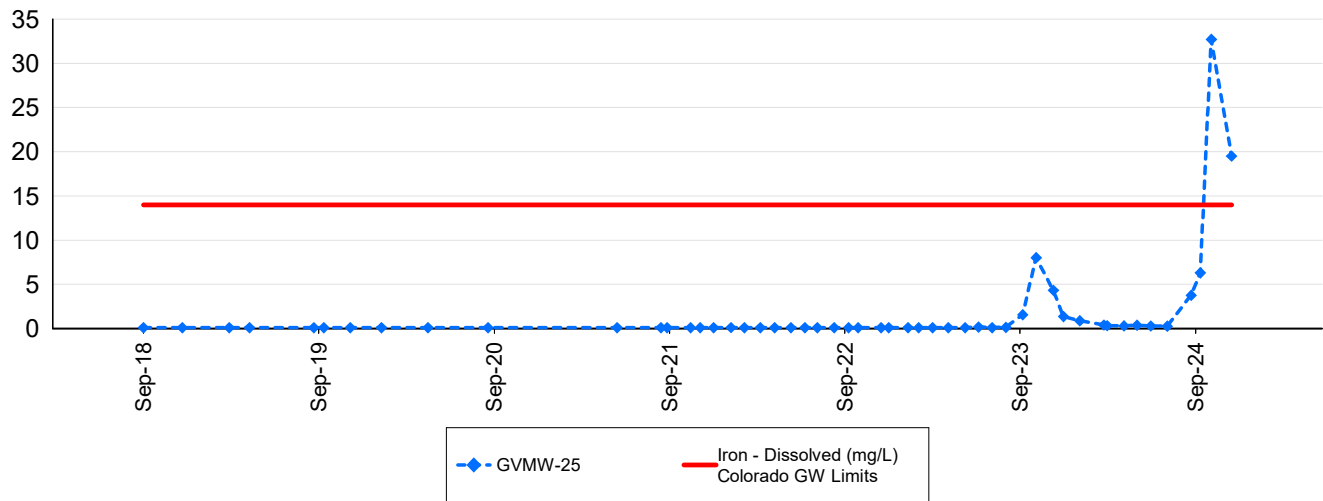
Grassy Valley: Cyanide - WAD (mg/L)



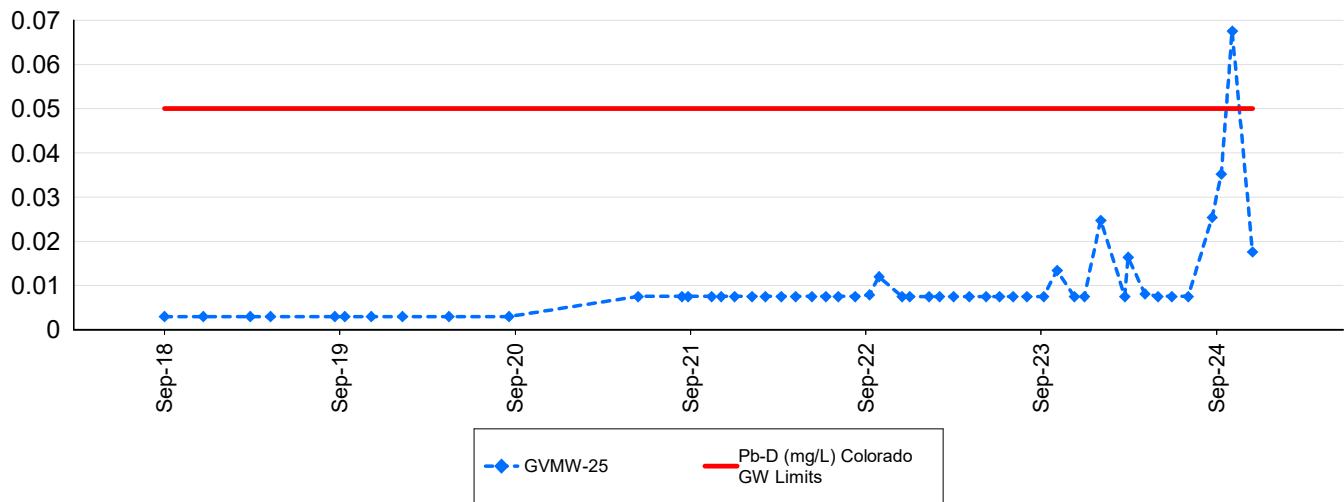
Grassy Valley: Fluoride - Total F (mg/L)



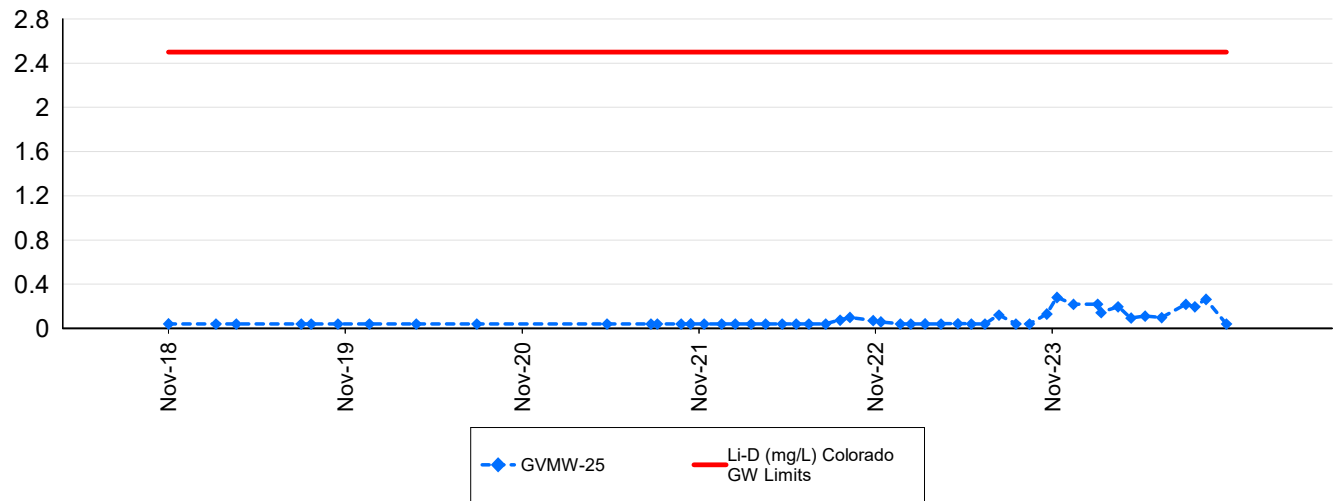
Grassy Valley: Iron - Dissolved (mg/L)



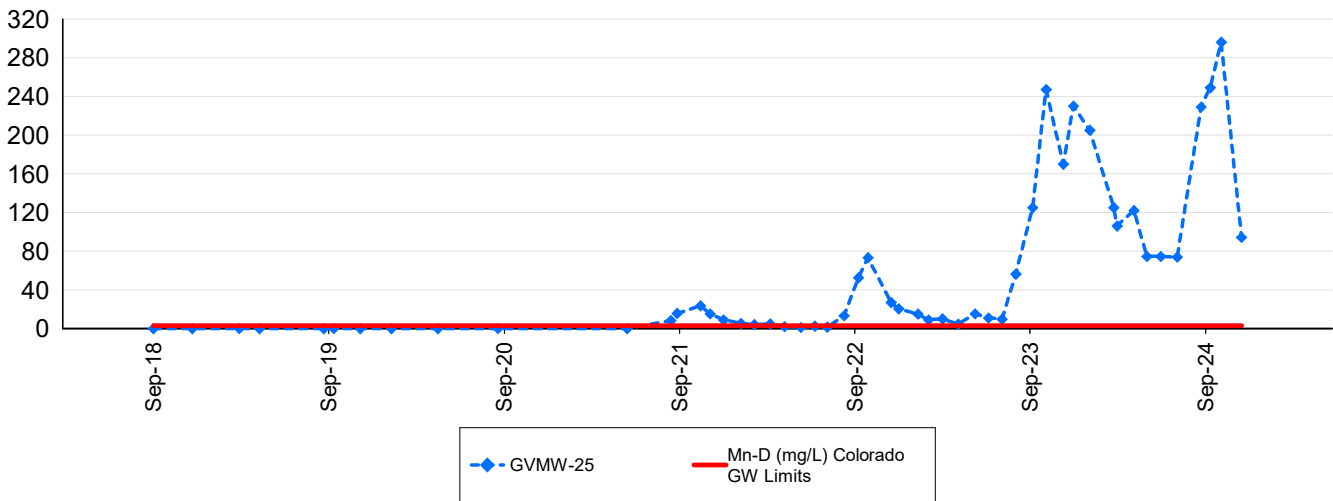
Grassy Valley: Lead - Dissolved (mg/L)



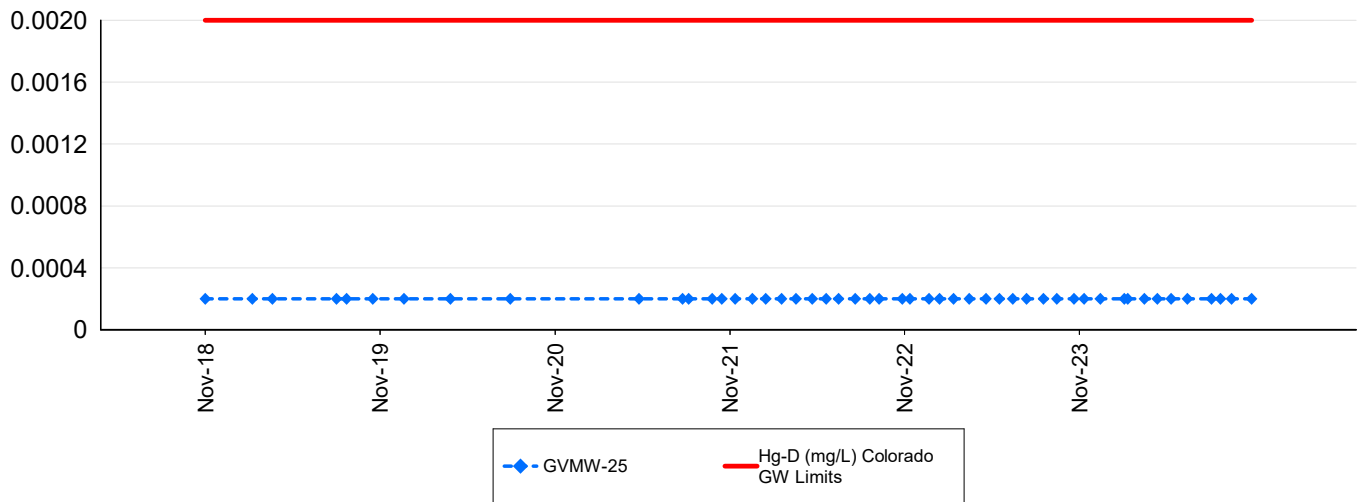
Grassy Valley: Lithium - Dissolved (mg/L)



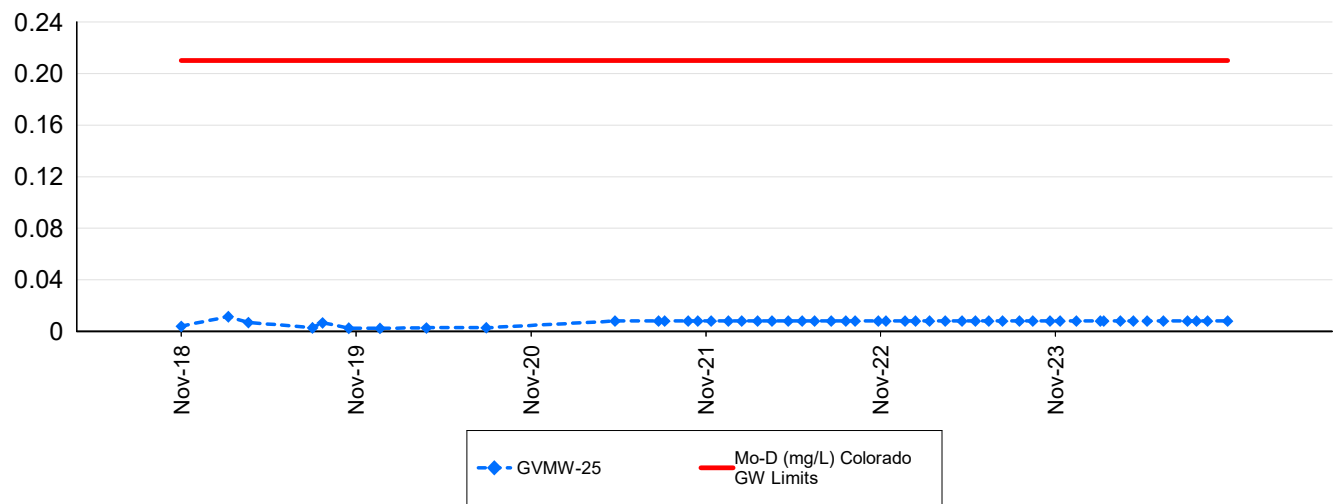
Grassy Valley: Manganese - Dissolved (mg/L)



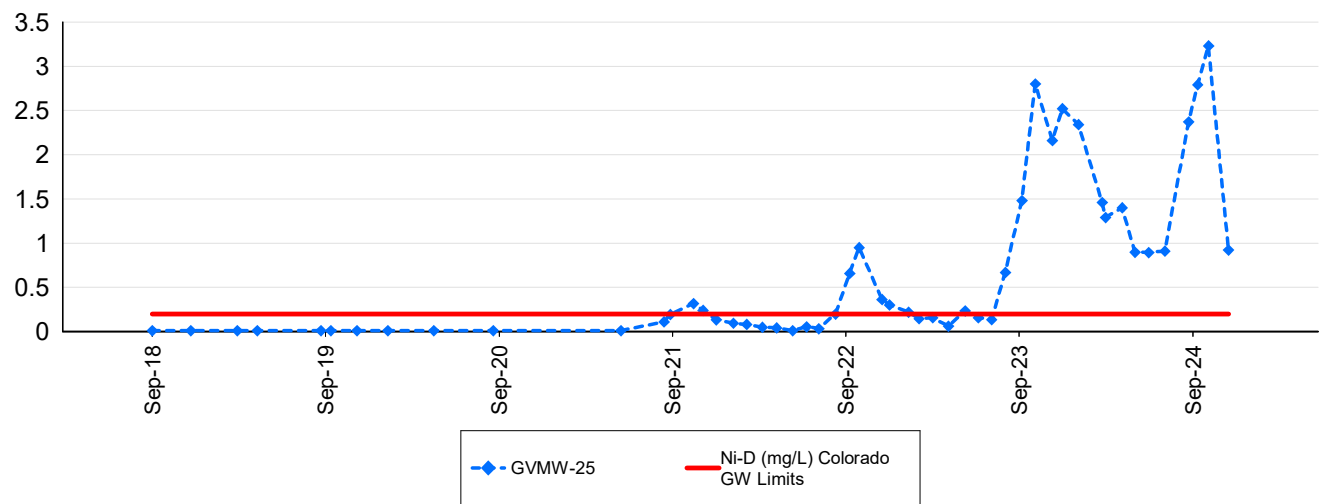
Grassy Valley: Mercury - Dissolved (mg/L)



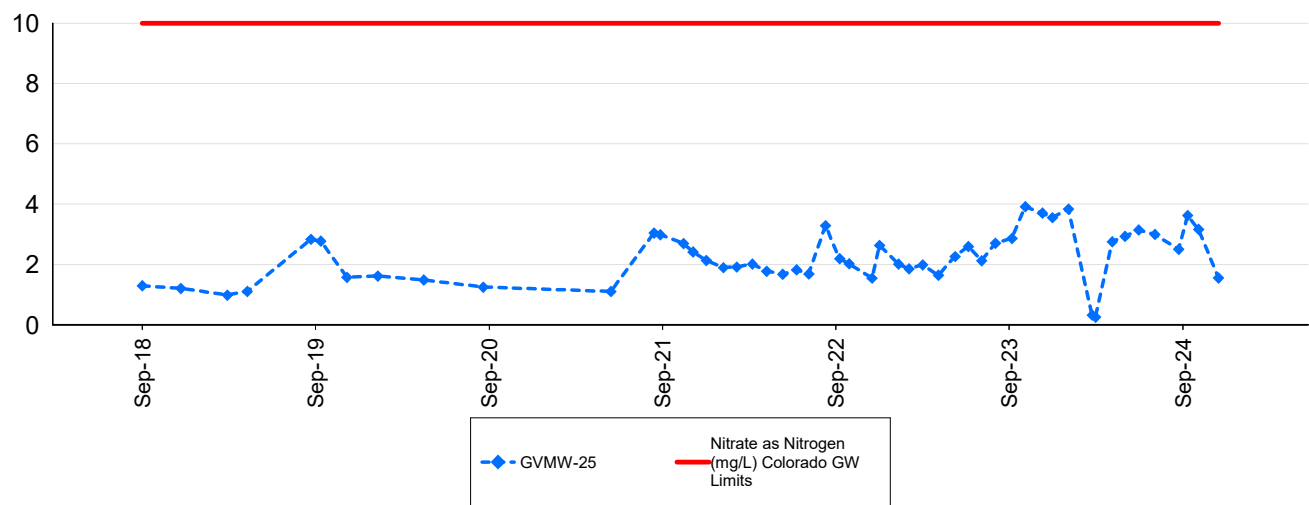
Grassy Valley: Molybdenum - Dissolved (mg/L)



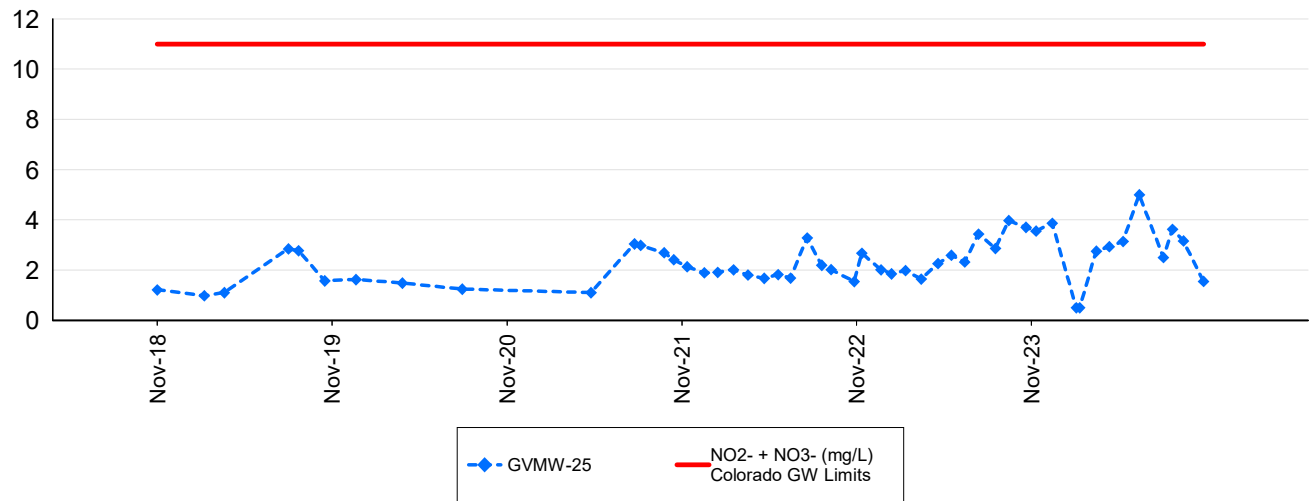
Grassy Valley: Nickel - Dissolved (mg/L)



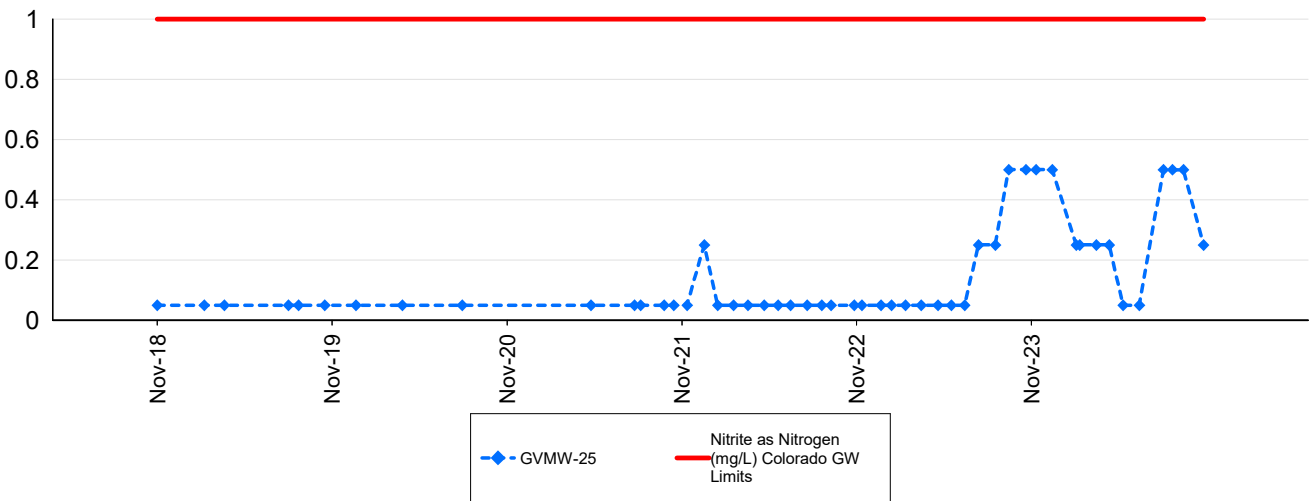
Grassy Valley: Nitrate as Nitrogen (mg/L)



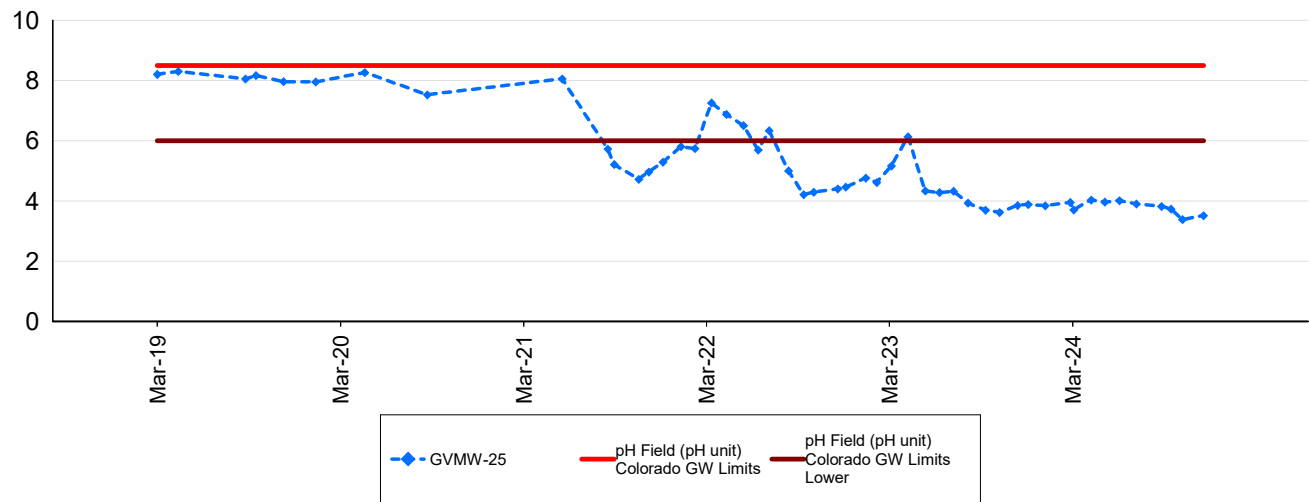
Grassy Valley: Nitrite + Nitrate as Nitrogen (mg/L)



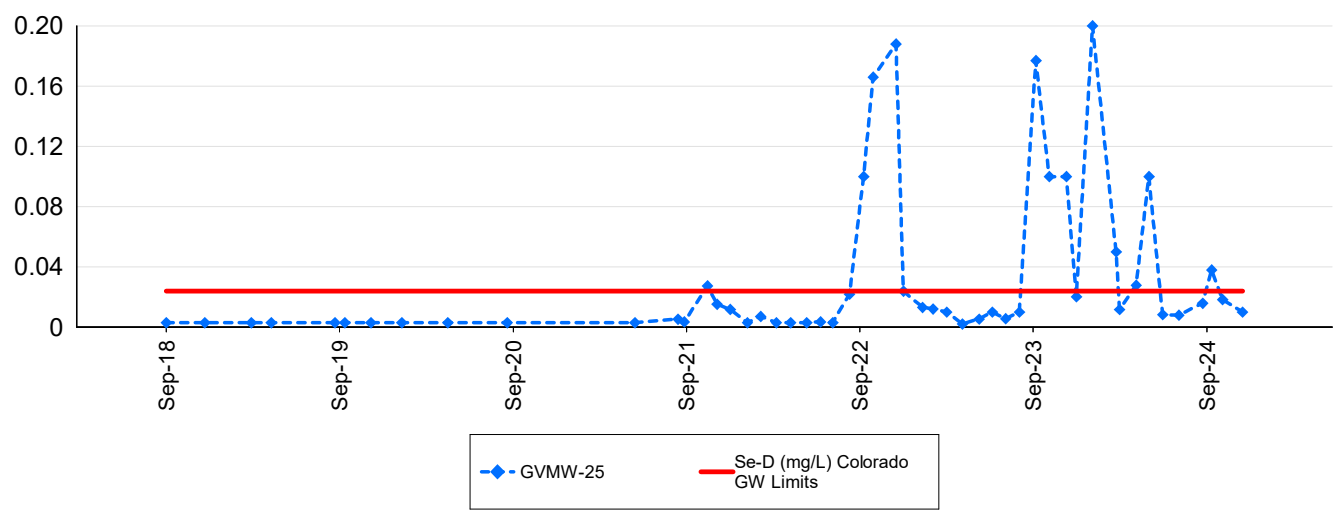
Grassy Valley: Nitrite as Nitrogen (mg/L)



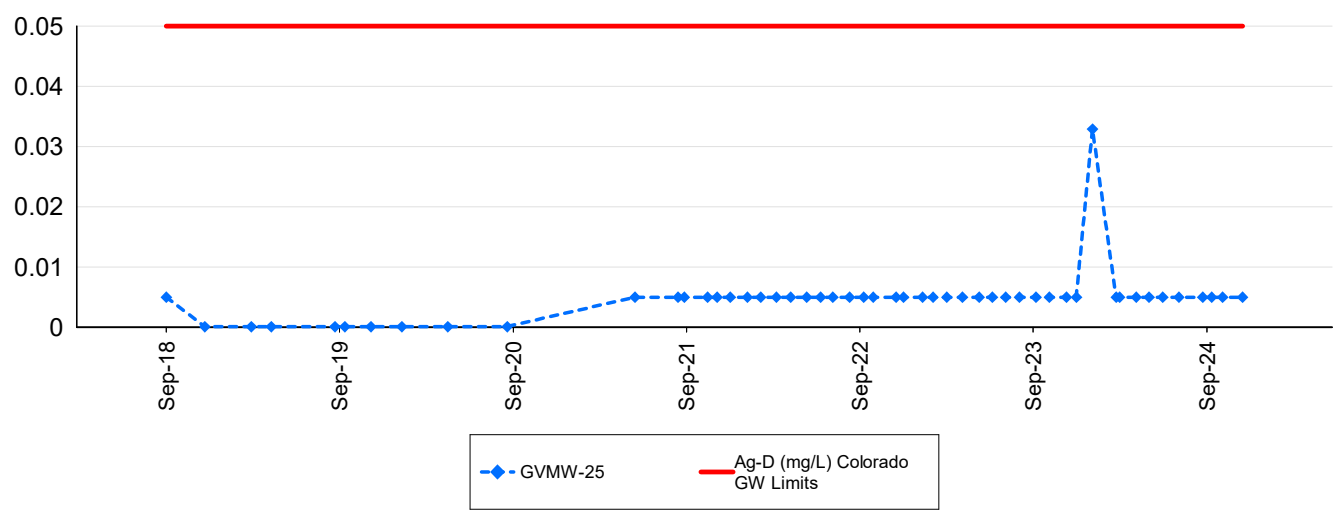
Grassy Valley: pH Field (pH unit)



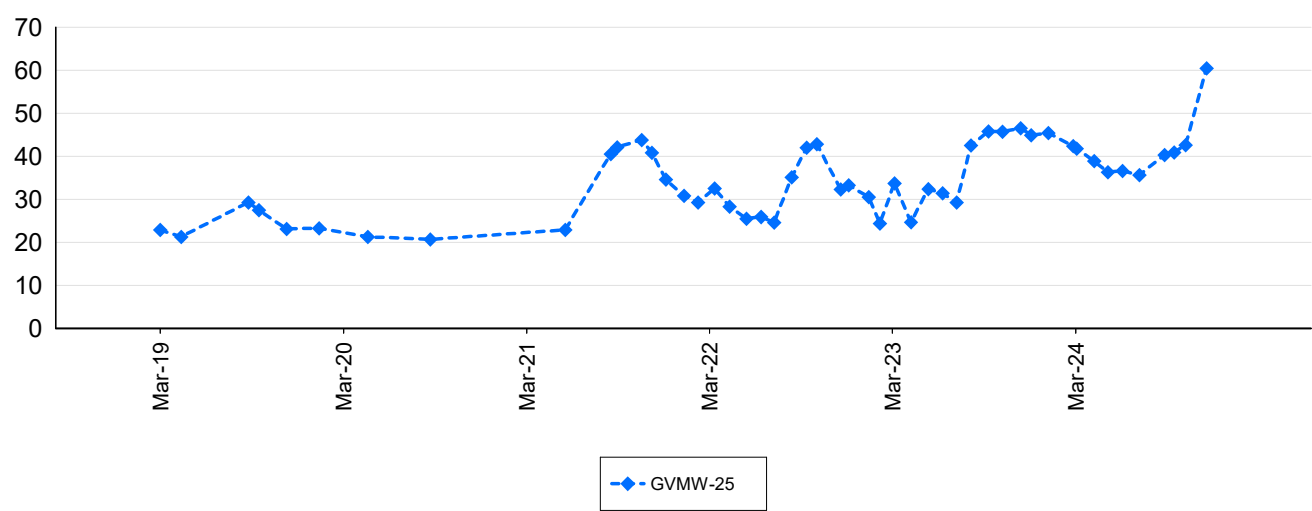
Grassy Valley: Selenium - Dissolved (mg/L)



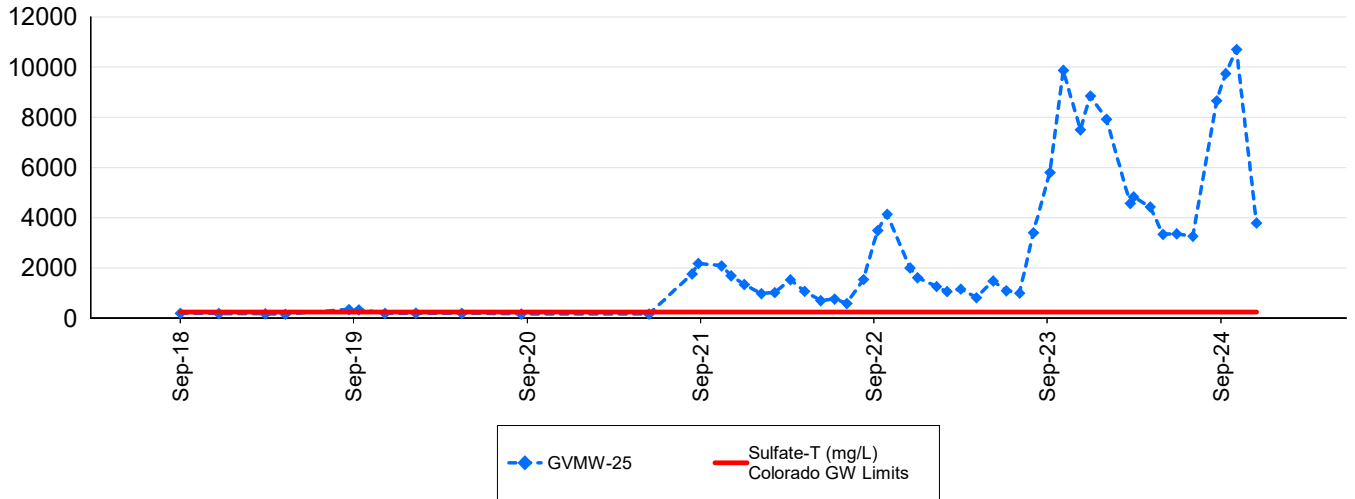
Grassy Valley: Silver - Dissolved (mg/L)



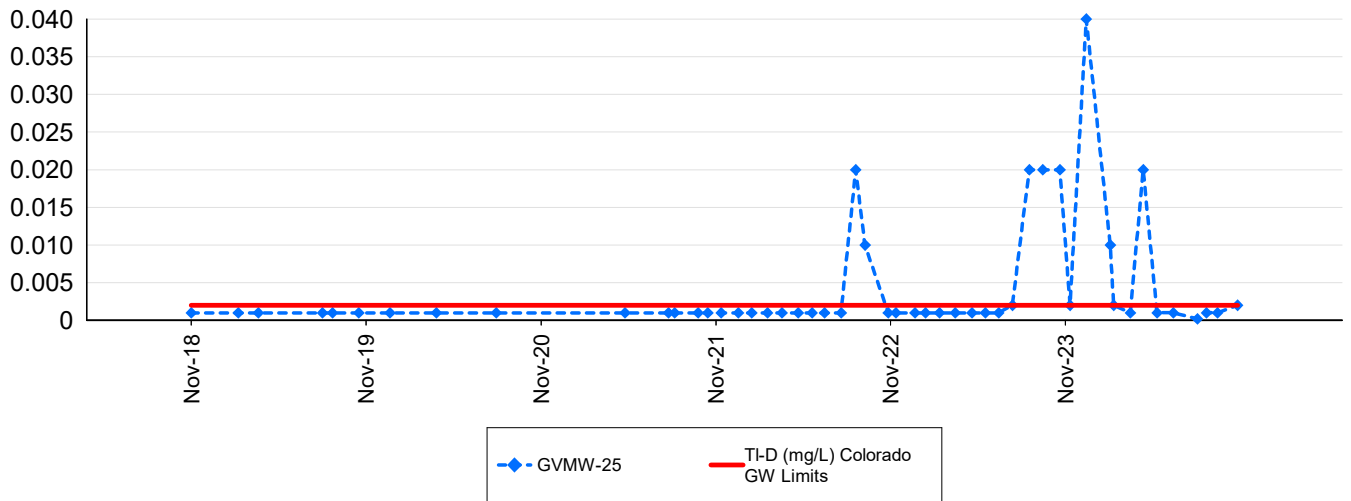
Grassy Valley: Sodium - Dissolved (mg/L)



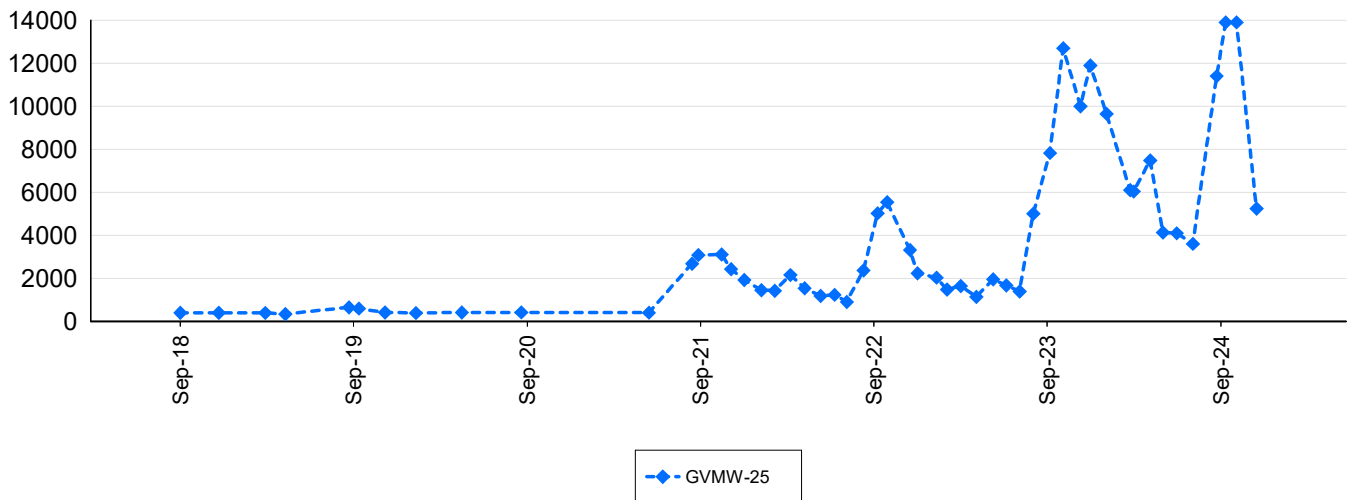
Grassy Valley: Sulfate - Total (mg/L)



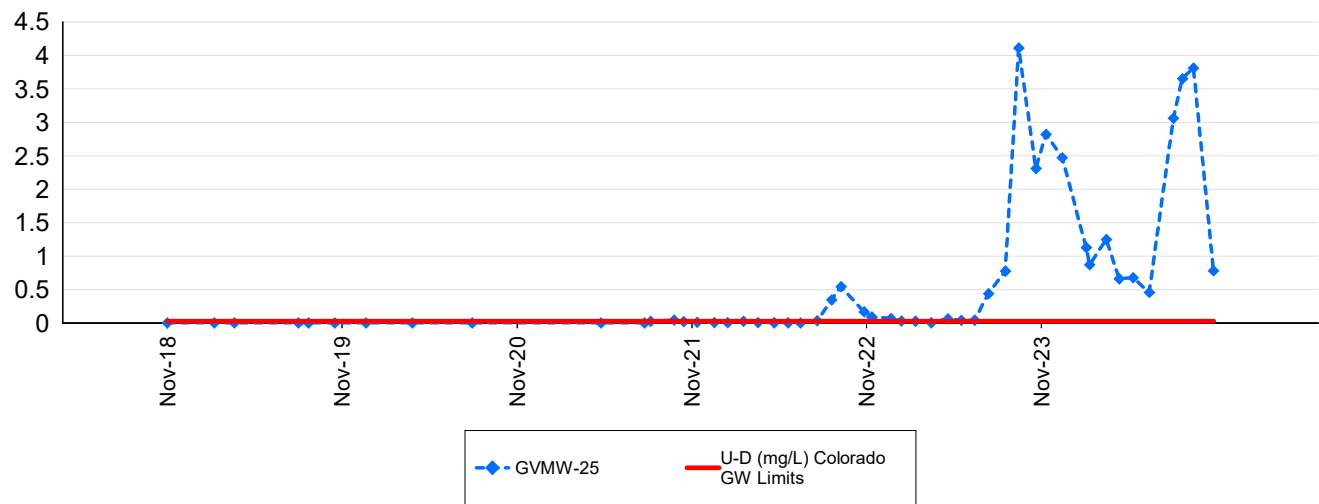
Grassy Valley: Thallium - Dissolved (mg/L)



Grassy Valley: Total Dissolved Solids (mg/L)



Grassy Valley: Uranium - Dissolved (mg/L)



Grassy Valley: Vanadium - Dissolved (mg/L)

