



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

August 28, 2025

RE: Monthly Grassy Valley Report July 2025 Submission, August 28, 2025

Dear Elliott,

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 July 2025, 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 shown in the Location Maps (Figures), and a summary of each groundwater and surface water locations' status is provided in Table 1.

During the July monitoring period, CC&V was unable to collect water samples from the following monitoring locations due to the reasons listed below:

- GVMW-15C, GVMW-29, GVMW-31, GVMW-32, OSABH12, OSABH14, and OSABH-18, were dry;
- GVMW-24A had sediment-laden water that caused the pump to overheat and malfunction;
- All EMP's were dry; and
- GV-02 and GV-03 were dry with no flowing water.

Groundwater Level Measurements

Prior to the collection of groundwater samples, depth to groundwater was measured using a Geotech™ water level indicator. The water level indicator was decontaminated with Alconox™ soap and rinsed with deionized 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 10, 2025.

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 3.2 – Groundwater Monitoring Parameters of the QAPP. Proper chain-of-custody (COC) procedures were followed as described in Section 10.10 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 3 quality assurance/quality control (QA/QC) samples in July 2025 (included in Attachment 1). Two duplicate samples and one rinse blank sample were collected per section 8.0 of the approved QAPP.

RESULTS

Analytical results are compared to applicable standards in Table 2 for groundwater samples and in Attachment 2 for surface water samples. Complete laboratory analytical reports from the July 2025 sampling event are included in Attachment 1 and field-collected data is presented on the sampling logs in Attachment 3.

DISCUSSION**Groundwater**

During the data collection period, observed groundwater quality data indicated a trend in which peak constituent concentrations occur around October, followed by a decline through the fall. Over the past two years, a rebound in some constituent concentrations has been observed in December after a decline in November. This rebound is more pronounced in 2024 compared to 2023, suggesting a potential deviation from observed seasonal trends. Constituent patterns appear to correlate with seasonal precipitation fluctuations, with the recent trend likely influenced by November snowfall, followed by a warming event that increased throughflow into the groundwater system. So far, summer 2025 data seem to confirm the observed trends.

Trend graphs for various constituents at the GVMW-25 monitoring location are provided in Attachment 4. Overall, results in July indicate similar concentrations compared to June 2025. However, concentrations of chloride, fluoride, and nitrate increased relative to June 2025 and aluminum, arsenic, and silver concentrations decreased from the June 2025 results. Additionally, ammonia, antimony, boron, cyanide, mercury, nitrite, thallium, and vanadium were not detected in the July 2025 samples.

Water quality at the GVMW-15B, OSABH-16, and OSABH-17 monitoring locations is consistent with previously recorded results. Shallow groundwater at these locations appears to be impacted by seepage and constituent concentrations fluctuate seasonally similar to GVMW-25.

Other notable results include:

- Elevated fluoride concentrations at the GVMW-8B and GVMW-22A locations;
- Elevated aluminum, beryllium, cadmium, fluoride, manganese, nickel, low pH, and sulfate at GVMW-24B;
- Elevated sulfate and uranium concentrations at the GVMW-10 location; and
- Elevated iron concentrations in GVMW-15A;

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

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

Newly Constructed Monitoring Wells

During the July 2025 monitoring event, samples were collected from the newly installed monitoring wells in Grassy Valley. Table 2 compares water quality data for these wells against existing NPLs and TVS. Baseline conditions have not yet been established.

Seepage appears to be affecting water quality at GVMW-27, GVMW-28, GVMW-30, GVMW-33, GVMW-34, and GVMW-36. Other notable results include:

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

Surface water

Flowing water was observed at the GV-06, GV-4.5 and GV-05 monitoring locations in July 2025 and samples were collected. Monitoring locations GV-03 and GV-02 did not have flowing water, and no samples were collected. Monitoring location GV-4.5 exceeded Regulation 32 standards (Classification and Numeric Standards for Arkansas River Basin) for total iron and dissolved iron. GV-05 and GV-06 exceeded Regulation 32 standards (Classification and Numeric Standards for Arkansas River Basin) for total iron.

Stormwater Detention Ponds

EMP-16, EMP-17, EMP-17A, EMP-17B, and EMP-20 were dry during the monitoring period and therefore no samples were collected.

If you have questions, please contact Josh Adams at (719) 323-0438 or Joshua.Adams@ccvmining.com, or myself at (719) 851-4048 or Katie.Blake@ccvmining.com

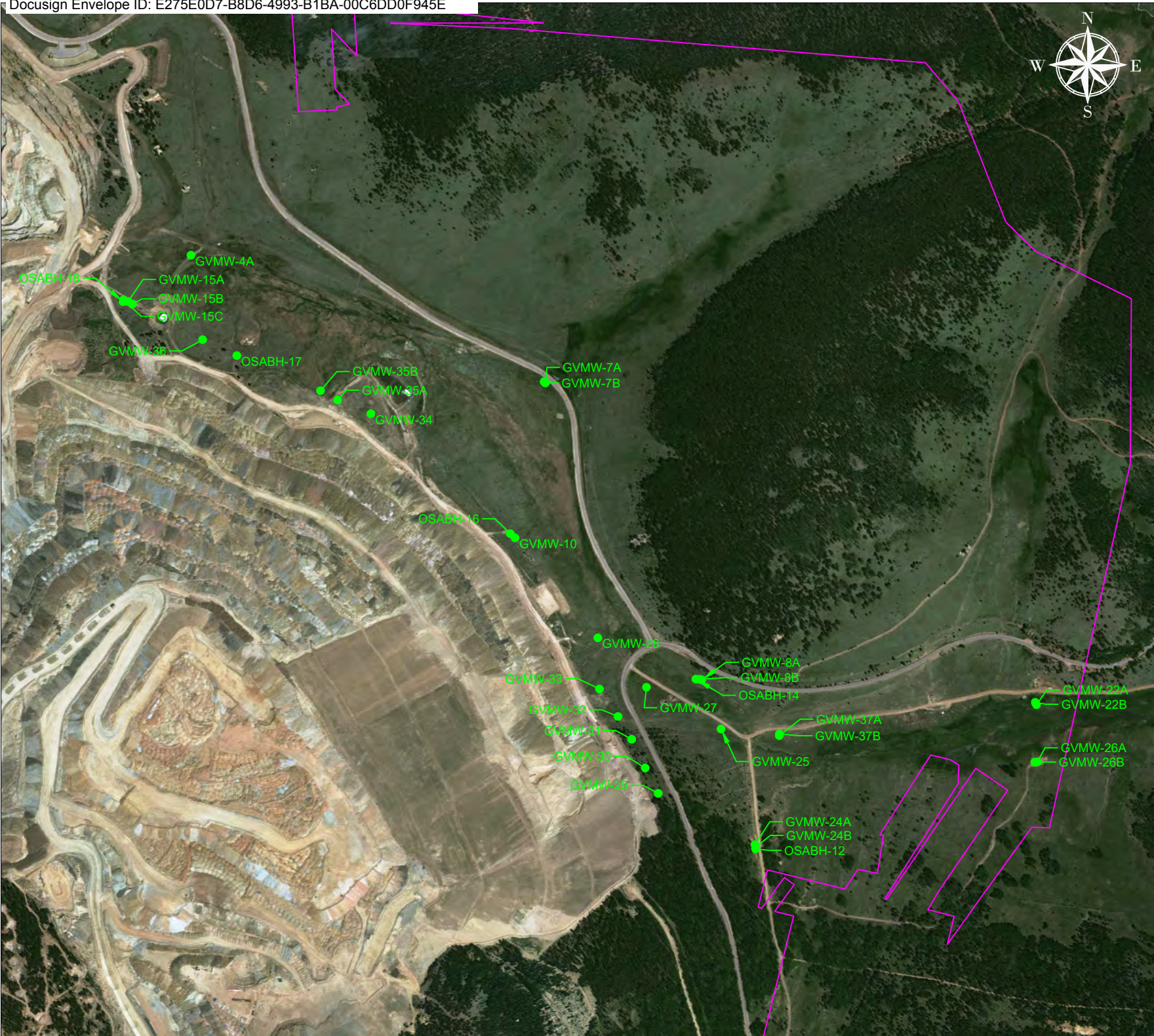
Sincerely,

DocuSigned by:

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

Figures



LEGEND		
	MONITORING WELL	
	PERMIT BOUNDARY	

General Notes		

No.	Revision/Issue	Date

Firm Name and Address	
 CRIPPLE CREEK & VICTOR	

Drawing Name	
GRASSY VALLEY MONITORING WELLS	

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

Scale	500	1000
Feet		



 SURFACE WATER LOCATION
 PERMIT BOUNDARY

General Notes

No.	Revision/Issue	Date

Firm Name and Address

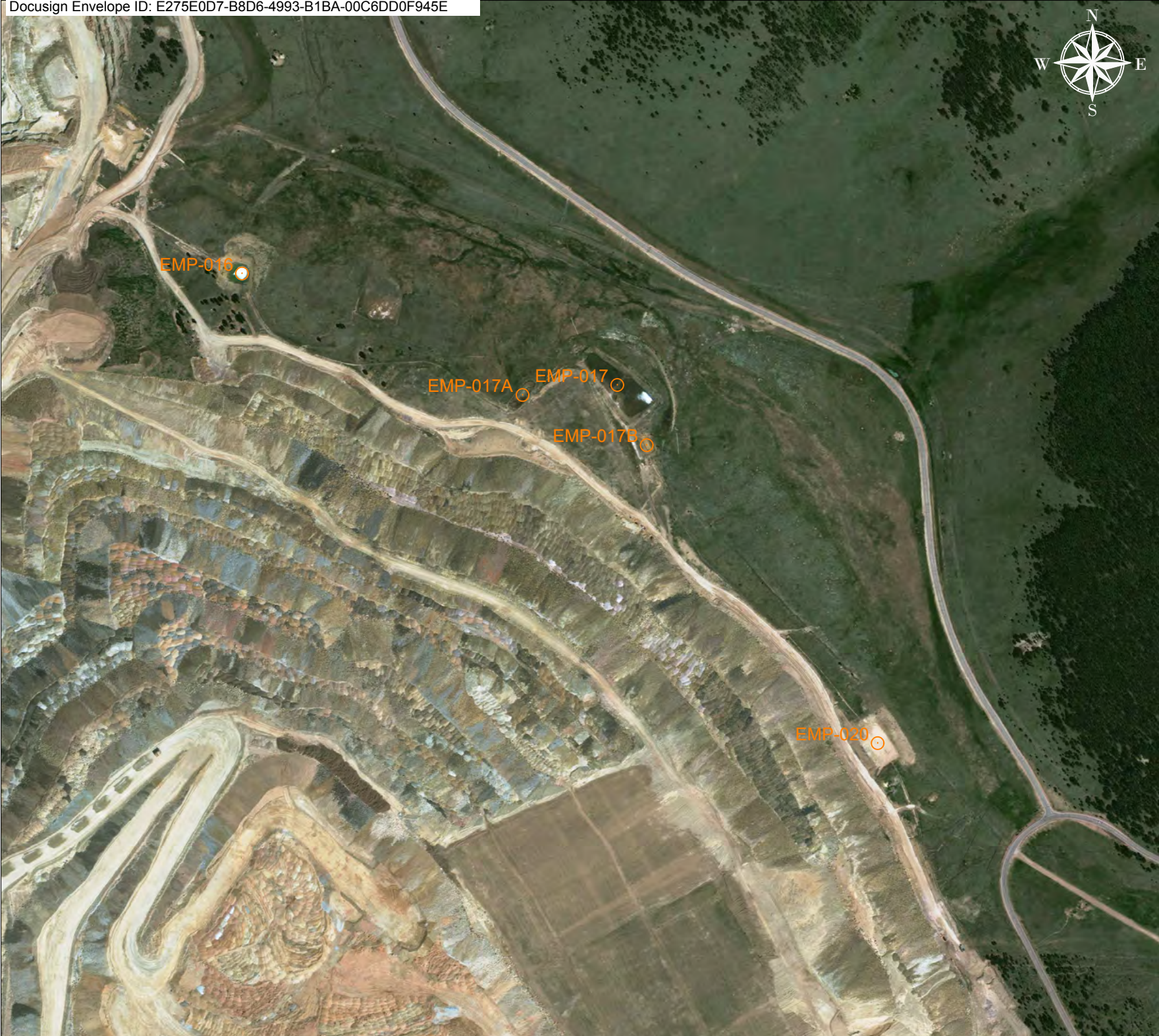


Drawing Name

GRASSY VALLEY
SURFACE WATER MONITORING

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

0	Scale	700	1400	Feet

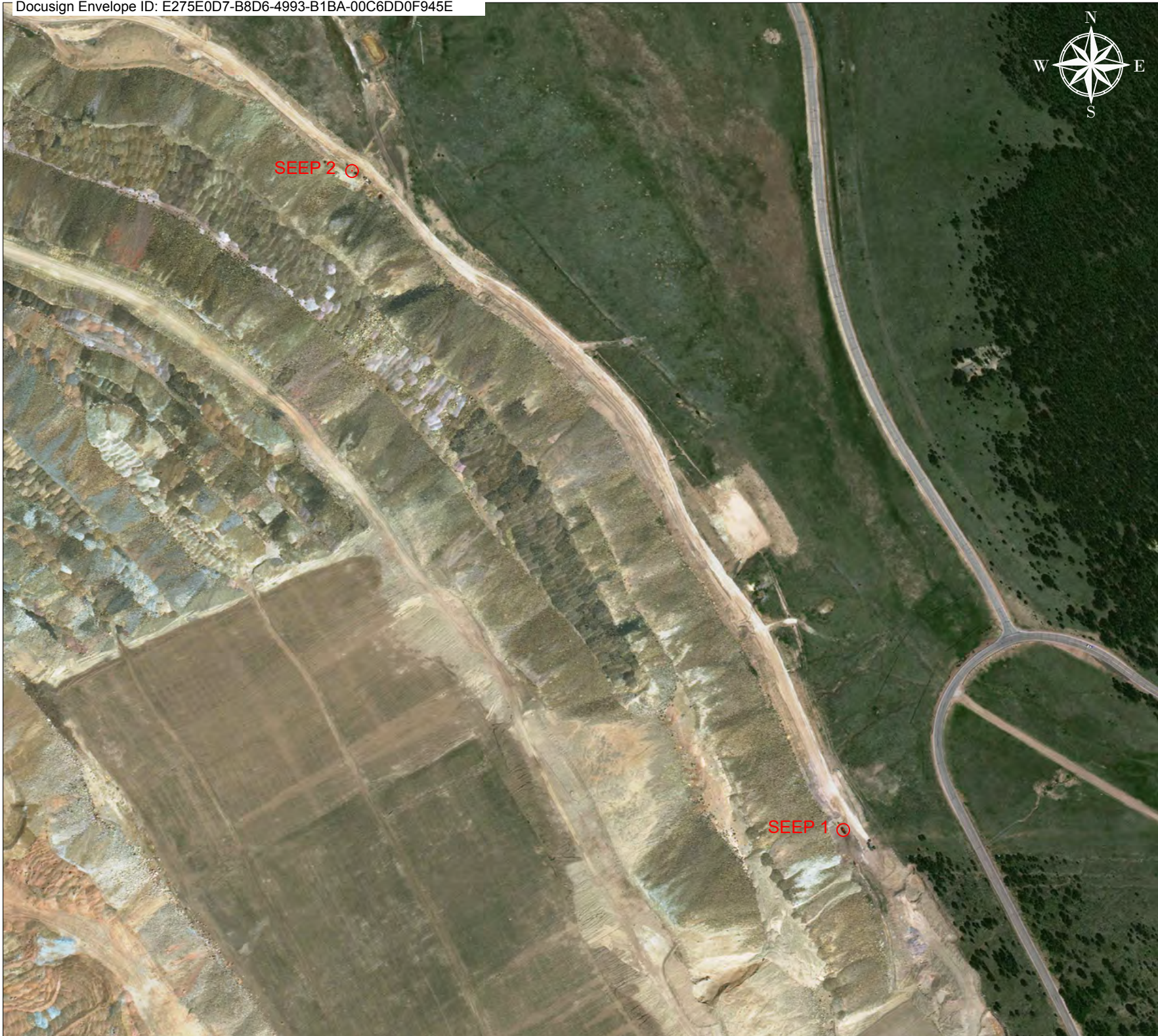


LEGEND		
	EMP	
	PERMIT BOUNDARY	

General Notes		

No.	Revision/Issue	Date

Firm Name and Address	
 CRIPPLE CREEK & VICTOR	
Drawing Name	
GRASSY VALLEY EMP MONITORING	
Project GRASSY VALLEY OCPP	Sheet 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	
 0 200 400 Feet	

Tables

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

Monitoring Location	Date Monitored	Status
GVMW-4A	7/8/2025	Sampled
GVMW-7A	7/8/2025	Sampled
GVMW-7B	7/8/2025	Sampled
GVMW-8A	7/8/2025	Sampled
GVMW-8B	7/8/2025	Sampled
GVMW-10	7/30/2025	Sampled
GVMW-15A	7/8/2025	Sampled
GVMW-15B	7/8/2025	Sampled
GVMW-15C	7/8/2025	Dry at 418' BTOC
GVMW-22A	7/1/2025	Sampled
GVMW-22B	7/1/2025	Sampled
GVMW-24A	7/1/2025	Not sampled due to sediment laden water causing the pump to overheat; unable to pump well
GVMW-24B	7/1/2025	Sampled
GVMW-25	7/14/2025	Sampled
GVMW-26A	7/1/2025	Sampled
GVMW-26B	7/1/2025	Sampled
GVMW-27	7/17/2025	Sampled
GVMW-28	7/14/2025	Sampled
GVMW-29	7/15/2025	Dry at 38.05' BTOC
GVMW-30	7/15/2025	Sampled
GVMW-31	7/15/2025	Dry at 61.45' BTOC
GVMW-32	7/15/2025	Dry at 67.17' BTOC
GVMW-33	7/15/2025	Sampled
GVMW-34	7/15/2025	Sampled
GVMW-35A	7/21/2025	Sampled
GVMW-35B	7/16/2025	Sampled
GVMW-36	7/17/2025	Sampled
GVMW-37A	7/2/2025	Sampled
GVMW-37B	7/2/2025	Sampled
OSABH-12	7/1/2025	Dry at 39' bgs
OSABH-14	7/8/2025	Dry at 29' bgs
OSABH-16	7/31/2025	Sampled
OSABH-17	7/14/2025	Sampled
OSABH-18	7/18/2025	Dry at 52' BTOC
Ecosa Seep-1	7/17/2025	Sampled
Ecosa Seep-2	7/17/2025	Sampled
GV-02	7/23/2025	Not sampled; no flowing water
GV-03	7/23/2025	Not sampled; no flowing water
GV-06	7/23/2025	Sampled
GV-4.5	7/23/2025	Sampled
GV-05	7/23/2025	Sampled
EMP-016	7/21/2025	Not sampled; location dry
EMP-017	7/21/2025	Not sampled; location dry
EMP-017A	7/21/2025	Not sampled; location dry
EMP-17B	7/21/2025	Not sampled; location dry
EMP-17C	7/21/2025	Not sampled; location dry
EMP-020	7/21/2025	Not sampled; location dry

Notes:

' - feet

BTOC - below top of casing

NS-IW - Not sampled due to insufficient water

Table 2
Grassy Valley Monthly Groundwater Analytical Results - June 2025
Cripple Creek and Victor Gold Mining Company

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D. Sample Date	GVMW-4A 6/5/2025	GVMW-7A 6/3/2025	GVMW-7B 6/3/2025	GVMW-8A* 6/5/2025	GVMW-8B 6/5/2025	GVMW-10 6/24/2025	GVMW-15A 6/5/2025	GVMW-15B 6/5/2025	GVMW-22A 6/3/2025	GVMW-22B 6/3/2025	GVMW-24B 6/9/2025	GVMW-25 6/10/2025	GMW-26A 6/4/2025	GVMW-26B 6/4/2025
Aluminum - Dissolved	5	7	mg/L		<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	0.342	<0.080	<0.080	8.45	387	<0.080	<0.080
Ammonia	NA	NA	mg/L		<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Antimony - Dissolved	0.006	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Arsenic - Dissolved	0.01	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00671	0.112	<0.00100	<0.00100
Barium - Dissolved	2	NA	mg/L		0.172	0.208	0.0459	<0.0020	0.0059	0.0142	0.053	0.0142	0.103	0.0666	0.0162	0.0128	0.203	0.108
Beryllium - Dissolved	0.004	NA	mg/L		<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.0279	<0.00200	<0.00200	0.0195	0.324	<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	<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	<0.0020	0.0162	0.796	<0.0020	<0.0020
Chloride - Total	250	NA	mg/L		9.49	19.2	23.1	64	50.6	5.66	1.67	1.77	5.88	13.4	56.2	27	1.34	1.97
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	0.0569	<0.0060	<0.0060
Cobalt - Dissolved	0.05	NA	mg/L		<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.0297	0.059	<0.0060	<0.0060	<0.0060	0.0069	0.774	<0.0060	<0.0060
Copper - Dissolved	0.2	0.2	mg/L		<0.0100	<0.0100	<0.0100	<0.0100	0.0219	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	1.33	<0.0100	<0.0100
Cyanide - Free	0.2	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide - Total	NA	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Cyanide - WAD	NA	0.2	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoride - Total F	2	2	mg/L		0.168	0.831	0.359	1.97	2.28	1.26	0.319	0.338	2.31	0.352	2.41		2.03	0.219
Iron - Dissolved	0.3	14	mg/L		8.03	1.27	<0.100	<0.100	<0.100	33.8	22.6	<0.100	<0.100	<0.100	<0.100	1.34	<0.100	<0.100
Lead - Dissolved	0.05	NA	mg/L		<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.0442	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075
Lithium - Dissolved	2.5	NA	mg/L		<0.040	<0.040	<0.040	<0.040	<0.040	0.093	<0.040	<0.040	<0.040	<0.040	<0.040	0.164	<0.040	<0.040
Manganese - Dissolved	0.05	3	mg/L		1.98	0.237	0.0093	<0.0080	<0.0080	2.54	1.93	1.34	0.0128	<0.0080	4.24	124	<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	<0.000200	<0.000200
Molybdenum - Dissolved	0.21	NA	mg/L		<0.0080	<0.0080	<0.0080	<0.0080	<0.0080	0.0403	<0.0080	<0.0080	0.009	<0.0080	<0.0080	0.0131	<0.0080	<0.0080
Nickel - Dissolved	0.1	NA	mg/L		0.0135	<0.0100	<0.0100	<0.0100	0.0013	0.0173	0.0709	0.121	<0.0100	<0.0100	<0.0100	0.157	<0.0100	0.011
Nitrate as Nitrogen	10	10	mg/L		<0.050	<0.050	0.843	1.36	2.25	<0.250	<0.050	<0.050	0.062	1.14	1.93	0.444	<0.050	0.836
Nitrite + Nitrate as Nitrogen	10	11	mg/L		<0.100	<0.100	0.843	1.36	2.25	<0.500	<0.100	<0.100	1.14	1.93	<0.500	<0.100	0.861	
Nitrite as Nitrogen	1	1	mg/L		<0.050	<0.500	<0.050	<0.050	<0.050	<0.250	<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		6.49	7.47	6.58	6.89	6.79	6.78	6.48	4.89	7.9	6.71	5.04	3.72	7.98	6.55
Selenium - Dissolved	0.02	0.024	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	0.00117	0.00189	0.00934	<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	0.0399	<0.0050	<0.0050
Sodium - Dissolved	NA	NA	mg/L		9.68	10.2	12.2	24.2	24.6	37.6	13.5	13.6	36.6	15.8	21.6	37.5	31	9.99
Sulfate - Total	250	NA	mg/L		69.2	26.2	129	68.5	86.5	1,140	195	275	33.6	70.7	1,900	4,360	15.1	20.6
Thallium - Dissolved	0.002	NA	mg/L		<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	0.00023	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
Total Dissolved Solids	NA	NA	mg/L		191	245	297	286	281	2,100	328	423	228	185	2,500	6,380	179	83
Uranium - Dissolved	0.03	NA	mg/L		0.000109	0.00471	0.00077	0.00512	0.00262	0.048	<0.000100	0.00319	0.0036	0.000462	0.0116	0.933	0.00337	0.000102
Vanadium - Dissolved	0.1	NA	mg/L		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zinc - Dissolved	2	2	mg/L		0.0244	0.0128	0.0173	0.0118	0.0128	0.18	0.266	1.23	0.02	0.0153	0.256	29.1	0.0156	0.0133

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 - June 2025
Cripple Creek and Victor Gold Mining Company

ANALYTE	Reg 41 TVS	Site Wide NPL	UNIT	Well I.D. Sample Date	GVMW-27 6/23/2025	GVMW-28 6/10/2025	GVMW-30 6/24/2025	GVMW-33 6/10/2025	GVMW-34 6/25/2025	GVMW-35A 6/23/2025	GVMW-35B 6/25/2025	GVMW-37A 6/5/2025	GVMW-37B 6/5/2025	OSABH-17 6/23/2025
Aluminum - Dissolved	5	7	mg/L		19.8	883	449	485	25.3	<0.080	<0.080	<0.080	<0.080	3.880
Ammonia	NA	NA	mg/L		<0.030	<0.030	<0.030	0.128	<0.030	<0.030	<0.030	<0.030	<0.030	0.062
Antimony - Dissolved	0.006	NA	mg/L		<0.00100	<0.00100	<0.00100	<0.00100	0.00100	0.00427	<0.00100	0.0011	<0.00100	<0.0200
Arsenic - Dissolved	0.01	NA	mg/L		0.00718	0.215	0.0676	0.204	0.00176	<0.00100	<0.00100	0.00228	<0.00100	0.554
Barium - Dissolved	2	NA	mg/L		0.021	0.0102	0.0108	0.0182	0.0298	0.0622	0.0123	0.0715	0.109	<0.0200
Beryllium - Dissolved	0.004	NA	mg/L		0.0238	0.626	0.632	0.547	0.0225	<0.00200	<0.00200	<0.00200	<0.00200	0.723
Boron - Total	0.75	NA	mg/L		<0.0400	<0.0400	<0.0400	<0.0400	0.054	<0.0400	<0.0400	<0.0400	<0.0400	<0.400
Cadmium - Dissolved	0.005	0.005	mg/L		0.0666	1.75	0.361	1.03	0.102	<0.0020	<0.0020	<0.0020	<0.0020	8.35
Chloride - Total	250	NA	mg/L		135	4.07	2.62	5.26	25.2	16.7	86.8	3.89	6.18	27.8
Chromium - Dissolved	0.1	NA	mg/L		<0.0060	0.168	0.297	0.0562	<0.0060	<0.0060	<0.0060	<0.0060	<0.0060	0.655
Cobalt - Dissolved	0.05	NA	mg/L		0.0479	1.58	0.627	0.628	0.0905	<0.0060	<0.0060	<0.0060	<0.0060	18.5
Copper - Dissolved	0.2	0.2	mg/L		0.0639	4.29	0.289	1.09	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	14.1
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		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0226
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	<0.0500
Fluoride - Total F	2	2	mg/L		4.04	104	19.7	96	31.8	0.173	0.109	1.5	1.28	598
Iron - Dissolved	0.3	14	mg/L		1.05	39.8	23.9	1.79	<0.100	<0.100	<0.100	<0.100	<0.100	68.9
Lead - Dissolved	0.05	NA	mg/L		<0.0075	0.0126	0.0115	0.0188	<0.0075	<0.0075	<0.0075	<0.0075	<0.0075	0.0995
Lithium - Dissolved	2.5	NA	mg/L		0.051	0.332	0.386	0.195	0.38	0.071	0.101	<0.040	<0.040	2.03
Manganese - Dissolved	0.05	3	mg/L		12.5	267	70.5	184	117	<0.0080	0.3	0.034	1.22	1.410
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
Molybdenum - Dissolved	0.21	NA	mg/L		<0.0080	0.0291	<0.0080	0.0198	<0.0080	0.0131	<0.0080	0.0212	<0.0080	<0.0800
Nickel - Dissolved	0.1	NA	mg/L		0.115	2.69	1.84	1.57	0.494	<0.0100	<0.0100	<0.0100	<0.0100	15.3
Nitrate as Nitrogen	10	10	mg/L		2.24	<0.500	2.47	5.46	10.7	0.057	15	<0.050	0.113	<2.50
Nitrite + Nitrate as Nitrogen	10	11	mg/L		<2.50	<1.00	2.5	5.49	10.8	0.107	15.1	<0.100	0.134	<5.00
Nitrite as Nitrogen	1	1	mg/L		<1.25	<0.500	<0.500	<0.250	<0.250	<0.050	0.093	<0.050	<0.050	<2.50
pH Field	6.5-8.5	6.0-8.5	pH units		4.93	3.1	3.12	3.86	5.71	12.01	8.37	9.19	8.14	3.14
Selenium - Dissolved	0.02	0.024	mg/L		<0.00100	0.0217	0.0083	0.0205	0.0146	<0.00100	0.00611	<0.00100	<0.00100	0.0569
Silver - Dissolved	0.05	NA	mg/L		<0.0050	0.189	<0.0050	0.174	0.0053	<0.0050	<0.0050	<0.0050	<0.0050	<0.0500
Sodium - Dissolved	NA	NA	mg/L		45.2	33.1	36.4	83.2	51.3	38.4	16.5	36.7	48.2	13.1
Sulfate - Total	250	NA	mg/L		607	8,630	4,850	5,500	2,830	394	1,380	166	552	30,400
Thallium - Dissolved	0.002	NA	mg/L		<0.000200	<0.00200	<0.00100	<0.00200	<0.00100	<0.000200	<0.000200	<0.000200	<0.000200	<0.00400
Total Dissolved Solids	NA	NA	mg/L		1,060	12,100	7,340	7,900	4,740	795	2,520	338	912	48,000
Uranium - Dissolved	0.03	NA	mg/L		0.0707	2.6	0.971	1.84	0.0501	0.000174	0.00592	0.00289	0.00547	13.4
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	<0.0500
Zinc - Dissolved	2	2	mg/L		2.32	77.1	6.12	27.2	12.3	0.0168	0.0161	0.0113	0.0119	309

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

Attachment 1

Laboratory Analytical Reports



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0047**

Reported: 16-Jul-25 11:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-24B	X5G0047-01	Ground Water	01-Jul-25 09:40	JC	02-Jul-2025	
GVMW-26A	X5G0047-02	Ground Water	01-Jul-25 11:33	JC	02-Jul-2025	
GVMW-26B	X5G0047-03	Ground Water	01-Jul-25 11:19	JC	02-Jul-2025	Q3
GVMW-22B	X5G0047-04	Ground Water	01-Jul-25 12:50	JC	02-Jul-2025	
GVMW-22A	X5G0047-05	Ground Water	01-Jul-25 13:05	JC	02-Jul-2025	

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: X5G0047

The state of origin only accredits for drinking water analyses.

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0047**

Reported: 16-Jul-25 11:18

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

Sampled: 01-Jul-25 09:40

Received: 02-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0047-01 (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	487	mg/L	0.500	0.345	5	X528086	SJN	07/15/25 14:50	M4
EPA 200.7	Magnesium	129	mg/L	0.500	0.090		X528086	SJN	07/15/25 13:11	
EPA 200.7	Potassium	2.95	mg/L	0.50	0.18		X528086	SJN	07/15/25 13:11	
SM 2340 B	Hardness (as CaCO3)	1630	mg/L	2.31	0.543		N/A		07/15/25 13:11	

Metals (Dissolved)

EPA 200.7	Aluminum	2.74	mg/L	0.080	0.054		X528082	MAC	07/09/25 11:21	
EPA 200.7	Barium	0.0152	mg/L	0.0020	0.0019		X528082	MAC	07/09/25 11:21	
EPA 200.7	Beryllium	0.00997	mg/L	0.00200	0.00080		X528082	MAC	07/09/25 11:21	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X528082	MAC	07/09/25 11:21	
EPA 200.7	Cadmium	0.0112	mg/L	0.0020	0.0016		X528082	MAC	07/09/25 11:21	
EPA 200.7	Calcium	453	mg/L	0.100	0.069		X528082	MAC	07/09/25 11:21	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X528082	MAC	07/09/25 11:21	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X528082	MAC	07/09/25 11:21	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X528082	MAC	07/09/25 11:21	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X528082	MAC	07/09/25 11:21	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X528082	MAC	07/09/25 11:21	
EPA 200.7	Lithium	0.099	mg/L	0.040	0.025		X528082	MAC	07/09/25 11:21	
EPA 200.7	Magnesium	122	mg/L	0.500	0.090		X528082	MAC	07/09/25 11:21	
EPA 200.7	Manganese	2.85	mg/L	0.0080	0.0034		X528082	JRR	07/10/25 06:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X528082	MAC	07/09/25 11:21	
EPA 200.7	Nickel	0.115	mg/L	0.0100	0.0048		X528082	MAC	07/09/25 11:21	
EPA 200.7	Potassium	2.83	mg/L	0.50	0.18		X528082	MAC	07/09/25 11:21	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X528082	MAC	07/09/25 11:21	
EPA 200.7	Sodium	22.3	mg/L	0.50	0.12		X528082	JRR	07/10/25 06:43	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X528082	MAC	07/09/25 11:21	
EPA 200.7	Zinc	0.172	mg/L	0.0100	0.0054		X528082	MAC	07/09/25 11:21	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 07:38	
EPA 200.8	Arsenic	0.00443	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 07:38	
EPA 200.8	Selenium	0.00207	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 07:38	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 07:38	
EPA 200.8	Uranium	0.00658	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 07:38	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528093	SJN	07/11/25 14:07	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 11:11	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X528066	JPM	07/09/25 07:21	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528008	ORW	07/08/25 10:17	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X528001	JPM	07/07/25 08:54	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X528137	MWD	07/10/25 12:26	
SM 2320 B	Total Alkalinity	8.3	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 17:22	
SM 2320 B	Bicarbonate	8.3	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 17:22	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 17:22	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 17:22	
SM 2540 C	Total Diss. Solids	2390	mg/L	40			X527174	TJL	07/07/25 12:35	
SM 2540 D	Total Susp. Solids	8.0	mg/L	5.0			X527176	TJL	07/07/25 11:55	
SM 4500 H B	pH @25.2°C	5.8	pH Units				X528060	MWD	07/08/25 17:22	H5



One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0047 Reported: 16-Jul-25 11:18
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Client Sample ID: **GVMW-24B**
SVL Sample ID: **X5G0047-01 (Ground Water)**

Sampled: 01-Jul-25 09:40
Received: 02-Jul-25
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	31.8	mg/L	10.0	1.10	50	X527078	RS	07/03/25 00:53	
EPA 300.0	Fluoride	2.58	mg/L	0.100	0.017		X527078	RS	07/03/25 00:35	
EPA 300.0	Nitrate as N	1.88	mg/L	0.050	0.013		X527078	RS	07/03/25 00:35	
EPA 300.0	Nitrate+Nitrite as N	1.88	mg/L	0.100	0.044		X527078	RS	07/03/25 00:35	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X527078	RS	07/03/25 00:35	
EPA 300.0	Sulfate as SO4	1640	mg/L	15.0	9.00	50	X527078	RS	07/03/25 00:53	

Cation/Anion Balance and TDS Ratios

Cation Sum: 34.1 meq/L	Anion Sum: 35.5 meq/L	C/A Balance: -1.95 %	Calculated TDS: 2308	TDS/cTDS: 1.04
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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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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0047**

Reported: 16-Jul-25 11:18

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

Sampled: 01-Jul-25 11:33

Received: 02-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0047-02 (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	31.1	mg/L	0.100	0.069		X528086	SJN	07/15/25 13:22	
EPA 200.7	Magnesium	6.74	mg/L	0.500	0.090		X528086	SJN	07/15/25 13:22	
EPA 200.7	Potassium	1.13	mg/L	0.50	0.18		X528086	SJN	07/15/25 13:22	
SM 2340 B	Hardness (as CaCO3)	99.9	mg/L	2.31	0.543		N/A		07/15/25 13:22	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X528082	MAC	07/09/25 11:25	
EPA 200.7	Barium	0.200	mg/L	0.0020	0.0019		X528082	MAC	07/09/25 11:25	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X528082	MAC	07/09/25 11:25	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X528082	MAC	07/09/25 11:25	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X528082	MAC	07/09/25 11:25	
EPA 200.7	Calcium	29.4	mg/L	0.100	0.069		X528082	MAC	07/09/25 11:25	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X528082	MAC	07/09/25 11:25	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X528082	MAC	07/09/25 11:25	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X528082	MAC	07/09/25 11:25	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X528082	MAC	07/09/25 11:25	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X528082	MAC	07/09/25 11:25	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X528082	MAC	07/09/25 11:25	
EPA 200.7	Magnesium	6.44	mg/L	0.500	0.090		X528082	MAC	07/09/25 11:25	
EPA 200.7	Manganese	0.0117	mg/L	0.0080	0.0034		X528082	JRR	07/10/25 06:47	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X528082	MAC	07/09/25 11:25	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X528082	MAC	07/09/25 11:25	
EPA 200.7	Potassium	1.12	mg/L	0.50	0.18		X528082	MAC	07/09/25 11:25	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X528082	MAC	07/09/25 11:25	
EPA 200.7	Sodium	31.4	mg/L	0.50	0.12		X528082	JRR	07/10/25 06:47	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X528082	MAC	07/09/25 11:25	
EPA 200.7	Zinc	0.0109	mg/L	0.0100	0.0054		X528082	MAC	07/09/25 11:25	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 07:47	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 07:47	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 07:47	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 07:47	
EPA 200.8	Uranium	0.00346	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 07:47	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528093	SJN	07/11/25 15:24	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 11:14	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X528066	JPM	07/09/25 07:31	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528008	ORW	07/08/25 10:20	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X528001	JPM	07/07/25 09:10	
SM 2310 B	Acidity to pH 8.3	-152	mg/L as CaCO3	10.0			X528137	MWD	07/10/25 12:26	
SM 2320 B	Total Alkalinity	154	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:31	
SM 2320 B	Bicarbonate	154	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:31	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:31	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:31	
SM 2540 C	Total Diss. Solids	198	mg/L	10			X527174	TJL	07/07/25 12:35	R2B
SM 2540 D	Total Susp. Solids	11.0	mg/L	5.0			X527176	TJL	07/07/25 11:55	
SM 4500 H B	pH @21.5°C	7.9	pH Units				X528060	MWD	07/08/25 12:31	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 18



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Cripple Creek & Victor Gold Mining Company
 Ironclad Security 1632 County Rd 82
 Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0047**

Reported: 16-Jul-25 11:18

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

Sampled: 01-Jul-25 11:33

SVL Sample ID: **X5G0047-02 (Ground Water)**

Received: 02-Jul-25

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	1.28	mg/L	0.20	0.02		X527078	RS	07/03/25 01:12	
EPA 300.0	Fluoride	1.94	mg/L	0.100	0.017		X527078	RS	07/03/25 01:12	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X527078	RS	07/03/25 01:12	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X527078	RS	07/03/25 01:12	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X527078	RS	07/03/25 01:12	
EPA 300.0	Sulfate as SO4	15.5	mg/L	0.30	0.18		X527078	RS	07/03/25 01:12	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.41 meq/L Anion Sum: 3.54 meq/L C/A Balance: -1.92 % Calculated TDS: 180 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



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0047**

Reported: 16-Jul-25 11:18

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

Sampled: 01-Jul-25 11:19

Received: 02-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0047-03 (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	10.8	mg/L	0.100	0.069		X528086	SJN	07/15/25 13:26	
EPA 200.7	Magnesium	2.15	mg/L	0.500	0.090		X528086	SJN	07/15/25 13:26	
EPA 200.7	Potassium	0.81	mg/L	0.50	0.18		X528086	SJN	07/15/25 13:26	
SM 2340 B	Hardness (as CaCO3)	35.0	mg/L	2.31	0.543		N/A		07/15/25 13:26	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X528082	MAC	07/09/25 11:36	
EPA 200.7	Barium	0.103	mg/L	0.0020	0.0019		X528082	MAC	07/09/25 11:36	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X528082	MAC	07/09/25 11:36	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X528082	MAC	07/09/25 11:36	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X528082	MAC	07/09/25 11:36	
EPA 200.7	Calcium	10.6	mg/L	0.100	0.069		X528082	MAC	07/09/25 11:36	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X528082	MAC	07/09/25 11:36	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X528082	MAC	07/09/25 11:36	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X528082	MAC	07/09/25 11:36	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X528082	MAC	07/09/25 11:36	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X528082	MAC	07/09/25 11:36	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X528082	MAC	07/09/25 11:36	
EPA 200.7	Magnesium	2.04	mg/L	0.500	0.090		X528082	MAC	07/09/25 11:36	
EPA 200.7	Manganese	0.0101	mg/L	0.0080	0.0034		X528082	JRR	07/10/25 06:58	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X528082	MAC	07/09/25 11:36	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X528082	MAC	07/09/25 11:36	
EPA 200.7	Potassium	0.96	mg/L	0.50	0.18		X528082	MAC	07/09/25 11:36	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X528082	MAC	07/09/25 11:36	
EPA 200.7	Sodium	10.1	mg/L	0.50	0.12		X528082	JRR	07/10/25 06:58	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X528082	MAC	07/09/25 11:36	
EPA 200.7	Zinc	0.0135	mg/L	0.0100	0.0054		X528082	MAC	07/09/25 11:36	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 07:50	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 07:50	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 07:50	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 07:50	
EPA 200.8	Uranium	0.000107	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 07:50	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528093	SJN	07/11/25 15:26	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 11:17	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X528066	JPM	07/09/25 07:33	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528008	ORW	07/08/25 10:23	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X528001	JPM	07/07/25 09:12	
SM 2310 B	Acidity to pH 8.3	-32.1	mg/L as CaCO3	10.0			X528137	MWD	07/10/25 12:26	
SM 2320 B	Total Alkalinity	33.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:37	
SM 2320 B	Bicarbonate	33.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:37	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:37	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:37	
SM 2540 C	Total Diss. Solids	99	mg/L	10			X527174	TJL	07/07/25 12:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X527176	TJL	07/07/25 11:55	
SM 4500 H B	pH @21.9°C	6.6	pH Units				X528060	MWD	07/08/25 12:37	H5

SVL holds the following certifications:

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

Work order Report Page 6 of 18



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0047 Reported: 16-Jul-25 11:18
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Client Sample ID: **GVMW-26B**
SVL Sample ID: **X5G0047-03 (Ground Water)**

Sampled: 01-Jul-25 11:19
Received: 02-Jul-25
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	1.91	mg/L	0.20	0.02		X527078	RS	07/03/25 01:48	
EPA 300.0	Fluoride	0.218	mg/L	0.100	0.017		X527078	RS	07/03/25 01:48	
EPA 300.0	Nitrate as N	0.793	mg/L	0.050	0.013		X527078	RS	07/03/25 01:48	
EPA 300.0	Nitrate+Nitrite as N	0.793	mg/L	0.100	0.044		X527078	RS	07/03/25 01:48	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X527078	RS	07/03/25 01:48	
EPA 300.0	Sulfate as SO4	20.5	mg/L	0.30	0.18		X527078	RS	07/03/25 01:48	

Cation/Anion Balance and TDS Ratios

Cation Sum: 1.17 meq/L	Anion Sum: 1.21 meq/L	C/A Balance: -1.53 %	Calculated TDS: 70	TDS/cTDS: 1.42
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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

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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0047**

Reported: 16-Jul-25 11:18

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

Sampled: 01-Jul-25 12:50

Received: 02-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0047-04 (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	32.2	mg/L	0.100	0.069		X528086	SJN	07/15/25 13:30	
EPA 200.7	Magnesium	8.17	mg/L	0.500	0.090		X528086	SJN	07/15/25 13:30	
EPA 200.7	Potassium	1.40	mg/L	0.50	0.18		X528086	SJN	07/15/25 13:30	
SM 2340 B	Hardness (as CaCO3)	113	mg/L	2.31	0.543		N/A		07/15/25 13:30	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X528082	MAC	07/09/25 11:40	
EPA 200.7	Barium	0.0585	mg/L	0.0020	0.0019		X528082	MAC	07/09/25 11:40	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X528082	MAC	07/09/25 11:40	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X528082	MAC	07/09/25 11:40	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X528082	MAC	07/09/25 11:40	
EPA 200.7	Calcium	31.7	mg/L	0.100	0.069		X528082	MAC	07/09/25 11:40	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X528082	MAC	07/09/25 11:40	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X528082	MAC	07/09/25 11:40	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X528082	MAC	07/09/25 11:40	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X528082	MAC	07/09/25 11:40	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X528082	MAC	07/09/25 11:40	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X528082	MAC	07/09/25 11:40	
EPA 200.7	Magnesium	7.92	mg/L	0.500	0.090		X528082	MAC	07/09/25 11:40	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X528082	JRR	07/10/25 07:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X528082	MAC	07/09/25 11:40	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X528082	MAC	07/09/25 11:40	
EPA 200.7	Potassium	1.48	mg/L	0.50	0.18		X528082	MAC	07/09/25 11:40	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X528082	MAC	07/09/25 11:40	
EPA 200.7	Sodium	17.7	mg/L	0.50	0.12		X528082	JRR	07/10/25 07:02	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X528082	MAC	07/09/25 11:40	
EPA 200.7	Zinc	0.0111	mg/L	0.0100	0.0054		X528082	MAC	07/09/25 11:40	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 07:53	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 07:53	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 07:53	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 07:53	
EPA 200.8	Uranium	0.000574	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 07:53	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528093	SJN	07/11/25 15:28	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 11:20	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X528066	JPM	07/09/25 07:35	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528008	ORW	07/08/25 10:25	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X528001	JPM	07/07/25 09:15	
SM 2310 B	Acidity to pH 8.3	-69.1	mg/L as CaCO3	10.0			X528137	MWD	07/10/25 12:26	
SM 2320 B	Total Alkalinity	62.3	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:42	
SM 2320 B	Bicarbonate	62.3	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:42	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:42	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:42	
SM 2540 C	Total Diss. Solids	210	mg/L	10			X527174	TJL	07/07/25 12:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X527176	TJL	07/07/25 11:55	
SM 4500 H B	pH @22.1°C	6.8	pH Units				X528060	MWD	07/08/25 12:42	H5

SVL holds the following certifications:

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

Work order Report Page 8 of 18



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0047 Reported: 16-Jul-25 11:18
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Client Sample ID: **GVMW-22B**
SVL Sample ID: **X5G0047-04 (Ground Water)**

Sampled: 01-Jul-25 12:50
Received: 02-Jul-25
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	11.1	mg/L	0.20	0.02		X527078	RS	07/03/25 02:07	
EPA 300.0	Fluoride	0.337	mg/L	0.100	0.017		X527078	RS	07/03/25 02:07	
EPA 300.0	Nitrate as N	0.864	mg/L	0.050	0.013		X527078	RS	07/03/25 02:07	
EPA 300.0	Nitrate+Nitrite as N	0.864	mg/L	0.100	0.044		X527078	RS	07/03/25 02:07	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X527078	RS	07/03/25 02:07	
EPA 300.0	Sulfate as SO4	71.6	mg/L	3.00	1.80	10	X527078	RS	07/03/25 02:25	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.05 meq/L	Anion Sum: 3.13 meq/L	C/A Balance: -1.21 %	Calculated TDS: 183	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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0047**

Reported: 16-Jul-25 11:18

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

Sampled: 01-Jul-25 13:05

SVL Sample ID: **X5G0047-05 (Ground Water)**

Received: 02-Jul-25

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	29.1	mg/L	0.100	0.069		X528086	SJN	07/15/25 13:34	
EPA 200.7	Magnesium	11.4	mg/L	0.500	0.090		X528086	SJN	07/15/25 13:34	
EPA 200.7	Potassium	1.34	mg/L	0.50	0.18		X528086	SJN	07/15/25 13:34	
SM 2340 B	Hardness (as CaCO3)	119	mg/L	2.31	0.543		N/A		07/15/25 13:34	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X528082	MAC	07/09/25 11:44	
EPA 200.7	Barium	0.101	mg/L	0.0020	0.0019		X528082	MAC	07/09/25 11:44	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X528082	MAC	07/09/25 11:44	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X528082	MAC	07/09/25 11:44	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X528082	MAC	07/09/25 11:44	
EPA 200.7	Calcium	28.8	mg/L	0.100	0.069		X528082	MAC	07/09/25 11:44	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X528082	MAC	07/09/25 11:44	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X528082	MAC	07/09/25 11:44	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X528082	MAC	07/09/25 11:44	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X528082	MAC	07/09/25 11:44	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X528082	MAC	07/09/25 11:44	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X528082	MAC	07/09/25 11:44	
EPA 200.7	Magnesium	11.2	mg/L	0.500	0.090		X528082	MAC	07/09/25 11:44	
EPA 200.7	Manganese	0.0101	mg/L	0.0080	0.0034		X528082	JRR	07/10/25 07:06	
EPA 200.7	Molybdenum	0.0100	mg/L	0.0080	0.0034		X528082	MAC	07/09/25 11:44	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X528082	MAC	07/09/25 11:44	
EPA 200.7	Potassium	1.49	mg/L	0.50	0.18		X528082	MAC	07/09/25 11:44	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X528082	MAC	07/09/25 11:44	
EPA 200.7	Sodium	36.4	mg/L	0.50	0.12		X528082	JRR	07/10/25 07:06	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X528082	MAC	07/09/25 11:44	
EPA 200.7	Zinc	0.0132	mg/L	0.0100	0.0054		X528082	MAC	07/09/25 11:44	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 07:56	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 07:56	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 07:56	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 07:56	
EPA 200.8	Uranium	0.00353	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 07:56	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528093	SJN	07/11/25 15:30	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 11:23	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X528066	JPM	07/09/25 07:37	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528008	ORW	07/08/25 10:28	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X528001	JPM	07/07/25 09:18	
SM 2310 B	Acidity to pH 8.3	-152	mg/L as CaCO3	10.0			X528137	MWD	07/10/25 12:26	
SM 2320 B	Total Alkalinity	164	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:56	
SM 2320 B	Bicarbonate	164	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:56	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:56	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 12:56	
SM 2540 C	Total Diss. Solids	229	mg/L	10			X527174	TJL	07/07/25 12:35	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X527176	TJL	07/07/25 11:55	
SM 4500 H B	pH @22.4°C	7.7	pH Units				X528060	MWD	07/08/25 12:56	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0047 Reported: 16-Jul-25 11:18
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Client Sample ID: **GVMW-22A**
SVL Sample ID: **X5G0047-05 (Ground Water)**

Sampled: 01-Jul-25 13:05
Received: 02-Jul-25
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	4.06	mg/L	0.20	0.02		X527078	RS	07/03/25 02:43	
EPA 300.0	Fluoride	2.21	mg/L	0.100	0.017		X527078	RS	07/03/25 02:43	
EPA 300.0	Nitrate as N	0.058	mg/L	0.050	0.013		X527078	RS	07/03/25 02:43	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X527078	RS	07/03/25 02:43	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X527078	RS	07/03/25 02:43	
EPA 300.0	Sulfate as SO4	32.4	mg/L	0.30	0.18		X527078	RS	07/03/25 02:43	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.99 meq/L	Anion Sum: 4.19 meq/L	C/A Balance: -2.37 %	Calculated TDS: 215	TDS/cTDS: 1.06
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0047**

Reported: 16-Jul-25 11:18

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	X528086	15-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X528086	15-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X528086	15-Jul-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X528082	10-Jul-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X528082	10-Jul-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X528082	10-Jul-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X528082	10-Jul-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X528082	10-Jul-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X528082	10-Jul-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X528082	10-Jul-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X528082	10-Jul-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X528082	10-Jul-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X528082	10-Jul-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X528082	10-Jul-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X528082	10-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X528082	10-Jul-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X528082	10-Jul-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X528082	10-Jul-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X528082	10-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X528082	10-Jul-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X528082	10-Jul-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X528082	10-Jul-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X528082	10-Jul-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X528082	10-Jul-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X528147	11-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X528147	11-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X528147	11-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X528147	11-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X528147	11-Jul-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X528093	11-Jul-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X529001	14-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X528066	09-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X528008	08-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X528001	07-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X528137	10-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X528060	08-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X528060	08-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X528060	08-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X528060	08-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X527174	07-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X527176	07-Jul-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X527078	02-Jul-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X527078	02-Jul-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X527078	02-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X527078	02-Jul-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X527078	02-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X527078	02-Jul-25	



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Kellogg, ID 83837-0929

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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0047**

Reported: 16-Jul-25 11:18

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	X528086	15-Jul-25	
EPA 200.7	Magnesium	mg/L	19.2	20.0	95.8	85 - 115	X528086	15-Jul-25	
EPA 200.7	Potassium	mg/L	19.7	20.0	98.3	85 - 115	X528086	15-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.989	1.00	98.9	85 - 115	X528082	09-Jul-25	
EPA 200.7	Barium	mg/L	0.987	1.00	98.7	85 - 115	X528082	09-Jul-25	
EPA 200.7	Beryllium	mg/L	0.966	1.00	96.6	85 - 115	X528082	09-Jul-25	
EPA 200.7	Boron	mg/L	0.982	1.00	98.2	85 - 115	X528082	09-Jul-25	
EPA 200.7	Cadmium	mg/L	0.958	1.00	95.8	85 - 115	X528082	09-Jul-25	
EPA 200.7	Calcium	mg/L	19.8	20.0	98.8	85 - 115	X528082	09-Jul-25	
EPA 200.7	Chromium	mg/L	1.00	1.00	100	85 - 115	X528082	09-Jul-25	
EPA 200.7	Cobalt	mg/L	0.953	1.00	95.3	85 - 115	X528082	09-Jul-25	
EPA 200.7	Copper	mg/L	0.979	1.00	97.9	85 - 115	X528082	09-Jul-25	
EPA 200.7	Iron	mg/L	9.66	10.0	96.6	85 - 115	X528082	09-Jul-25	
EPA 200.7	Lead	mg/L	0.974	1.00	97.4	85 - 115	X528082	09-Jul-25	
EPA 200.7	Lithium	mg/L	0.937	1.00	93.7	85 - 115	X528082	09-Jul-25	
EPA 200.7	Magnesium	mg/L	18.7	20.0	93.4	85 - 115	X528082	09-Jul-25	
EPA 200.7	Manganese	mg/L	0.991	1.00	99.1	85 - 115	X528082	10-Jul-25	
EPA 200.7	Molybdenum	mg/L	1.01	1.00	101	85 - 115	X528082	09-Jul-25	
EPA 200.7	Nickel	mg/L	0.968	1.00	96.8	85 - 115	X528082	09-Jul-25	
EPA 200.7	Potassium	mg/L	19.5	20.0	97.7	85 - 115	X528082	09-Jul-25	
EPA 200.7	Silver	mg/L	0.0495	0.0500	98.9	85 - 115	X528082	09-Jul-25	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.4	85 - 115	X528082	10-Jul-25	
EPA 200.7	Vanadium	mg/L	0.981	1.00	98.1	85 - 115	X528082	09-Jul-25	
EPA 200.7	Zinc	mg/L	0.923	1.00	92.3	85 - 115	X528082	09-Jul-25	
EPA 200.8	Antimony	mg/L	0.0232	0.0250	92.8	85 - 115	X528147	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.1	85 - 115	X528147	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0221	0.0250	88.5	85 - 115	X528147	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0241	0.0250	96.6	85 - 115	X528147	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0246	0.0250	98.4	85 - 115	X528147	11-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00200	0.00200	99.9	85 - 115	X528093	11-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.100	0.100	100	90 - 110	X529001	14-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X528066	09-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.975	1.00	97.5	90 - 110	X528008	08-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X528001	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.3	99.3	100	94 - 106	X528060	08-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	404	397	102	94 - 106	X528060	08-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	251	250	100	85 - 115	X527174	07-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X527176	07-Jul-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X527078	02-Jul-25	
EPA 300.0	Fluoride	mg/L	2.04	2.00	102	90 - 110	X527078	02-Jul-25	
EPA 300.0	Nitrate as N	mg/L	2.00	2.00	100	90 - 110	X527078	02-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.56	4.50	101	90 - 110	X527078	02-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.56	2.50	102	90 - 110	X527078	02-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X527078	02-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 13 of 18

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0047**

Reported: 16-Jul-25 11:18

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	X528137 - X5G0047-01	10-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	151	154	2.1	20	X528060 - X5G0047-02	08-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	151	154	2.1	20	X528060 - X5G0047-02	08-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X528060 - X5G0047-02	08-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X528060 - X5G0047-02	08-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	229	198	14.5	10	X527174 - X5G0047-02	07-Jul-25	R2B
SM 2540 C	Total Diss. Solids	mg/L	266	266	0.0	10	X527174 - X5G0063-02	07-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X527176 - X5G0063-02	07-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	11.0	11.0	0.0	10	X527176 - X5G0047-02	07-Jul-25	
SM 4500 H B	pH @21.4°C	pH Units	7.7	7.9	1.9	20	X528060 - X5G0047-02	08-Jul-25	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	33.3	12.6	20.0	104	70 - 130	X528086 - X5G0062-04	15-Jul-25	M4
EPA 200.7	Calcium	mg/L	499	487	20.0	0.30R>S	70 - 130	X528086 - X5G0047-01	15-Jul-25	
EPA 200.7	Magnesium	mg/L	147	129	20.0	90.6	70 - 130	X528086 - X5G0047-01	15-Jul-25	
EPA 200.7	Magnesium	mg/L	24.3	4.32	20.0	100	70 - 130	X528086 - X5G0062-04	15-Jul-25	
EPA 200.7	Potassium	mg/L	23.6	2.95	20.0	104	70 - 130	X528086 - X5G0047-01	15-Jul-25	
EPA 200.7	Potassium	mg/L	21.2	0.95	20.0	101	70 - 130	X528086 - X5G0062-04	15-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.997	<0.080	1.00	99.7	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Aluminum	mg/L	0.972	<0.080	1.00	97.2	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Barium	mg/L	1.16	0.200	1.00	95.7	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Barium	mg/L	1.05	0.0328	1.00	102	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Beryllium	mg/L	0.945	<0.00200	1.00	94.5	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Beryllium	mg/L	0.982	<0.00200	1.00	98.2	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Boron	mg/L	0.985	<0.0400	1.00	96.4	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Boron	mg/L	1.06	0.0482	1.00	101	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Cadmium	mg/L	0.931	<0.0020	1.00	93.1	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Cadmium	mg/L	0.977	<0.0020	1.00	97.7	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Calcium	mg/L	48.4	29.4	20.0	95.2	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Calcium	mg/L	254	235	20.0	95.9	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Chromium	mg/L	0.972	<0.0060	1.00	97.2	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Cobalt	mg/L	0.910	<0.0060	1.00	91.0	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Cobalt	mg/L	0.963	<0.0060	1.00	96.3	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Copper	mg/L	0.921	<0.0100	1.00	92.1	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Copper	mg/L	0.998	<0.0100	1.00	99.8	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Iron	mg/L	9.45	<0.100	10.0	94.5	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Iron	mg/L	9.91	<0.100	10.0	99.1	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Lead	mg/L	0.943	<0.0075	1.00	94.3	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Lead	mg/L	0.997	<0.0075	1.00	99.7	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Lithium	mg/L	0.948	<0.040	1.00	94.8	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Lithium	mg/L	1.12	0.073	1.00	105	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Magnesium	mg/L	25.3	6.44	20.0	94.1	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Maegnesium	mg/L	56.5	35.3	20.0	106	70 - 130	X528082 - X5G0081-03	10-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 14 of 18

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0047**

Reported: 16-Jul-25 11:18

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	0.997	0.0117	1.00	98.5	70 - 130	X528082 - X5G0047-02	10-Jul-25	
EPA 200.7	Manganese	mg/L	1.03	<0.0080	1.00	103	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.976	<0.0080	1.00	97.2	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Molybdenum	mg/L	1.04	<0.0080	1.00	103	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Nickel	mg/L	0.926	<0.0100	1.00	92.6	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Nickel	mg/L	0.987	<0.0100	1.00	97.8	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Potassium	mg/L	20.1	1.12	20.0	94.7	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Potassium	mg/L	25.9	5.73	20.0	101	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.5	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Silver	mg/L	0.0328	<0.0050	0.0500	65.6	70 - 130	X528082 - X5G0081-03	10-Jul-25	M2
EPA 200.7	Sodium	mg/L	49.2	31.4	19.0	93.9	70 - 130	X528082 - X5G0047-02	10-Jul-25	
EPA 200.7	Sodium	mg/L	59.8	41.4	19.0	96.6	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Vanadium	mg/L	0.960	<0.0050	1.00	96.0	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Zinc	mg/L	0.927	0.0109	1.00	91.6	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Zinc	mg/L	0.970	<0.0100	1.00	97.0	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.8	Antimony	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Antimony	mg/L	0.0261	<0.00100	0.0250	104	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0324	0.00443	0.0250	112	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0265	<0.00100	0.0250	104	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0274	0.00207	0.0250	101	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0252	<0.00100	0.0250	99.6	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0280	<0.000200	0.0250	112	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0253	<0.000200	0.0250	101	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0365	0.00658	0.0250	120	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0265	<0.000100	0.0250	106	70 - 130	X528147 - X5G0136-06	11-Jul-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00197	<0.000200	0.00200	98.7	70 - 130	X528093 - X5G0047-01	11-Jul-25	
EPA 245.1	Mercury	mg/L	0.00204	<0.000200	0.00200	102	70 - 130	X528093 - X5G0102-01	11-Jul-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0996	<0.0050	0.100	99.6	79 - 121	X529001 - X5G0047-03	14-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X528066 - X5G0047-03	09-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X528066 - X5G0047-01	09-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.00	<0.030	1.00	100	90 - 110	X528008 - X5G0047-03	08-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.924	<0.030	1.00	92.4	90 - 110	X528008 - X5G0047-02	08-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0952	<0.0050	0.100	95.2	82 - 118	X528001 - X5G0047-01	07-Jul-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.04	<0.20	3.00	97.9	90 - 110	X527078 - X5G0045-14	02-Jul-25	
EPA 300.0	Chloride	mg/L	3.20	<0.20	3.00	100	90 - 110	X527078 - X5G0050-03	03-Jul-25	
EPA 300.0	Fluoride	mg/L	1.99	<0.100	2.00	97.8	90 - 110	X527078 - X5G0045-14	02-Jul-25	
EPA 300.0	Fluoride	mg/L	2.08	<0.100	2.00	102	90 - 110	X527078 - X5G0050-03	03-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.99	<0.050	2.00	98.0	90 - 110	X527078 - X5G0045-14	02-Jul-25	
EPA 300.0	Nitrate as N	mg/L	2.05	<0.050	2.00	100	90 - 110	X527078 - X5G0050-03	03-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.02	<0.100	4.00	101	90 - 110	X527078 - X5G0045-14	02-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.00	<0.100	4.00	98.7	90 - 110	X527078 - X5G0050-03	03-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	102	90 - 110	X527078 - X5G0045-14	02-Jul-25	
EPA 300.0	Nitrite as N	mg/L	1.94	<0.050	2.00	97.2	90 - 110	X527078 - X5G0050-03	03-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	9.91	<0.30	10.0	99.1	90 - 110	X527078 - X5G0045-14	02-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 15 of 18

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0047**

Reported: 16-Jul-25 11:18

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	11.1	0.86	10.0	102	90 - 110	X527078 - X5G0050-03	03-Jul-25	
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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	491	499	20.0	1.0	20	0.30R>S	X528086 - X5G0047-01	M4
EPA 200.7	Magnesium	mg/L	148	147	20.0	0.8	20	96.4	X528086 - X5G0047-01	
EPA 200.7	Potassium	mg/L	23.8	23.6	20.0	0.8	20	104	X528086 - X5G0047-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.989	0.997	1.00	0.8	20	98.9	X528082 - X5G0047-02	
EPA 200.7	Barium	mg/L	1.16	1.16	1.00	0.1	20	95.8	X528082 - X5G0047-02	
EPA 200.7	Beryllium	mg/L	0.924	0.945	1.00	2.2	20	92.4	X528082 - X5G0047-02	
EPA 200.7	Boron	mg/L	0.983	0.985	1.00	0.1	20	96.3	X528082 - X5G0047-02	
EPA 200.7	Cadmium	mg/L	0.924	0.931	1.00	0.7	20	92.4	X528082 - X5G0047-02	
EPA 200.7	Calcium	mg/L	47.9	48.4	20.0	1.1	20	92.5	X528082 - X5G0047-02	
EPA 200.7	Chromium	mg/L	0.968	0.972	1.00	0.4	20	96.8	X528082 - X5G0047-02	
EPA 200.7	Cobalt	mg/L	0.906	0.910	1.00	0.4	20	90.6	X528082 - X5G0047-02	
EPA 200.7	Copper	mg/L	0.921	0.921	1.00	0.1	20	92.1	X528082 - X5G0047-02	
EPA 200.7	Iron	mg/L	9.26	9.45	10.0	2.1	20	92.6	X528082 - X5G0047-02	
EPA 200.7	Lead	mg/L	0.934	0.943	1.00	1.0	20	93.4	X528082 - X5G0047-02	
EPA 200.7	Lithium	mg/L	0.947	0.948	1.00	0.0	20	94.7	X528082 - X5G0047-02	
EPA 200.7	Magnesium	mg/L	24.9	25.3	20.0	1.6	20	92.1	X528082 - X5G0047-02	
EPA 200.7	Manganese	mg/L	0.997	0.997	1.00	0.0	20	98.5	X528082 - X5G0047-02	
EPA 200.7	Molybdenum	mg/L	0.972	0.976	1.00	0.4	20	96.8	X528082 - X5G0047-02	
EPA 200.7	Nickel	mg/L	0.920	0.926	1.00	0.6	20	92.0	X528082 - X5G0047-02	
EPA 200.7	Potassium	mg/L	19.7	20.1	20.0	1.9	20	92.8	X528082 - X5G0047-02	
EPA 200.7	Silver	mg/L	0.0483	0.0482	0.0500	0.2	20	96.6	X528082 - X5G0047-02	
EPA 200.7	Sodium	mg/L	49.0	49.2	19.0	0.4	20	92.9	X528082 - X5G0047-02	
EPA 200.7	Vanadium	mg/L	0.958	0.960	1.00	0.3	20	95.8	X528082 - X5G0047-02	
EPA 200.7	Zinc	mg/L	0.923	0.927	1.00	0.3	20	91.2	X528082 - X5G0047-02	
EPA 200.8	Antimony	mg/L	0.0263	0.0252	0.0250	4.5	20	105	X528147 - X5G0047-01	
EPA 200.8	Arsenic	mg/L	0.0337	0.0324	0.0250	3.8	20	117	X528147 - X5G0047-01	
EPA 200.8	Selenium	mg/L	0.0288	0.0274	0.0250	5.1	20	107	X528147 - X5G0047-01	
EPA 200.8	Thallium	mg/L	0.0291	0.0280	0.0250	3.5	20	116	X528147 - X5G0047-01	
EPA 200.8	Uranium	mg/L	0.0377	0.0365	0.0250	3.1	20	124	X528147 - X5G0047-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00195	0.00197	0.00200	1.3	20	97.5	X528093 - X5G0047-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.102	0.0996	0.100	2.8	11	102	X529001 - X5G0047-03	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.102	0.100	0.8	20	103	X528066 - X5G0047-03	
EPA 350.1	Ammonia as N	mg/L	0.981	1.00	1.00	2.3	20	98.1	X528008 - X5G0047-03	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	0.0952	0.100	1.9	11	97.0	X528001 - X5G0047-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.05	3.04	3.00	0.3	20	98.2	X527078 - X5G0045-14	
EPA 300.0	Fluoride	mg/L	1.99	1.99	2.00	0.3	20	98.1	X527078 - X5G0045-14	
EPA 300.0	Nitrate as N	mg/L	2.00	1.99	2.00	0.4	20	98.4	X527078 - X5G0045-14	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	4.02	4.00	0.5	20	101	X527078 - X5G0045-14	
EPA 300.0	Nitrite as N	mg/L	2.04	2.03	2.00	0.6	20	102	X527078 - X5G0045-14	



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Kellogg, ID 83837-0929
(208) 784-1258
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Cripple Creek & Victor Gold Mining Company					Project Name: Cripple Creek/Victor Water and Soil 2024				
Ironclad Security 1632 County Rd 82					Work Order: X5G0047				
Cripple Creek, CO 80813					Reported: 16-Jul-25 11:18				

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	9.93	9.91	10.0	0.3	20	99.3	X527078 - X5G0045-14	



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0047**

Reported: 16-Jul-25 11:18

Notes and Definitions

H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
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.
Q3	Sample was received with improper chemical preservation.
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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0072**

Reported: 17-Jul-25 14:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-37A	X5G0072-01	Ground Water	02-Jul-25 13:30	TR	03-Jul-2025	
GVMW-37B	X5G0072-02	Ground Water	02-Jul-25 13:52	TR	03-Jul-2025	

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: X5G0072

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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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0072**

Reported: 17-Jul-25 14:29

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

Sampled: 02-Jul-25 13:30

SVL Sample ID: **X5G0072-01 (Ground Water)**

Received: 03-Jul-25

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	41.7	mg/L	0.100	0.069		X528087	SJN	07/16/25 14:26	
EPA 200.7	Magnesium	10.2	mg/L	0.500	0.090		X528087	SJN	07/16/25 14:26	
EPA 200.7	Potassium	3.65	mg/L	0.50	0.18		X528087	SJN	07/16/25 14:26	
SM 2340 B	Hardness (as CaCO3)	139	mg/L	2.31	0.543		N/A		07/16/25 14:26	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X528082	MAC	07/09/25 11:48	
EPA 200.7	Barium	0.0677	mg/L	0.0020	0.0019		X528082	MAC	07/09/25 11:48	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X528082	MAC	07/09/25 11:48	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X528082	MAC	07/09/25 11:48	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X528082	MAC	07/09/25 11:48	
EPA 200.7	Calcium	39.9	mg/L	0.100	0.069		X528082	MAC	07/09/25 11:48	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X528082	MAC	07/09/25 11:48	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X528082	MAC	07/09/25 11:48	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X528082	MAC	07/09/25 11:48	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X528082	MAC	07/09/25 11:48	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X528082	MAC	07/09/25 11:48	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X528082	MAC	07/09/25 11:48	
EPA 200.7	Magnesium	9.57	mg/L	0.500	0.090		X528082	MAC	07/09/25 11:48	
EPA 200.7	Manganese	0.0262	mg/L	0.0080	0.0034		X528082	JRR	07/10/25 07:10	
EPA 200.7	Molybdenum	0.0211	mg/L	0.0080	0.0034		X528082	MAC	07/09/25 11:48	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X528082	MAC	07/09/25 11:48	
EPA 200.7	Potassium	3.57	mg/L	0.50	0.18		X528082	MAC	07/09/25 11:48	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X528082	MAC	07/09/25 11:48	
EPA 200.7	Sodium	36.7	mg/L	0.50	0.12		X528082	JRR	07/10/25 07:10	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X528082	MAC	07/09/25 11:48	
EPA 200.7	Zinc	0.0107	mg/L	0.0100	0.0054		X528082	MAC	07/09/25 11:48	
EPA 200.8	Antimony	0.00145	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 08:00	
EPA 200.8	Arsenic	0.00254	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 08:00	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 08:00	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 08:00	
EPA 200.8	Uranium	0.00284	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 08:00	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528093	SJN	07/11/25 15:32	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 11:39	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X528066	JPM	07/09/25 08:05	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528008	ORW	07/08/25 10:56	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X528001	JPM	07/07/25 09:21	
SM 2310 B	Acidity to pH 8.3	-59.8	mg/L as CaCO3	10.0			X528137	MWD	07/10/25 12:26	
SM 2320 B	Total Alkalinity	53.9	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 13:39	
SM 2320 B	Bicarbonate	50.4	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 13:39	
SM 2320 B	Carbonate	3.5	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 13:39	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 13:39	
SM 2540 C	Total Diss. Solids	316	mg/L	10			X528014	TJL	07/08/25 12:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X528015	TJL	07/08/25 13:35	
SM 4500 H B	pH @23.6°C	8.5	pH Units				X528060	MWD	07/08/25 13:39	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 11



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0072**

Reported: 17-Jul-25 14:29

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

Sampled: 02-Jul-25 13:30

SVL Sample ID: **X5G0072-01 (Ground Water)**

Received: 03-Jul-25

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	3.75	mg/L	0.20	0.02		X527181	RS	07/04/25 03:08	
EPA 300.0	Fluoride	1.44	mg/L	0.100	0.017		X527181	RS	07/04/25 03:08	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X527181	RS	07/04/25 03:08	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X527181	RS	07/04/25 03:08	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X527181	RS	07/04/25 03:08	
EPA 300.0	Sulfate as SO4	168	mg/L	3.00	1.80	10	X527181	RS	07/04/25 03:27	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.48 meq/L

Anion Sum: 4.76 meq/L

C/A Balance: -3.01 %

Calculated TDS: 297

TDS/cTDS: 1.07

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

Kristi A. Groth

Kristi A. Groth

Project Manager

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0072**

Reported: 17-Jul-25 14:29

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

Sampled: 02-Jul-25 13:52

SVL Sample ID: **X5G0072-02 (Ground Water)**

Received: 03-Jul-25

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	105	mg/L	0.100	0.069		X528087	SJN	07/16/25 14:30	
EPA 200.7	Magnesium	18.2	mg/L	0.500	0.090		X528087	SJN	07/16/25 14:30	
EPA 200.7	Potassium	1.60	mg/L	0.50	0.18		X528087	SJN	07/16/25 14:30	
SM 2340 B	Hardness (as CaCO3)	332	mg/L	2.31	0.543		N/A		07/16/25 14:30	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X528082	MAC	07/09/25 12:13	
EPA 200.7	Barium	0.0879	mg/L	0.0020	0.0019		X528082	MAC	07/09/25 12:13	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X528082	MAC	07/09/25 12:13	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X528082	MAC	07/09/25 12:13	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X528082	MAC	07/09/25 12:13	
EPA 200.7	Calcium	101	mg/L	0.100	0.069		X528082	MAC	07/09/25 12:13	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X528082	MAC	07/09/25 12:13	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X528082	MAC	07/09/25 12:13	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X528082	MAC	07/09/25 12:13	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X528082	MAC	07/09/25 12:13	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X528082	MAC	07/09/25 12:13	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X528082	MAC	07/09/25 12:13	
EPA 200.7	Magnesium	16.8	mg/L	0.500	0.090		X528082	MAC	07/09/25 12:13	
EPA 200.7	Manganese	0.269	mg/L	0.0080	0.0034		X528082	JRR	07/10/25 07:23	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X528082	MAC	07/09/25 12:13	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X528082	MAC	07/09/25 12:13	
EPA 200.7	Potassium	1.65	mg/L	0.50	0.18		X528082	MAC	07/09/25 12:13	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X528082	MAC	07/09/25 12:13	
EPA 200.7	Sodium	39.2	mg/L	0.50	0.12		X528082	JRR	07/10/25 07:23	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X528082	MAC	07/09/25 12:13	
EPA 200.7	Zinc	0.0147	mg/L	0.0100	0.0054		X528082	MAC	07/09/25 12:13	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 08:13	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 08:13	
EPA 200.8	Selenium	0.00108	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 08:13	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 08:13	
EPA 200.8	Uranium	0.00402	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 08:13	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528093	SJN	07/11/25 15:34	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 11:41	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X528066	JPM	07/09/25 08:07	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528008	ORW	07/08/25 10:59	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X528001	JPM	07/07/25 09:24	
SM 2310 B	Acidity to pH 8.3	-106	mg/L as CaCO3	10.0			X528137	MWD	07/10/25 12:26	
SM 2320 B	Total Alkalinity	109	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 13:45	
SM 2320 B	Bicarbonate	109	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 13:45	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 13:45	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X528060	MWD	07/08/25 13:45	
SM 2540 C	Total Diss. Solids	570	mg/L	10			X528014	TJL	07/08/25 12:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X528015	TJL	07/08/25 13:35	
SM 4500 H B	pH @23.7°C	7.7	pH Units				X528060	MWD	07/08/25 13:45	H5



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Kellogg, ID 83837-0929
(208) 784-1258
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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0072 Reported: 17-Jul-25 14:29
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Client Sample ID: **GVMW-37B**
SVL Sample ID: **X5G0072-02 (Ground Water)**

Sampled: 02-Jul-25 13:52
Received: 03-Jul-25
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	4.82	mg/L	0.20	0.02		X527181	RS	07/04/25 03:45	
EPA 300.0	Fluoride	1.76	mg/L	0.100	0.017		X527181	RS	07/04/25 03:45	
EPA 300.0	Nitrate as N	0.662	mg/L	0.050	0.013		X527181	RS	07/04/25 03:45	
EPA 300.0	Nitrate+Nitrite as N	0.690	mg/L	0.100	0.044		X527181	RS	07/04/25 03:45	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X527181	RS	07/04/25 03:45	
EPA 300.0	Sulfate as SO4	297	mg/L	3.00	1.80	10	X527181	RS	07/04/25 04:03	

Cation/Anion Balance and TDS Ratios

Cation Sum: 8.19 meq/L	Anion Sum: 8.64 meq/L	C/A Balance: -2.65 %	Calculated TDS: 533	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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0072**

Reported: 17-Jul-25 14:29

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X528087	16-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X528087	16-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X528087	16-Jul-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X528082	10-Jul-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X528082	10-Jul-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X528082	10-Jul-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X528082	10-Jul-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X528082	10-Jul-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X528082	10-Jul-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X528082	10-Jul-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X528082	10-Jul-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X528082	10-Jul-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X528082	10-Jul-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X528082	10-Jul-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X528082	10-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X528082	10-Jul-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X528082	10-Jul-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X528082	10-Jul-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X528082	10-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X528082	10-Jul-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X528082	10-Jul-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X528082	10-Jul-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X528082	10-Jul-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X528082	10-Jul-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X528147	11-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X528147	11-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X528147	11-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X528147	11-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X528147	11-Jul-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X528093	11-Jul-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X529001	14-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X528066	09-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X528008	08-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X528001	07-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X528137	10-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X528060	08-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X528060	08-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X528060	08-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X528060	08-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X528014	08-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X528015	08-Jul-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X527181	03-Jul-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X527181	03-Jul-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X527181	03-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X527181	03-Jul-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X527181	03-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X527181	03-Jul-25	



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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0072**

Reported: 17-Jul-25 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	19.5	20.0	97	85 - 115	X528087	16-Jul-25	
EPA 200.7	Magnesium	mg/L	19.1	20.0	95.4	85 - 115	X528087	16-Jul-25	
EPA 200.7	Potassium	mg/L	19.4	20.0	97.0	85 - 115	X528087	16-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.989	1.00	98.9	85 - 115	X528082	09-Jul-25	
EPA 200.7	Barium	mg/L	0.987	1.00	98.7	85 - 115	X528082	09-Jul-25	
EPA 200.7	Beryllium	mg/L	0.966	1.00	96.6	85 - 115	X528082	09-Jul-25	
EPA 200.7	Boron	mg/L	0.982	1.00	98.2	85 - 115	X528082	09-Jul-25	
EPA 200.7	Cadmium	mg/L	0.958	1.00	95.8	85 - 115	X528082	09-Jul-25	
EPA 200.7	Calcium	mg/L	19.8	20.0	98.8	85 - 115	X528082	09-Jul-25	
EPA 200.7	Chromium	mg/L	1.00	1.00	100	85 - 115	X528082	09-Jul-25	
EPA 200.7	Cobalt	mg/L	0.953	1.00	95.3	85 - 115	X528082	09-Jul-25	
EPA 200.7	Copper	mg/L	0.979	1.00	97.9	85 - 115	X528082	09-Jul-25	
EPA 200.7	Iron	mg/L	9.66	10.0	96.6	85 - 115	X528082	09-Jul-25	
EPA 200.7	Lead	mg/L	0.974	1.00	97.4	85 - 115	X528082	09-Jul-25	
EPA 200.7	Lithium	mg/L	0.937	1.00	93.7	85 - 115	X528082	09-Jul-25	
EPA 200.7	Magnesium	mg/L	18.7	20.0	93.4	85 - 115	X528082	09-Jul-25	
EPA 200.7	Manganese	mg/L	0.991	1.00	99.1	85 - 115	X528082	10-Jul-25	
EPA 200.7	Molybdenum	mg/L	1.01	1.00	101	85 - 115	X528082	09-Jul-25	
EPA 200.7	Nickel	mg/L	0.968	1.00	96.8	85 - 115	X528082	09-Jul-25	
EPA 200.7	Potassium	mg/L	19.5	20.0	97.7	85 - 115	X528082	09-Jul-25	
EPA 200.7	Silver	mg/L	0.0495	0.0500	98.9	85 - 115	X528082	09-Jul-25	
EPA 200.7	Sodium	mg/L	18.5	19.0	97.4	85 - 115	X528082	10-Jul-25	
EPA 200.7	Vanadium	mg/L	0.981	1.00	98.1	85 - 115	X528082	09-Jul-25	
EPA 200.7	Zinc	mg/L	0.923	1.00	92.3	85 - 115	X528082	09-Jul-25	
EPA 200.8	Antimony	mg/L	0.0232	0.0250	92.8	85 - 115	X528147	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.1	85 - 115	X528147	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0221	0.0250	88.5	85 - 115	X528147	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0241	0.0250	96.6	85 - 115	X528147	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0246	0.0250	98.4	85 - 115	X528147	11-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00200	0.00200	99.9	85 - 115	X528093	11-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.100	0.100	100	90 - 110	X529001	14-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X528066	09-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.975	1.00	97.5	90 - 110	X528008	08-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X528001	07-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.3	99.3	100	94 - 106	X528060	08-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	404	397	102	94 - 106	X528060	08-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	247	250	98.8	85 - 115	X528014	08-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X528015	08-Jul-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.05	3.00	102	90 - 110	X527181	03-Jul-25	
EPA 300.0	Fluoride	mg/L	2.07	2.00	104	90 - 110	X527181	03-Jul-25	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	101	90 - 110	X527181	03-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.66	4.50	103	90 - 110	X527181	03-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.63	2.50	105	90 - 110	X527181	03-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X527181	03-Jul-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0072**

Reported: 17-Jul-25 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	<10.0	<10.0	UDL	20	X528137 - X5G0047-01	10-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	151	154	2.1	20	X528060 - X5G0047-02	08-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	151	154	2.1	20	X528060 - X5G0047-02	08-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X528060 - X5G0047-02	08-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X528060 - X5G0047-02	08-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	249	280	11.7	10	X528014 - X5G0077-02	08-Jul-25	R2B
SM 2540 C	Total Diss. Solids	mg/L	563	570	1.2	10	X528014 - X5G0072-02	08-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X528015 - X5G0077-02	08-Jul-25	
SM 4500 H B	pH @21.4°C	pH Units	7.7	7.9	1.9	20	X528060 - X5G0047-02	08-Jul-25	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	179	157	20.0	109	70 - 130	X528087 - X5F0409-01	16-Jul-25	
EPA 200.7	Calcium	mg/L	74.8	53.1	20.0	109	70 - 130	X528087 - X5G0077-01	16-Jul-25	
EPA 200.7	Magnesium	mg/L	36.7	16.0	20.0	103	70 - 130	X528087 - X5F0409-01	16-Jul-25	
EPA 200.7	Magnesium	mg/L	28.8	7.52	20.0	107	70 - 130	X528087 - X5G0077-01	16-Jul-25	
EPA 200.7	Potassium	mg/L	21.4	1.63	20.0	98.9	70 - 130	X528087 - X5F0409-01	16-Jul-25	
EPA 200.7	Potassium	mg/L	23.2	2.31	20.0	105	70 - 130	X528087 - X5G0077-01	16-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.997	<0.080	1.00	99.7	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Aluminum	mg/L	0.972	<0.080	1.00	97.2	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Barium	mg/L	1.16	0.200	1.00	95.7	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Barium	mg/L	1.05	0.0328	1.00	102	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Beryllium	mg/L	0.945	<0.00200	1.00	94.5	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Beryllium	mg/L	0.982	<0.00200	1.00	98.2	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Boron	mg/L	0.985	<0.0400	1.00	96.4	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Boron	mg/L	1.06	0.0482	1.00	101	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Cadmium	mg/L	0.931	<0.0020	1.00	93.1	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Cadmium	mg/L	0.977	<0.0020	1.00	97.7	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Calcium	mg/L	48.4	29.4	20.0	95.2	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Calcium	mg/L	254	235	20.0	95.9	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Chromium	mg/L	0.972	<0.0060	1.00	97.2	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Cobalt	mg/L	0.910	<0.0060	1.00	91.0	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Cobalt	mg/L	0.963	<0.0060	1.00	96.3	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Copper	mg/L	0.921	<0.0100	1.00	92.1	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Copper	mg/L	0.998	<0.0100	1.00	99.8	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Iron	mg/L	9.45	<0.100	10.0	94.5	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Iron	mg/L	9.91	<0.100	10.0	99.1	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Lead	mg/L	0.943	<0.0075	1.00	94.3	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Lead	mg/L	0.997	<0.0075	1.00	99.7	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Lithium	mg/L	0.948	<0.040	1.00	94.8	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Lithium	mg/L	1.12	0.073	1.00	105	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Magnesium	mg/L	25.3	6.44	20.0	94.1	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Magnesium	mg/L	56.5	35.3	20.0	106	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Manganese	mg/L	0.997	0.0117	1.00	98.5	70 - 130	X528082 - X5G0047-02	10-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 8 of 11

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0072**

Reported: 17-Jul-25 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	1.03	<0.0080	1.00	103	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.976	<0.0080	1.00	97.2	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Molybdenum	mg/L	1.04	<0.0080	1.00	103	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Nickel	mg/L	0.926	<0.0100	1.00	92.6	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Nickel	mg/L	0.987	<0.0100	1.00	97.8	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Potassium	mg/L	20.1	1.12	20.0	94.7	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Potassium	mg/L	25.9	5.73	20.0	101	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Silver	mg/L	0.0482	<0.0050	0.0500	96.5	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Silver	mg/L	0.0328	<0.0050	0.0500	65.6	70 - 130	X528082 - X5G0081-03	10-Jul-25	M2
EPA 200.7	Sodium	mg/L	49.2	31.4	19.0	93.9	70 - 130	X528082 - X5G0047-02	10-Jul-25	
EPA 200.7	Sodium	mg/L	59.8	41.4	19.0	96.6	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Vanadium	mg/L	0.960	<0.0050	1.00	96.0	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Vanadium	mg/L	1.01	<0.0050	1.00	101	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.7	Zinc	mg/L	0.927	0.0109	1.00	91.6	70 - 130	X528082 - X5G0047-02	09-Jul-25	
EPA 200.7	Zinc	mg/L	0.970	<0.0100	1.00	97.0	70 - 130	X528082 - X5G0081-03	10-Jul-25	
EPA 200.8	Antimony	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Antimony	mg/L	0.0261	<0.00100	0.0250	104	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0324	0.00443	0.0250	112	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0265	<0.00100	0.0250	104	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0274	0.00207	0.0250	101	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0252	<0.00100	0.0250	99.6	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0280	<0.000200	0.0250	112	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0253	<0.000200	0.0250	101	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0365	0.00658	0.0250	120	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0265	<0.000100	0.0250	106	70 - 130	X528147 - X5G0136-06	11-Jul-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00197	<0.000200	0.00200	98.7	70 - 130	X528093 - X5G0047-01	11-Jul-25	
EPA 245.1	Mercury	mg/L	0.00204	<0.000200	0.00200	102	70 - 130	X528093 - X5G0102-01	11-Jul-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0996	<0.0050	0.100	99.6	79 - 121	X529001 - X5G0047-03	14-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X528066 - X5G0047-03	09-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.103	<0.0050	0.100	103	90 - 110	X528066 - X5G0047-01	09-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.00	<0.030	1.00	100	90 - 110	X528008 - X5G0047-03	08-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.924	<0.030	1.00	92.4	90 - 110	X528008 - X5G0047-02	08-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0952	<0.0050	0.100	95.2	82 - 118	X528001 - X5G0047-01	07-Jul-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.46	0.42	3.00	101	90 - 110	X527181 - X5G0070-02	03-Jul-25	
EPA 300.0	Chloride	mg/L	3.41	0.35	3.00	102	90 - 110	X527181 - X5G0071-04	03-Jul-25	
EPA 300.0	Fluoride	mg/L	2.03	<0.100	2.00	102	90 - 110	X527181 - X5G0070-02	03-Jul-25	
EPA 300.0	Fluoride	mg/L	2.05	<0.100	2.00	103	90 - 110	X527181 - X5G0071-04	03-Jul-25	
EPA 300.0	Nitrate as N	mg/L	2.42	0.369	2.00	102	90 - 110	X527181 - X5G0070-02	03-Jul-25	
EPA 300.0	Nitrate as N	mg/L	2.17	0.132	2.00	102	90 - 110	X527181 - X5G0071-04	03-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.49	0.369	4.00	103	90 - 110	X527181 - X5G0070-02	03-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.19	0.132	4.00	102	90 - 110	X527181 - X5G0071-04	03-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.07	<0.050	2.00	103	90 - 110	X527181 - X5G0070-02	03-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	101	90 - 110	X527181 - X5G0071-04	03-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	14.0	3.66	10.0	103	90 - 110	X527181 - X5G0070-02	03-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	11.2	1.02	10.0	102	90 - 110	X527181 - X5G0071-04	03-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 9 of 11

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0072**

Reported: 17-Jul-25 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	184	179	20.0	3.0	20	0.30R>S	X528087 - X5F0409-01	M3
EPA 200.7	Magnesium	mg/L	38.4	36.7	20.0	4.7	20	112	X528087 - X5F0409-01	
EPA 200.7	Potassium	mg/L	22.3	21.4	20.0	3.9	20	103	X528087 - X5F0409-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.989	0.997	1.00	0.8	20	98.9	X528082 - X5G0047-02	
EPA 200.7	Barium	mg/L	1.16	1.16	1.00	0.1	20	95.8	X528082 - X5G0047-02	
EPA 200.7	Beryllium	mg/L	0.924	0.945	1.00	2.2	20	92.4	X528082 - X5G0047-02	
EPA 200.7	Boron	mg/L	0.983	0.985	1.00	0.1	20	96.3	X528082 - X5G0047-02	
EPA 200.7	Cadmium	mg/L	0.924	0.931	1.00	0.7	20	92.4	X528082 - X5G0047-02	
EPA 200.7	Calcium	mg/L	47.9	48.4	20.0	1.1	20	92.5	X528082 - X5G0047-02	
EPA 200.7	Chromium	mg/L	0.968	0.972	1.00	0.4	20	96.8	X528082 - X5G0047-02	
EPA 200.7	Cobalt	mg/L	0.906	0.910	1.00	0.4	20	90.6	X528082 - X5G0047-02	
EPA 200.7	Copper	mg/L	0.921	0.921	1.00	0.1	20	92.1	X528082 - X5G0047-02	
EPA 200.7	Iron	mg/L	9.26	9.45	10.0	2.1	20	92.6	X528082 - X5G0047-02	
EPA 200.7	Lead	mg/L	0.934	0.943	1.00	1.0	20	93.4	X528082 - X5G0047-02	
EPA 200.7	Lithium	mg/L	0.947	0.948	1.00	0.0	20	94.7	X528082 - X5G0047-02	
EPA 200.7	Magnesium	mg/L	24.9	25.3	20.0	1.6	20	92.1	X528082 - X5G0047-02	
EPA 200.7	Manganese	mg/L	0.997	0.997	1.00	0.0	20	98.5	X528082 - X5G0047-02	
EPA 200.7	Molybdenum	mg/L	0.972	0.976	1.00	0.4	20	96.8	X528082 - X5G0047-02	
EPA 200.7	Nickel	mg/L	0.920	0.926	1.00	0.6	20	92.0	X528082 - X5G0047-02	
EPA 200.7	Potassium	mg/L	19.7	20.1	20.0	1.9	20	92.8	X528082 - X5G0047-02	
EPA 200.7	Silver	mg/L	0.0483	0.0482	0.0500	0.2	20	96.6	X528082 - X5G0047-02	
EPA 200.7	Sodium	mg/L	49.0	49.2	19.0	0.4	20	92.9	X528082 - X5G0047-02	
EPA 200.7	Vanadium	mg/L	0.958	0.960	1.00	0.3	20	95.8	X528082 - X5G0047-02	
EPA 200.7	Zinc	mg/L	0.923	0.927	1.00	0.3	20	91.2	X528082 - X5G0047-02	
EPA 200.8	Antimony	mg/L	0.0263	0.0252	0.0250	4.5	20	105	X528147 - X5G0047-01	
EPA 200.8	Arsenic	mg/L	0.0337	0.0324	0.0250	3.8	20	117	X528147 - X5G0047-01	
EPA 200.8	Selenium	mg/L	0.0288	0.0274	0.0250	5.1	20	107	X528147 - X5G0047-01	
EPA 200.8	Thallium	mg/L	0.0291	0.0280	0.0250	3.5	20	116	X528147 - X5G0047-01	
EPA 200.8	Uranium	mg/L	0.0377	0.0365	0.0250	3.1	20	124	X528147 - X5G0047-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00195	0.00197	0.00200	1.3	20	97.5	X528093 - X5G0047-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.102	0.0996	0.100	2.8	11	102	X529001 - X5G0047-03	
EPA 335.4	Cyanide (total)	mg/L	0.103	0.102	0.100	0.8	20	103	X528066 - X5G0047-03	
EPA 350.1	Ammonia as N	mg/L	0.981	1.00	1.00	2.3	20	98.1	X528008 - X5G0047-03	
OIA 1677	Cyanide (WAD)	mg/L	0.0970	0.0952	0.100	1.9	11	97.0	X528001 - X5G0047-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.49	3.46	3.00	1.0	20	102	X527181 - X5G0070-02	
EPA 300.0	Fluoride	mg/L	2.05	2.03	2.00	1.1	20	103	X527181 - X5G0070-02	
EPA 300.0	Nitrate as N	mg/L	2.44	2.42	2.00	1.0	20	104	X527181 - X5G0070-02	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.52	4.49	4.00	0.8	20	104	X527181 - X5G0070-02	
EPA 300.0	Nitrite as N	mg/L	2.08	2.07	2.00	0.6	20	104	X527181 - X5G0070-02	
EPA 300.0	Sulfate as SO4	mg/L	14.1	14.0	10.0	0.8	20	104	X527181 - X5G0070-02	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0072**

Reported: 17-Jul-25 14:29

Notes and Definitions

H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0138**

Reported: 21-Jul-25 16:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-107F	X5G0138-01	Ground Water	08-Jul-25 09:58	JC	09-Jul-2025	

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: X5G0138

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

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0138**

Reported: 21-Jul-25 16:01

Client Sample ID: **GVMW-107F**

Sampled: 08-Jul-25 09:58

SVL Sample ID: **X5G0138-01 (Ground Water)**

Received: 09-Jul-25

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	47.3	mg/L	0.100	0.069		X529083	JRR	07/17/25 08:15	
EPA 200.7	Magnesium	21.4	mg/L	0.500	0.090		X529083	JRR	07/17/25 08:15	
EPA 200.7	Potassium	1.01	mg/L	0.50	0.18		X529083	JRR	07/17/25 08:15	
SM 2340 B	Hardness (as CaCO3)	206	mg/L	2.31	0.543		N/A		07/15/25 08:07	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X529007	JRR	07/15/25 08:07	
EPA 200.7	Barium	0.202	mg/L	0.0020	0.0019		X529007	JRR	07/15/25 08:07	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X529007	JRR	07/15/25 08:07	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X529007	JRR	07/15/25 08:07	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X529007	JRR	07/15/25 08:07	
EPA 200.7	Calcium	46.0	mg/L	0.100	0.069		X529007	JRR	07/15/25 08:07	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X529007	JRR	07/15/25 08:07	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X529007	JRR	07/15/25 08:07	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X529007	JRR	07/15/25 08:07	
EPA 200.7	Iron	1.22	mg/L	0.100	0.056		X529007	JRR	07/15/25 08:07	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X529007	JRR	07/15/25 08:07	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X529007	JRR	07/15/25 08:07	
EPA 200.7	Magnesium	19.8	mg/L	0.500	0.090		X529007	JRR	07/15/25 08:07	
EPA 200.7	Manganese	0.232	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 08:07	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 08:07	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X529007	JRR	07/15/25 08:07	
EPA 200.7	Potassium	1.09	mg/L	0.50	0.18		X529007	JRR	07/15/25 08:07	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 08:07	
EPA 200.7	Sodium	10.2	mg/L	0.50	0.12		X529007	JRR	07/15/25 08:07	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 08:07	
EPA 200.7	Zinc	0.0116	mg/L	0.0100	0.0054		X529007	JRR	07/15/25 08:07	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 08:41	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 08:41	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 08:41	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 08:41	
EPA 200.8	Uranium	0.00481	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 08:41	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528094	SJN	07/11/25 16:42	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 12:05	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X529055	JPM	07/16/25 10:12	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528155	ORW	07/11/25 15:15	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X529148	ORW	07/18/25 13:04	
SM 2310 B	Acidity to pH 8.3	-186	mg/L as CaCO3	10.0			X529230	MWD	07/21/25 10:45	
SM 2320 B	Total Alkalinity	183	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:23	
SM 2320 B	Bicarbonate	183	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:23	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:23	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:23	
SM 2540 C	Total Diss. Solids	241	mg/L	10			X528161	TJL	07/11/25 12:15	R2B
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X528162	TJL	07/11/25 13:10	
SM 4500 H B	pH @24.4°C	7.7	pH Units				X529010	MWD	07/14/25 14:23	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 10



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

Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0138 Reported: 21-Jul-25 16:01
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Client Sample ID: **GVMW-107F**
SVL Sample ID: **X5G0138-01 (Ground Water)**

Sampled: 08-Jul-25 09:58
Received: 09-Jul-25
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	18.4	mg/L	2.00	0.22	10	X528119	RS	07/11/25 00:07	M4
EPA 300.0	Fluoride	0.800	mg/L	0.100	0.017		X528119	RS	07/09/25 22:15	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X528119	RS	07/09/25 22:15	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X528119	RS	07/09/25 22:15	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X528119	RS	07/09/25 22:15	
EPA 300.0	Sulfate as SO4	25.5	mg/L	0.30	0.18		X528119	RS	07/09/25 22:15	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.46 meq/L	Anion Sum: 4.75 meq/L	C/A Balance: -3.16 %	Calculated TDS: 233	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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0138**

Reported: 21-Jul-25 16:01

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	X529083	17-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X529083	17-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X529083	17-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X529007	15-Jul-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X529007	15-Jul-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X529007	15-Jul-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X529007	15-Jul-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X529007	15-Jul-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X529007	15-Jul-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X529007	15-Jul-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X529007	15-Jul-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X529007	15-Jul-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X529007	15-Jul-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X529007	15-Jul-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X529007	15-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X529007	15-Jul-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X529007	15-Jul-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X529007	15-Jul-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X529007	15-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X529007	15-Jul-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X529007	15-Jul-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X529007	15-Jul-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X529007	15-Jul-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X529007	15-Jul-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X528147	11-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X528147	11-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X528147	11-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X528147	11-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X528147	11-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X528094	11-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X529001	14-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X529055	16-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X528155	11-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X529148	18-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X529230	21-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X529010	14-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X529010	14-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X529010	14-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X529010	14-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X528161	11-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X528162	11-Jul-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X528119	09-Jul-25	
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X528119	09-Jul-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X528119	09-Jul-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X528119	09-Jul-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X528119	09-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X528119	09-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X528119	09-Jul-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X528119	09-Jul-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X528119	09-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 4 of 10

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0138**

Reported: 21-Jul-25 16:01

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)								
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X528119	09-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X528119	09-Jul-25	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)									
EPA 200.7	Calcium	mg/L	19.7	20.0	99	85 - 115	X529083	17-Jul-25	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.7	85 - 115	X529083	17-Jul-25	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.0	85 - 115	X529083	17-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.978	1.00	97.8	85 - 115	X529007	15-Jul-25	
EPA 200.7	Barium	mg/L	1.00	1.00	100	85 - 115	X529007	15-Jul-25	
EPA 200.7	Beryllium	mg/L	0.981	1.00	98.1	85 - 115	X529007	15-Jul-25	
EPA 200.7	Boron	mg/L	0.983	1.00	98.3	85 - 115	X529007	15-Jul-25	
EPA 200.7	Cadmium	mg/L	0.978	1.00	97.8	85 - 115	X529007	15-Jul-25	
EPA 200.7	Calcium	mg/L	19.9	20.0	99.6	85 - 115	X529007	15-Jul-25	
EPA 200.7	Chromium	mg/L	1.01	1.00	101	85 - 115	X529007	15-Jul-25	
EPA 200.7	Cobalt	mg/L	0.959	1.00	95.9	85 - 115	X529007	15-Jul-25	
EPA 200.7	Copper	mg/L	0.960	1.00	96.0	85 - 115	X529007	15-Jul-25	
EPA 200.7	Iron	mg/L	9.77	10.0	97.7	85 - 115	X529007	15-Jul-25	
EPA 200.7	Lead	mg/L	0.986	1.00	98.6	85 - 115	X529007	15-Jul-25	
EPA 200.7	Lithium	mg/L	0.940	1.00	94.0	85 - 115	X529007	15-Jul-25	
EPA 200.7	Magnesium	mg/L	19.0	20.0	94.9	85 - 115	X529007	15-Jul-25	
EPA 200.7	Manganese	mg/L	1.01	1.00	101	85 - 115	X529007	15-Jul-25	
EPA 200.7	Molybdenum	mg/L	1.02	1.00	102	85 - 115	X529007	15-Jul-25	
EPA 200.7	Nickel	mg/L	0.971	1.00	97.1	85 - 115	X529007	15-Jul-25	
EPA 200.7	Potassium	mg/L	20.0	20.0	100	85 - 115	X529007	15-Jul-25	
EPA 200.7	Silver	mg/L	0.0470	0.0500	93.9	85 - 115	X529007	15-Jul-25	
EPA 200.7	Sodium	mg/L	18.9	19.0	99.3	85 - 115	X529007	15-Jul-25	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X529007	15-Jul-25	
EPA 200.7	Zinc	mg/L	0.956	1.00	95.6	85 - 115	X529007	15-Jul-25	
EPA 200.8	Antimony	mg/L	0.0232	0.0250	92.8	85 - 115	X528147	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.1	85 - 115	X528147	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0221	0.0250	88.5	85 - 115	X528147	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0241	0.0250	96.6	85 - 115	X528147	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0246	0.0250	98.4	85 - 115	X528147	11-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00198	0.00200	98.8	85 - 115	X528094	11-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.100	0.100	100	90 - 110	X529001	14-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0970	0.100	97.0	90 - 110	X529055	16-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.991	1.00	99.1	90 - 110	X528155	11-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X529148	18-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1160	1180	98.6	95.4 - 104	X529230	21-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	94 - 106	X529010	14-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.0	99.3	99.7	94 - 106	X529010	14-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	406	397	102	94 - 106	X529010	14-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	240	250	96.0	85 - 115	X528161	11-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X528162	11-Jul-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0138**

Reported: 21-Jul-25 16:01

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	2.94	3.00	98.0	90 - 110	X528119	09-Jul-25	
EPA 300.0	Fluoride	mg/L	1.97	2.00	98.3	90 - 110	X528119	09-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.93	2.00	96.4	90 - 110	X528119	09-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.40	4.50	97.8	90 - 110	X528119	09-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.47	2.50	99.0	90 - 110	X528119	09-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X528119	09-Jul-25	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X529230 - X5G0136-01	21-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	47.2	48.1	1.9	20	X529010 - X5G0136-02	14-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	47.2	48.1	1.9	20	X529010 - X5G0136-02	14-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X529010 - X5G0136-02	14-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X529010 - X5G0136-02	14-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	275	266	3.3	10	X528161 - X5G0136-02	11-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	276	241	13.5	10	X528161 - X5G0138-01	11-Jul-25	R2B
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X528162 - X5G0138-01	11-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X528162 - X5G0136-02	11-Jul-25	
SM 4500 H B	pH @24.4°C	pH Units	6.8	7.0	1.9	20	X529010 - X5G0136-02	14-Jul-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	67.3	47.4	20.0	100	70 - 130	X529083 - X5G0136-03	17-Jul-25	
EPA 200.7	Calcium	mg/L	378	362	20.0	80	70 - 130	X529083 - X5G0148-03	17-Jul-25	
EPA 200.7	Magnesium	mg/L	42.8	21.3	20.0	107	70 - 130	X529083 - X5G0136-03	17-Jul-25	
EPA 200.7	Magnesium	mg/L	55.2	33.9	20.0	106	70 - 130	X529083 - X5G0148-03	17-Jul-25	
EPA 200.7	Potassium	mg/L	21.3	1.08	20.0	101	70 - 130	X529083 - X5G0136-03	17-Jul-25	
EPA 200.7	Potassium	mg/L	30.6	10.2	20.0	102	70 - 130	X529083 - X5G0148-03	17-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.941	<0.080	1.00	94.1	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Aluminum	mg/L	0.972	<0.080	1.00	97.2	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Barium	mg/L	1.17	0.201	1.00	96.6	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Barium	mg/L	0.996	0.0246	1.00	97.1	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Beryllium	mg/L	0.961	<0.00200	1.00	96.1	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Beryllium	mg/L	0.976	<0.00200	1.00	97.6	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Boron	mg/L	0.967	<0.0400	1.00	96.7	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Boron	mg/L	1.03	0.0445	1.00	99.0	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Cadmium	mg/L	0.939	<0.0020	1.00	93.9	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Cadmium	mg/L	0.941	<0.0020	1.00	94.1	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Calcium	mg/L	64.9	45.8	20.0	95.3	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Calcium	mg/L	158	143	20.0	75.3	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Chromium	mg/L	0.969	<0.0060	1.00	96.9	70 - 130	X529007 - X5G0136-03	15-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 6 of 10


Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0138**

Reported: 21-Jul-25 16:01

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 200.7	Chromium	mg/L	0.980	<0.0060	1.00	98.0	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Cobalt	mg/L	0.905	<0.0060	1.00	90.5	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Cobalt	mg/L	0.925	<0.0060	1.00	92.5	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Copper	mg/L	0.916	<0.0100	1.00	91.6	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Copper	mg/L	0.944	<0.0100	1.00	94.4	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Iron	mg/L	10.7	1.21	10.0	95.1	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Iron	mg/L	9.54	<0.100	10.0	95.4	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Lead	mg/L	0.947	<0.0075	1.00	94.7	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Lead	mg/L	0.955	<0.0075	1.00	95.5	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Lithium	mg/L	0.934	<0.040	1.00	93.4	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Lithium	mg/L	1.01	<0.040	1.00	97.9	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Magnesium	mg/L	39.2	19.9	20.0	96.5	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Magnesium	mg/L	32.0	12.5	20.0	97.5	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Manganese	mg/L	1.20	0.234	1.00	96.8	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Manganese	mg/L	1.06	0.0691	1.00	98.9	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.971	<0.0080	1.00	97.1	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.986	<0.0080	1.00	98.6	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Nickel	mg/L	0.916	<0.0100	1.00	91.6	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Nickel	mg/L	0.932	<0.0100	1.00	93.2	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Potassium	mg/L	20.5	1.02	20.0	97.5	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Potassium	mg/L	22.5	3.03	20.0	97.1	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Silver	mg/L	0.0448	<0.0050	0.0500	89.5	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Silver	mg/L	0.0470	<0.0050	0.0500	94.0	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Sodium	mg/L	28.4	10.2	19.0	95.8	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Sodium	mg/L	52.5	35.1	19.0	91.3	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Vanadium	mg/L	0.975	<0.0050	1.00	97.5	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Vanadium	mg/L	0.980	<0.0050	1.00	98.0	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Zinc	mg/L	0.942	0.0117	1.00	93.0	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Zinc	mg/L	0.945	0.0117	1.00	93.3	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.8	Antimony	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Antimony	mg/L	0.0261	<0.00100	0.0250	104	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0324	0.00443	0.0250	112	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0265	<0.00100	0.0250	104	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0274	0.00207	0.0250	101	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0252	<0.00100	0.0250	99.6	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0280	<0.000200	0.0250	112	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0253	<0.000200	0.0250	101	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0365	0.00658	0.0250	120	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0265	<0.000100	0.0250	106	70 - 130	X528147 - X5G0136-06	11-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00203	<0.000200	0.00200	101	70 - 130	X528094 - X5G0112-01	11-Jul-25	
EPA 245.1	Mercury	mg/L	0.00191	<0.000200	0.00200	95.3	70 - 130	X528094 - X5G0138-01	11-Jul-25	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0996	<0.0050	0.100	99.6	79 - 121	X529001 - X5G0047-03	14-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0973	<0.0050	0.100	97.3	90 - 110	X529055 - X5G0136-04	16-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.110	0.0111	0.100	98.8	90 - 110	X529055 - X5G0136-01	16-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X528155 - X5G0136-03	11-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.966	<0.030	1.00	96.6	90 - 110	X528155 - X5G0136-02	11-Jul-25	



Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0138**
Reported: 21-Jul-25 16:01

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)

OIA 1677	Cyanide (WAD)	mg/L	0.106	<0.0050	0.100	106	82 - 118	X529148 - X5G0136-06	18-Jul-25	
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Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	4.61	1.63	3.00	99.2	90 - 110	X528119 - X5G0136-07	09-Jul-25	
EPA 300.0	Chloride	mg/L	20.7	18.4	3.00	0.30R>S	90 - 110	X528119 - X5G0138-01	11-Jul-25	M4
EPA 300.0	Fluoride	mg/L	2.28	0.337	2.00	97.2	90 - 110	X528119 - X5G0136-07	09-Jul-25	
EPA 300.0	Fluoride	mg/L	2.77	0.800	2.00	98.4	90 - 110	X528119 - X5G0138-01	09-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.96	<0.050	2.00	98.2	90 - 110	X528119 - X5G0136-07	09-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.95	<0.050	2.00	97.5	90 - 110	X528119 - X5G0138-01	09-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	<0.100	4.00	99.3	90 - 110	X528119 - X5G0136-07	09-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.98	<0.100	4.00	99.4	90 - 110	X528119 - X5G0138-01	09-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X528119 - X5G0136-07	09-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X528119 - X5G0138-01	09-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	35.5	25.5	10.0	100	90 - 110	X528119 - X5G0138-01	09-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	274	268	10.0	0.30R>S	90 - 110	X528119 - X5G0136-07	10-Jul-25	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	67.0	67.3	20.0	0.4	20	98	X529083 - X5G0136-03	
EPA 200.7	Magnesium	mg/L	42.3	42.8	20.0	1.1	20	105	X529083 - X5G0136-03	
EPA 200.7	Potassium	mg/L	21.1	21.3	20.0	0.9	20	100	X529083 - X5G0136-03	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.963	0.941	1.00	2.3	20	96.3	X529007 - X5G0136-03	
EPA 200.7	Barium	mg/L	1.19	1.17	1.00	1.6	20	98.5	X529007 - X5G0136-03	
EPA 200.7	Beryllium	mg/L	0.947	0.961	1.00	1.4	20	94.7	X529007 - X5G0136-03	
EPA 200.7	Boron	mg/L	0.993	0.967	1.00	2.6	20	99.3	X529007 - X5G0136-03	
EPA 200.7	Cadmium	mg/L	0.932	0.939	1.00	0.8	20	93.2	X529007 - X5G0136-03	
EPA 200.7	Calcium	mg/L	64.5	64.9	20.0	0.6	20	93.3	X529007 - X5G0136-03	
EPA 200.7	Chromium	mg/L	0.959	0.969	1.00	1.1	20	95.9	X529007 - X5G0136-03	
EPA 200.7	Cobalt	mg/L	0.897	0.905	1.00	0.9	20	89.7	X529007 - X5G0136-03	
EPA 200.7	Copper	mg/L	0.907	0.916	1.00	1.0	20	90.7	X529007 - X5G0136-03	
EPA 200.7	Iron	mg/L	10.5	10.7	10.0	1.8	20	93.2	X529007 - X5G0136-03	
EPA 200.7	Lead	mg/L	0.936	0.947	1.00	1.2	20	93.6	X529007 - X5G0136-03	
EPA 200.7	Lithium	mg/L	0.959	0.934	1.00	2.6	20	95.9	X529007 - X5G0136-03	
EPA 200.7	Magnesium	mg/L	38.7	39.2	20.0	1.3	20	94.0	X529007 - X5G0136-03	
EPA 200.7	Manganese	mg/L	1.19	1.20	1.00	1.2	20	95.4	X529007 - X5G0136-03	
EPA 200.7	Molybdenum	mg/L	0.962	0.971	1.00	1.0	20	96.2	X529007 - X5G0136-03	
EPA 200.7	Nickel	mg/L	0.905	0.916	1.00	1.2	20	90.5	X529007 - X5G0136-03	
EPA 200.7	Potassium	mg/L	20.2	20.5	20.0	1.8	20	95.7	X529007 - X5G0136-03	
EPA 200.7	Silver	mg/L	0.0460	0.0448	0.0500	2.7	20	92.0	X529007 - X5G0136-03	
EPA 200.7	Sodium	mg/L	28.1	28.4	19.0	1.2	20	94.1	X529007 - X5G0136-03	
EPA 200.7	Vanadium	mg/L	0.967	0.975	1.00	0.8	20	96.7	X529007 - X5G0136-03	
EPA 200.7	Zinc	mg/L	0.933	0.942	1.00	0.9	20	92.1	X529007 - X5G0136-03	
EPA 200.8	Antimony	mg/L	0.0263	0.0252	0.0250	4.5	20	105	X528147 - X5G0047-01	
EPA 200.8	Arsenic	mg/L	0.0337	0.0324	0.0250	3.8	20	117	X528147 - X5G0047-01	
EPA 200.8	Selenium	mg/L	0.0288	0.0274	0.0250	5.1	20	107	X528147 - X5G0047-01	
EPA 200.8	Thallium	mg/L	0.0291	0.0280	0.0250	3.5	20	116	X528147 - X5G0047-01	
EPA 200.8	Uranium	mg/L	0.0377	0.0365	0.0250	3.1	20	124	X528147 - X5G0047-01	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0138**

Reported: 21-Jul-25 16:01

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 (Filtered)										
EPA 245.1	Mercury	mg/L	0.00208	0.00203	0.00200	2.3	20	104	X528094 - X5G0112-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.102	0.0996	0.100	2.8	11	102	X529001 - X5G0047-03	
EPA 335.4	Cyanide (total)	mg/L	0.0945	0.0973	0.100	2.9	20	94.5	X529055 - X5G0136-04	
EPA 350.1	Ammonia as N	mg/L	0.970	1.01	1.00	4.1	20	97.0	X528155 - X5G0136-03	
OIA 1677	Cyanide (WAD)	mg/L	0.109	0.106	0.100	3.4	11	109	X529148 - X5G0136-06	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	20.6	20.7	3.00	0.5	20	0.30R>S	X528119 - X5G0138-01	M4
EPA 300.0	Fluoride	mg/L	2.74	2.77	2.00	1.1	20	96.9	X528119 - X5G0138-01	
EPA 300.0	Nitrate as N	mg/L	1.95	1.95	2.00	0.2	20	97.4	X528119 - X5G0138-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	3.98	4.00	0.0	20	99.3	X528119 - X5G0138-01	
EPA 300.0	Nitrite as N	mg/L	2.03	2.02	2.00	0.1	20	101	X528119 - X5G0138-01	
EPA 300.0	Sulfate as SO4	mg/L	35.6	35.5	10.0	0.2	20	101	X528119 - X5G0138-01	



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Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0138**

Reported: 21-Jul-25 16:01

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.
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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-8B	X5G0136-01	Ground Water	08-Jul-25 08:15	JC	09-Jul-2025	
GVMW-8A	X5G0136-02	Ground Water	08-Jul-25 09:02	JC	09-Jul-2025	
GVMW-7A	X5G0136-03	Ground Water	08-Jul-25 09:58	JC	09-Jul-2025	
GVMW-7B	X5G0136-04	Ground Water	08-Jul-25 10:01	JC	09-Jul-2025	
GVMW-4A	X5G0136-05	Ground Water	08-Jul-25 11:13	JC	09-Jul-2025	
GVMW-15A	X5G0136-06	Ground Water	08-Jul-25 12:38	JC	09-Jul-2025	
GVMW-15B	X5G0136-07	Ground Water	08-Jul-25 12:30	JC	09-Jul-2025	

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: X5G0136

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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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

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

Sampled: 08-Jul-25 08:15

Received: 09-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0136-01 (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	46.8	mg/L	0.100	0.069		X529083	JRR	07/17/25 07:33	
EPA 200.7	Magnesium	7.25	mg/L	0.500	0.090		X529083	JRR	07/17/25 07:33	
EPA 200.7	Potassium	1.86	mg/L	0.50	0.18		X529083	JRR	07/17/25 07:33	
SM 2340 B	Hardness (as CaCO3)	142	mg/L	2.31	0.543		N/A		07/15/25 07:23	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X529007	JRR	07/15/25 07:23	
EPA 200.7	Barium	0.0076	mg/L	0.0020	0.0019		X529007	JRR	07/15/25 07:23	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X529007	JRR	07/15/25 07:23	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X529007	JRR	07/15/25 07:23	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X529007	JRR	07/15/25 07:23	
EPA 200.7	Calcium	45.0	mg/L	0.100	0.069		X529007	JRR	07/15/25 07:23	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X529007	JRR	07/15/25 07:23	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X529007	JRR	07/15/25 07:23	
EPA 200.7	Copper	0.0309	mg/L	0.0100	0.0027		X529007	JRR	07/15/25 07:23	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X529007	JRR	07/15/25 07:23	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X529007	JRR	07/15/25 07:23	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X529007	JRR	07/15/25 07:23	
EPA 200.7	Magnesium	6.74	mg/L	0.500	0.090		X529007	JRR	07/15/25 07:23	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 07:23	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 07:23	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X529007	JRR	07/15/25 07:23	
EPA 200.7	Potassium	1.71	mg/L	0.50	0.18		X529007	JRR	07/15/25 07:23	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 07:23	
EPA 200.7	Sodium	24.7	mg/L	0.50	0.12		X529007	JRR	07/15/25 07:23	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 07:23	
EPA 200.7	Zinc	0.0109	mg/L	0.0100	0.0054		X529007	JRR	07/15/25 07:23	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 08:16	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 08:16	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 08:16	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 08:16	
EPA 200.8	Uranium	0.00276	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 08:16	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528094	SJN	07/11/25 16:23	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 11:44	
EPA 335.4	Cyanide (total)	0.0111	mg/L	0.0050	0.0038		X529055	JPM	07/16/25 09:50	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528155	ORW	07/11/25 14:46	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X529148	ORW	07/18/25 12:22	
SM 2310 B	Acidity to pH 8.3	-38.2	mg/L as CaCO3	10.0			X529230	MWD	07/21/25 10:45	
SM 2320 B	Total Alkalinity	38.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:38	
SM 2320 B	Bicarbonate	38.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:38	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:38	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:38	
SM 2540 C	Total Diss. Solids	280	mg/L	10			X528161	TJL	07/11/25 12:15	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X528162	TJL	07/11/25 13:10	
SM 4500 H B	pH @24.4°C	6.7	pH Units				X529010	MWD	07/14/25 13:38	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 22



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0136 Reported: 21-Jul-25 15:37
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Client Sample ID: **GVMW-8B**
SVL Sample ID: **X5G0136-01 (Ground Water)**

Sampled: 08-Jul-25 08:15
Received: 09-Jul-25
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	49.4	mg/L	2.00	0.22	10	X528119	RS	07/09/25 17:51	
EPA 300.0	Fluoride	2.18	mg/L	0.100	0.017		X528119	RS	07/09/25 17:36	
EPA 300.0	Nitrate as N	2.09	mg/L	0.050	0.013		X528119	RS	07/09/25 17:36	
EPA 300.0	Nitrate+Nitrite as N	2.09	mg/L	0.100	0.044		X528119	RS	07/09/25 17:36	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X528119	RS	07/09/25 17:36	
EPA 300.0	Sulfate as SO4	82.1	mg/L	3.00	1.80	10	X528119	RS	07/09/25 17:51	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.93 meq/L	Anion Sum: 4.13 meq/L	C/A Balance: -2.40 %	Calculated TDS: 245	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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

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

Sampled: 08-Jul-25 09:02

Received: 09-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0136-02 (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	51.8	mg/L	0.100	0.069		X529083	JRR	07/17/25 07:36	
EPA 200.7	Magnesium	6.49	mg/L	0.500	0.090		X529083	JRR	07/17/25 07:36	
EPA 200.7	Potassium	0.86	mg/L	0.50	0.18		X529083	JRR	07/17/25 07:36	
SM 2340 B	Hardness (as CaCO3)	154	mg/L	2.31	0.543		N/A		07/17/25 07:36	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X529007	JRR	07/15/25 07:27	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X529007	JRR	07/15/25 07:27	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X529007	JRR	07/15/25 07:27	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X529007	JRR	07/15/25 07:27	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X529007	JRR	07/15/25 07:27	
EPA 200.7	Calcium	49.5	mg/L	0.100	0.069		X529007	JRR	07/15/25 07:27	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X529007	JRR	07/15/25 07:27	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X529007	JRR	07/15/25 07:27	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X529007	JRR	07/15/25 07:27	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X529007	JRR	07/15/25 07:27	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X529007	JRR	07/15/25 07:27	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X529007	JRR	07/15/25 07:27	
EPA 200.7	Magnesium	6.03	mg/L	0.500	0.090		X529007	JRR	07/15/25 07:27	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 07:27	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 07:27	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X529007	JRR	07/15/25 07:27	
EPA 200.7	Potassium	0.75	mg/L	0.50	0.18		X529007	JRR	07/15/25 07:27	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 07:27	
EPA 200.7	Sodium	23.7	mg/L	0.50	0.12		X529007	JRR	07/15/25 07:27	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 07:27	
EPA 200.7	Zinc	0.0124	mg/L	0.0100	0.0054		X529007	JRR	07/15/25 07:27	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 08:19	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 08:19	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 08:19	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 08:19	
EPA 200.8	Uranium	0.00506	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 08:19	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528094	SJN	07/11/25 16:25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 11:47	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X529055	JPM	07/16/25 10:00	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528155	ORW	07/11/25 14:48	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X529148	ORW	07/18/25 12:25	
SM 2310 B	Acidity to pH 8.3	-47.5	mg/L as CaCO3	10.0			X529230	MWD	07/21/25 10:45	
SM 2320 B	Total Alkalinity	48.1	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:43	
SM 2320 B	Bicarbonate	48.1	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:43	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:43	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:43	
SM 2540 C	Total Diss. Solids	266	mg/L	10			X528161	TJL	07/11/25 12:15	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X528162	TJL	07/11/25 13:10	
SM 4500 H B	pH @24.5°C	7.0	pH Units				X529010	MWD	07/14/25 13:43	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0136 Reported: 21-Jul-25 15:37
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Client Sample ID: **GVMW-8A**
SVL Sample ID: **X5G0136-02 (Ground Water)**

Sampled: 08-Jul-25 09:02
Received: 09-Jul-25
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	61.3	mg/L	2.00	0.22	10	X528119	RS	07/09/25 18:22	
EPA 300.0	Fluoride	1.93	mg/L	0.100	0.017		X528119	RS	07/09/25 18:07	
EPA 300.0	Nitrate as N	1.25	mg/L	0.050	0.013		X528119	RS	07/09/25 18:07	
EPA 300.0	Nitrate+Nitrite as N	1.25	mg/L	0.100	0.044		X528119	RS	07/09/25 18:07	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X528119	RS	07/09/25 18:07	
EPA 300.0	Sulfate as SO4	67.3	mg/L	3.00	1.80	10	X528119	RS	07/09/25 18:22	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.03 meq/L	Anion Sum: 4.28 meq/L	C/A Balance: -3.04 %	Calculated TDS: 246	TDS/cTDS: 1.08
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

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

Sampled: 08-Jul-25 09:58

Received: 09-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0136-03 (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	47.4	mg/L	0.100	0.069		X529083	JRR	07/17/25 07:40	
EPA 200.7	Magnesium	21.3	mg/L	0.500	0.090		X529083	JRR	07/17/25 07:40	
EPA 200.7	Potassium	1.08	mg/L	0.50	0.18		X529083	JRR	07/17/25 07:40	
SM 2340 B	Hardness (as CaCO3)	196	mg/L	2.31	0.543		N/A		07/17/25 07:40	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X529007	JRR	07/15/25 07:31	
EPA 200.7	Barium	0.201	mg/L	0.0020	0.0019		X529007	JRR	07/15/25 07:31	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X529007	JRR	07/15/25 07:31	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X529007	JRR	07/15/25 07:31	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X529007	JRR	07/15/25 07:31	
EPA 200.7	Calcium	45.8	mg/L	0.100	0.069		X529007	JRR	07/15/25 07:31	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X529007	JRR	07/15/25 07:31	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X529007	JRR	07/15/25 07:31	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X529007	JRR	07/15/25 07:31	
EPA 200.7	Iron	1.21	mg/L	0.100	0.056		X529007	JRR	07/15/25 07:31	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X529007	JRR	07/15/25 07:31	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X529007	JRR	07/15/25 07:31	
EPA 200.7	Magnesium	19.9	mg/L	0.500	0.090		X529007	JRR	07/15/25 07:31	
EPA 200.7	Manganese	0.234	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 07:31	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 07:31	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X529007	JRR	07/15/25 07:31	
EPA 200.7	Potassium	1.02	mg/L	0.50	0.18		X529007	JRR	07/15/25 07:31	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 07:31	
EPA 200.7	Sodium	10.2	mg/L	0.50	0.12		X529007	JRR	07/15/25 07:31	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 07:31	
EPA 200.7	Zinc	0.0117	mg/L	0.0100	0.0054		X529007	JRR	07/15/25 07:31	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 08:22	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 08:22	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 08:22	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 08:22	
EPA 200.8	Uranium	0.00485	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 08:22	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528094	SJN	07/11/25 16:28	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 11:50	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X529055	JPM	07/16/25 10:01	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528155	ORW	07/11/25 14:51	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X529148	ORW	07/18/25 12:28	
SM 2310 B	Acidity to pH 8.3	-186	mg/L as CaCO3	10.0			X529230	MWD	07/21/25 10:45	
SM 2320 B	Total Alkalinity	182	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:49	
SM 2320 B	Bicarbonate	182	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:49	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:49	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:49	
SM 2540 C	Total Diss. Solids	260	mg/L	10			X528161	TJL	07/11/25 12:15	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X528162	TJL	07/11/25 13:10	
SM 4500 H B	pH @24.4°C	7.3	pH Units				X529010	MWD	07/14/25 13:49	H5

SVL holds the following certifications:

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

Work order Report Page 6 of 22



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0136 Reported: 21-Jul-25 15:37
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Client Sample ID: **GVMW-7A**
SVL Sample ID: **X5G0136-03 (Ground Water)**

Sampled: 08-Jul-25 09:58
Received: 09-Jul-25
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	2.00	0.22	10	X528119	RS	07/09/25 18:53	
EPA 300.0	Fluoride	0.846	mg/L	0.100	0.017		X528119	RS	07/09/25 18:38	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X528119	RS	07/09/25 18:38	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X528119	RS	07/09/25 18:38	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X528119	RS	07/09/25 18:38	
EPA 300.0	Sulfate as SO4	25.8	mg/L	0.30	0.18		X528119	RS	07/09/25 18:38	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.46 meq/L	Anion Sum: 4.72 meq/L	C/A Balance: -2.88 %	Calculated TDS: 232	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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

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

Sampled: 08-Jul-25 10:01

SVL Sample ID: **X5G0136-04 (Ground Water)**

Received: 09-Jul-25

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	51.5	mg/L	0.100	0.069		X529083	JRR	07/17/25 07:52	
EPA 200.7	Magnesium	19.1	mg/L	0.500	0.090		X529083	JRR	07/17/25 07:52	
EPA 200.7	Potassium	1.16	mg/L	0.50	0.18		X529083	JRR	07/17/25 07:52	
SM 2340 B	Hardness (as CaCO3)	205	mg/L	2.31	0.543		N/A		07/17/25 07:52	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X529007	JRR	07/15/25 07:42	
EPA 200.7	Barium	0.0369	mg/L	0.0020	0.0019		X529007	JRR	07/15/25 07:42	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X529007	JRR	07/15/25 07:42	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X529007	JRR	07/15/25 07:42	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X529007	JRR	07/15/25 07:42	
EPA 200.7	Calcium	50.8	mg/L	0.100	0.069		X529007	JRR	07/15/25 07:42	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X529007	JRR	07/15/25 07:42	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X529007	JRR	07/15/25 07:42	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X529007	JRR	07/15/25 07:42	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X529007	JRR	07/15/25 07:42	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X529007	JRR	07/15/25 07:42	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X529007	JRR	07/15/25 07:42	
EPA 200.7	Magnesium	18.6	mg/L	0.500	0.090		X529007	JRR	07/15/25 07:42	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 07:42	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 07:42	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X529007	JRR	07/15/25 07:42	
EPA 200.7	Potassium	1.14	mg/L	0.50	0.18		X529007	JRR	07/15/25 07:42	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 07:42	
EPA 200.7	Sodium	12.0	mg/L	0.50	0.12		X529007	JRR	07/15/25 07:42	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 07:42	
EPA 200.7	Zinc	0.0136	mg/L	0.0100	0.0054		X529007	JRR	07/15/25 07:42	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 08:25	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 08:25	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 08:25	
EPA 200.8	Thallium	0.000229	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 08:25	
EPA 200.8	Uranium	0.00127	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 08:25	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528094	SJN	07/11/25 16:30	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 11:53	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X529055	JPM	07/16/25 10:03	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528155	ORW	07/11/25 15:05	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X529148	ORW	07/18/25 12:31	
SM 2310 B	Acidity to pH 8.3	-66.0	mg/L as CaCO3	10.0			X529230	MWD	07/21/25 10:45	
SM 2320 B	Total Alkalinity	66.5	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:54	
SM 2320 B	Bicarbonate	66.5	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:54	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:54	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 13:54	
SM 2540 C	Total Diss. Solids	303	mg/L	10			X528161	TJL	07/11/25 12:15	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X528162	TJL	07/11/25 13:10	
SM 4500 H B	pH @24.3°C	6.6	pH Units				X529010	MWD	07/14/25 13:54	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0136 Reported: 21-Jul-25 15:37
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Client Sample ID: **GVMW-7B**
SVL Sample ID: **X5G0136-04 (Ground Water)**

Sampled: 08-Jul-25 10:01
Received: 09-Jul-25
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	23.7	mg/L	2.00	0.22	10	X528119	RS	07/09/25 19:24	
EPA 300.0	Fluoride	0.333	mg/L	0.100	0.017		X528119	RS	07/09/25 19:09	
EPA 300.0	Nitrate as N	0.718	mg/L	0.050	0.013		X528119	RS	07/09/25 19:09	
EPA 300.0	Nitrate+Nitrite as N	0.734	mg/L	0.100	0.044		X528119	RS	07/09/25 19:09	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X528119	RS	07/09/25 19:09	
EPA 300.0	Sulfate as SO4	140	mg/L	3.00	1.80	10	X528119	RS	07/09/25 19:24	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.63 meq/L	Anion Sum: 4.98 meq/L	C/A Balance: -3.66 %	Calculated TDS: 290	TDS/cTDS: 1.04
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

Client Sample ID: **GVMW-4A**

Sampled: 08-Jul-25 11:13

SVL Sample ID: **X5G0136-05 (Ground Water)**

Received: 09-Jul-25

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	18.4	mg/L	0.100	0.069		X529083	JRR	07/17/25 07:55	
EPA 200.7	Magnesium	10.6	mg/L	0.500	0.090		X529083	JRR	07/17/25 07:55	
EPA 200.7	Potassium	1.40	mg/L	0.50	0.18		X529083	JRR	07/17/25 07:55	
SM 2340 B	Hardness (as CaCO3)	85.2	mg/L	2.31	0.543		N/A		07/17/25 07:55	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X529007	JRR	07/15/25 07:46	
EPA 200.7	Barium	0.166	mg/L	0.0020	0.0019		X529007	JRR	07/15/25 07:46	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X529007	JRR	07/15/25 07:46	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X529007	JRR	07/15/25 07:46	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X529007	JRR	07/15/25 07:46	
EPA 200.7	Calcium	17.8	mg/L	0.100	0.069		X529007	JRR	07/15/25 07:46	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X529007	JRR	07/15/25 07:46	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X529007	JRR	07/15/25 07:46	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X529007	JRR	07/15/25 07:46	
EPA 200.7	Iron	7.07	mg/L	0.100	0.056		X529007	JRR	07/15/25 07:46	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X529007	JRR	07/15/25 07:46	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X529007	JRR	07/15/25 07:46	
EPA 200.7	Magnesium	9.89	mg/L	0.500	0.090		X529007	JRR	07/15/25 07:46	
EPA 200.7	Manganese	1.90	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 07:46	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 07:46	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X529007	JRR	07/15/25 07:46	
EPA 200.7	Potassium	1.35	mg/L	0.50	0.18		X529007	JRR	07/15/25 07:46	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 07:46	
EPA 200.7	Sodium	9.33	mg/L	0.50	0.12		X529007	JRR	07/15/25 07:46	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 07:46	
EPA 200.7	Zinc	0.0223	mg/L	0.0100	0.0054		X529007	JRR	07/15/25 07:46	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 08:29	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 08:29	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 08:29	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 08:29	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 08:29	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528094	SJN	07/11/25 16:32	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 11:56	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X529055	JPM	07/16/25 10:05	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X528155	ORW	07/11/25 15:07	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X529148	ORW	07/18/25 12:34	
SM 2310 B	Acidity to pH 8.3	-47.5	mg/L as CaCO3	10.0			X529230	MWD	07/21/25 10:45	
SM 2320 B	Total Alkalinity	50.4	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:08	
SM 2320 B	Bicarbonate	50.4	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:08	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:08	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:08	
SM 2540 C	Total Diss. Solids	180	mg/L	10			X528161	TJL	07/11/25 12:15	
SM 2540 D	Total Susp. Solids	6.0	mg/L	5.0			X528162	TJL	07/11/25 13:10	
SM 4500 H B	pH @24.4°C	6.3	pH Units				X529010	MWD	07/14/25 14:08	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0136 Reported: 21-Jul-25 15:37
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Client Sample ID: **GVMW-4A**
SVL Sample ID: **X5G0136-05 (Ground Water)**

Sampled: 08-Jul-25 11:13
Received: 09-Jul-25
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	4.90	mg/L	0.20	0.02		X528119	RS	07/09/25 19:40	
EPA 300.0	Fluoride	0.136	mg/L	0.100	0.017		X528119	RS	07/09/25 19:40	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X528119	RS	07/09/25 19:40	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X528119	RS	07/09/25 19:40	
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X528119	RS	07/09/25 19:55	
EPA 300.0	Sulfate as SO4	66.7	mg/L	3.00	1.80	10	X528119	RS	07/09/25 19:55	

Cation/Anion Balance and TDS Ratios

Cation Sum: 2.48 meq/L	Anion Sum: 2.54 meq/L	C/A Balance: -1.31 %	Calculated TDS: 141	TDS/cTDS: 1.28
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

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

Sampled: 08-Jul-25 12:38

Received: 09-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0136-06 (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	21.0	mg/L	0.100	0.069		X529083	JRR	07/17/25 07:59	
EPA 200.7	Magnesium	18.8	mg/L	0.500	0.090		X529083	JRR	07/17/25 07:59	
EPA 200.7	Potassium	1.97	mg/L	0.50	0.18		X529083	JRR	07/17/25 07:59	
SM 2340 B	Hardness (as CaCO3)	130	mg/L	2.31	0.543		N/A		07/15/25 07:50	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X529007	JRR	07/15/25 07:50	
EPA 200.7	Barium	0.0523	mg/L	0.0020	0.0019		X529007	JRR	07/15/25 07:50	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X529007	JRR	07/15/25 07:50	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X529007	JRR	07/15/25 07:50	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X529007	JRR	07/15/25 07:50	
EPA 200.7	Calcium	20.5	mg/L	0.100	0.069		X529007	JRR	07/15/25 07:50	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X529007	JRR	07/15/25 07:50	
EPA 200.7	Cobalt	0.0314	mg/L	0.0060	0.0046		X529007	JRR	07/15/25 07:50	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X529007	JRR	07/15/25 07:50	
EPA 200.7	Iron	33.4	mg/L	0.100	0.056		X529007	JRR	07/15/25 07:50	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X529007	JRR	07/15/25 07:50	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X529007	JRR	07/15/25 07:50	
EPA 200.7	Magnesium	17.5	mg/L	0.500	0.090		X529007	JRR	07/15/25 07:50	
EPA 200.7	Manganese	2.01	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 07:50	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 07:50	
EPA 200.7	Nickel	0.0519	mg/L	0.0100	0.0048		X529007	JRR	07/15/25 07:50	
EPA 200.7	Potassium	1.83	mg/L	0.50	0.18		X529007	JRR	07/15/25 07:50	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 07:50	
EPA 200.7	Sodium	13.5	mg/L	0.50	0.12		X529007	JRR	07/15/25 07:50	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 07:50	
EPA 200.7	Zinc	0.225	mg/L	0.0100	0.0054		X529007	JRR	07/15/25 07:50	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 08:32	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 08:32	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 08:32	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 08:32	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 08:32	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528094	SJN	07/11/25 16:34	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 11:59	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X529055	JPM	07/16/25 10:08	
EPA 350.1	Ammonia as N	0.036	mg/L	0.030	0.013		X528155	ORW	07/11/25 15:10	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X529148	ORW	07/18/25 12:37	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X529230	MWD	07/21/25 10:45	
SM 2320 B	Total Alkalinity	1.8	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:13	
SM 2320 B	Bicarbonate	1.8	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:13	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:13	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:13	
SM 2540 C	Total Diss. Solids	339	mg/L	10			X528161	TJL	07/11/25 12:15	
SM 2540 D	Total Susp. Solids	23.0	mg/L	5.0			X528162	TJL	07/11/25 13:10	
SM 4500 H B	pH @24.2°C	5.2	pH Units				X529010	MWD	07/14/25 14:13	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0136 Reported: 21-Jul-25 15:37
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Client Sample ID: **GVMW-15A**
SVL Sample ID: **X5G0136-06 (Ground Water)**

Sampled: 08-Jul-25 12:38
Received: 09-Jul-25
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	1.54	mg/L	0.20	0.02		X528119	RS	07/09/25 20:42	
EPA 300.0	Fluoride	0.323	mg/L	0.100	0.017		X528119	RS	07/09/25 20:42	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X528119	RS	07/09/25 20:42	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X528119	RS	07/09/25 20:42	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X528119	RS	07/09/25 20:42	
EPA 300.0	Sulfate as SO4	< 3.00	mg/L	3.00	1.80	10	X528119	RS	07/09/25 20:58	

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

Kristi A. Groth

Kristi A. Groth
Project Manager

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

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

Sampled: 08-Jul-25 12:30

SVL Sample ID: **X5G0136-07 (Ground Water)**

Received: 09-Jul-25

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	42.3	mg/L	0.100	0.069		X529083	JRR	07/17/25 08:11	
EPA 200.7	Magnesium	23.3	mg/L	0.500	0.090		X529083	JRR	07/17/25 08:11	
EPA 200.7	Potassium	2.24	mg/L	0.50	0.18		X529083	JRR	07/17/25 08:11	
SM 2340 B	Hardness (as CaCO3)	197	mg/L	2.31	0.543		N/A		07/15/25 08:03	

Metals (Dissolved)

EPA 200.7	Aluminum	0.354	mg/L	0.080	0.054		X529007	JRR	07/15/25 08:03	
EPA 200.7	Barium	0.0134	mg/L	0.0020	0.0019		X529007	JRR	07/15/25 08:03	
EPA 200.7	Beryllium	0.0291	mg/L	0.00200	0.00080		X529007	JRR	07/15/25 08:03	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X529007	JRR	07/15/25 08:03	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X529007	JRR	07/15/25 08:03	
EPA 200.7	Calcium	40.7	mg/L	0.100	0.069		X529007	JRR	07/15/25 08:03	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X529007	JRR	07/15/25 08:03	
EPA 200.7	Cobalt	0.0618	mg/L	0.0060	0.0046		X529007	JRR	07/15/25 08:03	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X529007	JRR	07/15/25 08:03	
EPA 200.7	Iron	21.4	mg/L	0.100	0.056		X529007	JRR	07/15/25 08:03	
EPA 200.7	Lead	0.0552	mg/L	0.0075	0.0049		X529007	JRR	07/15/25 08:03	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X529007	JRR	07/15/25 08:03	
EPA 200.7	Magnesium	21.5	mg/L	0.500	0.090		X529007	JRR	07/15/25 08:03	
EPA 200.7	Manganese	1.36	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 08:03	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X529007	JRR	07/15/25 08:03	
EPA 200.7	Nickel	0.0973	mg/L	0.0100	0.0048		X529007	JRR	07/15/25 08:03	
EPA 200.7	Potassium	2.15	mg/L	0.50	0.18		X529007	JRR	07/15/25 08:03	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 08:03	
EPA 200.7	Sodium	13.5	mg/L	0.50	0.12		X529007	JRR	07/15/25 08:03	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529007	JRR	07/15/25 08:03	
EPA 200.7	Zinc	1.22	mg/L	0.0100	0.0054		X529007	JRR	07/15/25 08:03	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X528147	NMS	07/11/25 08:38	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X528147	NMS	07/11/25 08:38	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X528147	NMS	07/11/25 08:38	
EPA 200.8	Thallium	0.000233	mg/L	0.000200	0.00008		X528147	NMS	07/11/25 08:38	
EPA 200.8	Uranium	0.00349	mg/L	0.000100	0.000052		X528147	NMS	07/11/25 08:38	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X528094	SJN	07/11/25 16:40	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X529001	JPM	07/14/25 12:02	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X529055	JPM	07/16/25 10:10	
EPA 350.1	Ammonia as N	0.034	mg/L	0.030	0.013		X528155	ORW	07/11/25 15:12	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X529148	ORW	07/18/25 13:01	
SM 2310 B	Acidity to pH 8.3	37.0	mg/L as CaCO3	10.0			X529230	MWD	07/21/25 10:45	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:18	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:18	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:18	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529010	MWD	07/14/25 14:18	
SM 2540 C	Total Diss. Solids	443	mg/L	10			X528161	TJL	07/11/25 12:15	
SM 2540 D	Total Susp. Solids	6.0	mg/L	5.0			X528162	TJL	07/11/25 13:10	
SM 4500 H B	pH @24.2°C	3.7	pH Units				X529010	MWD	07/14/25 14:18	H5



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

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

Sampled: 08-Jul-25 12:30

SVL Sample ID: **X5G0136-07 (Ground Water)**

Received: 09-Jul-25

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	1.63	mg/L	0.20	0.02		X528119	RS	07/09/25 21:13	
EPA 300.0	Fluoride	0.337	mg/L	0.100	0.017		X528119	RS	07/09/25 21:13	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X528119	RS	07/09/25 21:13	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X528119	RS	07/09/25 21:13	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X528119	RS	07/09/25 21:13	
EPA 300.0	Sulfate as SO4	268	mg/L	3.00	1.80	10	X528119	RS	07/10/25 23:34	

Cation/Anion Balance and TDS Ratios

Cation Sum: 5.34 meq/L

Anion Sum: 5.67 meq/L

C/A Balance: -2.95 %

Calculated TDS: 350

TDS/cTDS: 1.27

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

Kristi A. Groth

Kristi A. Groth

Project Manager

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

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	X529083	17-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X529083	17-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X529083	17-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X529007	15-Jul-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X529007	15-Jul-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X529007	15-Jul-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X529007	15-Jul-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X529007	15-Jul-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X529007	15-Jul-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X529007	15-Jul-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X529007	15-Jul-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X529007	15-Jul-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X529007	15-Jul-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X529007	15-Jul-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X529007	15-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X529007	15-Jul-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X529007	15-Jul-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X529007	15-Jul-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X529007	15-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X529007	15-Jul-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X529007	15-Jul-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X529007	15-Jul-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X529007	15-Jul-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X529007	15-Jul-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X528147	11-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X528147	11-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X528147	11-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X528147	11-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X528147	11-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X528094	11-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X529001	14-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X529055	16-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X528155	11-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X529148	18-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X529230	21-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X529010	14-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X529010	14-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X529010	14-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X529010	14-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X528161	11-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X528162	11-Jul-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X528119	09-Jul-25	
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X528119	09-Jul-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X528119	09-Jul-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X528119	09-Jul-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X528119	09-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X528119	09-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X528119	09-Jul-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X528119	09-Jul-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X528119	09-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 16 of 22

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

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	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X528119	09-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X528119	09-Jul-25	

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	19.7	20.0	99	85 - 115	X529083	17-Jul-25	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.7	85 - 115	X529083	17-Jul-25	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.0	85 - 115	X529083	17-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.978	1.00	97.8	85 - 115	X529007	15-Jul-25	
EPA 200.7	Barium	mg/L	1.00	1.00	100	85 - 115	X529007	15-Jul-25	
EPA 200.7	Beryllium	mg/L	0.981	1.00	98.1	85 - 115	X529007	15-Jul-25	
EPA 200.7	Boron	mg/L	0.983	1.00	98.3	85 - 115	X529007	15-Jul-25	
EPA 200.7	Cadmium	mg/L	0.978	1.00	97.8	85 - 115	X529007	15-Jul-25	
EPA 200.7	Calcium	mg/L	19.9	20.0	99.6	85 - 115	X529007	15-Jul-25	
EPA 200.7	Chromium	mg/L	1.01	1.00	101	85 - 115	X529007	15-Jul-25	
EPA 200.7	Cobalt	mg/L	0.959	1.00	95.9	85 - 115	X529007	15-Jul-25	
EPA 200.7	Copper	mg/L	0.960	1.00	96.0	85 - 115	X529007	15-Jul-25	
EPA 200.7	Iron	mg/L	9.77	10.0	97.7	85 - 115	X529007	15-Jul-25	
EPA 200.7	Lead	mg/L	0.986	1.00	98.6	85 - 115	X529007	15-Jul-25	
EPA 200.7	Lithium	mg/L	0.940	1.00	94.0	85 - 115	X529007	15-Jul-25	
EPA 200.7	Magnesium	mg/L	19.0	20.0	94.9	85 - 115	X529007	15-Jul-25	
EPA 200.7	Manganese	mg/L	1.01	1.00	101	85 - 115	X529007	15-Jul-25	
EPA 200.7	Molybdenum	mg/L	1.02	1.00	102	85 - 115	X529007	15-Jul-25	
EPA 200.7	Nickel	mg/L	0.971	1.00	97.1	85 - 115	X529007	15-Jul-25	
EPA 200.7	Potassium	mg/L	20.0	20.0	100	85 - 115	X529007	15-Jul-25	
EPA 200.7	Silver	mg/L	0.0470	0.0500	93.9	85 - 115	X529007	15-Jul-25	
EPA 200.7	Sodium	mg/L	18.9	19.0	99.3	85 - 115	X529007	15-Jul-25	
EPA 200.7	Vanadium	mg/L	1.01	1.00	101	85 - 115	X529007	15-Jul-25	
EPA 200.7	Zinc	mg/L	0.956	1.00	95.6	85 - 115	X529007	15-Jul-25	
EPA 200.8	Antimony	mg/L	0.0232	0.0250	92.8	85 - 115	X528147	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.1	85 - 115	X528147	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0221	0.0250	88.5	85 - 115	X528147	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0241	0.0250	96.6	85 - 115	X528147	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0246	0.0250	98.4	85 - 115	X528147	11-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00198	0.00200	98.8	85 - 115	X528094	11-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.100	0.100	100	90 - 110	X529001	14-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0970	0.100	97.0	90 - 110	X529055	16-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.991	1.00	99.1	90 - 110	X528155	11-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X529148	18-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1160	1180	98.6	95.4 - 104	X529230	21-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	94 - 106	X529010	14-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.0	99.3	99.7	94 - 106	X529010	14-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	406	397	102	94 - 106	X529010	14-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	240	250	96.0	85 - 115	X528161	11-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X528162	11-Jul-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

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	2.94	3.00	98.0	90 - 110	X528119	09-Jul-25	
EPA 300.0	Fluoride	mg/L	1.97	2.00	98.3	90 - 110	X528119	09-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.93	2.00	96.4	90 - 110	X528119	09-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.40	4.50	97.8	90 - 110	X528119	09-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.47	2.50	99.0	90 - 110	X528119	09-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X528119	09-Jul-25	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0	<10.0	UDL	20	X529230 - X5G0136-01	21-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	47.2	48.1	1.9	20	X529010 - X5G0136-02	14-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	47.2	48.1	1.9	20	X529010 - X5G0136-02	14-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X529010 - X5G0136-02	14-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X529010 - X5G0136-02	14-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	275	266	3.3	10	X528161 - X5G0136-02	11-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	276	241	13.5	10	X528161 - X5G0138-01	11-Jul-25	R2B
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X528162 - X5G0138-01	11-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X528162 - X5G0136-02	11-Jul-25	
SM 4500 H B	pH @24.4°C	pH Units	6.8	7.0	1.9	20	X529010 - X5G0136-02	14-Jul-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	67.3	47.4	20.0	100	70 - 130	X529083 - X5G0136-03	17-Jul-25	
EPA 200.7	Calcium	mg/L	378	362	20.0	80	70 - 130	X529083 - X5G0148-03	17-Jul-25	
EPA 200.7	Magnesium	mg/L	42.8	21.3	20.0	107	70 - 130	X529083 - X5G0136-03	17-Jul-25	
EPA 200.7	Magnesium	mg/L	55.2	33.9	20.0	106	70 - 130	X529083 - X5G0148-03	17-Jul-25	
EPA 200.7	Potassium	mg/L	21.3	1.08	20.0	101	70 - 130	X529083 - X5G0136-03	17-Jul-25	
EPA 200.7	Potassium	mg/L	30.6	10.2	20.0	102	70 - 130	X529083 - X5G0148-03	17-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	0.941	<0.080	1.00	94.1	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Aluminum	mg/L	0.972	<0.080	1.00	97.2	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Barium	mg/L	1.17	0.201	1.00	96.6	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Barium	mg/L	0.996	0.0246	1.00	97.1	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Beryllium	mg/L	0.961	<0.00200	1.00	96.1	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Beryllium	mg/L	0.976	<0.00200	1.00	97.6	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Boron	mg/L	0.967	<0.0400	1.00	96.7	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Boron	mg/L	1.03	0.0445	1.00	99.0	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Cadmium	mg/L	0.939	<0.0020	1.00	93.9	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Cadmium	mg/L	0.941	<0.0020	1.00	94.1	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Calcium	mg/L	64.9	45.8	20.0	95.3	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Calcium	mg/L	158	143	20.0	75.3	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Chromium	mg/L	0.969	<0.0060	1.00	96.9	70 - 130	X529007 - X5G0136-03	15-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 18 of 22

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Chromium	mg/L	0.980	<0.0060	1.00	98.0	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Cobalt	mg/L	0.905	<0.0060	1.00	90.5	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Cobalt	mg/L	0.925	<0.0060	1.00	92.5	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Copper	mg/L	0.916	<0.0100	1.00	91.6	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Copper	mg/L	0.944	<0.0100	1.00	94.4	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Iron	mg/L	10.7	1.21	10.0	95.1	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Iron	mg/L	9.54	<0.100	10.0	95.4	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Lead	mg/L	0.947	<0.0075	1.00	94.7	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Lead	mg/L	0.955	<0.0075	1.00	95.5	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Lithium	mg/L	0.934	<0.040	1.00	93.4	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Lithium	mg/L	1.01	<0.040	1.00	97.9	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Magnesium	mg/L	39.2	19.9	20.0	96.5	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Magnesium	mg/L	32.0	12.5	20.0	97.5	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Manganese	mg/L	1.20	0.234	1.00	96.8	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Manganese	mg/L	1.06	0.0691	1.00	98.9	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.971	<0.0080	1.00	97.1	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.986	<0.0080	1.00	98.6	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Nickel	mg/L	0.916	<0.0100	1.00	91.6	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Nickel	mg/L	0.932	<0.0100	1.00	93.2	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Potassium	mg/L	20.5	1.02	20.0	97.5	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Potassium	mg/L	22.5	3.03	20.0	97.1	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Silver	mg/L	0.0448	<0.0050	0.0500	89.5	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Silver	mg/L	0.0470	<0.0050	0.0500	94.0	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Sodium	mg/L	28.4	10.2	19.0	95.8	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Sodium	mg/L	52.5	35.1	19.0	91.3	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Vanadium	mg/L	0.975	<0.0050	1.00	97.5	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Vanadium	mg/L	0.980	<0.0050	1.00	98.0	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.7	Zinc	mg/L	0.942	0.0117	1.00	93.0	70 - 130	X529007 - X5G0136-03	15-Jul-25	
EPA 200.7	Zinc	mg/L	0.945	0.0117	1.00	93.3	70 - 130	X529007 - X5G0166-02	15-Jul-25	
EPA 200.8	Antimony	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Antimony	mg/L	0.0261	<0.00100	0.0250	104	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0324	0.00443	0.0250	112	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0265	<0.00100	0.0250	104	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0274	0.00207	0.0250	101	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Selenium	mg/L	0.0252	<0.00100	0.0250	99.6	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0280	<0.000200	0.0250	112	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Thallium	mg/L	0.0253	<0.000200	0.0250	101	70 - 130	X528147 - X5G0136-06	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0365	0.00658	0.0250	120	70 - 130	X528147 - X5G0047-01	11-Jul-25	
EPA 200.8	Uranium	mg/L	0.0265	<0.000100	0.0250	106	70 - 130	X528147 - X5G0136-06	11-Jul-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00203	<0.000200	0.00200	101	70 - 130	X528094 - X5G0112-01	11-Jul-25	
EPA 245.1	Mercury	mg/L	0.00191	<0.000200	0.00200	95.3	70 - 130	X528094 - X5G0138-01	11-Jul-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0996	<0.0050	0.100	99.6	79 - 121	X529001 - X5G0047-03	14-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0973	<0.0050	0.100	97.3	90 - 110	X529055 - X5G0136-04	16-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.110	0.0111	0.100	98.8	90 - 110	X529055 - X5G0136-01	16-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X528155 - X5G0136-03	11-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.966	<0.030	1.00	96.6	90 - 110	X528155 - X5G0136-02	11-Jul-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

Quality Control - MATRIX SPIKE Data (Continued)

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

OIA 1677	Cyanide (WAD)	mg/L	0.106	<0.0050	0.100	106	82 - 118	X529148 - X5G0136-06	18-Jul-25	
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Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	4.61	1.63	3.00	99.2	90 - 110	X528119 - X5G0136-07	09-Jul-25	
EPA 300.0	Chloride	mg/L	20.7	18.4	3.00	0.30R>S	90 - 110	X528119 - X5G0138-01	11-Jul-25	M4
EPA 300.0	Fluoride	mg/L	2.28	0.337	2.00	97.2	90 - 110	X528119 - X5G0136-07	09-Jul-25	
EPA 300.0	Fluoride	mg/L	2.77	0.800	2.00	98.4	90 - 110	X528119 - X5G0138-01	09-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.96	<0.050	2.00	98.2	90 - 110	X528119 - X5G0136-07	09-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.95	<0.050	2.00	97.5	90 - 110	X528119 - X5G0138-01	09-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	<0.100	4.00	99.3	90 - 110	X528119 - X5G0136-07	09-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.98	<0.100	4.00	99.4	90 - 110	X528119 - X5G0138-01	09-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.01	<0.050	2.00	100	90 - 110	X528119 - X5G0136-07	09-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X528119 - X5G0138-01	09-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	35.5	25.5	10.0	100	90 - 110	X528119 - X5G0138-01	09-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	274	268	10.0	0.30R>S	90 - 110	X528119 - X5G0136-07	10-Jul-25	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	67.0	67.3	20.0	0.4	20	98	X529083 - X5G0136-03	
EPA 200.7	Magnesium	mg/L	42.3	42.8	20.0	1.1	20	105	X529083 - X5G0136-03	
EPA 200.7	Potassium	mg/L	21.1	21.3	20.0	0.9	20	100	X529083 - X5G0136-03	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.963	0.941	1.00	2.3	20	96.3	X529007 - X5G0136-03	
EPA 200.7	Barium	mg/L	1.19	1.17	1.00	1.6	20	98.5	X529007 - X5G0136-03	
EPA 200.7	Beryllium	mg/L	0.947	0.961	1.00	1.4	20	94.7	X529007 - X5G0136-03	
EPA 200.7	Boron	mg/L	0.993	0.967	1.00	2.6	20	99.3	X529007 - X5G0136-03	
EPA 200.7	Cadmium	mg/L	0.932	0.939	1.00	0.8	20	93.2	X529007 - X5G0136-03	
EPA 200.7	Calcium	mg/L	64.5	64.9	20.0	0.6	20	93.3	X529007 - X5G0136-03	
EPA 200.7	Chromium	mg/L	0.959	0.969	1.00	1.1	20	95.9	X529007 - X5G0136-03	
EPA 200.7	Cobalt	mg/L	0.897	0.905	1.00	0.9	20	89.7	X529007 - X5G0136-03	
EPA 200.7	Copper	mg/L	0.907	0.916	1.00	1.0	20	90.7	X529007 - X5G0136-03	
EPA 200.7	Iron	mg/L	10.5	10.7	10.0	1.8	20	93.2	X529007 - X5G0136-03	
EPA 200.7	Lead	mg/L	0.936	0.947	1.00	1.2	20	93.6	X529007 - X5G0136-03	
EPA 200.7	Lithium	mg/L	0.959	0.934	1.00	2.6	20	95.9	X529007 - X5G0136-03	
EPA 200.7	Magnesium	mg/L	38.7	39.2	20.0	1.3	20	94.0	X529007 - X5G0136-03	
EPA 200.7	Manganese	mg/L	1.19	1.20	1.00	1.2	20	95.4	X529007 - X5G0136-03	
EPA 200.7	Molybdenum	mg/L	0.962	0.971	1.00	1.0	20	96.2	X529007 - X5G0136-03	
EPA 200.7	Nickel	mg/L	0.905	0.916	1.00	1.2	20	90.5	X529007 - X5G0136-03	
EPA 200.7	Potassium	mg/L	20.2	20.5	20.0	1.8	20	95.7	X529007 - X5G0136-03	
EPA 200.7	Silver	mg/L	0.0460	0.0448	0.0500	2.7	20	92.0	X529007 - X5G0136-03	
EPA 200.7	Sodium	mg/L	28.1	28.4	19.0	1.2	20	94.1	X529007 - X5G0136-03	
EPA 200.7	Vanadium	mg/L	0.967	0.975	1.00	0.8	20	96.7	X529007 - X5G0136-03	
EPA 200.7	Zinc	mg/L	0.933	0.942	1.00	0.9	20	92.1	X529007 - X5G0136-03	
EPA 200.8	Antimony	mg/L	0.0263	0.0252	0.0250	4.5	20	105	X528147 - X5G0047-01	
EPA 200.8	Arsenic	mg/L	0.0337	0.0324	0.0250	3.8	20	117	X528147 - X5G0047-01	
EPA 200.8	Selenium	mg/L	0.0288	0.0274	0.0250	5.1	20	107	X528147 - X5G0047-01	
EPA 200.8	Thallium	mg/L	0.0291	0.0280	0.0250	3.5	20	116	X528147 - X5G0047-01	
EPA 200.8	Uranium	mg/L	0.0377	0.0365	0.0250	3.1	20	124	X528147 - X5G0047-01	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00208	0.00203	0.00200	2.3	20	104	X528094 - X5G0112-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.102	0.0996	0.100	2.8	11	102	X529001 - X5G0047-03	
EPA 335.4	Cyanide (total)	mg/L	0.0945	0.0973	0.100	2.9	20	94.5	X529055 - X5G0136-04	
EPA 350.1	Ammonia as N	mg/L	0.970	1.01	1.00	4.1	20	97.0	X528155 - X5G0136-03	
OIA 1677	Cyanide (WAD)	mg/L	0.109	0.106	0.100	3.4	11	109	X529148 - X5G0136-06	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	20.6	20.7	3.00	0.5	20	0.30R>S	X528119 - X5G0138-01	M4
EPA 300.0	Fluoride	mg/L	2.74	2.77	2.00	1.1	20	96.9	X528119 - X5G0138-01	
EPA 300.0	Nitrate as N	mg/L	1.95	1.95	2.00	0.2	20	97.4	X528119 - X5G0138-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	3.98	4.00	0.0	20	99.3	X528119 - X5G0138-01	
EPA 300.0	Nitrite as N	mg/L	2.03	2.02	2.00	0.1	20	101	X528119 - X5G0138-01	
EPA 300.0	Sulfate as SO4	mg/L	35.6	35.5	10.0	0.2	20	101	X528119 - X5G0138-01	



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Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0136**

Reported: 21-Jul-25 15:37

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.
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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0210**

Reported: 29-Jul-25 11:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-25	X5G0210-01	Ground Water	14-Jul-25 09:18	JC	14-Jul-2025	Q5
GVMW-28	X5G0210-02	Ground Water	14-Jul-25 10:25	JC	14-Jul-2025	Q5C
OSABH-17	X5G0210-03	Ground Water	14-Jul-25 11:40	JC	14-Jul-2025	Q5C

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

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Case Narrative: X5G0210

The state of origin only accredits for drinking water analyses.

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

07/29/2025 KAG N1 For CN WAD OIA 1677; samples -02 and -03 were pH tested at the bench and were > pH 10. They were accordingly diluted 10x in 1 M NaOH.

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0210**

Reported: 29-Jul-25 11:58

Client Sample ID: **GVMW-25**

Sampled: 14-Jul-25 09:18

SVL Sample ID: **X5G0210-01 (Ground Water)**

Received: 14-Jul-25

Sampled By: JC

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	388	mg/L	0.100	0.069		X529224	SJN	07/21/25 09:32	
EPA 200.7	Magnesium	210	mg/L	0.500	0.090		X529224	SJN	07/21/25 09:32	
EPA 200.7	Potassium	4.61	mg/L	0.50	0.18		X529224	SJN	07/21/25 09:32	
SM 2340 B	Hardness (as CaCO3)	1980	mg/L	2.31	0.543		N/A		07/21/25 09:32	

Metals (Dissolved)

EPA 200.7	Aluminum	357	mg/L	0.080	0.054		X529223	NMS	07/25/25 08:49	
EPA 200.7	Barium	0.0131	mg/L	0.0020	0.0019		X529223	NMS	07/25/25 08:49	
EPA 200.7	Beryllium	0.303	mg/L	0.00200	0.00080		X529223	NMS	07/25/25 08:49	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X529223	NMS	07/25/25 08:49	
EPA 200.7	Cadmium	0.750	mg/L	0.0020	0.0016		X529223	NMS	07/25/25 08:49	
EPA 200.7	Calcium	424	mg/L	0.100	0.069		X529223	NMS	07/25/25 08:49	
EPA 200.7	Chromium	0.0478	mg/L	0.0060	0.0020		X529223	NMS	07/25/25 08:49	
EPA 200.7	Cobalt	0.722	mg/L	0.0060	0.0046		X529223	NMS	07/25/25 08:49	
EPA 200.7	Copper	1.22	mg/L	0.0100	0.0027		X529223	NMS	07/25/25 08:49	
EPA 200.7	Iron	1.24	mg/L	0.100	0.056		X529223	NMS	07/25/25 08:49	
EPA 200.7	Lead	0.0097	mg/L	0.0075	0.0049		X529223	NMS	07/25/25 08:49	
EPA 200.7	Lithium	0.154	mg/L	0.040	0.025		X529223	NMS	07/25/25 08:49	
EPA 200.7	Magnesium	223	mg/L	0.500	0.090		X529223	NMS	07/25/25 08:49	
EPA 200.7	Manganese	127	mg/L	0.0800	0.0340	10	X529223	NMS	07/25/25 09:42	
EPA 200.7	Molybdenum	0.0130	mg/L	0.0080	0.0034		X529223	NMS	07/25/25 08:49	
EPA 200.7	Nickel	1.27	mg/L	0.0100	0.0048		X529223	NMS	07/25/25 08:49	
EPA 200.7	Potassium	3.98	mg/L	0.50	0.18		X529223	NMS	07/25/25 08:49	
EPA 200.7	Silver	0.0356	mg/L	0.0050	0.0019		X529223	NMS	07/25/25 08:49	
EPA 200.7	Sodium	37.1	mg/L	0.50	0.12		X529223	NMS	07/25/25 08:49	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529223	NMS	07/25/25 08:49	
EPA 200.7	Zinc	26.9	mg/L	0.0100	0.0054		X529223	NMS	07/25/25 08:49	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X530106	SMU	07/25/25 12:20	
EPA 200.8	Arsenic	0.0872	mg/L	0.00100	0.00021		X530106	SMU	07/25/25 12:20	
EPA 200.8	Selenium	0.00995	mg/L	0.00100	0.00024		X530106	SMU	07/25/25 12:20	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X530106	SMU	07/25/25 12:20	
EPA 200.8	Uranium	1.07	mg/L	0.000100	0.000052		X530106	SMU	07/25/25 12:20	M3

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X529167	MAC	07/23/25 12:37	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X530075	HJL	07/23/25 16:39	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X529158	ORW	07/18/25 11:53	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X529100	ORW	07/16/25 16:33	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X529148	ORW	07/18/25 13:37	
SM 2310 B	Acidity to pH 8.3	2270	mg/L as CaCO3	10.0			X531007	MWD	07/28/25 10:50	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 12:10	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 12:10	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 12:10	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 12:10	
SM 2540 C	Total Diss. Solids	6070	mg/L	40			X529153	TJL	07/18/25 12:40	
SM 2540 D	Total Susp. Solids	22.0	mg/L	5.0			X529154	TJL	07/18/25 12:10	
SM 4500 H B	pH @21.8°C	3.7	pH Units				X529112	MWD	07/17/25 12:10	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0210 Reported: 29-Jul-25 11:58
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Client Sample ID: **GVMW-25**
SVL Sample ID: **X5G0210-01 (Ground Water)**

Sampled: 14-Jul-25 09:18
Received: 14-Jul-25
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	31.2	mg/L	1.00	0.11	5	X529069	RS	07/15/25 20:19	
EPA 300.0	Fluoride	45.1	mg/L	10.0	1.70	100	X529069	RS	07/15/25 20:35	
EPA 300.0	Nitrate as N	3.58	mg/L	0.250	0.065	5	X529069	RS	07/15/25 20:19	D18
EPA 300.0	Nitrate+Nitrite as N	3.58	mg/L	0.500	0.220	5	X529069	RS	07/15/25 20:19	
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X529069	RS	07/15/25 20:19	
EPA 300.0	Sulfate as SO4	3980	mg/L	30.0	18.0	100	X529069	RS	07/15/25 20:35	

Cation/Anion Balance and TDS Ratios

Cation Sum: 83.8 meq/L	Anion Sum: 86.4 meq/L	C/A Balance: -1.55 %	Calculated TDS: 4736	TDS/cTDS: 1.28
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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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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0210**

Reported: 29-Jul-25 11:58

Client Sample ID: **GVMW-28**

Sampled: 14-Jul-25 10:25

Received: 14-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0210-02 (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	411	mg/L	0.500	0.345	5	X529224	SJN	07/21/25 12:47	D11
EPA 200.7	Magnesium	358	mg/L	2.50	0.450	5	X529224	SJN	07/21/25 12:47	D11
EPA 200.7	Potassium	< 2.50	mg/L	2.50	0.90	5	X529224	SJN	07/21/25 12:47	D11
SM 2340 B	Hardness (as CaCO3)	2500	mg/L	2.31	0.543		N/A		07/21/25 12:47	

Metals (Dissolved)

EPA 200.7	Aluminum	930	mg/L	0.800	0.540	10	X529223	NMS	07/25/25 09:44	
EPA 200.7	Barium	0.0100	mg/L	0.0020	0.0019		X529223	NMS	07/25/25 08:51	
EPA 200.7	Beryllium	0.623	mg/L	0.00200	0.00080		X529223	NMS	07/25/25 08:51	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X529223	NMS	07/25/25 08:51	
EPA 200.7	Cadmium	1.73	mg/L	0.0020	0.0016		X529223	NMS	07/25/25 08:51	
EPA 200.7	Calcium	408	mg/L	0.100	0.069		X529223	NMS	07/25/25 08:51	
EPA 200.7	Chromium	0.163	mg/L	0.0060	0.0020		X529223	NMS	07/25/25 08:51	
EPA 200.7	Cobalt	1.57	mg/L	0.0060	0.0046		X529223	NMS	07/25/25 08:51	
EPA 200.7	Copper	4.21	mg/L	0.0100	0.0027		X529223	NMS	07/25/25 08:51	
EPA 200.7	Iron	38.9	mg/L	0.100	0.056		X529223	NMS	07/25/25 08:51	
EPA 200.7	Lead	0.0121	mg/L	0.0075	0.0049		X529223	NMS	07/25/25 08:51	
EPA 200.7	Lithium	0.325	mg/L	0.040	0.025		X529223	NMS	07/25/25 08:51	
EPA 200.7	Magnesium	360	mg/L	0.500	0.090		X529223	NMS	07/25/25 08:51	
EPA 200.7	Manganese	277	mg/L	0.0800	0.0340	10	X529223	NMS	07/25/25 09:44	
EPA 200.7	Molybdenum	0.0283	mg/L	0.0080	0.0034		X529223	NMS	07/25/25 08:51	
EPA 200.7	Nickel	2.65	mg/L	0.0100	0.0048		X529223	NMS	07/25/25 08:51	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X529223	NMS	07/25/25 08:51	
EPA 200.7	Silver	0.184	mg/L	0.0050	0.0019		X529223	NMS	07/25/25 08:51	
EPA 200.7	Sodium	33.1	mg/L	0.50	0.12		X529223	NMS	07/25/25 08:51	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529223	NMS	07/25/25 08:51	
EPA 200.7	Zinc	79.5	mg/L	0.100	0.0540	10	X529223	NMS	07/25/25 09:44	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X530106	SMU	07/25/25 12:29	
EPA 200.8	Arsenic	0.184	mg/L	0.00100	0.00021		X530106	SMU	07/25/25 12:29	
EPA 200.8	Selenium	0.0245	mg/L	0.00100	0.00024		X530106	SMU	07/25/25 12:29	
EPA 200.8	Thallium	< 0.000400	mg/L	0.000400	0.000160	2	X530106	SMU	07/25/25 13:32	D17
EPA 200.8	Uranium	3.07	mg/L	0.000200	0.000104	2	X530106	SMU	07/25/25 13:32	D17

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X529167	MAC	07/23/25 12:39	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X530075	HJL	07/23/25 16:42	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X529158	ORW	07/18/25 11:55	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X529100	ORW	07/16/25 16:35	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X529148	ORW	07/18/25 13:40	D18,N1,Q12
SM 2310 B	Acidity to pH 8.3	5710	mg/L as CaCO3	10.0			X531007	MWD	07/28/25 10:50	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 12:16	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 12:16	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 12:16	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 12:16	
SM 2540 C	Total Diss. Solids	12100	mg/L	100			X529153	TJL	07/18/25 12:40	
SM 2540 D	Total Susp. Solids	24.0	mg/L	5.0			X529154	TJL	07/18/25 12:10	
SM 4500 H B	pH @21.9°C	3.1	pH Units				X529112	MWD	07/17/25 12:16	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



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0210 Reported: 29-Jul-25 11:58
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Client Sample ID: **GVMW-28**
SVL Sample ID: **X5G0210-02 (Ground Water)**

Sampled: 14-Jul-25 10:25
Received: 14-Jul-25
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	4.19	mg/L	2.00	0.22	10	X529069	RS	07/15/25 21:24	D18
EPA 300.0	Fluoride	104	mg/L	25.0	4.25	250	X529069	RS	07/17/25 13:56	
EPA 300.0	Nitrate as N	1.50	mg/L	0.500	0.130	10	X529069	RS	07/15/25 21:24	D18
EPA 300.0	Nitrate+Nitrite as N	1.50	mg/L	1.00	0.440	10	X529069	RS	07/15/25 21:24	
EPA 300.0	Nitrite as N	< 0.500	mg/L	0.500	0.310	10	X529069	RS	07/15/25 21:24	
EPA 300.0	Sulfate as SO4	7880	mg/L	75.0	45.0	250	X529069	RS	07/15/25 21:41	

Cation/Anion Balance and TDS Ratios

Cation Sum: 169 meq/L	Anion Sum: 170 meq/L	C/A Balance: -0.29 %	Calculated TDS: 8796	TDS/cTDS: 1.38
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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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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0210**

Reported: 29-Jul-25 11:58

Client Sample ID: **OSABH-17**

Sampled: 14-Jul-25 11:40

Received: 14-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0210-03 (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	392	mg/L	1.00	0.690	10	X529224	SJN	07/21/25 12:51	D11
EPA 200.7	Magnesium	1470	mg/L	5.00	0.900	10	X529224	SJN	07/21/25 12:51	D11
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X529224	SJN	07/21/25 12:51	D11
SM 2340 B	Hardness (as CaCO3)	7040	mg/L	23.1	5.43		N/A		07/25/25 08:53	

Metals (Dissolved)

EPA 200.7	Aluminum	3880	mg/L	0.800	0.540	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Barium	< 0.0200	mg/L	0.0200	0.0190	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Beryllium	0.691	mg/L	0.0200	0.00800	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Boron	< 0.400	mg/L	0.400	0.0780	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Cadmium	8.60	mg/L	0.0200	0.0160	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Calcium	413	mg/L	1.00	0.690	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Chromium	0.918	mg/L	0.0600	0.0200	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Cobalt	18.9	mg/L	0.0600	0.0460	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Copper	15.3	mg/L	0.100	0.0270	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Iron	77.8	mg/L	1.00	0.560	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Lead	< 0.0750	mg/L	0.0750	0.0490	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Lithium	1.81	mg/L	0.400	0.250	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Magnesium	1550	mg/L	5.00	0.900	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Manganese	1370	mg/L	0.800	0.340	100	X529223	NMS	07/25/25 09:46	D11,D18
EPA 200.7	Molybdenum	0.120	mg/L	0.0800	0.0340	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Nickel	14.9	mg/L	0.100	0.0480	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Potassium	< 5.00	mg/L	5.00	1.80	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Silver	0.115	mg/L	0.0500	0.0190	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Sodium	11.6	mg/L	5.00	1.20	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Vanadium	< 0.0500	mg/L	0.0500	0.0190	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.7	Zinc	329	mg/L	0.100	0.0540	10	X529223	NMS	07/25/25 08:53	D11,D18
EPA 200.8	Antimony	< 0.0100	mg/L	0.0100	0.00720	10	X530106	SMU	07/25/25 12:32	D11
EPA 200.8	Arsenic	0.503	mg/L	0.0100	0.00210	10	X530106	SMU	07/25/25 12:32	D11
EPA 200.8	Selenium	0.0552	mg/L	0.0100	0.00240	10	X530106	SMU	07/25/25 12:32	D11
EPA 200.8	Thallium	< 0.00200	mg/L	0.00200	0.000800	10	X530106	SMU	07/25/25 12:32	D11
EPA 200.8	Uranium	14.9	mg/L	0.00100	0.000520	10	X530106	SMU	07/25/25 12:32	D11

Metals (Filtered)

EPA 245.1	Mercury	0.000201	mg/L	0.000200	0.000093		X529167	MAC	07/23/25 12:41	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	0.0105	mg/L	0.0050	0.0048		X530075	HJL	07/23/25 16:46	
EPA 335.4	Cyanide (total)	0.0235	mg/L	0.0050	0.0038		X529158	ORW	07/18/25 11:57	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X529100	ORW	07/16/25 16:38	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X529148	ORW	07/18/25 13:43	D18,N1,Q12
SM 2310 B	Acidity to pH 8.3	22900	mg/L as CaCO3	10.0			X531007	MWD	07/28/25 10:50	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 12:21	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 12:21	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 12:21	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 12:21	
SM 2540 C	Total Diss. Solids	46700	mg/L	100			X529153	TJL	07/18/25 12:40	E11
SM 2540 D	Total Susp. Solids	85.0	mg/L	5.0			X529154	TJL	07/18/25 12:10	
SM 4500 H B	pH @21.9°C	3.0	pH Units				X529112	MWD	07/17/25 12:21	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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0210**

Reported: 29-Jul-25 11:58

Client Sample ID: **OSABH-17**SVL Sample ID: **X5G0210-03 (Ground Water)**

Sampled: 14-Jul-25 11:40

Received: 14-Jul-25

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	16.1	mg/L	10.0	1.10	50	X529069	RS	07/15/25 21:57	
EPA 300.0	Fluoride	477	mg/L	100	17.0	1000	X529069	RS	07/15/25 22:13	
EPA 300.0	Nitrate as N	< 2.50	mg/L	2.50	0.650	50	X529069	RS	07/15/25 21:57	D18
EPA 300.0	Nitrate+Nitrite as N	< 100	mg/L	100	44.0	1000	X529069	RS	07/15/25 22:13	
EPA 300.0	Nitrite as N	< 2.50	mg/L	2.50	1.55	50	X529069	RS	07/15/25 21:57	
EPA 300.0	Sulfate as SO4	30500	mg/L	300	180	1000	X529069	RS	07/15/25 22:13	

Cation/Anion Balance and TDS Ratios

Cation Sum: 636 meq/L

Anion Sum: 664 meq/L

C/A Balance: -2.13 %

Calculated TDS: 32917

TDS/cTDS: 1.42

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

Kristi A. Groth

Kristi A. Groth

Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0210**
Reported: 29-Jul-25 11:58

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	X529224	21-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X529224	21-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X529224	21-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X529223	25-Jul-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X529223	25-Jul-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X529223	25-Jul-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X529223	25-Jul-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X529223	25-Jul-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X529223	25-Jul-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X529223	25-Jul-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X529223	25-Jul-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X529223	25-Jul-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X529223	25-Jul-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X529223	25-Jul-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X529223	25-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X529223	25-Jul-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X529223	25-Jul-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X529223	25-Jul-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X529223	25-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X529223	25-Jul-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X529223	25-Jul-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X529223	25-Jul-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X529223	25-Jul-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X529223	25-Jul-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X530106	25-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X530106	25-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X530106	25-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X530106	25-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X530106	25-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X529167	23-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X530075	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X529158	18-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X529100	16-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X529148	18-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X531007	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X529112	17-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X529112	17-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X529112	17-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X529112	17-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X529153	18-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X529154	18-Jul-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X529069	15-Jul-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X529069	15-Jul-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X529069	15-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X529069	15-Jul-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X529069	15-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X529069	15-Jul-25	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0210**

Reported: 29-Jul-25 11:58

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	19.7	20.0	99	85 - 115	X529224	21-Jul-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.6	85 - 115	X529224	21-Jul-25	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.8	85 - 115	X529224	21-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.01	1.00	101	85 - 115	X529223	25-Jul-25	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X529223	25-Jul-25	
EPA 200.7	Beryllium	mg/L	0.985	1.00	98.5	85 - 115	X529223	25-Jul-25	
EPA 200.7	Boron	mg/L	1.04	1.00	104	85 - 115	X529223	25-Jul-25	
EPA 200.7	Cadmium	mg/L	0.972	1.00	97.2	85 - 115	X529223	25-Jul-25	
EPA 200.7	Calcium	mg/L	19.6	20.0	98.2	85 - 115	X529223	25-Jul-25	
EPA 200.7	Chromium	mg/L	1.00	1.00	100	85 - 115	X529223	25-Jul-25	
EPA 200.7	Cobalt	mg/L	0.958	1.00	95.8	85 - 115	X529223	25-Jul-25	
EPA 200.7	Copper	mg/L	0.962	1.00	96.2	85 - 115	X529223	25-Jul-25	
EPA 200.7	Iron	mg/L	9.90	10.0	99.0	85 - 115	X529223	25-Jul-25	
EPA 200.7	Lead	mg/L	0.973	1.00	97.3	85 - 115	X529223	25-Jul-25	
EPA 200.7	Lithium	mg/L	1.01	1.00	101	85 - 115	X529223	25-Jul-25	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.6	85 - 115	X529223	25-Jul-25	
EPA 200.7	Manganese	mg/L	0.996	1.00	99.6	85 - 115	X529223	25-Jul-25	
EPA 200.7	Molybdenum	mg/L	1.02	1.00	102	85 - 115	X529223	25-Jul-25	
EPA 200.7	Nickel	mg/L	0.957	1.00	95.7	85 - 115	X529223	25-Jul-25	
EPA 200.7	Potassium	mg/L	20.6	20.0	103	85 - 115	X529223	25-Jul-25	
EPA 200.7	Silver	mg/L	0.0525	0.0500	105	85 - 115	X529223	25-Jul-25	
EPA 200.7	Sodium	mg/L	18.8	19.0	99.1	85 - 115	X529223	25-Jul-25	
EPA 200.7	Vanadium	mg/L	1.02	1.00	102	85 - 115	X529223	25-Jul-25	
EPA 200.7	Zinc	mg/L	1.01	1.00	101	85 - 115	X529223	25-Jul-25	
EPA 200.8	Antimony	mg/L	0.0244	0.0250	97.5	85 - 115	X530106	25-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0240	0.0250	95.8	85 - 115	X530106	25-Jul-25	
EPA 200.8	Selenium	mg/L	0.0226	0.0250	90.6	85 - 115	X530106	25-Jul-25	
EPA 200.8	Thallium	mg/L	0.0245	0.0250	98.0	85 - 115	X530106	25-Jul-25	
EPA 200.8	Uranium	mg/L	0.0257	0.0250	103	85 - 115	X530106	25-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00220	0.00200	110	85 - 115	X529167	23-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0986	0.100	98.6	90 - 110	X530075	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X529158	18-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.996	1.00	99.6	90 - 110	X529100	16-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X529148	18-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1160	1180	98.3	95.4 - 104	X531007	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X529112	17-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	94 - 106	X529112	17-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	407	397	102	94 - 106	X529112	17-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	243	250	97.2	85 - 115	X529153	18-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X529154	18-Jul-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.92	3.00	97.4	90 - 110	X529069	15-Jul-25	
EPA 300.0	Fluoride	mg/L	1.98	2.00	98.8	90 - 110	X529069	15-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.95	2.00	97.7	90 - 110	X529069	15-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.45	4.50	98.9	90 - 110	X529069	15-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.7	90 - 110	X529069	15-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	9.55	10.0	95.5	90 - 110	X529069	15-Jul-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0210**

Reported: 29-Jul-25 11:58

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	2250	2270	0.8	20	X531007 - X5G0210-01	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	13.8	13.9	0.7	20	X529112 - X5G0202-07	17-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	13.8	13.9	0.7	20	X529112 - X5G0202-07	17-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X529112 - X5G0202-07	17-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X529112 - X5G0202-07	17-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	468	473	1.1	10	X529153 - X5G0260-03	18-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	551	561	1.8	10	X529153 - X5G0260-02	18-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	100	410	122.0	10	X529154 - X5G0263-03	18-Jul-25	R2B
SM 2540 D	Total Susp. Solids	mg/L	558	419	28.5	10	X529154 - X5G0260-02	18-Jul-25	R2B
SM 4500 H B	pH @22.5°C	pH Units	6.5	6.7	1.8	20	X529112 - X5G0202-07	17-Jul-25	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	408	388	20.0	98	70 - 130	X529224 - X5G0210-01	21-Jul-25	
EPA 200.7	Calcium	mg/L	34.0	14.2	20.0	99	70 - 130	X529224 - X5G0292-01	21-Jul-25	
EPA 200.7	Magnesium	mg/L	232	210	20.0	111	70 - 130	X529224 - X5G0210-01	21-Jul-25	
EPA 200.7	Magnesium	mg/L	20.8	1.28	20.0	97.3	70 - 130	X529224 - X5G0292-01	21-Jul-25	
EPA 200.7	Potassium	mg/L	25.4	4.61	20.0	104	70 - 130	X529224 - X5G0210-01	21-Jul-25	
EPA 200.7	Potassium	mg/L	19.8	<0.50	20.0	98.9	70 - 130	X529224 - X5G0292-01	21-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.92	0.843	1.00	108	70 - 130	X529223 - X5G0222-03	25-Jul-25	
EPA 200.7	Aluminum	mg/L	1.07	<0.080	1.00	107	70 - 130	X529223 - X5G0268-06	25-Jul-25	
EPA 200.7	Barium	mg/L	1.05	0.0515	1.00	99.5	70 - 130	X529223 - X5G0222-03	25-Jul-25	
EPA 200.7	Barium	mg/L	1.08	0.0368	1.00	104	70 - 130	X529223 - X5G0268-06	25-Jul-25	
EPA 200.7	Beryllium	mg/L	1.00	0.00263	1.00	100	70 - 130	X529223 - X5G0222-03	25-Jul-25	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X529223 - X5G0268-06	25-Jul-25	
EPA 200.7	Boron	mg/L	1.17	0.0915	1.00	108	70 - 130	X529223 - X5G0222-03	25-Jul-25	
EPA 200.7	Boron	mg/L	1.15	0.0549	1.00	110	70 - 130	X529223 - X5G0268-06	25-Jul-25	
EPA 200.7	Cadmium	mg/L	0.951	0.0260	1.00	92.5	70 - 130	X529223 - X5G0222-03	25-Jul-25	
EPA 200.7	Cadmium	mg/L	0.978	<0.0020	1.00	97.8	70 - 130	X529223 - X5G0268-06	25-Jul-25	
EPA 200.7	Calcium	mg/L	663	637	20.0	130	70 - 130	X529223 - X5G0222-03	25-Jul-25	
EPA 200.7	Calcium	mg/L	242	221	20.0	103	70 - 130	X529223 - X5G0268-06	25-Jul-25	
EPA 200.7	Chromium	mg/L	0.995	0.0085	1.00	98.6	70 - 130	X529223 - X5G0222-03	25-Jul-25	
EPA 200.7	Chromium	mg/L	1.04	<0.0060	1.00	104	70 - 130	X529223 - X5G0268-06	25-Jul-25	
EPA 200.7	Cobalt	mg/L	1.25	0.304	1.00	94.9	70 - 130	X529223 - X5G0222-03	25-Jul-25	
EPA 200.7	Cobalt	mg/L	0.961	<0.0060	1.00	96.1	70 - 130	X529223 - X5G0268-06	25-Jul-25	
EPA 200.7	Copper	mg/L	3.41	2.36	1.00	104	70 - 130	X529223 - X5G0222-03	25-Jul-25	
EPA 200.7	Copper	mg/L	1.04	<0.0100	1.00	104	70 - 130	X529223 - X5G0268-06	25-Jul-25	
EPA 200.7	Iron	mg/L	11.0	1.03	10.0	99.7	70 - 130	X529223 - X5G0222-03	25-Jul-25	
EPA 200.7	Iron	mg/L	10.2	<0.100	10.0	102	70 - 130	X529223 - X5G0268-06	25-Jul-25	
EPA 200.7	Lead	mg/L	0.960	<0.0075	1.00	95.3	70 - 130	X529223 - X5G0222-03	25-Jul-25	
EPA 200.7	Lead	mg/L	0.983	<0.0075	1.00	98.3	70 - 130	X529223 - X5G0268-06	25-Jul-25	
EPA 200.7	Lithium	mg/L	1.46	0.105	1.00	135	70 - 130	X529223 - X5G0222-03	25-Jul-25	M1
EPA 200.7	Lithium	mg/L	1.17	<0.040	1.00	117	70 - 130	X529223 - X5G0268-06	25-Jul-25	
EPA 200.7	Magnesium	mg/L	376	352	20.0	118	70 - 130	X529223 - X5G0222-03	25-Jul-25	
EPA 200.7	Magnesium	mg/L	38.7	17.6	20.0	105	70 - 130	X529223 - X5G0268-06	25-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 10 of 14

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0210**

Reported: 29-Jul-25 11:58

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes	
Metals (Dissolved) (Continued)											
EPA 200.7	Manganese	mg/L	70.5	70.3	1.00	0.30R>S	70 - 130	X529223 - X5G0222-03	25-Jul-25	M3	
EPA 200.7	Manganese	mg/L	1.04	0.0109	1.00	103	70 - 130	X529223 - X5G0268-06	25-Jul-25		
EPA 200.7	Molybdenum	mg/L	1.04	0.0088	1.00	103	70 - 130	X529223 - X5G0222-03	25-Jul-25		
EPA 200.7	Molybdenum	mg/L	1.06	<0.0080	1.00	106	70 - 130	X529223 - X5G0268-06	25-Jul-25		
EPA 200.7	Nickel	mg/L	1.09	0.143	1.00	94.4	70 - 130	X529223 - X5G0222-03	25-Jul-25		
EPA 200.7	Nickel	mg/L	0.968	0.0167	1.00	95.1	70 - 130	X529223 - X5G0268-06	25-Jul-25		
EPA 200.7	Potassium	mg/L	47.3	25.8	20.0	107	70 - 130	X529223 - X5G0222-03	25-Jul-25		
EPA 200.7	Potassium	mg/L	26.1	4.31	20.0	109	70 - 130	X529223 - X5G0268-06	25-Jul-25		
EPA 200.7	Silver	mg/L	0.0537	<0.0050	0.0500	107	70 - 130	X529223 - X5G0222-03	25-Jul-25		
EPA 200.7	Silver	mg/L	0.0546	<0.0050	0.0500	109	70 - 130	X529223 - X5G0268-06	25-Jul-25		
EPA 200.7	Sodium	mg/L	102	81.5	19.0	109	70 - 130	X529223 - X5G0222-03	25-Jul-25		
EPA 200.7	Sodium	mg/L	45.8	26.1	19.0	103	70 - 130	X529223 - X5G0268-06	25-Jul-25		
EPA 200.7	Vanadium	mg/L	0.820	<0.0050	1.00	82.0	70 - 130	X529223 - X5G0222-03	25-Jul-25		
EPA 200.7	Vanadium	mg/L	1.07	<0.0050	1.00	107	70 - 130	X529223 - X5G0268-06	25-Jul-25		
EPA 200.7	Zinc	mg/L	19.2	18.6	1.00	0.30R>S	70 - 130	X529223 - X5G0222-03	25-Jul-25	M3	
EPA 200.7	Zinc	mg/L	1.07	<0.0100	1.00	106	70 - 130	X529223 - X5G0268-06	25-Jul-25		
EPA 200.8	Antimony	mg/L	0.0248	<0.00100	0.0250	99.3	70 - 130	X530106 - X5G0210-01	25-Jul-25		
EPA 200.8	Antimony	mg/L	0.0262	<0.00100	0.0250	105	70 - 130	X530106 - X5G0302-02	25-Jul-25		
EPA 200.8	Arsenic	mg/L	0.118	0.0872	0.0250	123	70 - 130	X530106 - X5G0210-01	25-Jul-25		
EPA 200.8	Arsenic	mg/L	0.0434	0.0154	0.0250	112	70 - 130	X530106 - X5G0302-02	25-Jul-25		
EPA 200.8	Selenium	mg/L	0.0335	0.00995	0.0250	94.1	70 - 130	X530106 - X5G0210-01	25-Jul-25		
EPA 200.8	Selenium	mg/L	0.0263	0.00193	0.0250	97.5	70 - 130	X530106 - X5G0302-02	25-Jul-25		
EPA 200.8	Thallium	mg/L	0.0273	<0.000200	0.0250	109	70 - 130	X530106 - X5G0210-01	25-Jul-25		
EPA 200.8	Thallium	mg/L	0.0263	<0.000200	0.0250	105	70 - 130	X530106 - X5G0302-02	25-Jul-25		
EPA 200.8	Uranium	mg/L	1.11	1.07	0.0250	0.30R>S	70 - 130	X530106 - X5G0210-01	25-Jul-25		M3
EPA 200.8	Uranium	mg/L	0.195	0.168	0.0250	106	70 - 130	X530106 - X5G0302-02	25-Jul-25		
Metals (Filtered)											
EPA 245.1	Mercury	mg/L	0.00206	<0.000200	0.00200	103	70 - 130	X529167 - X5G0145-01	23-Jul-25		
EPA 245.1	Mercury	mg/L	0.00205	<0.000200	0.00200	103	70 - 130	X529167 - X5G0235-01	23-Jul-25		
Classical Chemistry Parameters											
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.104	<0.0050	0.100	104	79 - 121	X530075 - X5G0318-05	23-Jul-25		
EPA 335.4	Cyanide (total)	mg/L	0.0979	<0.0050	0.100	97.9	90 - 110	X529158 - X5G0241-02	18-Jul-25		
EPA 335.4	Cyanide (total)	mg/L	0.0963	<0.0050	0.100	96.3	90 - 110	X529158 - X5G0241-01	18-Jul-25		
EPA 350.1	Ammonia as N	mg/L	0.972	<0.030	1.00	97.2	90 - 110	X529100 - X5G0220-16	16-Jul-25		
EPA 350.1	Ammonia as N	mg/L	0.995	<0.030	1.00	99.5	90 - 110	X529100 - X5G0220-13	16-Jul-25		
OIA 1677	Cyanide (WAD)	mg/L	0.106	<0.0050	0.100	106	82 - 118	X529148 - X5G0136-06	18-Jul-25		
Anions by Ion Chromatography											
EPA 300.0	Chloride	mg/L	2.96	<0.20	3.00	96.3	90 - 110	X529069 - X5G0199-01	15-Jul-25	M2	
EPA 300.0	Chloride	mg/L	15.6	12.4	3.00	107	90 - 110	X529069 - X5G0233-01	15-Jul-25		
EPA 300.0	Fluoride	mg/L	1.97	<0.100	2.00	98.4	90 - 110	X529069 - X5G0199-01	15-Jul-25		
EPA 300.0	Fluoride	mg/L	1.83	0.242	2.00	79.5	90 - 110	X529069 - X5G0233-01	17-Jul-25		
EPA 300.0	Nitrate as N	mg/L	1.92	<0.050	2.00	96.2	90 - 110	X529069 - X5G0199-01	15-Jul-25		
EPA 300.0	Nitrate as N	mg/L	15.9	14.1	2.00	0.30R>S	90 - 110	X529069 - X5G0233-01	15-Jul-25		M2
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.87	<0.100	4.00	96.9	90 - 110	X529069 - X5G0199-01	15-Jul-25		
EPA 300.0	Nitrate+Nitrite as N	mg/L	17.9	14.2	4.00	92.5	90 - 110	X529069 - X5G0233-01	15-Jul-25		
EPA 300.0	Nitrite as N	mg/L	1.95	<0.050	2.00	97.6	90 - 110	X529069 - X5G0199-01	15-Jul-25		
EPA 300.0	Nitrite as N	mg/L	1.98	<0.050	2.00	97.1	90 - 110	X529069 - X5G0233-01	15-Jul-25		
EPA 300.0	Sulfate as SO4	mg/L	9.64	<0.30	10.0	96.4	90 - 110	X529069 - X5G0199-01	15-Jul-25		

SVL holds the following certifications:

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

Work order Report Page 11 of 14

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0210**

Reported: 29-Jul-25 11:58

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
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO ₄	mg/L	126	117	10.0	0.30R>S	90 - 110	X529069 - X5G0233-01	15-Jul-25	M2

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	414	408	20.0	2.0	20	130	X529224 - X5G0210-01	
EPA 200.7	Magnesium	mg/L	232	232	20.0	0.1	20	112	X529224 - X5G0210-01	
EPA 200.7	Potassium	mg/L	25.8	25.4	20.0	1.8	20	106	X529224 - X5G0210-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.83	1.92	1.00	4.8	20	99.1	X529223 - X5G0222-03	
EPA 200.7	Barium	mg/L	1.03	1.05	1.00	1.4	20	98.0	X529223 - X5G0222-03	
EPA 200.7	Beryllium	mg/L	0.967	1.00	1.00	3.6	20	96.5	X529223 - X5G0222-03	
EPA 200.7	Boron	mg/L	1.14	1.17	1.00	2.6	20	105	X529223 - X5G0222-03	
EPA 200.7	Cadmium	mg/L	0.927	0.951	1.00	2.5	20	90.1	X529223 - X5G0222-03	
EPA 200.7	Calcium	mg/L	642	663	20.0	3.2	20	0.30R>S	X529223 - X5G0222-03	M3
EPA 200.7	Chromium	mg/L	0.976	0.995	1.00	1.9	20	96.7	X529223 - X5G0222-03	
EPA 200.7	Cobalt	mg/L	1.22	1.25	1.00	2.6	20	91.7	X529223 - X5G0222-03	
EPA 200.7	Copper	mg/L	3.32	3.41	1.00	2.5	20	96.1	X529223 - X5G0222-03	
EPA 200.7	Iron	mg/L	10.7	11.0	10.0	3.2	20	96.3	X529223 - X5G0222-03	
EPA 200.7	Lead	mg/L	0.940	0.960	1.00	2.1	20	93.3	X529223 - X5G0222-03	
EPA 200.7	Lithium	mg/L	1.39	1.46	1.00	4.4	20	129	X529223 - X5G0222-03	
EPA 200.7	Magnesium	mg/L	368	376	20.0	2.1	20	79.6	X529223 - X5G0222-03	
EPA 200.7	Manganese	mg/L	69.1	70.5	1.00	2.1	20	0.30R>S	X529223 - X5G0222-03	M3
EPA 200.7	Molybdenum	mg/L	1.01	1.04	1.00	2.6	20	100	X529223 - X5G0222-03	
EPA 200.7	Nickel	mg/L	1.07	1.09	1.00	1.9	20	92.4	X529223 - X5G0222-03	
EPA 200.7	Potassium	mg/L	45.9	47.3	20.0	3.1	20	100	X529223 - X5G0222-03	
EPA 200.7	Silver	mg/L	0.0530	0.0537	0.0500	1.3	20	106	X529223 - X5G0222-03	
EPA 200.7	Sodium	mg/L	98.8	102	19.0	3.4	20	91.1	X529223 - X5G0222-03	
EPA 200.7	Vanadium	mg/L	0.799	0.820	1.00	2.6	20	79.9	X529223 - X5G0222-03	
EPA 200.7	Zinc	mg/L	18.6	19.2	1.00	2.9	20	0.30R>S	X529223 - X5G0222-03	M3
EPA 200.8	Antimony	mg/L	0.0244	0.0248	0.0250	1.6	20	97.7	X530106 - X5G0210-01	
EPA 200.8	Arsenic	mg/L	0.114	0.118	0.0250	3.9	20	106	X530106 - X5G0210-01	
EPA 200.8	Selenium	mg/L	0.0324	0.0335	0.0250	3.1	20	90.0	X530106 - X5G0210-01	
EPA 200.8	Thallium	mg/L	0.0262	0.0273	0.0250	4.1	20	105	X530106 - X5G0210-01	
EPA 200.8	Uranium	mg/L	1.09	1.11	0.0250	1.4	20	90.2	X530106 - X5G0210-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00214	0.00206	0.00200	3.7	20	107	X529167 - X5G0145-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.108	0.104	0.100	4.4	11	108	X530075 - X5G0318-05	
EPA 335.4	Cyanide (total)	mg/L	0.0996	0.0979	0.100	1.7	20	99.6	X529158 - X5G0241-02	
EPA 350.1	Ammonia as N	mg/L	0.949	0.972	1.00	2.4	20	94.9	X529100 - X5G0220-16	
OIA 1677	Cyanide (WAD)	mg/L	0.109	0.106	0.100	3.4	11	109	X529148 - X5G0136-06	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.00	2.96	3.00	1.2	20	97.6	X529069 - X5G0199-01	
EPA 300.0	Fluoride	mg/L	1.96	1.97	2.00	0.5	20	97.9	X529069 - X5G0199-01	
EPA 300.0	Nitrate as N	mg/L	1.99	1.92	2.00	3.3	20	99.4	X529069 - X5G0199-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.98	3.87	4.00	2.7	20	99.5	X529069 - X5G0199-01	
EPA 300.0	Nitrite as N	mg/L	1.99	1.95	2.00	2.0	20	99.6	X529069 - X5G0199-01	



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Cripple Creek & Victor Gold Mining Company					Project Name: Cripple Creek/Victor Water and Soil 2024				
Ironclad Security 1632 County Rd 82					Work Order: X5G0210				
Cripple Creek, CO 80813					Reported: 29-Jul-25 11:58				

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
Anions by Ion Chromatography (Continued)										
EPA 300.0	Sulfate as SO4	mg/L	9.89	9.64	10.0	2.6	20	98.9	X529069 - X5G0199-01	



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0210**

Reported: 29-Jul-25 11:58

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.
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.
N1	See case narrative.
Q12	Sample was received and analyzed with pH <10.
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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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0241**

Reported: 30-Jul-25 15:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-30	X5G0241-01	Ground Water	15-Jul-25 09:25	JC	16-Jul-2025	Q5
GVMW-33	X5G0241-02	Ground Water	15-Jul-25 10:30	JC	16-Jul-2025	Q5
GVMW-34	X5G0241-03	Ground Water	15-Jul-25 12:15	JC	16-Jul-2025	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: X5G0241

The state of origin only accredits for drinking water analyses.

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0241**

Reported: 30-Jul-25 15:41

Client Sample ID: **GVMW-30**

Sampled: 15-Jul-25 09:25

SVL Sample ID: **X5G0241-01 (Ground Water)**

Received: 16-Jul-25

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	475	mg/L	1.00	0.690	10	X529224	SJN	07/21/25 14:10	D11
EPA 200.7	Magnesium	328	mg/L	0.500	0.090		X529224	SJN	07/21/25 10:28	
EPA 200.7	Potassium	2.68	mg/L	0.50	0.18		X529224	SJN	07/21/25 10:28	
SM 2340 B	Hardness (as CaCO3)	2490	mg/L	4.56	2.09		N/A		07/21/25 10:28	

Metals (Dissolved)

EPA 200.7	Aluminum	295	mg/L	0.080	0.054		X529225	SJN	07/22/25 12:41	
EPA 200.7	Barium	0.0087	mg/L	0.0020	0.0019		X529225	SJN	07/22/25 12:41	
EPA 200.7	Beryllium	0.505	mg/L	0.00200	0.00080		X529225	SJN	07/22/25 12:41	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X529225	SJN	07/22/25 12:41	
EPA 200.7	Cadmium	0.231	mg/L	0.0020	0.0016		X529225	SJN	07/22/25 12:41	
EPA 200.7	Calcium	419	mg/L	0.100	0.069		X529225	SJN	07/22/25 12:41	
EPA 200.7	Chromium	0.165	mg/L	0.0060	0.0020		X529225	SJN	07/22/25 12:41	
EPA 200.7	Cobalt	0.342	mg/L	0.0060	0.0046		X529225	SJN	07/22/25 12:41	
EPA 200.7	Copper	0.150	mg/L	0.0100	0.0027		X529225	SJN	07/22/25 12:41	
EPA 200.7	Iron	7.52	mg/L	0.100	0.056		X529225	SJN	07/22/25 12:41	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X529225	SJN	07/22/25 12:41	
EPA 200.7	Lithium	0.197	mg/L	0.040	0.025		X529225	SJN	07/22/25 12:41	
EPA 200.7	Magnesium	317	mg/L	0.500	0.090		X529225	SJN	07/22/25 12:41	
EPA 200.7	Manganese	47.2	mg/L	0.0080	0.0034		X529225	SJN	07/22/25 12:41	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X529225	SJN	07/22/25 12:41	
EPA 200.7	Nickel	1.29	mg/L	0.0100	0.0048		X529225	SJN	07/22/25 12:41	
EPA 200.7	Potassium	2.33	mg/L	0.50	0.18		X529225	SJN	07/22/25 12:41	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X529225	SJN	07/22/25 12:41	
EPA 200.7	Sodium	38.4	mg/L	0.50	0.12		X529225	SJN	07/22/25 12:41	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529225	SJN	07/22/25 12:41	
EPA 200.7	Zinc	3.90	mg/L	0.0100	0.0054		X529225	SJN	07/22/25 12:41	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X530106	SMU	07/25/25 12:35	
EPA 200.8	Arsenic	0.0448	mg/L	0.00100	0.00021		X530106	SMU	07/25/25 12:35	
EPA 200.8	Selenium	0.00576	mg/L	0.00100	0.00024		X530106	SMU	07/25/25 12:35	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X530106	SMU	07/25/25 12:35	
EPA 200.8	Uranium	0.804	mg/L	0.000100	0.000052		X530106	SMU	07/25/25 12:35	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X529168	MAC	07/23/25 15:34	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X530076	HJL	07/23/25 18:36	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X529158	ORW	07/18/25 12:15	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X530002	ORW	07/22/25 11:58	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X529148	ORW	07/18/25 13:46	
SM 2310 B	Acidity to pH 8.3	1870	mg/L as CaCO3	10.0			X531007	MWD	07/28/25 10:50	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 13:45	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 13:45	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 13:45	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 13:45	
SM 2540 C	Total Diss. Solids	6130	mg/L	40			X529153	TJL	07/18/25 12:40	
SM 2540 D	Total Susp. Solids	18.0	mg/L	5.0			X529154	TJL	07/18/25 12:10	
SM 4500 H B	pH @22.9°C	3.4	pH Units				X529112	MWD	07/17/25 13:45	H5



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Kellogg, ID 83837-0929
(208) 784-1258
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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0241 Reported: 30-Jul-25 15:41
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Client Sample ID: **GVMW-30**
SVL Sample ID: **X5G0241-01 (Ground Water)**

Sampled: 15-Jul-25 09:25
Received: 16-Jul-25
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	2.20	mg/L	1.00	0.11	5	X529134	GMD	07/16/25 18:07	D18
EPA 300.0	Fluoride	11.8	mg/L	0.500	0.085	5	X529134	GMD	07/16/25 18:07	
EPA 300.0	Nitrate as N	2.02	mg/L	0.250	0.065	5	X529134	GMD	07/16/25 18:07	D18
EPA 300.0	Nitrate+Nitrite as N	0.412	mg/L	0.100	0.044		X529134	GMD	07/16/25 18:07	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X529134	GMD	07/16/25 18:07	D18
EPA 300.0	Sulfate as SO4	4270	mg/L	30.0	18.0	100	X529134	GMD	07/16/25 18:23	

Cation/Anion Balance and TDS Ratios

Cation Sum: 86.1 meq/L	Anion Sum: 89.6 meq/L	C/A Balance: -1.99 %	Calculated TDS: 5096	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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0241**

Reported: 30-Jul-25 15:41

Client Sample ID: **GVMW-33**

Sampled: 15-Jul-25 10:30

Received: 16-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0241-02 (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	438	mg/L	0.100	0.069		X529224	SJN	07/21/25 10:32	
EPA 200.7	Magnesium	237	mg/L	0.500	0.090		X529224	SJN	07/21/25 10:32	
EPA 200.7	Potassium	6.91	mg/L	0.50	0.18		X529224	SJN	07/21/25 10:32	
SM 2340 B	Hardness (as CaCO3)	2060	mg/L	2.31	0.543		N/A		07/21/25 10:32	

Metals (Dissolved)

EPA 200.7	Aluminum	362	mg/L	0.080	0.054		X529225	SJN	07/22/25 12:45	
EPA 200.7	Barium	0.0111	mg/L	0.0020	0.0019		X529225	SJN	07/22/25 12:45	
EPA 200.7	Beryllium	0.438	mg/L	0.00200	0.00080		X529225	SJN	07/22/25 12:45	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X529225	SJN	07/22/25 12:45	
EPA 200.7	Cadmium	0.822	mg/L	0.0020	0.0016		X529225	SJN	07/22/25 12:45	
EPA 200.7	Calcium	423	mg/L	0.100	0.069		X529225	SJN	07/22/25 12:45	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X529225	SJN	07/22/25 12:45	
EPA 200.7	Cobalt	0.468	mg/L	0.0060	0.0046		X529225	SJN	07/22/25 12:45	
EPA 200.7	Copper	0.797	mg/L	0.0100	0.0027		X529225	SJN	07/22/25 12:45	
EPA 200.7	Iron	1.13	mg/L	0.100	0.056		X529225	SJN	07/22/25 12:45	
EPA 200.7	Lead	0.0297	mg/L	0.0075	0.0049		X529225	SJN	07/22/25 12:45	
EPA 200.7	Lithium	0.080	mg/L	0.040	0.025		X529225	SJN	07/22/25 12:45	
EPA 200.7	Magnesium	243	mg/L	0.500	0.090		X529225	SJN	07/22/25 12:45	
EPA 200.7	Manganese	149	mg/L	0.0800	0.0340	10	X529225	SJN	07/22/25 14:02	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X529225	SJN	07/22/25 12:45	
EPA 200.7	Nickel	1.21	mg/L	0.0100	0.0048		X529225	SJN	07/22/25 12:45	
EPA 200.7	Potassium	6.07	mg/L	0.50	0.18		X529225	SJN	07/22/25 12:45	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X529225	SJN	07/22/25 12:45	
EPA 200.7	Sodium	115	mg/L	0.50	0.12		X529225	SJN	07/22/25 12:45	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529225	SJN	07/22/25 12:45	
EPA 200.7	Zinc	20.7	mg/L	0.0100	0.0054		X529225	SJN	07/22/25 12:45	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X530106	SMU	07/25/25 12:39	
EPA 200.8	Arsenic	0.143	mg/L	0.00100	0.00021		X530106	SMU	07/25/25 12:39	
EPA 200.8	Selenium	0.0178	mg/L	0.00100	0.00024		X530106	SMU	07/25/25 12:39	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X530106	SMU	07/25/25 12:39	
EPA 200.8	Uranium	1.59	mg/L	0.000100	0.000052		X530106	SMU	07/25/25 12:39	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X529168	MAC	07/23/25 15:45	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X530076	HJL	07/23/25 18:39	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X529158	ORW	07/18/25 12:17	
EPA 350.1	Ammonia as N	0.132	mg/L	0.030	0.013		X530002	ORW	07/22/25 12:01	M2
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X529148	ORW	07/18/25 13:49	
SM 2310 B	Acidity to pH 8.3	2480	mg/L as CaCO3	10.0			X531007	MWD	07/28/25 10:50	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 13:50	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 13:50	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 13:50	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 13:50	
SM 2540 C	Total Diss. Solids	6530	mg/L	40			X529153	TJL	07/18/25 12:40	
SM 2540 D	Total Susp. Solids	16.0	mg/L	5.0			X529154	TJL	07/18/25 12:10	
SM 4500 H B	pH @22.9°C	3.7	pH Units				X529112	MWD	07/17/25 13:50	H5



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0241**

Reported: 30-Jul-25 15:41

Client Sample ID: **GVMW-33**

Sampled: 15-Jul-25 10:30

SVL Sample ID: **X5G0241-02 (Ground Water)**

Received: 16-Jul-25

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	5.23	mg/L	1.00	0.11	5	X529134	GMD	07/16/25 18:38	D18
EPA 300.0	Fluoride	23.0	mg/L	0.500	0.085	5	X529134	GMD	07/16/25 18:38	
EPA 300.0	Nitrate as N	4.56	mg/L	0.250	0.065	5	X529134	GMD	07/16/25 18:38	D18
EPA 300.0	Nitrate+Nitrite as N	4.61	mg/L	0.500	0.220	5	X529134	GMD	07/16/25 18:38	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X529134	GMD	07/16/25 18:38	D18
EPA 300.0	Sulfate as SO4	4530	mg/L	30.0	18.0	100	X529134	GMD	07/16/25 18:54	

Cation/Anion Balance and TDS Ratios

Cation Sum: 95.4 meq/L

Anion Sum: 96.0 meq/L

C/A Balance: -0.34 %

Calculated TDS: 5371

TDS/cTDS: 1.22

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

Kristi A. Groth

Kristi A. Groth

Project Manager

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0241**

Reported: 30-Jul-25 15:41

Client Sample ID: **GVMW-34**

Sampled: 15-Jul-25 12:15

SVL Sample ID: **X5G0241-03 (Ground Water)**

Received: 16-Jul-25

Sampled By: JC

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	563	mg/L	1.00	0.690	10	X529224	SJN	07/21/25 14:14	
EPA 200.7	Magnesium	399	mg/L	0.500	0.090		X529224	SJN	07/21/25 10:37	
EPA 200.7	Potassium	5.45	mg/L	0.50	0.18		X529224	SJN	07/21/25 10:37	
SM 2340 B	Hardness (as CaCO3)	2900	mg/L	2.31	0.543		N/A		07/22/25 12:49	

Metals (Dissolved)

EPA 200.7	Aluminum	33.8	mg/L	0.080	0.054		X529225	SJN	07/22/25 12:49	M3
EPA 200.7	Barium	0.0274	mg/L	0.0020	0.0019		X529225	SJN	07/22/25 12:49	
EPA 200.7	Beryllium	0.0284	mg/L	0.00200	0.00080		X529225	SJN	07/22/25 12:49	
EPA 200.7	Boron	0.0462	mg/L	0.0400	0.0078		X529225	SJN	07/22/25 12:49	
EPA 200.7	Cadmium	0.147	mg/L	0.0020	0.0016		X529225	SJN	07/22/25 12:49	
EPA 200.7	Calcium	502	mg/L	0.100	0.069		X529225	SJN	07/22/25 12:49	M3
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X529225	SJN	07/22/25 12:49	
EPA 200.7	Cobalt	0.125	mg/L	0.0060	0.0046		X529225	SJN	07/22/25 12:49	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X529225	SJN	07/22/25 12:49	
EPA 200.7	Iron	0.127	mg/L	0.100	0.056		X529225	SJN	07/22/25 12:49	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X529225	SJN	07/22/25 12:49	
EPA 200.7	Lithium	0.235	mg/L	0.040	0.025		X529225	SJN	07/22/25 12:49	
EPA 200.7	Magnesium	394	mg/L	0.500	0.090		X529225	SJN	07/22/25 12:49	M3
EPA 200.7	Manganese	138	mg/L	0.0800	0.0340	10	X529225	SJN	07/22/25 14:06	M4
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X529225	SJN	07/22/25 12:49	
EPA 200.7	Nickel	0.598	mg/L	0.0100	0.0048		X529225	SJN	07/22/25 12:49	
EPA 200.7	Potassium	4.98	mg/L	0.50	0.18		X529225	SJN	07/22/25 12:49	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X529225	SJN	07/22/25 12:49	
EPA 200.7	Sodium	49.5	mg/L	0.50	0.12		X529225	SJN	07/22/25 12:49	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529225	SJN	07/22/25 12:49	
EPA 200.7	Zinc	16.4	mg/L	0.0100	0.0054		X529225	SJN	07/22/25 12:49	M3
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X530106	SMU	07/25/25 12:42	
EPA 200.8	Arsenic	0.00286	mg/L	0.00100	0.00021		X530106	SMU	07/25/25 12:42	
EPA 200.8	Selenium	0.0144	mg/L	0.00100	0.00024		X530106	SMU	07/25/25 12:42	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X530106	SMU	07/25/25 12:42	
EPA 200.8	Uranium	0.0947	mg/L	0.000100	0.000052		X530106	SMU	07/25/25 12:42	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X529168	MAC	07/23/25 15:47	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X530076	HJL	07/23/25 18:42	
EPA 335.4	Cyanide (total)	0.0083	mg/L	0.0050	0.0038		X529158	ORW	07/18/25 12:19	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X530002	ORW	07/22/25 12:03	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X529148	ORW	07/18/25 13:52	
SM 2310 B	Acidity to pH 8.3	-134	mg/L as CaCO3	10.0			X531007	MWD	07/28/25 10:50	
SM 2320 B	Total Alkalinity	133	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 13:56	
SM 2320 B	Bicarbonate	133	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 13:56	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 13:56	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 13:56	
SM 2540 C	Total Diss. Solids	5020	mg/L	40			X529153	TJL	07/18/25 12:40	
SM 2540 D	Total Susp. Solids	29.0	mg/L	5.0			X529154	TJL	07/18/25 12:10	
SM 4500 H B	pH @23.2°C	5.7	pH Units				X529112	MWD	07/17/25 13:56	H5



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0241**

Reported: 30-Jul-25 15:41

Client Sample ID: **GVMW-34**

Sampled: 15-Jul-25 12:15

SVL Sample ID: **X5G0241-03 (Ground Water)**

Received: 16-Jul-25

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	27.1	mg/L	1.00	0.11	5	X529134	GMD	07/16/25 21:14	
EPA 300.0	Fluoride	50.5	mg/L	10.0	1.70	100	X529134	GMD	07/16/25 21:30	
EPA 300.0	Nitrate as N	11.6	mg/L	0.250	0.065	5	X529134	GMD	07/16/25 21:14	
EPA 300.0	Nitrate+Nitrite as N	11.6	mg/L	0.500	0.220	5	X529134	GMD	07/16/25 21:14	
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X529134	GMD	07/16/25 21:14	D18
EPA 300.0	Sulfate as SO4	3110	mg/L	30.0	18.0	100	X529134	GMD	07/16/25 21:30	

Cation/Anion Balance and TDS Ratios

Cation Sum: 69.1 meq/L

Anion Sum: 71.7 meq/L

C/A Balance: -1.83 %

Calculated TDS: 4302

TDS/cTDS: 1.17

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

Kristi A. Groth

Kristi A. Groth

Project Manager

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0241**

Reported: 30-Jul-25 15:41

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	X529224	21-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X529224	21-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X529224	21-Jul-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X529225	22-Jul-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X529225	22-Jul-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X529225	22-Jul-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X529225	22-Jul-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X529225	22-Jul-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X529225	22-Jul-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X529225	22-Jul-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X529225	22-Jul-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X529225	22-Jul-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X529225	22-Jul-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X529225	22-Jul-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X529225	22-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X529225	22-Jul-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X529225	22-Jul-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X529225	22-Jul-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X529225	22-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X529225	22-Jul-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X529225	22-Jul-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X529225	22-Jul-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X529225	22-Jul-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X529225	22-Jul-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X530106	25-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X530106	25-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X530106	25-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X530106	25-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X530106	25-Jul-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X529168	23-Jul-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X530076	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X529158	18-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X530002	22-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X529148	18-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X531007	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X529112	17-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X529112	17-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X529112	17-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X529112	17-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X529153	18-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X529154	18-Jul-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X529134	17-Jul-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X529134	17-Jul-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X529134	17-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X529134	17-Jul-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X529134	17-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X529134	17-Jul-25	



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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0241**

Reported: 30-Jul-25 15:41

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	19.7	20.0	99	85 - 115	X529224	21-Jul-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.6	85 - 115	X529224	21-Jul-25	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.8	85 - 115	X529224	21-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.985	1.00	98.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Barium	mg/L	0.985	1.00	98.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Beryllium	mg/L	0.970	1.00	97.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Boron	mg/L	0.995	1.00	99.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Cadmium	mg/L	0.934	1.00	93.4	85 - 115	X529225	22-Jul-25	
EPA 200.7	Calcium	mg/L	19.2	20.0	96.2	85 - 115	X529225	22-Jul-25	
EPA 200.7	Chromium	mg/L	0.970	1.00	97.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Cobalt	mg/L	0.920	1.00	92.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Copper	mg/L	0.929	1.00	92.9	85 - 115	X529225	22-Jul-25	
EPA 200.7	Iron	mg/L	9.56	10.0	95.6	85 - 115	X529225	22-Jul-25	
EPA 200.7	Lead	mg/L	0.943	1.00	94.3	85 - 115	X529225	22-Jul-25	
EPA 200.7	Lithium	mg/L	0.940	1.00	94.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Magnesium	mg/L	18.6	20.0	92.8	85 - 115	X529225	22-Jul-25	
EPA 200.7	Manganese	mg/L	0.976	1.00	97.6	85 - 115	X529225	22-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.965	1.00	96.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Nickel	mg/L	0.915	1.00	91.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Potassium	mg/L	19.5	20.0	97.6	85 - 115	X529225	22-Jul-25	
EPA 200.7	Silver	mg/L	0.0456	0.0500	91.1	85 - 115	X529225	22-Jul-25	
EPA 200.7	Sodium	mg/L	18.3	19.0	96.4	85 - 115	X529225	22-Jul-25	
EPA 200.7	Vanadium	mg/L	0.990	1.00	99.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Zinc	mg/L	0.929	1.00	92.9	85 - 115	X529225	22-Jul-25	
EPA 200.8	Antimony	mg/L	0.0244	0.0250	97.5	85 - 115	X530106	25-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0240	0.0250	95.8	85 - 115	X530106	25-Jul-25	
EPA 200.8	Selenium	mg/L	0.0226	0.0250	90.6	85 - 115	X530106	25-Jul-25	
EPA 200.8	Thallium	mg/L	0.0245	0.0250	98.0	85 - 115	X530106	25-Jul-25	
EPA 200.8	Uranium	mg/L	0.0257	0.0250	103	85 - 115	X530106	25-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00210	0.00200	105	85 - 115	X529168	23-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0960	0.100	96.0	90 - 110	X530076	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X529158	18-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.981	1.00	98.1	90 - 110	X530002	22-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X529148	18-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1160	1180	98.3	95.4 - 104	X531007	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X529112	17-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	94 - 106	X529112	17-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	407	397	102	94 - 106	X529112	17-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	243	250	97.2	85 - 115	X529153	18-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X529154	18-Jul-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.95	3.00	98.4	90 - 110	X529134	17-Jul-25	
EPA 300.0	Fluoride	mg/L	1.95	2.00	97.4	90 - 110	X529134	17-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.92	2.00	96.1	90 - 110	X529134	17-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.44	4.50	98.6	90 - 110	X529134	17-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.52	2.50	101	90 - 110	X529134	17-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X529134	17-Jul-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0241**

Reported: 30-Jul-25 15:41

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	2250	2270	0.8	20	X531007 - X5G0210-01	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	13.8	13.9	0.7	20	X529112 - X5G0202-07	17-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	13.8	13.9	0.7	20	X529112 - X5G0202-07	17-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X529112 - X5G0202-07	17-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X529112 - X5G0202-07	17-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	468	473	1.1	10	X529153 - X5G0260-03	18-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	551	561	1.8	10	X529153 - X5G0260-02	18-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	100	410	122.0	10	X529154 - X5G0263-03	18-Jul-25	R2B
SM 2540 D	Total Susp. Solids	mg/L	558	419	28.5	10	X529154 - X5G0260-02	18-Jul-25	R2B
SM 4500 H B	pH @22.5°C	pH Units	6.5	6.7	1.8	20	X529112 - X5G0202-07	17-Jul-25	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	408	388	20.0	98	70 - 130	X529224 - X5G0210-01	21-Jul-25	
EPA 200.7	Calcium	mg/L	34.0	14.2	20.0	99	70 - 130	X529224 - X5G0292-01	21-Jul-25	
EPA 200.7	Magnesium	mg/L	232	210	20.0	111	70 - 130	X529224 - X5G0210-01	21-Jul-25	
EPA 200.7	Magnesium	mg/L	20.8	1.28	20.0	97.3	70 - 130	X529224 - X5G0292-01	21-Jul-25	
EPA 200.7	Potassium	mg/L	25.4	4.61	20.0	104	70 - 130	X529224 - X5G0210-01	21-Jul-25	
EPA 200.7	Potassium	mg/L	19.8	<0.50	20.0	98.9	70 - 130	X529224 - X5G0292-01	21-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	32.9	33.8	1.00	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M3
EPA 200.7	Barium	mg/L	0.976	0.0274	1.00	94.9	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Beryllium	mg/L	0.955	0.0284	1.00	92.6	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Boron	mg/L	1.03	0.0462	1.00	98.2	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Cadmium	mg/L	1.07	0.147	1.00	92.2	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Calcium	mg/L	494	502	20.0	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M3
EPA 200.7	Chromium	mg/L	0.908	<0.0060	1.00	90.8	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Cobalt	mg/L	1.06	0.125	1.00	93.1	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Copper	mg/L	0.991	<0.0100	1.00	98.7	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Iron	mg/L	9.23	0.127	10.0	91.0	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Lead	mg/L	0.939	<0.0075	1.00	93.9	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Lithium	mg/L	1.32	0.235	1.00	108	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Magnesium	mg/L	396	394	20.0	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M3
EPA 200.7	Manganese	mg/L	136	138	1.00	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M4
EPA 200.7	Molybdenum	mg/L	0.967	<0.0080	1.00	96.7	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Nickel	mg/L	1.52	0.598	1.00	92.2	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Potassium	mg/L	24.6	4.98	20.0	98.3	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Silver	mg/L	0.0374	<0.0050	0.0500	74.9	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Sodium	mg/L	65.9	49.5	19.0	86.5	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Vanadium	mg/L	0.960	<0.0050	1.00	96.0	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Zinc	mg/L	17.1	16.4	1.00	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M3
EPA 200.8	Antimony	mg/L	0.0248	<0.00100	0.0250	99.3	70 - 130	X530106 - X5G0210-01	25-Jul-25	
EPA 200.8	Antimony	mg/L	0.0262	<0.00100	0.0250	105	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Arsenic	mg/L	0.118	0.0872	0.0250	123	70 - 130	X530106 - X5G0210-01	25-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0434	0.0154	0.0250	112	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Selenium	mg/L	0.0335	0.00995	0.0250	94.1	70 - 130	X530106 - X5G0210-01	25-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 10 of 13

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0241**

Reported: 30-Jul-25 15:41

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Selenium	mg/L	0.0263	0.00193	0.0250	97.5	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Thallium	mg/L	0.0273	<0.000200	0.0250	109	70 - 130	X530106 - X5G0210-01	25-Jul-25	
EPA 200.8	Thallium	mg/L	0.0263	<0.000200	0.0250	105	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Uranium	mg/L	1.11	1.07	0.0250	0.30R>S	70 - 130	X530106 - X5G0210-01	25-Jul-25	M3
EPA 200.8	Uranium	mg/L	0.195	0.168	0.0250	106	70 - 130	X530106 - X5G0302-02	25-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00210	<0.000200	0.00200	105	70 - 130	X529168 - X5G0241-01	23-Jul-25	
EPA 245.1	Mercury	mg/L	0.00210	<0.000200	0.00200	105	70 - 130	X529168 - X5G0284-01	23-Jul-25	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.100	<0.0050	0.100	100	79 - 121	X530076 - X5G0283-01	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0979	<0.0050	0.100	97.9	90 - 110	X529158 - X5G0241-02	18-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0963	<0.0050	0.100	96.3	90 - 110	X529158 - X5G0241-01	18-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.00	<0.030	1.00	98.3	90 - 110	X530002 - X5G0241-01	22-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.03	0.132	1.00	89.9	90 - 110	X530002 - X5G0241-02	22-Jul-25	M2
OIA 1677	Cyanide (WAD)	mg/L	0.106	<0.0050	0.100	106	82 - 118	X529148 - X5G0136-06	18-Jul-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	4.20	1.21	3.00	99.7	90 - 110	X529134 - X5G0248-01	16-Jul-25	
EPA 300.0	Chloride	mg/L	4.03	0.79	3.00	108	90 - 110	X529134 - X5G0249-01	16-Jul-25	
EPA 300.0	Fluoride	mg/L	2.12	0.125	2.00	99.8	90 - 110	X529134 - X5G0248-01	16-Jul-25	
EPA 300.0	Fluoride	mg/L	2.33	0.195	2.00	107	90 - 110	X529134 - X5G0249-01	16-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.98	<0.050	2.00	97.8	90 - 110	X529134 - X5G0248-01	16-Jul-25	
EPA 300.0	Nitrate as N	mg/L	2.10	<0.050	2.00	104	90 - 110	X529134 - X5G0249-01	16-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	0.147	4.00	95.7	90 - 110	X529134 - X5G0248-01	16-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.30	<0.100	4.00	108	90 - 110	X529134 - X5G0249-01	16-Jul-25	
EPA 300.0	Nitrite as N	mg/L	1.99	0.120	2.00	93.5	90 - 110	X529134 - X5G0248-01	16-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.20	<0.050	2.00	110	90 - 110	X529134 - X5G0249-01	16-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	37.7	27.8	10.0	98.9	90 - 110	X529134 - X5G0248-01	16-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	21.5	10.5	10.0	109	90 - 110	X529134 - X5G0249-01	16-Jul-25	

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	414	408	20.0	2.0	20	130	X529224 - X5G0210-01	
EPA 200.7	Magnesium	mg/L	232	232	20.0	0.1	20	112	X529224 - X5G0210-01	
EPA 200.7	Potassium	mg/L	25.8	25.4	20.0	1.8	20	106	X529224 - X5G0210-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	33.7	32.9	1.00	2.6	20	0.30R>S	X529225 - X5G0241-03	M3
EPA 200.7	Barium	mg/L	1.00	0.976	1.00	2.6	20	97.5	X529225 - X5G0241-03	
EPA 200.7	Beryllium	mg/L	1.00	0.955	1.00	4.8	20	97.3	X529225 - X5G0241-03	
EPA 200.7	Boron	mg/L	1.06	1.03	1.00	3.0	20	101	X529225 - X5G0241-03	
EPA 200.7	Cadmium	mg/L	1.07	1.07	1.00	0.5	20	92.8	X529225 - X5G0241-03	
EPA 200.7	Calcium	mg/L	517	494	20.0	4.6	20	76.6	X529225 - X5G0241-03	
EPA 200.7	Chromium	mg/L	0.940	0.908	1.00	3.5	20	94.0	X529225 - X5G0241-03	
EPA 200.7	Cobalt	mg/L	1.06	1.06	1.00	0.3	20	93.4	X529225 - X5G0241-03	
EPA 200.7	Copper	mg/L	1.01	0.991	1.00	2.4	20	101	X529225 - X5G0241-03	



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0241**

Reported: 30-Jul-25 15:41

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)										
Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes

Metals (Dissolved) (Continued)

EPA 200.7	Iron	mg/L	9.69	9.23	10.0	4.9	20	95.7	X529225 - X5G0241-03	
EPA 200.7	Lead	mg/L	0.939	0.939	1.00	0.1	20	93.9	X529225 - X5G0241-03	
EPA 200.7	Lithium	mg/L	1.37	1.32	1.00	4.4	20	114	X529225 - X5G0241-03	
EPA 200.7	Magnesium	mg/L	404	396	20.0	2.0	20	0.30R>S	X529225 - X5G0241-03	M3
EPA 200.7	Manganese	mg/L	137	136	1.00	0.8	20	0.30R>S	X529225 - X5G0241-03	M4
EPA 200.7	Molybdenum	mg/L	0.973	0.967	1.00	0.7	20	97.3	X529225 - X5G0241-03	
EPA 200.7	Nickel	mg/L	1.51	1.52	1.00	0.6	20	91.3	X529225 - X5G0241-03	
EPA 200.7	Potassium	mg/L	25.6	24.6	20.0	3.7	20	103	X529225 - X5G0241-03	
EPA 200.7	Silver	mg/L	0.0364	0.0374	0.0500	2.9	20	72.7	X529225 - X5G0241-03	
EPA 200.7	Sodium	mg/L	68.5	65.9	19.0	3.8	20	100	X529225 - X5G0241-03	
EPA 200.7	Vanadium	mg/L	0.991	0.960	1.00	3.1	20	99.1	X529225 - X5G0241-03	
EPA 200.7	Zinc	mg/L	17.1	17.1	1.00	0.1	20	0.30R>S	X529225 - X5G0241-03	M3
EPA 200.8	Antimony	mg/L	0.0244	0.0248	0.0250	1.6	20	97.7	X530106 - X5G0210-01	
EPA 200.8	Arsenic	mg/L	0.114	0.118	0.0250	3.9	20	106	X530106 - X5G0210-01	
EPA 200.8	Selenium	mg/L	0.0324	0.0335	0.0250	3.1	20	90.0	X530106 - X5G0210-01	
EPA 200.8	Thallium	mg/L	0.0262	0.0273	0.0250	4.1	20	105	X530106 - X5G0210-01	
EPA 200.8	Uranium	mg/L	1.09	1.11	0.0250	1.4	20	90.2	X530106 - X5G0210-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00214	0.00210	0.00200	1.8	20	107	X529168 - X5G0241-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.103	0.100	0.100	2.7	11	103	X530076 - X5G0283-01	
EPA 335.4	Cyanide (total)	mg/L	0.0996	0.0979	0.100	1.7	20	99.6	X529158 - X5G0241-02	
EPA 350.1	Ammonia as N	mg/L	0.973	1.00	1.00	3.1	20	95.3	X530002 - X5G0241-01	
OIA 1677	Cyanide (WAD)	mg/L	0.109	0.106	0.100	3.4	11	109	X529148 - X5G0136-06	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	4.16	4.20	3.00	1.0	20	98.3	X529134 - X5G0248-01	
EPA 300.0	Fluoride	mg/L	2.09	2.12	2.00	1.5	20	98.2	X529134 - X5G0248-01	
EPA 300.0	Nitrate as N	mg/L	1.95	1.98	2.00	1.7	20	96.1	X529134 - X5G0248-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.90	3.97	4.00	1.9	20	93.8	X529134 - X5G0248-01	
EPA 300.0	Nitrite as N	mg/L	1.95	1.99	2.00	2.2	20	91.4	X529134 - X5G0248-01	
EPA 300.0	Sulfate as SO4	mg/L	37.7	37.7	10.0	0.2	20	98.2	X529134 - X5G0248-01	



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Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0241**

Reported: 30-Jul-25 15:41

Notes and Definitions

D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
D18	Due to a published chemical interference, a sample dilution was performed.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
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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Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0242**

Reported: 30-Jul-25 16:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-133E	X5G0242-01	Ground Water	15-Jul-25 10:30	TR	16-Jul-2025	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: X5G0242

The state of origin only accredits for drinking water analyses.

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0242**

Reported: 30-Jul-25 16:02

Client Sample ID: **GVMW-133E**

Sampled: 15-Jul-25 10:30

SVL Sample ID: **X5G0242-01 (Ground Water)**

Received: 16-Jul-25

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	421	mg/L	0.100	0.069		X529224	SJN	07/21/25 11:02	
EPA 200.7	Magnesium	234	mg/L	0.500	0.090		X529224	SJN	07/21/25 11:02	
EPA 200.7	Potassium	6.82	mg/L	0.50	0.18		X529224	SJN	07/21/25 11:02	
SM 2340 B	Hardness (as CaCO3)	2020	mg/L	2.31	0.543		N/A		07/22/25 13:09	

Metals (Dissolved)

EPA 200.7	Aluminum	364	mg/L	0.080	0.054		X529225	SJN	07/22/25 13:09	
EPA 200.7	Barium	0.0118	mg/L	0.0020	0.0019		X529225	SJN	07/22/25 13:09	
EPA 200.7	Beryllium	0.441	mg/L	0.00200	0.00080		X529225	SJN	07/22/25 13:09	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X529225	SJN	07/22/25 13:09	
EPA 200.7	Cadmium	0.824	mg/L	0.0020	0.0016		X529225	SJN	07/22/25 13:09	
EPA 200.7	Calcium	420	mg/L	0.100	0.069		X529225	SJN	07/22/25 13:09	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X529225	SJN	07/22/25 13:09	
EPA 200.7	Cobalt	0.469	mg/L	0.0060	0.0046		X529225	SJN	07/22/25 13:09	
EPA 200.7	Copper	0.806	mg/L	0.0100	0.0027		X529225	SJN	07/22/25 13:09	
EPA 200.7	Iron	1.14	mg/L	0.100	0.056		X529225	SJN	07/22/25 13:09	
EPA 200.7	Lead	0.0263	mg/L	0.0075	0.0049		X529225	SJN	07/22/25 13:09	
EPA 200.7	Lithium	0.073	mg/L	0.040	0.025		X529225	SJN	07/22/25 13:09	
EPA 200.7	Magnesium	246	mg/L	0.500	0.090		X529225	SJN	07/22/25 13:09	
EPA 200.7	Manganese	146	mg/L	0.0800	0.0340	10	X529225	SJN	07/22/25 14:18	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X529225	SJN	07/22/25 13:09	
EPA 200.7	Nickel	1.20	mg/L	0.0100	0.0048		X529225	SJN	07/22/25 13:09	
EPA 200.7	Potassium	6.08	mg/L	0.50	0.18		X529225	SJN	07/22/25 13:09	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X529225	SJN	07/22/25 13:09	
EPA 200.7	Sodium	115	mg/L	0.50	0.12		X529225	SJN	07/22/25 13:09	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529225	SJN	07/22/25 13:09	
EPA 200.7	Zinc	20.5	mg/L	0.0100	0.0054		X529225	SJN	07/22/25 13:09	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X530106	SMU	07/25/25 13:07	
EPA 200.8	Arsenic	0.142	mg/L	0.00100	0.00021		X530106	SMU	07/25/25 13:07	
EPA 200.8	Selenium	0.0179	mg/L	0.00100	0.00024		X530106	SMU	07/25/25 13:07	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X530106	SMU	07/25/25 13:07	
EPA 200.8	Uranium	1.60	mg/L	0.000100	0.000052		X530106	SMU	07/25/25 13:07	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X529168	MAC	07/23/25 15:49	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X530075	HJL	07/23/25 16:48	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X529158	ORW	07/18/25 12:21	
EPA 350.1	Ammonia as N	0.132	mg/L	0.030	0.013		X530002	ORW	07/22/25 12:06	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X530218	JPM	07/25/25 16:54	M4,Q12,R2B
SM 2310 B	Acidity to pH 8.3	2750	mg/L as CaCO3	10.0			X531007	MWD	07/28/25 10:50	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 14:00	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 14:00	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 14:00	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529112	MWD	07/17/25 14:00	
SM 2540 C	Total Diss. Solids	6650	mg/L	40			X529153	TJL	07/18/25 12:40	
SM 2540 D	Total Susp. Solids	12.0	mg/L	5.0			X529154	TJL	07/18/25 12:10	
SM 4500 H B	pH @23.1°C	3.7	pH Units				X529112	MWD	07/17/25 14:00	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0242 Reported: 30-Jul-25 16:02
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Client Sample ID: **GVMW-133E**
SVL Sample ID: **X5G0242-01 (Ground Water)**

Sampled: 15-Jul-25 10:30
Received: 16-Jul-25
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	5.13	mg/L	1.00	0.11	5	X529134	RS	07/16/25 21:45	D18
EPA 300.0	Fluoride	20.0	mg/L	0.500	0.085	5	X529134	RS	07/16/25 21:45	
EPA 300.0	Nitrate as N	4.58	mg/L	0.250	0.065	5	X529134	RS	07/16/25 21:45	D18
EPA 300.0	Nitrate+Nitrite as N	4.62	mg/L	0.500	0.220	5	X529134	RS	07/16/25 21:45	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X529134	RS	07/16/25 21:45	D18
EPA 300.0	Sulfate as SO4	4370	mg/L	30.0	18.0	100	X529134	RS	07/16/25 22:01	

Cation/Anion Balance and TDS Ratios

Cation Sum: 91.9 meq/L	Anion Sum: 92.5 meq/L	C/A Balance: -0.35 %	Calculated TDS: 5198	TDS/cTDS: 1.28
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0242**

Reported: 30-Jul-25 16:02

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	X529224	21-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X529224	21-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X529224	21-Jul-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X529225	22-Jul-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X529225	22-Jul-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X529225	22-Jul-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X529225	22-Jul-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X529225	22-Jul-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X529225	22-Jul-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X529225	22-Jul-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X529225	22-Jul-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X529225	22-Jul-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X529225	22-Jul-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X529225	22-Jul-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X529225	22-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X529225	22-Jul-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X529225	22-Jul-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X529225	22-Jul-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X529225	22-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X529225	22-Jul-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X529225	22-Jul-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X529225	22-Jul-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X529225	22-Jul-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X529225	22-Jul-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X530106	25-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X530106	25-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X530106	25-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X530106	25-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X530106	25-Jul-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X529168	23-Jul-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X530075	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X529158	18-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X530002	22-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X530218	25-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X531007	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X529112	17-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X529112	17-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X529112	17-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X529112	17-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X529153	18-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X529154	18-Jul-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X529134	17-Jul-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X529134	17-Jul-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X529134	17-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X529134	17-Jul-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X529134	17-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X529134	17-Jul-25	



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Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0242**

Reported: 30-Jul-25 16:02

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	19.7	20.0	99	85 - 115	X529224	21-Jul-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.6	85 - 115	X529224	21-Jul-25	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.8	85 - 115	X529224	21-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.985	1.00	98.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Barium	mg/L	0.985	1.00	98.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Beryllium	mg/L	0.970	1.00	97.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Boron	mg/L	0.995	1.00	99.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Cadmium	mg/L	0.934	1.00	93.4	85 - 115	X529225	22-Jul-25	
EPA 200.7	Calcium	mg/L	19.2	20.0	96.2	85 - 115	X529225	22-Jul-25	
EPA 200.7	Chromium	mg/L	0.970	1.00	97.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Cobalt	mg/L	0.920	1.00	92.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Copper	mg/L	0.929	1.00	92.9	85 - 115	X529225	22-Jul-25	
EPA 200.7	Iron	mg/L	9.56	10.0	95.6	85 - 115	X529225	22-Jul-25	
EPA 200.7	Lead	mg/L	0.943	1.00	94.3	85 - 115	X529225	22-Jul-25	
EPA 200.7	Lithium	mg/L	0.940	1.00	94.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Magnesium	mg/L	18.6	20.0	92.8	85 - 115	X529225	22-Jul-25	
EPA 200.7	Manganese	mg/L	0.976	1.00	97.6	85 - 115	X529225	22-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.965	1.00	96.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Nickel	mg/L	0.915	1.00	91.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Potassium	mg/L	19.5	20.0	97.6	85 - 115	X529225	22-Jul-25	
EPA 200.7	Silver	mg/L	0.0456	0.0500	91.1	85 - 115	X529225	22-Jul-25	
EPA 200.7	Sodium	mg/L	18.3	19.0	96.4	85 - 115	X529225	22-Jul-25	
EPA 200.7	Vanadium	mg/L	0.990	1.00	99.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Zinc	mg/L	0.929	1.00	92.9	85 - 115	X529225	22-Jul-25	
EPA 200.8	Antimony	mg/L	0.0244	0.0250	97.5	85 - 115	X530106	25-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0240	0.0250	95.8	85 - 115	X530106	25-Jul-25	
EPA 200.8	Selenium	mg/L	0.0226	0.0250	90.6	85 - 115	X530106	25-Jul-25	
EPA 200.8	Thallium	mg/L	0.0245	0.0250	98.0	85 - 115	X530106	25-Jul-25	
EPA 200.8	Uranium	mg/L	0.0257	0.0250	103	85 - 115	X530106	25-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00210	0.00200	105	85 - 115	X529168	23-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0986	0.100	98.6	90 - 110	X530075	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X529158	18-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.981	1.00	98.1	90 - 110	X530002	22-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X530218	25-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1160	1180	98.3	95.4 - 104	X531007	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.90	9.93	99.7	94 - 106	X529112	17-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	94 - 106	X529112	17-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	407	397	102	94 - 106	X529112	17-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	243	250	97.2	85 - 115	X529153	18-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X529154	18-Jul-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.95	3.00	98.4	90 - 110	X529134	17-Jul-25	
EPA 300.0	Fluoride	mg/L	1.95	2.00	97.4	90 - 110	X529134	17-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.92	2.00	96.1	90 - 110	X529134	17-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.44	4.50	98.6	90 - 110	X529134	17-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.52	2.50	101	90 - 110	X529134	17-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X529134	17-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 5 of 9

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0242**

Reported: 30-Jul-25 16:02

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	2250	2270	0.8	20	X531007 - X5G0210-01	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	13.8	13.9	0.7	20	X529112 - X5G0202-07	17-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	13.8	13.9	0.7	20	X529112 - X5G0202-07	17-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X529112 - X5G0202-07	17-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X529112 - X5G0202-07	17-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	468	473	1.1	10	X529153 - X5G0260-03	18-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	551	561	1.8	10	X529153 - X5G0260-02	18-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	100	410	122.0	10	X529154 - X5G0263-03	18-Jul-25	R2B
SM 2540 D	Total Susp. Solids	mg/L	558	419	28.5	10	X529154 - X5G0260-02	18-Jul-25	R2B
SM 4500 H B	pH @22.5°C	pH Units	6.5	6.7	1.8	20	X529112 - X5G0202-07	17-Jul-25	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	408	388	20.0	98	70 - 130	X529224 - X5G0210-01	21-Jul-25	
EPA 200.7	Calcium	mg/L	34.0	14.2	20.0	99	70 - 130	X529224 - X5G0292-01	21-Jul-25	
EPA 200.7	Magnesium	mg/L	232	210	20.0	111	70 - 130	X529224 - X5G0210-01	21-Jul-25	
EPA 200.7	Magnesium	mg/L	20.8	1.28	20.0	97.3	70 - 130	X529224 - X5G0292-01	21-Jul-25	
EPA 200.7	Potassium	mg/L	25.4	4.61	20.0	104	70 - 130	X529224 - X5G0210-01	21-Jul-25	
EPA 200.7	Potassium	mg/L	19.8	<0.50	20.0	98.9	70 - 130	X529224 - X5G0292-01	21-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	32.9	33.8	1.00	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M3
EPA 200.7	Barium	mg/L	0.976	0.0274	1.00	94.9	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Beryllium	mg/L	0.955	0.0284	1.00	92.6	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Boron	mg/L	1.03	0.0462	1.00	98.2	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Cadmium	mg/L	1.07	0.147	1.00	92.2	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Calcium	mg/L	494	502	20.0	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M3
EPA 200.7	Chromium	mg/L	0.908	<0.0060	1.00	90.8	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Cobalt	mg/L	1.06	0.125	1.00	93.1	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Copper	mg/L	0.991	<0.0100	1.00	98.7	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Iron	mg/L	9.23	0.127	10.0	91.0	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Lead	mg/L	0.939	<0.0075	1.00	93.9	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Lithium	mg/L	1.32	0.235	1.00	108	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Magnesium	mg/L	396	394	20.0	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M3
EPA 200.7	Manganese	mg/L	136	138	1.00	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M4
EPA 200.7	Molybdenum	mg/L	0.967	<0.0080	1.00	96.7	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Nickel	mg/L	1.52	0.598	1.00	92.2	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Potassium	mg/L	24.6	4.98	20.0	98.3	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Silver	mg/L	0.0374	<0.0050	0.0500	74.9	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Sodium	mg/L	65.9	49.5	19.0	86.5	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Vanadium	mg/L	0.960	<0.0050	1.00	96.0	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Zinc	mg/L	17.1	16.4	1.00	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M3
EPA 200.8	Antimony	mg/L	0.0248	<0.00100	0.0250	99.3	70 - 130	X530106 - X5G0210-01	25-Jul-25	
EPA 200.8	Antimony	mg/L	0.0262	<0.00100	0.0250	105	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Arsenic	mg/L	0.118	0.0872	0.0250	123	70 - 130	X530106 - X5G0210-01	25-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0434	0.0154	0.0250	112	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Selenium	mg/L	0.0335	0.00995	0.0250	94.1	70 - 130	X530106 - X5G0210-01	25-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 6 of 9

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0242**

Reported: 30-Jul-25 16:02

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Selenium	mg/L	0.0263	0.00193	0.0250	97.5	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Thallium	mg/L	0.0273	<0.000200	0.0250	109	70 - 130	X530106 - X5G0210-01	25-Jul-25	
EPA 200.8	Thallium	mg/L	0.0263	<0.000200	0.0250	105	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Uranium	mg/L	1.11	1.07	0.0250	0.30R>S	70 - 130	X530106 - X5G0210-01	25-Jul-25	M3
EPA 200.8	Uranium	mg/L	0.195	0.168	0.0250	106	70 - 130	X530106 - X5G0302-02	25-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00210	<0.000200	0.00200	105	70 - 130	X529168 - X5G0241-01	23-Jul-25	
EPA 245.1	Mercury	mg/L	0.00210	<0.000200	0.00200	105	70 - 130	X529168 - X5G0284-01	23-Jul-25	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.104	<0.0050	0.100	104	79 - 121	X530075 - X5G0318-05	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0979	<0.0050	0.100	97.9	90 - 110	X529158 - X5G0241-02	18-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0963	<0.0050	0.100	96.3	90 - 110	X529158 - X5G0241-01	18-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.00	<0.030	1.00	98.3	90 - 110	X530002 - X5G0241-01	22-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.03	0.132	1.00	89.9	90 - 110	X530002 - X5G0241-02	22-Jul-25	M2
OIA 1677	Cyanide (WAD)	mg/L	<0.0500	<0.0500	0.100	33.1	82 - 118	X530218 - X5G0242-01	25-Jul-25	M4,R2B

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	4.20	1.21	3.00	99.7	90 - 110	X529134 - X5G0248-01	16-Jul-25	
EPA 300.0	Chloride	mg/L	4.03	0.79	3.00	108	90 - 110	X529134 - X5G0249-01	16-Jul-25	
EPA 300.0	Fluoride	mg/L	2.12	0.125	2.00	99.8	90 - 110	X529134 - X5G0248-01	16-Jul-25	
EPA 300.0	Fluoride	mg/L	2.33	0.195	2.00	107	90 - 110	X529134 - X5G0249-01	16-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.98	<0.050	2.00	97.8	90 - 110	X529134 - X5G0248-01	16-Jul-25	
EPA 300.0	Nitrate as N	mg/L	2.10	<0.050	2.00	104	90 - 110	X529134 - X5G0249-01	16-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.97	0.147	4.00	95.7	90 - 110	X529134 - X5G0248-01	16-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.30	<0.100	4.00	108	90 - 110	X529134 - X5G0249-01	16-Jul-25	
EPA 300.0	Nitrite as N	mg/L	1.99	0.120	2.00	93.5	90 - 110	X529134 - X5G0248-01	16-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.20	<0.050	2.00	110	90 - 110	X529134 - X5G0249-01	16-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	37.7	27.8	10.0	98.9	90 - 110	X529134 - X5G0248-01	16-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	21.5	10.5	10.0	109	90 - 110	X529134 - X5G0249-01	16-Jul-25	

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	414	408	20.0	2.0	20	130	X529224 - X5G0210-01	
EPA 200.7	Magnesium	mg/L	232	232	20.0	0.1	20	112	X529224 - X5G0210-01	
EPA 200.7	Potassium	mg/L	25.8	25.4	20.0	1.8	20	106	X529224 - X5G0210-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	33.7	32.9	1.00	2.6	20	0.30R>S	X529225 - X5G0241-03	M3
EPA 200.7	Barium	mg/L	1.00	0.976	1.00	2.6	20	97.5	X529225 - X5G0241-03	
EPA 200.7	Beryllium	mg/L	1.00	0.955	1.00	4.8	20	97.3	X529225 - X5G0241-03	
EPA 200.7	Boron	mg/L	1.06	1.03	1.00	3.0	20	101	X529225 - X5G0241-03	
EPA 200.7	Cadmium	mg/L	1.07	1.07	1.00	0.5	20	92.8	X529225 - X5G0241-03	
EPA 200.7	Calcium	mg/L	517	494	20.0	4.6	20	76.6	X529225 - X5G0241-03	
EPA 200.7	Chromium	mg/L	0.940	0.908	1.00	3.5	20	94.0	X529225 - X5G0241-03	
EPA 200.7	Cobalt	mg/L	1.06	1.06	1.00	0.3	20	93.4	X529225 - X5G0241-03	
EPA 200.7	Copper	mg/L	1.01	0.991	1.00	2.4	20	101	X529225 - X5G0241-03	



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0242**

Reported: 30-Jul-25 16:02

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)										
Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes

Metals (Dissolved) (Continued)

EPA 200.7	Iron	mg/L	9.69	9.23	10.0	4.9	20	95.7	X529225 - X5G0241-03	
EPA 200.7	Lead	mg/L	0.939	0.939	1.00	0.1	20	93.9	X529225 - X5G0241-03	
EPA 200.7	Lithium	mg/L	1.37	1.32	1.00	4.4	20	114	X529225 - X5G0241-03	
EPA 200.7	Magnesium	mg/L	404	396	20.0	2.0	20	0.30R>S	X529225 - X5G0241-03	M3
EPA 200.7	Manganese	mg/L	137	136	1.00	0.8	20	0.30R>S	X529225 - X5G0241-03	M4
EPA 200.7	Molybdenum	mg/L	0.973	0.967	1.00	0.7	20	97.3	X529225 - X5G0241-03	
EPA 200.7	Nickel	mg/L	1.51	1.52	1.00	0.6	20	91.3	X529225 - X5G0241-03	
EPA 200.7	Potassium	mg/L	25.6	24.6	20.0	3.7	20	103	X529225 - X5G0241-03	
EPA 200.7	Silver	mg/L	0.0364	0.0374	0.0500	2.9	20	72.7	X529225 - X5G0241-03	
EPA 200.7	Sodium	mg/L	68.5	65.9	19.0	3.8	20	100	X529225 - X5G0241-03	
EPA 200.7	Vanadium	mg/L	0.991	0.960	1.00	3.1	20	99.1	X529225 - X5G0241-03	
EPA 200.7	Zinc	mg/L	17.1	17.1	1.00	0.1	20	0.30R>S	X529225 - X5G0241-03	M3
EPA 200.8	Antimony	mg/L	0.0244	0.0248	0.0250	1.6	20	97.7	X530106 - X5G0210-01	
EPA 200.8	Arsenic	mg/L	0.114	0.118	0.0250	3.9	20	106	X530106 - X5G0210-01	
EPA 200.8	Selenium	mg/L	0.0324	0.0335	0.0250	3.1	20	90.0	X530106 - X5G0210-01	
EPA 200.8	Thallium	mg/L	0.0262	0.0273	0.0250	4.1	20	105	X530106 - X5G0210-01	
EPA 200.8	Uranium	mg/L	1.09	1.11	0.0250	1.4	20	90.2	X530106 - X5G0210-01	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00214	0.00210	0.00200	1.8	20	107	X529168 - X5G0241-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.108	0.104	0.100	4.4	11	108	X530075 - X5G0318-05	
EPA 335.4	Cyanide (total)	mg/L	0.0996	0.0979	0.100	1.7	20	99.6	X529158 - X5G0241-02	
EPA 350.1	Ammonia as N	mg/L	0.973	1.00	1.00	3.1	20	95.3	X530002 - X5G0241-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0747	<0.0500	0.100	77.2	11	74.7	X530218 - X5G0242-01	M4,R2B

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	4.16	4.20	3.00	1.0	20	98.3	X529134 - X5G0248-01	
EPA 300.0	Fluoride	mg/L	2.09	2.12	2.00	1.5	20	98.2	X529134 - X5G0248-01	
EPA 300.0	Nitrate as N	mg/L	1.95	1.98	2.00	1.7	20	96.1	X529134 - X5G0248-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.90	3.97	4.00	1.9	20	93.8	X529134 - X5G0248-01	
EPA 300.0	Nitrite as N	mg/L	1.95	1.99	2.00	2.2	20	91.4	X529134 - X5G0248-01	
EPA 300.0	Sulfate as SO4	mg/L	37.7	37.7	10.0	0.2	20	98.2	X529134 - X5G0248-01	



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0242**

Reported: 30-Jul-25 16:02

Notes and Definitions

D18	Due to a published chemical interference, a sample dilution was performed.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
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 <10.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0281**

Reported: 31-Jul-25 16:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-35B	X5G0281-01	Ground Water	16-Jul-25 09:45	TR	17-Jul-2025	

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

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Case Narrative: X5G0281

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

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0281**

Reported: 31-Jul-25 16:28

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

Sampled: 16-Jul-25 09:45

Received: 17-Jul-25

Sampled By: TR

SVL Sample ID: **X5G0281-01 (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	438	mg/L	0.100	0.069		X529224	SJN	07/21/25 11:20	
EPA 200.7	Magnesium	122	mg/L	0.500	0.090		X529224	SJN	07/21/25 11:20	
EPA 200.7	Potassium	3.90	mg/L	0.50	0.18		X529224	SJN	07/21/25 11:20	
SM 2340 B	Hardness (as CaCO3)	1600	mg/L	2.31	0.543		N/A		07/22/25 13:32	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X529225	SJN	07/22/25 13:32	
EPA 200.7	Barium	0.0111	mg/L	0.0020	0.0019		X529225	SJN	07/22/25 13:32	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X529225	SJN	07/22/25 13:32	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X529225	SJN	07/22/25 13:32	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X529225	SJN	07/22/25 13:32	
EPA 200.7	Calcium	436	mg/L	0.100	0.069		X529225	SJN	07/22/25 13:32	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X529225	SJN	07/22/25 13:32	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X529225	SJN	07/22/25 13:32	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X529225	SJN	07/22/25 13:32	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X529225	SJN	07/22/25 13:32	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X529225	SJN	07/22/25 13:32	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X529225	SJN	07/22/25 13:32	
EPA 200.7	Magnesium	119	mg/L	0.500	0.090		X529225	SJN	07/22/25 13:32	
EPA 200.7	Manganese	0.311	mg/L	0.0080	0.0034		X529225	SJN	07/22/25 13:32	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X529225	SJN	07/22/25 13:32	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X529225	SJN	07/22/25 13:32	
EPA 200.7	Potassium	3.70	mg/L	0.50	0.18		X529225	SJN	07/22/25 13:32	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X529225	SJN	07/22/25 13:32	
EPA 200.7	Sodium	16.0	mg/L	0.50	0.12		X529225	SJN	07/22/25 13:32	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X529225	SJN	07/22/25 13:32	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X529225	SJN	07/22/25 13:32	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X530106	SMU	07/25/25 13:10	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X530106	SMU	07/25/25 13:10	
EPA 200.8	Selenium	0.00583	mg/L	0.00100	0.00024		X530106	SMU	07/25/25 13:10	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X530106	SMU	07/25/25 13:10	
EPA 200.8	Uranium	0.00656	mg/L	0.000100	0.000052		X530106	SMU	07/25/25 13:10	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X529168	MAC	07/23/25 16:00	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X530076	HJL	07/23/25 18:45	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X530074	JPM	07/23/25 10:35	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X530003	ORW	07/22/25 13:29	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X530218	JPM	07/25/25 16:57	
SM 2310 B	Acidity to pH 8.3	-59.7	mg/L as CaCO3	10.0			X531007	MWD	07/28/25 10:50	
SM 2320 B	Total Alkalinity	61.3	mg/L as CaCO3	1.0			X529203	MWD	07/18/25 14:26	
SM 2320 B	Bicarbonate	61.3	mg/L as CaCO3	1.0			X529203	MWD	07/18/25 14:26	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X529203	MWD	07/18/25 14:26	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X529203	MWD	07/18/25 14:26	
SM 2540 C	Total Diss. Solids	2480	mg/L	40			X529207	TJL	07/21/25 13:00	
SM 2540 D	Total Susp. Solids	15.0	mg/L	5.0			X529208	TJL	07/21/25 13:45	
SM 4500 H B	pH @23.7°C	7.8	pH Units				X529203	MWD	07/18/25 14:26	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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Kellogg, ID 83837-0929

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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0281**

Reported: 31-Jul-25 16:28

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

Sampled: 16-Jul-25 09:45

SVL Sample ID: **X5G0281-01 (Ground Water)**

Received: 17-Jul-25

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	92.8	mg/L	10.0	1.10	50	X529181	RS	07/17/25 23:33	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X529181	RS	07/17/25 23:16	
EPA 300.0	Nitrate as N	17.7	mg/L	2.50	0.650	50	X529181	RS	07/17/25 23:33	
EPA 300.0	Nitrate+Nitrite as N	17.8	mg/L	0.100	0.044		X529181	RS	07/17/25 23:16	
EPA 300.0	Nitrite as N	0.100	mg/L	0.050	0.031		X529181	RS	07/17/25 23:16	
EPA 300.0	Sulfate as SO4	1380	mg/L	15.0	9.00	50	X529181	RS	07/17/25 23:33	

Cation/Anion Balance and TDS Ratios

Cation Sum: 32.4 meq/L

Anion Sum: 33.8 meq/L

C/A Balance: -2.24 %

Calculated TDS: 2166

TDS/cTDS: 1.15

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

Kristi A. Groth

Kristi A. Groth

Project Manager

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0281**

Reported: 31-Jul-25 16:28

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X529224	21-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X529224	21-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X529224	21-Jul-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X529225	22-Jul-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X529225	22-Jul-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X529225	22-Jul-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X529225	22-Jul-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X529225	22-Jul-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X529225	22-Jul-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X529225	22-Jul-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X529225	22-Jul-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X529225	22-Jul-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X529225	22-Jul-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X529225	22-Jul-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X529225	22-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X529225	22-Jul-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X529225	22-Jul-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X529225	22-Jul-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X529225	22-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X529225	22-Jul-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X529225	22-Jul-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X529225	22-Jul-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X529225	22-Jul-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X529225	22-Jul-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X530106	25-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X530106	25-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X530106	25-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X530106	25-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X530106	25-Jul-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X529168	23-Jul-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X530076	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X530074	23-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X530003	22-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X530218	25-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X531007	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X529203	18-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X529203	18-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X529203	18-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X529203	18-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X529207	21-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X529208	21-Jul-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X529181	17-Jul-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X529181	17-Jul-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X529181	17-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X529181	17-Jul-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X529181	17-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X529181	17-Jul-25	



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Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0281**

Reported: 31-Jul-25 16:28

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	19.7	20.0	99	85 - 115	X529224	21-Jul-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.6	85 - 115	X529224	21-Jul-25	
EPA 200.7	Potassium	mg/L	19.4	20.0	96.8	85 - 115	X529224	21-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.985	1.00	98.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Barium	mg/L	0.985	1.00	98.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Beryllium	mg/L	0.970	1.00	97.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Boron	mg/L	0.995	1.00	99.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Cadmium	mg/L	0.934	1.00	93.4	85 - 115	X529225	22-Jul-25	
EPA 200.7	Calcium	mg/L	19.2	20.0	96.2	85 - 115	X529225	22-Jul-25	
EPA 200.7	Chromium	mg/L	0.970	1.00	97.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Cobalt	mg/L	0.920	1.00	92.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Copper	mg/L	0.929	1.00	92.9	85 - 115	X529225	22-Jul-25	
EPA 200.7	Iron	mg/L	9.56	10.0	95.6	85 - 115	X529225	22-Jul-25	
EPA 200.7	Lead	mg/L	0.943	1.00	94.3	85 - 115	X529225	22-Jul-25	
EPA 200.7	Lithium	mg/L	0.940	1.00	94.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Magnesium	mg/L	18.6	20.0	92.8	85 - 115	X529225	22-Jul-25	
EPA 200.7	Manganese	mg/L	0.976	1.00	97.6	85 - 115	X529225	22-Jul-25	
EPA 200.7	Molybdenum	mg/L	0.965	1.00	96.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Nickel	mg/L	0.915	1.00	91.5	85 - 115	X529225	22-Jul-25	
EPA 200.7	Potassium	mg/L	19.5	20.0	97.6	85 - 115	X529225	22-Jul-25	
EPA 200.7	Silver	mg/L	0.0456	0.0500	91.1	85 - 115	X529225	22-Jul-25	
EPA 200.7	Sodium	mg/L	18.3	19.0	96.4	85 - 115	X529225	22-Jul-25	
EPA 200.7	Vanadium	mg/L	0.990	1.00	99.0	85 - 115	X529225	22-Jul-25	
EPA 200.7	Zinc	mg/L	0.929	1.00	92.9	85 - 115	X529225	22-Jul-25	
EPA 200.8	Antimony	mg/L	0.0244	0.0250	97.5	85 - 115	X530106	25-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0240	0.0250	95.8	85 - 115	X530106	25-Jul-25	
EPA 200.8	Selenium	mg/L	0.0226	0.0250	90.6	85 - 115	X530106	25-Jul-25	
EPA 200.8	Thallium	mg/L	0.0245	0.0250	98.0	85 - 115	X530106	25-Jul-25	
EPA 200.8	Uranium	mg/L	0.0257	0.0250	103	85 - 115	X530106	25-Jul-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00210	0.00200	105	85 - 115	X529168	23-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0960	0.100	96.0	90 - 110	X530076	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X530074	23-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.973	1.00	97.3	90 - 110	X530003	22-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X530218	25-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1160	1180	98.3	95.4 - 104	X531007	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.0	9.93	101	94 - 106	X529203	18-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	102	94 - 106	X529203	18-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	409	397	103	94 - 106	X529203	18-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	248	250	99.2	85 - 115	X529207	21-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X529208	21-Jul-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.02	3.00	101	90 - 110	X529181	17-Jul-25	
EPA 300.0	Fluoride	mg/L	1.95	2.00	97.5	90 - 110	X529181	17-Jul-25	
EPA 300.0	Nitrate as N	mg/L	2.02	2.00	101	90 - 110	X529181	17-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.60	4.50	102	90 - 110	X529181	17-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X529181	17-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	9.73	10.0	97.3	90 - 110	X529181	17-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 5 of 9

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0281**

Reported: 31-Jul-25 16:28

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	2250	2270	0.8	20	X531007 - X5G0210-01	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	2.70	<RL	20	X529203 - X5G0243-02	18-Jul-25	R2B
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	2.70	<RL	20	X529203 - X5G0243-02	18-Jul-25	R2B
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X529203 - X5G0243-02	18-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X529203 - X5G0243-02	18-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	210	218	3.7	10	X529207 - X5G0283-02	21-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	482	474	1.7	10	X529207 - X5G0286-02	21-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	16.0	16.0	0.0	10	X529208 - X5G0283-02	21-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X529208 - X5G0286-02	21-Jul-25	
SM 4500 H B	pH @21.8°C	pH Units	6.0	6.5	6.9	20	X529203 - X5G0243-02	18-Jul-25	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	408	388	20.0	98	70 - 130	X529224 - X5G0210-01	21-Jul-25	
EPA 200.7	Calcium	mg/L	34.0	14.2	20.0	99	70 - 130	X529224 - X5G0292-01	21-Jul-25	
EPA 200.7	Magnesium	mg/L	232	210	20.0	111	70 - 130	X529224 - X5G0210-01	21-Jul-25	
EPA 200.7	Magnesium	mg/L	20.8	1.28	20.0	97.3	70 - 130	X529224 - X5G0292-01	21-Jul-25	
EPA 200.7	Potassium	mg/L	25.4	4.61	20.0	104	70 - 130	X529224 - X5G0210-01	21-Jul-25	
EPA 200.7	Potassium	mg/L	19.8	<0.50	20.0	98.9	70 - 130	X529224 - X5G0292-01	21-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	32.9	33.8	1.00	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M3
EPA 200.7	Barium	mg/L	0.976	0.0274	1.00	94.9	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Beryllium	mg/L	0.955	0.0284	1.00	92.6	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Boron	mg/L	1.03	0.0462	1.00	98.2	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Cadmium	mg/L	1.07	0.147	1.00	92.2	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Calcium	mg/L	494	502	20.0	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M3
EPA 200.7	Chromium	mg/L	0.908	<0.0060	1.00	90.8	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Cobalt	mg/L	1.06	0.125	1.00	93.1	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Copper	mg/L	0.991	<0.0100	1.00	98.7	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Iron	mg/L	9.23	0.127	10.0	91.0	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Lead	mg/L	0.939	<0.0075	1.00	93.9	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Lithium	mg/L	1.32	0.235	1.00	108	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Magnesium	mg/L	396	394	20.0	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M3
EPA 200.7	Manganese	mg/L	136	138	1.00	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M4
EPA 200.7	Molybdenum	mg/L	0.967	<0.0080	1.00	96.7	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Nickel	mg/L	1.52	0.598	1.00	92.2	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Potassium	mg/L	24.6	4.98	20.0	98.3	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Silver	mg/L	0.0374	<0.0050	0.0500	74.9	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Sodium	mg/L	65.9	49.5	19.0	86.5	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Vanadium	mg/L	0.960	<0.0050	1.00	96.0	70 - 130	X529225 - X5G0241-03	22-Jul-25	
EPA 200.7	Zinc	mg/L	17.1	16.4	1.00	0.30R>S	70 - 130	X529225 - X5G0241-03	22-Jul-25	M3
EPA 200.8	Antimony	mg/L	0.0248	<0.00100	0.0250	99.3	70 - 130	X530106 - X5G0210-01	25-Jul-25	
EPA 200.8	Antimony	mg/L	0.0262	<0.00100	0.0250	105	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Arsenic	mg/L	0.118	0.0872	0.0250	123	70 - 130	X530106 - X5G0210-01	25-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0434	0.0154	0.0250	112	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Selenium	mg/L	0.0335	0.00995	0.0250	94.1	70 - 130	X530106 - X5G0210-01	25-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 6 of 9

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0281**

Reported: 31-Jul-25 16:28

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.8	Selenium	mg/L	0.0263	0.00193	0.0250	97.5	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Thallium	mg/L	0.0273	<0.000200	0.0250	109	70 - 130	X530106 - X5G0210-01	25-Jul-25	
EPA 200.8	Thallium	mg/L	0.0263	<0.000200	0.0250	105	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Uranium	mg/L	1.11	1.07	0.0250	0.30R>S	70 - 130	X530106 - X5G0210-01	25-Jul-25	M3
EPA 200.8	Uranium	mg/L	0.195	0.168	0.0250	106	70 - 130	X530106 - X5G0302-02	25-Jul-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00210	<0.000200	0.00200	105	70 - 130	X529168 - X5G0241-01	23-Jul-25	
EPA 245.1	Mercury	mg/L	0.00210	<0.000200	0.00200	105	70 - 130	X529168 - X5G0284-01	23-Jul-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.100	<0.0050	0.100	100	79 - 121	X530076 - X5G0283-01	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0997	<0.0050	0.100	99.7	90 - 110	X530074 - X5G0318-05	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0988	<0.0050	0.100	98.8	90 - 110	X530074 - X5G0318-03	23-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.964	<0.030	1.00	96.4	90 - 110	X530003 - X5G0283-03	22-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.987	<0.030	1.00	97.2	90 - 110	X530003 - X5G0281-01	22-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0500	<0.0500	0.100	33.1	82 - 118	X530218 - X5G0242-01	25-Jul-25	M4,R2B
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.19	<0.20	3.00	102	90 - 110	X529181 - X5G0283-03	18-Jul-25	
EPA 300.0	Fluoride	mg/L	1.97	<0.100	2.00	98.6	90 - 110	X529181 - X5G0283-03	18-Jul-25	
EPA 300.0	Nitrate as N	mg/L	2.03	<0.050	2.00	100	90 - 110	X529181 - X5G0283-03	18-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.95	<0.100	4.00	98.7	90 - 110	X529181 - X5G0283-03	18-Jul-25	
EPA 300.0	Nitrite as N	mg/L	1.92	<0.050	2.00	95.8	90 - 110	X529181 - X5G0283-03	18-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	9.87	0.30	10.0	95.7	90 - 110	X529181 - X5G0283-03	18-Jul-25	

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	414	408	20.0	2.0	20	130	X529224 - X5G0210-01	
EPA 200.7	Magnesium	mg/L	232	232	20.0	0.1	20	112	X529224 - X5G0210-01	
EPA 200.7	Potassium	mg/L	25.8	25.4	20.0	1.8	20	106	X529224 - X5G0210-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	33.7	32.9	1.00	2.6	20	0.30R>S	X529225 - X5G0241-03	M3
EPA 200.7	Barium	mg/L	1.00	0.976	1.00	2.6	20	97.5	X529225 - X5G0241-03	
EPA 200.7	Beryllium	mg/L	1.00	0.955	1.00	4.8	20	97.3	X529225 - X5G0241-03	
EPA 200.7	Boron	mg/L	1.06	1.03	1.00	3.0	20	101	X529225 - X5G0241-03	
EPA 200.7	Cadmium	mg/L	1.07	1.07	1.00	0.5	20	92.8	X529225 - X5G0241-03	
EPA 200.7	Calcium	mg/L	517	494	20.0	4.6	20	76.6	X529225 - X5G0241-03	
EPA 200.7	Chromium	mg/L	0.940	0.908	1.00	3.5	20	94.0	X529225 - X5G0241-03	
EPA 200.7	Cobalt	mg/L	1.06	1.06	1.00	0.3	20	93.4	X529225 - X5G0241-03	
EPA 200.7	Copper	mg/L	1.01	0.991	1.00	2.4	20	101	X529225 - X5G0241-03	
EPA 200.7	Iron	mg/L	9.69	9.23	10.0	4.9	20	95.7	X529225 - X5G0241-03	
EPA 200.7	Lead	mg/L	0.939	0.939	1.00	0.1	20	93.9	X529225 - X5G0241-03	
EPA 200.7	Lithium	mg/L	1.37	1.32	1.00	4.4	20	114	X529225 - X5G0241-03	
EPA 200.7	Magnesium	mg/L	404	396	20.0	2.0	20	0.30R>S	X529225 - X5G0241-03	M3
EPA 200.7	Manganese	mg/L	137	136	1.00	0.8	20	0.30R>S	X529225 - X5G0241-03	M4
EPA 200.7	Molybdenum	mg/L	0.973	0.967	1.00	0.7	20	97.3	X529225 - X5G0241-03	
EPA 200.7	Nickel	mg/L	1.51	1.52	1.00	0.6	20	91.3	X529225 - X5G0241-03	

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

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0281**

Reported: 31-Jul-25 16:28

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Potassium	mg/L	25.6	24.6	20.0	3.7	20	103	X529225 - X5G0241-03	
EPA 200.7	Silver	mg/L	0.0364	0.0374	0.0500	2.9	20	72.7	X529225 - X5G0241-03	
EPA 200.7	Sodium	mg/L	68.5	65.9	19.0	3.8	20	100	X529225 - X5G0241-03	
EPA 200.7	Vanadium	mg/L	0.991	0.960	1.00	3.1	20	99.1	X529225 - X5G0241-03	
EPA 200.7	Zinc	mg/L	17.1	17.1	1.00	0.1	20	0.30R>S	X529225 - X5G0241-03	M3
EPA 200.8	Antimony	mg/L	0.0244	0.0248	0.0250	1.6	20	97.7	X530106 - X5G0210-01	
EPA 200.8	Arsenic	mg/L	0.114	0.118	0.0250	3.9	20	106	X530106 - X5G0210-01	
EPA 200.8	Selenium	mg/L	0.0324	0.0335	0.0250	3.1	20	90.0	X530106 - X5G0210-01	
EPA 200.8	Thallium	mg/L	0.0262	0.0273	0.0250	4.1	20	105	X530106 - X5G0210-01	
EPA 200.8	Uranium	mg/L	1.09	1.11	0.0250	1.4	20	90.2	X530106 - X5G0210-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00214	0.00210	0.00200	1.8	20	107	X529168 - X5G0241-01	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.103	0.100	0.100	2.7	11	103	X530076 - X5G0283-01	
EPA 335.4	Cyanide (total)	mg/L	0.104	0.0997	0.100	4.2	20	104	X530074 - X5G0318-05	
EPA 350.1	Ammonia as N	mg/L	0.978	0.964	1.00	1.5	20	97.8	X530003 - X5G0283-03	
OIA 1677	Cyanide (WAD)	mg/L	0.0747	<0.0500	0.100	77.2	11	74.7	X530218 - X5G0242-01	M4,R2B
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.13	3.19	3.00	2.2	20	99.5	X529181 - X5G0283-03	
EPA 300.0	Fluoride	mg/L	1.98	1.97	2.00	0.7	20	99.2	X529181 - X5G0283-03	
EPA 300.0	Nitrate as N	mg/L	2.04	2.03	2.00	0.3	20	101	X529181 - X5G0283-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.05	3.95	4.00	2.6	20	101	X529181 - X5G0283-03	
EPA 300.0	Nitrite as N	mg/L	2.01	1.92	2.00	5.0	20	101	X529181 - X5G0283-03	
EPA 300.0	Sulfate as SO4	mg/L	9.97	9.87	10.0	1.0	20	96.7	X529181 - X5G0283-03	



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0281**

Reported: 31-Jul-25 16:28

Notes and Definitions

H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
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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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0302**

Reported: 01-Aug-25 12:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-36	X5G0302-01	Ground Water	17-Jul-25 09:00	JC	18-Jul-2025	Q5
GVMW-27	X5G0302-02	Ground Water	17-Jul-25 11:30	JC	18-Jul-2025	
Seep-1	X5G0302-03	Ground Water	17-Jul-25 07:55	JC	18-Jul-2025	Q5C
Seep-2	X5G0302-04	Ground Water	17-Jul-25 08:15	JC	18-Jul-2025	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: X5G0302

The state of origin only accredits for drinking water analyses.

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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0302**

Reported: 01-Aug-25 12:35

Client Sample ID: **GVMW-36**

Sampled: 17-Jul-25 09:00

SVL Sample ID: **X5G0302-01 (Ground Water)**

Received: 18-Jul-25

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	395	mg/L	0.100	0.069		X530020	SJN	07/22/25 12:35	
EPA 200.7	Magnesium	356	mg/L	0.500	0.090		X530020	SJN	07/22/25 12:35	
EPA 200.7	Potassium	4.11	mg/L	0.50	0.18		X530020	SJN	07/22/25 12:35	
SM 2340 B	Hardness (as CaCO3)	2560	mg/L	2.31	0.543		N/A		07/28/25 08:25	

Metals (Dissolved)

EPA 200.7	Aluminum	519	mg/L	0.080	0.054		X530249	MAC	07/28/25 08:25	M3
EPA 200.7	Barium	0.0136	mg/L	0.0020	0.0019		X530249	MAC	07/28/25 08:25	
EPA 200.7	Beryllium	0.128	mg/L	0.00200	0.00080		X530249	MAC	07/28/25 08:25	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X530249	MAC	07/28/25 08:25	
EPA 200.7	Cadmium	1.03	mg/L	0.0020	0.0016		X530249	MAC	07/28/25 08:25	
EPA 200.7	Calcium	437	mg/L	0.100	0.069		X530249	MAC	07/28/25 08:25	B7
EPA 200.7	Chromium	0.117	mg/L	0.0060	0.0020		X530249	MAC	07/28/25 08:25	
EPA 200.7	Cobalt	2.48	mg/L	0.0060	0.0046		X530249	MAC	07/28/25 08:25	
EPA 200.7	Copper	2.16	mg/L	0.0100	0.0027		X530249	MAC	07/28/25 08:25	
EPA 200.7	Iron	7.13	mg/L	0.100	0.056		X530249	MAC	07/28/25 08:25	
EPA 200.7	Lead	0.0501	mg/L	0.0075	0.0049		X530249	MAC	07/28/25 08:25	
EPA 200.7	Lithium	0.301	mg/L	0.040	0.025		X530249	MAC	07/28/25 08:25	M1
EPA 200.7	Magnesium	380	mg/L	0.500	0.090		X530249	MAC	07/28/25 08:25	
EPA 200.7	Manganese	121	mg/L	0.0800	0.0340	10	X530249	MAC	07/28/25 09:28	
EPA 200.7	Molybdenum	0.0155	mg/L	0.0080	0.0034		X530249	MAC	07/28/25 08:25	
EPA 200.7	Nickel	2.24	mg/L	0.0100	0.0048		X530249	MAC	07/28/25 08:25	
EPA 200.7	Potassium	3.02	mg/L	0.50	0.18		X530249	MAC	07/28/25 08:25	
EPA 200.7	Silver	0.0071	mg/L	0.0050	0.0019		X530249	MAC	07/28/25 08:25	
EPA 200.7	Sodium	23.9	mg/L	0.50	0.12		X530249	MAC	07/28/25 08:25	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X530249	MAC	07/28/25 08:25	M2
EPA 200.7	Zinc	51.2	mg/L	0.100	0.0540	10	X530249	MAC	07/28/25 09:28	M4
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X530106	SMU	07/25/25 13:13	
EPA 200.8	Arsenic	0.0430	mg/L	0.00100	0.00021		X530106	SMU	07/25/25 13:13	
EPA 200.8	Selenium	0.00975	mg/L	0.00100	0.00024		X530106	SMU	07/25/25 13:13	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X530106	SMU	07/25/25 13:13	
EPA 200.8	Uranium	2.08	mg/L	0.000100	0.000052		X530106	SMU	07/25/25 13:13	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X530088	MAC	07/23/25 14:47	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X530076	HJL	07/23/25 19:00	
EPA 335.4	Cyanide (total)	0.0177	mg/L	0.0050	0.0038		X531083	ORW	07/30/25 11:30	M2
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X530004	ORW	07/22/25 15:05	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X530218	JPM	07/25/25 17:00	
SM 2310 B	Acidity to pH 8.3	2990	mg/L as CaCO3	10.0			X531007	MWD	07/28/25 10:50	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:03	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:03	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:03	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:03	
SM 2540 C	Total Diss. Solids	7820	mg/L	40			X529236	TJL	07/22/25 14:00	
SM 2540 D	Total Susp. Solids	16.0	mg/L	5.0			X529237	TJL	07/22/25 12:25	
SM 4500 H B	pH @23.3°C	3.3	pH Units				X530131	MWD	07/23/25 14:03	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0302 Reported: 01-Aug-25 12:35
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Client Sample ID: **GVMW-36**
SVL Sample ID: **X5G0302-01 (Ground Water)**

Sampled: 17-Jul-25 09:00
Received: 18-Jul-25
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	10.3	mg/L	1.00	0.11	5	X529233	RS	07/18/25 15:19	D18
EPA 300.0	Fluoride	67.5	mg/L	10.0	1.70	100	X529233	GMD	07/25/25 18:01	
EPA 300.0	Nitrate as N	3.58	mg/L	0.250	0.065	5	X529233	RS	07/18/25 15:19	D18
EPA 300.0	Nitrate+Nitrite as N	3.61	mg/L	0.500	0.220	5	X529233	RS	07/18/25 15:19	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X529233	RS	07/18/25 15:19	D18
EPA 300.0	Sulfate as SO4	5500	mg/L	75.0	45.0	250	X529233	GMD	07/28/25 20:14	

Cation/Anion Balance and TDS Ratios

Cation Sum: 114 meq/L	Anion Sum: 119 meq/L	C/A Balance: -1.91 %	Calculated TDS: 6405	TDS/cTDS: 1.22
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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

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0302**

Reported: 01-Aug-25 12:35

Client Sample ID: **GVMW-27**

Sampled: 17-Jul-25 11:30

SVL Sample ID: **X5G0302-02 (Ground Water)**

Received: 18-Jul-25

Sampled By: JC

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	263	mg/L	0.100	0.069		X530020	SJN	07/22/25 12:40	
EPA 200.7	Magnesium	84.4	mg/L	0.500	0.090		X530020	SJN	07/22/25 12:40	
EPA 200.7	Potassium	4.29	mg/L	0.50	0.18		X530020	SJN	07/22/25 12:40	
SM 2340 B	Hardness (as CaCO3)	1030	mg/L	2.31	0.543		N/A		07/22/25 12:40	

Metals (Dissolved)

EPA 200.7	Aluminum	53.2	mg/L	0.080	0.054		X530249	MAC	07/28/25 08:30	
EPA 200.7	Barium	0.0144	mg/L	0.0020	0.0019		X530249	MAC	07/28/25 08:30	
EPA 200.7	Beryllium	0.0620	mg/L	0.00200	0.00080		X530249	MAC	07/28/25 08:30	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X530249	MAC	07/28/25 08:30	
EPA 200.7	Cadmium	0.160	mg/L	0.0020	0.0016		X530249	MAC	07/28/25 08:30	
EPA 200.7	Calcium	276	mg/L	0.100	0.069		X530249	MAC	07/28/25 08:30	B7
EPA 200.7	Chromium	0.0108	mg/L	0.0060	0.0020		X530249	MAC	07/28/25 08:30	
EPA 200.7	Cobalt	0.116	mg/L	0.0060	0.0046		X530249	MAC	07/28/25 08:30	
EPA 200.7	Copper	0.155	mg/L	0.0100	0.0027		X530249	MAC	07/28/25 08:30	
EPA 200.7	Iron	0.750	mg/L	0.100	0.056		X530249	MAC	07/28/25 08:30	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X530249	MAC	07/28/25 08:30	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X530249	MAC	07/28/25 08:30	
EPA 200.7	Magnesium	90.3	mg/L	0.500	0.090		X530249	MAC	07/28/25 08:30	
EPA 200.7	Manganese	30.0	mg/L	0.0080	0.0034		X530249	MAC	07/28/25 08:30	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X530249	MAC	07/28/25 08:30	
EPA 200.7	Nickel	0.281	mg/L	0.0100	0.0048		X530249	MAC	07/28/25 08:30	
EPA 200.7	Potassium	4.02	mg/L	0.50	0.18		X530249	MAC	07/28/25 08:30	
EPA 200.7	Silver	0.0054	mg/L	0.0050	0.0019		X530249	MAC	07/28/25 08:30	
EPA 200.7	Sodium	42.2	mg/L	0.50	0.12		X530249	MAC	07/28/25 08:30	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X530249	MAC	07/28/25 08:30	
EPA 200.7	Zinc	5.86	mg/L	0.0100	0.0054		X530249	MAC	07/28/25 08:30	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X530106	SMU	07/25/25 13:16	
EPA 200.8	Arsenic	0.0154	mg/L	0.00100	0.00021		X530106	SMU	07/25/25 13:16	
EPA 200.8	Selenium	0.00193	mg/L	0.00100	0.00024		X530106	SMU	07/25/25 13:16	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X530106	SMU	07/25/25 13:16	
EPA 200.8	Uranium	0.168	mg/L	0.000100	0.000052		X530106	SMU	07/25/25 13:16	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X530088	MAC	07/23/25 14:49	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X530076	HJL	07/23/25 19:16	
EPA 335.4	Cyanide (total)	0.0095	mg/L	0.0050	0.0038		X531083	ORW	07/30/25 11:32	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X530004	ORW	07/22/25 15:07	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X530218	JPM	07/25/25 17:03	
SM 2310 B	Acidity to pH 8.3	365	mg/L as CaCO3	10.0			X531007	MWD	07/28/25 10:50	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:09	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:09	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:09	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:09	
SM 2540 C	Total Diss. Solids	2000	mg/L	40			X529236	TJL	07/22/25 14:00	
SM 2540 D	Total Susp. Solids	9.0	mg/L	5.0			X529237	TJL	07/22/25 12:25	
SM 4500 H B	pH @23.4°C	4.2	pH Units				X530131	MWD	07/23/25 14:09	H5



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0302 Reported: 01-Aug-25 12:35
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Client Sample ID: **GVMW-27**
SVL Sample ID: **X5G0302-02 (Ground Water)**

Sampled: 17-Jul-25 11:30
Received: 18-Jul-25
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	57.5	mg/L	10.0	1.10	50	X529233	RS	07/18/25 16:08	
EPA 300.0	Fluoride	2.37	mg/L	0.100	0.017		X529233	GMD	07/25/25 18:17	
EPA 300.0	Nitrate as N	1.51	mg/L	0.050	0.013		X529233	RS	07/18/25 15:51	
EPA 300.0	Nitrate+Nitrite as N	1.53	mg/L	0.100	0.044		X529233	RS	07/18/25 15:51	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X529233	RS	07/18/25 15:51	
EPA 300.0	Sulfate as SO4	1330	mg/L	15.0	9.00	50	X529233	RS	07/18/25 16:08	

Cation/Anion Balance and TDS Ratios

Cation Sum: 29.3 meq/L	Anion Sum: 29.6 meq/L	C/A Balance: -0.44 %	Calculated TDS: 1800	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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Kellogg, ID 83837-0929

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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0302**

Reported: 01-Aug-25 12:35

Client Sample ID: **Seep-1**

Sampled: 17-Jul-25 07:55

Received: 18-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0302-03 (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	466	mg/L	2.00	1.38	20	X530020	SJN	07/22/25 12:53	D11,D18
EPA 200.7	Magnesium	1150	mg/L	10.0	1.80	20	X530020	SJN	07/22/25 12:53	D11,D18
EPA 200.7	Potassium	< 10.0	mg/L	10.0	3.60	20	X530020	SJN	07/22/25 12:53	D11,D18
SM 2340 B	Hardness (as CaCO3)	5890	mg/L	46.2	10.9		N/A		07/28/25 08:32	

Metals (Dissolved)

EPA 200.7	Aluminum	5630	mg/L	1.60	1.08	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Barium	0.0679	mg/L	0.0400	0.0380	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Beryllium	0.774	mg/L	0.0400	0.0160	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Boron	< 0.800	mg/L	0.800	0.156	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Cadmium	14.2	mg/L	0.0400	0.0320	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Calcium	481	mg/L	2.00	1.38	20	X530249	MAC	07/28/25 08:32	B7,D11,D18
EPA 200.7	Chromium	1.49	mg/L	0.120	0.0400	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Cobalt	15.1	mg/L	0.120	0.0920	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Copper	27.9	mg/L	0.200	0.0540	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Iron	1960	mg/L	2.00	1.12	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Lead	< 0.150	mg/L	0.150	0.0980	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Lithium	0.883	mg/L	0.800	0.500	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Magnesium	1200	mg/L	10.0	1.80	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Manganese	1430	mg/L	0.160	0.0680	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Molybdenum	< 0.160	mg/L	0.160	0.0680	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Nickel	11.8	mg/L	0.200	0.0960	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Potassium	< 10.0	mg/L	10.0	3.60	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Silver	0.211	mg/L	0.100	0.0380	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Sodium	47.7	mg/L	10.0	2.40	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Vanadium	< 0.100	mg/L	0.100	0.0380	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.7	Zinc	266	mg/L	0.200	0.108	20	X530249	MAC	07/28/25 08:32	D11,D18
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X530106	SMU	07/25/25 13:23	D11
EPA 200.8	Arsenic	1.11	mg/L	0.100	0.0210	100	X530106	SMU	07/25/25 13:23	D11
EPA 200.8	Selenium	< 0.100	mg/L	0.100	0.0240	100	X530106	SMU	07/25/25 13:23	D11
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X530106	SMU	07/25/25 13:23	D11
EPA 200.8	Uranium	18.0	mg/L	0.0100	0.00520	100	X530106	SMU	07/25/25 13:23	D11

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X530088	MAC	07/23/25 14:51	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X530076	HJL	07/23/25 19:18	
EPA 335.4	Cyanide (total)	0.0742	mg/L	0.0050	0.0038		X531083	ORW	07/30/25 11:43	
EPA 350.1	Ammonia as N	0.381	mg/L	0.150	0.064	5	X530004	ORW	07/22/25 15:10	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X530218	JPM	07/25/25 17:06	Q12
SM 2310 B	Acidity to pH 8.3	35000	mg/L as CaCO3	10.0			X531007	MWD	07/28/25 10:50	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:13	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:13	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:13	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:13	
SM 2540 C	Total Diss. Solids	68600	mg/L	100			X529236	TJL	07/22/25 14:00	E11
SM 2540 D	Total Susp. Solids	331	mg/L	5.0			X529237	TJL	07/22/25 12:25	
SM 4500 H B	pH @23.4°C	2.5	pH Units				X530131	MWD	07/23/25 14:13	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



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0302 Reported: 01-Aug-25 12:35
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Client Sample ID: **Seep-1**
SVL Sample ID: **X5G0302-03 (Ground Water)**

Sampled: 17-Jul-25 07:55
Received: 18-Jul-25
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	15.3	mg/L	10.0	1.10	50	X529233	RS	07/18/25 16:24	
EPA 300.0	Fluoride	197	mg/L	5.00	0.850	50	X529233	GMD	07/25/25 18:48	
EPA 300.0	Nitrate as N	10.2	mg/L	2.50	0.650	50	X529233	RS	07/18/25 16:24	
EPA 300.0	Nitrate+Nitrite as N	10.2	mg/L	5.00	2.20	50	X529233	RS	07/18/25 16:24	
EPA 300.0	Nitrite as N	< 2.50	mg/L	2.50	1.55	50	X529233	RS	07/18/25 16:24	D18
EPA 300.0	Sulfate as SO4	49000	mg/L	300	180	1000	X529233	RS	07/18/25 16:40	

Cation/Anion Balance and TDS Ratios

Cation Sum: 878 meq/L	Anion Sum: 1,032 meq/L	C/A Balance: -8.07 %	Calculated TDS: 50954	TDS/cTDS: 1.35
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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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0302**

Reported: 01-Aug-25 12:35

Client Sample ID: **Seep-2**SVL Sample ID: **X5G0302-04 (Ground Water)**

Sampled: 17-Jul-25 08:15

Received: 18-Jul-25

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	507	mg/L	2.00	1.38	20	X530020	SJN	07/22/25 12:58	D11,D18
EPA 200.7	Magnesium	1940	mg/L	10.0	1.80	20	X530020	SJN	07/22/25 12:58	D11,D18
EPA 200.7	Potassium	< 10.0	mg/L	10.0	3.60	20	X530020	SJN	07/22/25 12:58	D11,D18
SM 2340 B	Hardness (as CaCO3)	9960	mg/L	231	54.3		N/A		07/22/25 12:58	

Metals (Dissolved)

EPA 200.7	Aluminum	14700	mg/L	8.00	5.40	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Barium	< 0.200	mg/L	0.200	0.190	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Beryllium	1.24	mg/L	0.200	0.0800	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Boron	< 4.00	mg/L	4.00	0.780	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Cadmium	67.6	mg/L	0.200	0.160	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Calcium	555	mg/L	10.0	6.90	100	X530249	MAC	07/28/25 08:34	B7,D11,D18
EPA 200.7	Chromium	4.69	mg/L	0.600	0.200	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Cobalt	38.7	mg/L	0.600	0.460	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Copper	156	mg/L	1.00	0.270	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Iron	9750	mg/L	10.0	5.60	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Lead	< 0.750	mg/L	0.750	0.490	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Lithium	4.23	mg/L	4.00	2.50	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Magnesium	2080	mg/L	50.0	9.00	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Manganese	6180	mg/L	0.800	0.340	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Molybdenum	< 0.800	mg/L	0.800	0.340	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Nickel	24.2	mg/L	1.00	0.480	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Potassium	< 50.0	mg/L	50.0	18.0	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Silver	0.522	mg/L	0.500	0.190	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Sodium	< 50.0	mg/L	50.0	12.0	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Vanadium	< 0.500	mg/L	0.500	0.190	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.7	Zinc	2870	mg/L	1.00	0.540	100	X530249	MAC	07/28/25 08:34	D11,D18
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X530106	SMU	07/25/25 13:26	D11
EPA 200.8	Arsenic	14.1	mg/L	0.100	0.0210	100	X530106	SMU	07/25/25 13:26	D11
EPA 200.8	Selenium	0.204	mg/L	0.100	0.0240	100	X530106	SMU	07/25/25 13:26	D11
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X530106	SMU	07/25/25 13:26	D11
EPA 200.8	Uranium	114	mg/L	0.0100	0.00520	100	X530106	SMU	07/25/25 13:26	D11

Metals (Filtered)

EPA 245.1	Mercury	0.000249	mg/L	0.000200	0.000093		X530088	MAC	07/23/25 14:54	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X530076	HJL	07/23/25 19:21	
EPA 335.4	Cyanide (total)	0.0190	mg/L	0.0050	0.0038		X531083	ORW	07/30/25 11:45	
EPA 350.1	Ammonia as N	3.19	mg/L	0.150	0.064	5	X530004	ORW	07/22/25 15:13	
OIA 1677	Cyanide (WAD)	< 0.0500	mg/L	0.0500	0.0100	10	X530218	JPM	07/25/25 17:09	Q12
SM 2310 B	Acidity to pH 8.3	107000	mg/L as CaCO3	10.0			X531007	MWD	07/28/25 10:50	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:17	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:17	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:17	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X530131	MWD	07/23/25 14:17	
SM 2540 C	Total Diss. Solids	143000	mg/L	100			X529236	TJL	07/22/25 14:00	E11
SM 2540 D	Total Susp. Solids	392	mg/L	5.0			X529237	TJL	07/22/25 12:25	
SM 4500 H B	pH @23.5°C	2.2	pH Units				X530131	MWD	07/23/25 14:17	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

Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0302 Reported: 01-Aug-25 12:35
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Client Sample ID: **Seep-2**
SVL Sample ID: **X5G0302-04 (Ground Water)**

Sampled: 17-Jul-25 08:15
Received: 18-Jul-25
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	< 20.0	mg/L	20.0	2.20	100	X529233	RS	07/18/25 16:57	D18
EPA 300.0	Fluoride	1720	mg/L	250	42.5	2500	X529233	GMD	07/25/25 19:35	
EPA 300.0	Nitrate as N	10.3	mg/L	5.00	1.30	100	X529233	RS	07/18/25 16:57	
EPA 300.0	Nitrate+Nitrite as N	10.3	mg/L	10.0	4.40	100	X529233	RS	07/18/25 16:57	
EPA 300.0	Nitrite as N	< 5.00	mg/L	5.00	3.10	100	X529233	RS	07/18/25 16:57	D18
EPA 300.0	Sulfate as SO4	132000	mg/L	1500	900	5000	X529233	GMD	07/28/25 20:32	

Cation/Anion Balance and TDS Ratios

Cation Sum: 2,488 meq/L	Anion Sum: 2,840 meq/L	C/A Balance: -6.59 %	Calculated TDS: 136307	TDS/cTDS: 1.05
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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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0302**

Reported: 01-Aug-25 12:35

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	X530020	22-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X530020	22-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X530020	22-Jul-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X530249	28-Jul-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X530249	28-Jul-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X530249	28-Jul-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X530249	28-Jul-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X530249	28-Jul-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X530249	28-Jul-25	B7
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X530249	28-Jul-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X530249	28-Jul-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X530249	28-Jul-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X530249	28-Jul-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X530249	28-Jul-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X530249	28-Jul-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X530249	28-Jul-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X530249	28-Jul-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X530249	28-Jul-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X530249	28-Jul-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X530249	28-Jul-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X530249	28-Jul-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X530249	28-Jul-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X530249	28-Jul-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X530249	28-Jul-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X530106	25-Jul-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X530106	25-Jul-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X530106	25-Jul-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X530106	25-Jul-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X530106	25-Jul-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X530088	23-Jul-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X530076	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X531083	30-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X530004	22-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X530218	25-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X531007	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X530131	23-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X530131	23-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X530131	23-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X530131	23-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X529236	22-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X529237	22-Jul-25	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X529233	25-Jul-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X529233	25-Jul-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X529233	18-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X529233	18-Jul-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X529233	18-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X529233	18-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 10 of 15



One Government Gulch - PO Box 929

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(208) 784-1258

www.svl.net
Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0302**

Reported: 01-Aug-25 12:35

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	20.0	20.0	100	85 - 115	X530020	22-Jul-25	
EPA 200.7	Magnesium	mg/L	19.7	20.0	98.3	85 - 115	X530020	22-Jul-25	
EPA 200.7	Potassium	mg/L	20.3	20.0	101	85 - 115	X530020	22-Jul-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.00	1.00	100	85 - 115	X530249	28-Jul-25	
EPA 200.7	Barium	mg/L	1.00	1.00	100	85 - 115	X530249	28-Jul-25	
EPA 200.7	Beryllium	mg/L	0.980	1.00	98.0	85 - 115	X530249	28-Jul-25	
EPA 200.7	Boron	mg/L	1.02	1.00	102	85 - 115	X530249	28-Jul-25	
EPA 200.7	Cadmium	mg/L	0.960	1.00	96.0	85 - 115	X530249	28-Jul-25	
EPA 200.7	Calcium	mg/L	19.9	20.0	99.4	85 - 115	X530249	28-Jul-25	
EPA 200.7	Chromium	mg/L	0.987	1.00	98.7	85 - 115	X530249	28-Jul-25	
EPA 200.7	Cobalt	mg/L	0.944	1.00	94.4	85 - 115	X530249	28-Jul-25	
EPA 200.7	Copper	mg/L	0.939	1.00	93.9	85 - 115	X530249	28-Jul-25	
EPA 200.7	Iron	mg/L	9.91	10.0	99.1	85 - 115	X530249	28-Jul-25	
EPA 200.7	Lead	mg/L	0.963	1.00	96.3	85 - 115	X530249	28-Jul-25	
EPA 200.7	Lithium	mg/L	0.984	1.00	98.4	85 - 115	X530249	28-Jul-25	
EPA 200.7	Magnesium	mg/L	19.8	20.0	99.0	85 - 115	X530249	28-Jul-25	
EPA 200.7	Manganese	mg/L	0.979	1.00	97.9	85 - 115	X530249	28-Jul-25	
EPA 200.7	Molybdenum	mg/L	1.01	1.00	101	85 - 115	X530249	28-Jul-25	
EPA 200.7	Nickel	mg/L	0.948	1.00	94.8	85 - 115	X530249	28-Jul-25	
EPA 200.7	Potassium	mg/L	20.3	20.0	101	85 - 115	X530249	28-Jul-25	
EPA 200.7	Silver	mg/L	0.0518	0.0500	104	85 - 115	X530249	28-Jul-25	
EPA 200.7	Sodium	mg/L	19.0	19.0	99.8	85 - 115	X530249	28-Jul-25	
EPA 200.7	Vanadium	mg/L	0.996	1.00	99.6	85 - 115	X530249	28-Jul-25	
EPA 200.7	Zinc	mg/L	0.995	1.00	99.5	85 - 115	X530249	28-Jul-25	
EPA 200.8	Antimony	mg/L	0.0244	0.0250	97.5	85 - 115	X530106	25-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0240	0.0250	95.8	85 - 115	X530106	25-Jul-25	
EPA 200.8	Selenium	mg/L	0.0226	0.0250	90.6	85 - 115	X530106	25-Jul-25	
EPA 200.8	Thallium	mg/L	0.0245	0.0250	98.0	85 - 115	X530106	25-Jul-25	
EPA 200.8	Uranium	mg/L	0.0257	0.0250	103	85 - 115	X530106	25-Jul-25	

B7

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00211	0.00200	106	85 - 115	X530088	23-Jul-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0960	0.100	96.0	90 - 110	X530076	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X531083	30-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.976	1.00	97.6	90 - 110	X530004	22-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.104	0.100	104	90 - 110	X530218	25-Jul-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1160	1180	98.3	95.4 - 104	X531007	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	94 - 106	X530131	23-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	235	250	94.0	85 - 115	X529236	22-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X529237	22-Jul-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.95	3.00	98.3	90 - 110	X529233	18-Jul-25	
EPA 300.0	Fluoride	mg/L	1.95	2.00	97.3	90 - 110	X529233	25-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.96	2.00	98.0	90 - 110	X529233	18-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.46	4.50	99.2	90 - 110	X529233	18-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.50	2.50	100	90 - 110	X529233	18-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	9.61	10.0	96.1	90 - 110	X529233	18-Jul-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0302**

Reported: 01-Aug-25 12:35

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	2250	2270	0.8	20	X531007 - X5G0210-01	28-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X530131 - X5G0302-02	23-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X530131 - X5G0302-02	23-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X530131 - X5G0302-02	23-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X530131 - X5G0302-02	23-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	168	173	2.9	10	X529236 - X5G0290-02	22-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	1940	2000	2.9	10	X529236 - X5G0302-02	22-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	9.0	0.0	10	X529237 - X5G0302-02	22-Jul-25	
SM 4500 H B	pH @23.3°C	pH Units	4.2	4.2	1.0	20	X530131 - X5G0302-02	23-Jul-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	19.3	<0.100	20.0	96	70 - 130	X530020 - X5G0295-01	22-Jul-25	
EPA 200.7	Calcium	mg/L	220	199	20.0	107	70 - 130	X530020 - X5G0320-03	22-Jul-25	
EPA 200.7	Magnesium	mg/L	19.2	<0.500	20.0	96.2	70 - 130	X530020 - X5G0295-01	22-Jul-25	
EPA 200.7	Magnesium	mg/L	49.9	31.3	20.0	93.0	70 - 130	X530020 - X5G0320-03	22-Jul-25	
EPA 200.7	Potassium	mg/L	19.8	<0.50	20.0	99.1	70 - 130	X530020 - X5G0295-01	22-Jul-25	
EPA 200.7	Potassium	mg/L	27.7	5.68	20.0	110	70 - 130	X530020 - X5G0320-03	22-Jul-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	523	519	1.00	0.30R>S	70 - 130	X530249 - X5G0302-01	28-Jul-25	M3
EPA 200.7	Aluminum	mg/L	1.04	<0.080	1.00	104	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Barium	mg/L	0.992	0.0136	1.00	97.9	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Barium	mg/L	1.02	0.0088	1.00	101	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Beryllium	mg/L	1.17	0.128	1.00	105	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Beryllium	mg/L	1.01	<0.00200	1.00	101	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Boron	mg/L	1.09	<0.0400	1.00	108	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Boron	mg/L	1.08	<0.0400	1.00	106	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Cadmium	mg/L	1.98	1.03	1.00	95.4	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Cadmium	mg/L	0.982	<0.0020	1.00	98.2	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Calcium	mg/L	461	437	20.0	119	70 - 130	X530249 - X5G0302-01	28-Jul-25	B7
EPA 200.7	Calcium	mg/L	60.5	40.0	20.0	103	70 - 130	X530249 - X5G0383-02	28-Jul-25	B7
EPA 200.7	Chromium	mg/L	1.10	0.117	1.00	98.1	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Chromium	mg/L	1.01	<0.0060	1.00	101	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Cobalt	mg/L	3.42	2.48	1.00	93.6	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Cobalt	mg/L	0.955	<0.0060	1.00	95.5	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Copper	mg/L	3.30	2.16	1.00	114	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Copper	mg/L	0.955	<0.0100	1.00	95.5	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Iron	mg/L	17.3	7.13	10.0	102	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	101	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Lead	mg/L	1.04	0.0501	1.00	98.6	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Lead	mg/L	0.976	<0.0075	1.00	97.6	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Lithium	mg/L	1.66	0.301	1.00	136	70 - 130	X530249 - X5G0302-01	28-Jul-25	M1
EPA 200.7	Lithium	mg/L	1.05	<0.040	1.00	105	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Magnesium	mg/L	401	380	20.0	105	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Magnesium	mg/L	24.4	3.89	20.0	102	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Manganese	mg/L	1.00	<0.0080	1.00	99.9	70 - 130	X530249 - X5G0383-02	28-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 12 of 15

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0302**

Reported: 01-Aug-25 12:35

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Dissolved) (Continued)										
EPA 200.7	Manganese	mg/L	122	121	1.00	71.1	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Molybdenum	mg/L	1.03	0.0155	1.00	101	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Molybdenum	mg/L	1.04	<0.0080	1.00	103	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Nickel	mg/L	3.19	2.24	1.00	94.9	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Nickel	mg/L	0.972	0.0158	1.00	95.6	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Potassium	mg/L	24.9	3.02	20.0	110	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Potassium	mg/L	22.2	1.51	20.0	103	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Silver	mg/L	0.0637	0.0071	0.0500	113	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Silver	mg/L	0.0523	<0.0050	0.0500	105	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Sodium	mg/L	44.8	23.9	19.0	110	70 - 130	X530249 - X5G0302-01	28-Jul-25	
EPA 200.7	Sodium	mg/L	30.6	11.3	19.0	101	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Vanadium	mg/L	0.468	<0.0050	1.00	46.8	70 - 130	X530249 - X5G0302-01	28-Jul-25	M2
EPA 200.7	Vanadium	mg/L	1.02	<0.0050	1.00	102	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Zinc	mg/L	1.04	<0.0100	1.00	104	70 - 130	X530249 - X5G0383-02	28-Jul-25	
EPA 200.7	Zinc	mg/L	52.0	51.2	1.00	88.5	70 - 130	X530249 - X5G0302-01	28-Jul-25	M4
EPA 200.8	Antimony	mg/L	0.0248	<0.00100	0.0250	99.3	70 - 130	X530106 - X5G0210-01	25-Jul-25	
EPA 200.8	Antimony	mg/L	0.0262	<0.00100	0.0250	105	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Arsenic	mg/L	0.118	0.0872	0.0250	123	70 - 130	X530106 - X5G0210-01	25-Jul-25	
EPA 200.8	Arsenic	mg/L	0.0434	0.0154	0.0250	112	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Selenium	mg/L	0.0335	0.00995	0.0250	94.1	70 - 130	X530106 - X5G0210-01	25-Jul-25	
EPA 200.8	Selenium	mg/L	0.0263	0.00193	0.0250	97.5	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Thallium	mg/L	0.0273	<0.000200	0.0250	109	70 - 130	X530106 - X5G0210-01	25-Jul-25	
EPA 200.8	Thallium	mg/L	0.0263	<0.000200	0.0250	105	70 - 130	X530106 - X5G0302-02	25-Jul-25	
EPA 200.8	Uranium	mg/L	1.11	1.07	0.0250	0.30R>S	70 - 130	X530106 - X5G0210-01	25-Jul-25	M3
EPA 200.8	Uranium	mg/L	0.195	0.168	0.0250	106	70 - 130	X530106 - X5G0302-02	25-Jul-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00212	<0.000200	0.00200	106	70 - 130	X530088 - X5G0283-02	23-Jul-25	
EPA 245.1	Mercury	mg/L	0.00217	<0.000200	0.00200	103	70 - 130	X530088 - X5G0307-01	23-Jul-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.100	<0.0050	0.100	100	79 - 121	X530076 - X5G0283-01	23-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0984	0.0177	0.100	80.7	90 - 110	X531083 - X5G0302-01	30-Jul-25	M2
EPA 335.4	Cyanide (total)	mg/L	0.101	0.0095	0.100	91.2	90 - 110	X531083 - X5G0302-02	30-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.936	<0.030	1.00	93.6	90 - 110	X530004 - X5G0318-05	22-Jul-25	
EPA 350.1	Ammonia as N	mg/L	0.872	<0.030	1.00	87.2	90 - 110	X530004 - X5G0318-02	22-Jul-25	M2
OIA 1677	Cyanide (WAD)	mg/L	<0.0500	<0.0500	0.100	33.1	82 - 118	X530218 - X5G0242-01	25-Jul-25	M4,R2B
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.05	0.24	3.00	93.7	90 - 110	X529233 - X5G0303-01	18-Jul-25	
EPA 300.0	Fluoride	mg/L	2.32	0.439	2.00	93.9	90 - 110	X529233 - X5G0303-01	25-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.95	<0.050	2.00	96.3	90 - 110	X529233 - X5G0303-01	18-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.92	<0.100	4.00	98.1	90 - 110	X529233 - X5G0303-01	18-Jul-25	
EPA 300.0	Nitrite as N	mg/L	1.97	<0.050	2.00	98.6	90 - 110	X529233 - X5G0303-01	18-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	9.99	0.62	10.0	93.8	90 - 110	X529233 - X5G0303-01	18-Jul-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0302**

Reported: 01-Aug-25 12:35

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	19.3	19.3	20.0	0.1	20	96	X530020 - X5G0295-01	
EPA 200.7	Magnesium	mg/L	19.3	19.2	20.0	0.4	20	96.6	X530020 - X5G0295-01	
EPA 200.7	Potassium	mg/L	19.9	19.8	20.0	0.3	20	99.5	X530020 - X5G0295-01	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	526	523	1.00	0.5	20	0.30R>S	X530249 - X5G0302-01	M3
EPA 200.7	Barium	mg/L	0.988	0.992	1.00	0.4	20	97.4	X530249 - X5G0302-01	
EPA 200.7	Beryllium	mg/L	1.16	1.17	1.00	1.0	20	103	X530249 - X5G0302-01	
EPA 200.7	Boron	mg/L	1.09	1.09	1.00	0.3	20	108	X530249 - X5G0302-01	
EPA 200.7	Cadmium	mg/L	1.99	1.98	1.00	0.4	20	96.1	X530249 - X5G0302-01	
EPA 200.7	Calcium	mg/L	457	461	20.0	0.9	20	97.8	X530249 - X5G0302-01	B7
EPA 200.7	Chromium	mg/L	1.09	1.10	1.00	0.4	20	97.6	X530249 - X5G0302-01	
EPA 200.7	Cobalt	mg/L	3.44	3.42	1.00	0.6	20	95.6	X530249 - X5G0302-01	
EPA 200.7	Copper	mg/L	3.29	3.30	1.00	0.3	20	113	X530249 - X5G0302-01	
EPA 200.7	Iron	mg/L	17.1	17.3	10.0	0.9	20	100	X530249 - X5G0302-01	
EPA 200.7	Lead	mg/L	1.04	1.04	1.00	0.3	20	99.0	X530249 - X5G0302-01	
EPA 200.7	Lithium	mg/L	1.66	1.66	1.00	0.1	20	136	X530249 - X5G0302-01	M1
EPA 200.7	Magnesium	mg/L	402	401	20.0	0.3	20	111	X530249 - X5G0302-01	
EPA 200.7	Manganese	mg/L	122	122	1.00	0.2	20	96.5	X530249 - X5G0302-01	
EPA 200.7	Molybdenum	mg/L	1.03	1.03	1.00	0.1	20	101	X530249 - X5G0302-01	
EPA 200.7	Nickel	mg/L	3.21	3.19	1.00	0.7	20	97.0	X530249 - X5G0302-01	
EPA 200.7	Potassium	mg/L	24.7	24.9	20.0	1.1	20	108	X530249 - X5G0302-01	
EPA 200.7	Silver	mg/L	0.0636	0.0637	0.0500	0.2	20	113	X530249 - X5G0302-01	
EPA 200.7	Sodium	mg/L	44.3	44.8	19.0	1.0	20	107	X530249 - X5G0302-01	
EPA 200.7	Vanadium	mg/L	0.457	0.468	1.00	2.2	20	45.7	X530249 - X5G0302-01	M2
EPA 200.7	Zinc	mg/L	52.6	52.0	1.00	1.1	20	0.30R>S	X530249 - X5G0302-01	M4
EPA 200.8	Antimony	mg/L	0.0244	0.0248	0.0250	1.6	20	97.7	X530106 - X5G0210-01	
EPA 200.8	Arsenic	mg/L	0.114	0.118	0.0250	3.9	20	106	X530106 - X5G0210-01	
EPA 200.8	Selenium	mg/L	0.0324	0.0335	0.0250	3.1	20	90.0	X530106 - X5G0210-01	
EPA 200.8	Thallium	mg/L	0.0262	0.0273	0.0250	4.1	20	105	X530106 - X5G0210-01	
EPA 200.8	Uranium	mg/L	1.09	1.11	0.0250	1.4	20	90.2	X530106 - X5G0210-01	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00209	0.00212	0.00200	1.6	20	105	X530088 - X5G0283-02	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.103	0.100	0.100	2.7	11	103	X530076 - X5G0283-01	
EPA 335.4	Cyanide (total)	mg/L	0.105	0.0984	0.100	6.9	20	87.7	X531083 - X5G0302-01	M2
EPA 350.1	Ammonia as N	mg/L	0.808	0.936	1.00	14.7	20	80.8	X530004 - X5G0318-05	M2
OIA 1677	Cyanide (WAD)	mg/L	0.0747	<0.0500	0.100	77.2	11	74.7	X530218 - X5G0242-01	M4,R2B
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.18	3.05	3.00	4.0	20	97.9	X529233 - X5G0303-01	
EPA 300.0	Fluoride	mg/L	2.33	2.32	2.00	0.7	20	94.7	X529233 - X5G0303-01	
EPA 300.0	Nitrate as N	mg/L	1.99	1.95	2.00	1.9	20	98.2	X529233 - X5G0303-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.09	3.92	4.00	4.1	20	102	X529233 - X5G0303-01	
EPA 300.0	Nitrite as N	mg/L	2.10	1.97	2.00	6.3	20	105	X529233 - X5G0303-01	
EPA 300.0	Sulfate as SO4	mg/L	10.2	9.99	10.0	2.5	20	96.3	X529233 - X5G0303-01	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0302**

Reported: 01-Aug-25 12:35

Notes and Definitions

B7	Target analyte detected in method blank at or above method limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
D11	Due to sample color, a sample dilution was performed to minimize spectral interference.
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 <10.
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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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0424**

Reported: 08-Aug-25 09:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GV-06	X5G0424-01	Surface Water	23-Jul-25 12:05	JC	25-Jul-2025	
GV-4.5	X5G0424-02	Surface Water	23-Jul-25 12:35	JC	25-Jul-2025	
GV-05	X5G0424-03	Surface Water	23-Jul-25 13:00	JC	25-Jul-2025	

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: X5G0424

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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Kellogg, ID 83837-0929

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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0424**

Reported: 08-Aug-25 09:13

Client Sample ID: **GV-06**

Sampled: 23-Jul-25 12:05

Received: 25-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0424-01 (Surface Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 1631E	Mercury	2.78	ng/L	0.500	0.120		X531018	SJN	07/31/25 19:39	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X531045	SJN	07/29/25 15:08	U

Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	0.203	mg/L	0.0020	0.0019		X532009	MAC	08/05/25 14:04	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X532009	MAC	08/05/25 14:04	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X532009	MAC	08/05/25 14:04	
EPA 200.7	Calcium	52.1	mg/L	0.100	0.069		X532009	MAC	08/05/25 14:04	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X532009	MAC	08/05/25 14:04	
EPA 200.7	Iron	2.77	mg/L	0.100	0.056		X532009	MAC	08/05/25 14:04	
EPA 200.7	Magnesium	12.6	mg/L	0.500	0.090		X532009	MAC	08/05/25 14:04	
EPA 200.7	Manganese	0.543	mg/L	0.0080	0.0034		X532009	MAC	08/05/25 14:04	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X532009	MAC	08/05/25 14:04	
EPA 200.7	Nickel	0.0101	mg/L	0.0100	0.0048		X532009	MAC	08/05/25 14:04	
EPA 200.7	Phosphorus	0.097	mg/L	0.050	0.013		X532009	MAC	08/05/25 14:04	
EPA 200.7	Potassium	1.67	mg/L	0.50	0.18		X532009	MAC	08/05/25 14:04	
EPA 200.7	Sodium	11.3	mg/L	0.50	0.12		X532009	MAC	08/05/25 14:04	
EPA 200.7	Zinc	0.0197	mg/L	0.0100	0.0054		X532009	MAC	08/05/25 14:04	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X531196	SMU	08/06/25 18:12	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X531196	SMU	08/06/25 18:12	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X531196	SMU	08/06/25 18:12	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X531196	SMU	08/06/25 18:12	
EPA 200.8	Copper	0.00104	mg/L	0.00040	0.00036		X531196	SMU	08/06/25 18:12	
EPA 200.8	Lead	0.00188	mg/L	0.00020	0.00014		X531196	SMU	08/06/25 18:12	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X531196	SMU	08/06/25 18:12	
SM 2340 B	Hardness (as CaCO3)	182	mg/L	2.31	0.543		N/A		08/05/25 14:04	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X530251	MAC	08/06/25 12:59	
EPA 200.7	Barium	0.158	mg/L	0.0020	0.0019		X530251	MAC	08/06/25 10:34	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X530251	MAC	08/06/25 10:34	
EPA 200.7	Calcium	52.2	mg/L	0.100	0.069		X530251	MAC	08/06/25 10:34	
EPA 200.7	Iron	0.129	mg/L	0.100	0.056		X530251	MAC	08/06/25 10:34	
EPA 200.7	Magnesium	12.6	mg/L	0.500	0.090		X530251	MAC	08/06/25 10:34	
EPA 200.7	Manganese	0.393	mg/L	0.0080	0.0034		X530251	MAC	08/06/25 10:34	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X530251	MAC	08/06/25 10:34	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X530251	MAC	08/06/25 10:34	
EPA 200.7	Potassium	1.36	mg/L	0.50	0.18		X530251	MAC	08/06/25 10:34	
EPA 200.7	Sodium	11.5	mg/L	0.50	0.12		X530251	MAC	08/06/25 10:34	
EPA 200.7	Zinc	0.0134	mg/L	0.0100	0.0054		X530251	MAC	08/06/25 10:34	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X531163	SMU	08/06/25 17:18	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X531163	SMU	08/06/25 17:18	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X531163	SMU	08/06/25 17:18	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X531163	SMU	08/06/25 17:18	
EPA 200.8	Copper	0.00041	mg/L	0.00040	0.00036		X531163	SMU	08/06/25 17:18	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X531163	SMU	08/06/25 17:18	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X531163	SMU	08/06/25 17:18	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X531163	SMU	08/06/25 17:18	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X531163	SMU	08/06/25 17:18	
EPA 200.8	Uranium	0.00218	mg/L	0.000100	0.000052		X531163	SMU	08/06/25 17:18	

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

www.svl.net

Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0424**

Reported: 08-Aug-25 09:13

Client Sample ID: **GV-06**

Sampled: 23-Jul-25 12:05

Received: 25-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0424-01 (Surface Water)**

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X531086	ORW	07/30/25 16:16	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		08/05/25 14:04	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X531083	ORW	07/30/25 11:58	
EPA 350.1	Ammonia as N	0.034	mg/L	0.030	0.013		X531182	ORW	08/01/25 14:02	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X531134	ORW	07/31/25 13:12	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X531242	ORW	08/01/25 15:11	
SM 2310 B	Acidity to pH 8.3	-106	mg/L as CaCO3	10.0			X532006	MWD	08/04/25 11:57	
SM 2320 B	Total Alkalinity	109	mg/L as CaCO3	1.0			X531089	MWD	07/31/25 12:57	
SM 2320 B	Bicarbonate	109	mg/L as CaCO3	1.0			X531089	MWD	07/31/25 12:57	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X531089	MWD	07/31/25 12:57	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X531089	MWD	07/31/25 12:57	
SM 2540 C	Total Diss. Solids	269	mg/L	10			X531046	TJL	07/30/25 13:10	
SM 2540 D	Total Susp. Solids	8.0	mg/L	5.0			X531048	ARS	07/30/25 12:20	
SM 4500 H B	pH @24.7°C	7.8	pH Units				X531089	MWD	07/31/25 12:57	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X531014	CND	07/28/25 12:55	
SM 4500-O-G	Dissolved Oxygen	8.6	mg/L	0.1			X532038	TJL	08/04/25 11:30	H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X531185	CND	07/31/25 17:00	
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Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		08/06/25 17:18	
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Anions by Ion Chromatography

EPA 300.0	Chloride	7.53	mg/L	0.20	0.02		X530220	GMD	07/25/25 11:34	
EPA 300.0	Fluoride	0.451	mg/L	0.100	0.017		X530220	GMD	07/25/25 11:34	
EPA 300.0	Nitrate as N	0.149	mg/L	0.050	0.013		X530220	GMD	07/25/25 11:34	H3
EPA 300.0	Nitrate+Nitrite as N	0.154	mg/L	0.100	0.044		X530220	GMD	07/25/25 11:34	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X530220	GMD	07/25/25 11:34	H3
EPA 300.0	Sulfate as SO4	89.1	mg/L	3.00	1.80	10	X530220	GMD	07/25/25 11:49	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.19 meq/L	Anion Sum: 4.28 meq/L	C/A Balance: -1.03 %	Calculated TDS: 241	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

Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0424**

Reported: 08-Aug-25 09:13

Client Sample ID: **GV-4.5**

Sampled: 23-Jul-25 12:35

Received: 25-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0424-02 (Surface Water)**

Sample Report Page 1 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 1631E	Mercury	1.80	ng/L	0.500	0.120		X531018	SJN	07/31/25 19:44	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X531045	SJN	07/29/25 15:15	U

Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	0.0975	mg/L	0.0020	0.0019		X532009	MAC	08/05/25 14:06	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X532009	MAC	08/05/25 14:06	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X532009	MAC	08/05/25 14:06	
EPA 200.7	Calcium	42.7	mg/L	0.100	0.069		X532009	MAC	08/05/25 14:06	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X532009	MAC	08/05/25 14:06	
EPA 200.7	Iron	6.43	mg/L	0.100	0.056		X532009	MAC	08/05/25 14:06	
EPA 200.7	Magnesium	9.77	mg/L	0.500	0.090		X532009	MAC	08/05/25 14:06	
EPA 200.7	Manganese	0.584	mg/L	0.0080	0.0034		X532009	MAC	08/05/25 14:06	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X532009	MAC	08/05/25 14:06	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X532009	MAC	08/05/25 14:06	
EPA 200.7	Phosphorus	0.092	mg/L	0.050	0.013		X532009	MAC	08/05/25 14:06	
EPA 200.7	Potassium	1.41	mg/L	0.50	0.18		X532009	MAC	08/05/25 14:06	
EPA 200.7	Sodium	13.8	mg/L	0.50	0.12		X532009	MAC	08/05/25 14:06	
EPA 200.7	Zinc	0.0151	mg/L	0.0100	0.0054		X532009	MAC	08/05/25 14:06	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X531196	SMU	08/06/25 18:15	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X531196	SMU	08/06/25 18:15	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X531196	SMU	08/06/25 18:15	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X531196	SMU	08/06/25 18:15	
EPA 200.8	Copper	0.00123	mg/L	0.00040	0.00036		X531196	SMU	08/06/25 18:15	
EPA 200.8	Lead	0.00050	mg/L	0.00020	0.00014		X531196	SMU	08/06/25 18:15	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X531196	SMU	08/06/25 18:15	
SM 2340 B	Hardness (as CaCO3)	147	mg/L	2.31	0.543		N/A		08/06/25 10:36	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X530251	MAC	08/06/25 13:09	
EPA 200.7	Barium	0.0951	mg/L	0.0020	0.0019		X530251	MAC	08/06/25 10:36	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X530251	MAC	08/06/25 10:36	
EPA 200.7	Calcium	44.1	mg/L	0.100	0.069		X530251	MAC	08/06/25 10:36	
EPA 200.7	Iron	1.78	mg/L	0.100	0.056		X530251	MAC	08/06/25 10:36	
EPA 200.7	Magnesium	10.2	mg/L	0.500	0.090		X530251	MAC	08/06/25 10:36	
EPA 200.7	Manganese	0.594	mg/L	0.0080	0.0034		X530251	MAC	08/06/25 10:36	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X530251	MAC	08/06/25 10:36	
EPA 200.7	Nickel	0.0105	mg/L	0.0100	0.0048		X530251	MAC	08/06/25 10:36	
EPA 200.7	Potassium	1.44	mg/L	0.50	0.18		X530251	MAC	08/06/25 10:36	
EPA 200.7	Sodium	14.3	mg/L	0.50	0.12		X530251	MAC	08/06/25 10:36	
EPA 200.7	Zinc	0.0123	mg/L	0.0100	0.0054		X530251	MAC	08/06/25 10:36	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X531163	SMU	08/06/25 17:21	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X531163	SMU	08/06/25 17:21	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X531163	SMU	08/06/25 17:21	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X531163	SMU	08/06/25 17:21	
EPA 200.8	Copper	0.00044	mg/L	0.00040	0.00036		X531163	SMU	08/06/25 17:21	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X531163	SMU	08/06/25 17:21	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X531163	SMU	08/06/25 17:21	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X531163	SMU	08/06/25 17:21	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X531163	SMU	08/06/25 17:21	
EPA 200.8	Uranium	0.000359	mg/L	0.000100	0.000052		X531163	SMU	08/06/25 17:21	

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

Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0424 Reported: 08-Aug-25 09:13
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Client Sample ID: **GV-4.5**
SVL Sample ID: **X5G0424-02 (Surface Water)**

Sampled: 23-Jul-25 12:35
Received: 25-Jul-25
Sampled By: JC

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X531086	ORW	07/30/25 16:19	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		08/05/25 14:06	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X531083	ORW	07/30/25 12:00	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X531182	ORW	08/01/25 14:05	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X531134	ORW	07/31/25 13:14	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X531242	ORW	08/01/25 15:14	
SM 2310 B	Acidity to pH 8.3	-96.7	mg/L as CaCO3	10.0			X532006	MWD	08/04/25 11:57	
SM 2320 B	Total Alkalinity	97.0	mg/L as CaCO3	1.0			X531089	MWD	07/31/25 13:03	
SM 2320 B	Bicarbonate	97.0	mg/L as CaCO3	1.0			X531089	MWD	07/31/25 13:03	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X531089	MWD	07/31/25 13:03	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X531089	MWD	07/31/25 13:03	
SM 2540 C	Total Diss. Solids	241	mg/L	10			X531046	TJL	07/30/25 13:10	
SM 2540 D	Total Susp. Solids	22.0	mg/L	5.0			X531048	ARS	07/30/25 12:20	
SM 4500 H B	pH @24.9°C	7.0	pH Units				X531089	MWD	07/31/25 13:03	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X531014	CND	07/28/25 12:56	
SM 4500-O-G	Dissolved Oxygen	7.7	mg/L	0.1			X532038	TJL	08/04/25 11:30	H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X531185	CND	07/31/25 17:00	
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Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		08/06/25 17:21	
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Anions by Ion Chromatography

EPA 300.0	Chloride	28.2	mg/L	2.00	0.22	10	X530220	GMD	07/25/25 12:20	
EPA 300.0	Fluoride	0.486	mg/L	0.100	0.017		X530220	GMD	07/25/25 12:05	
EPA 300.0	Nitrate as N	0.136	mg/L	0.050	0.013		X530220	GMD	07/25/25 12:05	H3
EPA 300.0	Nitrate+Nitrite as N	0.149	mg/L	0.100	0.044		X530220	GMD	07/25/25 12:05	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X530220	GMD	07/25/25 12:05	H3
EPA 300.0	Sulfate as SO4	49.6	mg/L	0.30	0.18		X530220	GMD	07/25/25 12:05	

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.66 meq/L	Anion Sum: 3.80 meq/L	C/A Balance: -1.85 %	Calculated TDS: 206	TDS/cTDS: 1.17
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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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0424**

Reported: 08-Aug-25 09:13

Client Sample ID: **GV-05**

Sampled: 23-Jul-25 13:00

Received: 25-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0424-03 (Surface Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total)

EPA 1631E	Mercury	1.87	ng/L	0.500	0.120		X531018	SJN	07/31/25 19:59	
EPA 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X531045	SJN	07/29/25 15:17	U

Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	0.0513	mg/L	0.0020	0.0019		X532009	MAC	08/05/25 14:11	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X532009	MAC	08/05/25 14:11	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X532009	MAC	08/05/25 14:11	
EPA 200.7	Calcium	48.2	mg/L	0.100	0.069		X532009	MAC	08/05/25 14:11	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X532009	MAC	08/05/25 14:11	
EPA 200.7	Iron	2.52	mg/L	0.100	0.056		X532009	MAC	08/05/25 14:11	
EPA 200.7	Magnesium	11.4	mg/L	0.500	0.090		X532009	MAC	08/05/25 14:11	
EPA 200.7	Manganese	0.747	mg/L	0.0080	0.0034		X532009	MAC	08/05/25 14:11	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X532009	MAC	08/05/25 14:11	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X532009	MAC	08/05/25 14:11	
EPA 200.7	Phosphorus	0.074	mg/L	0.050	0.013		X532009	MAC	08/05/25 14:11	
EPA 200.7	Potassium	1.97	mg/L	0.50	0.18		X532009	MAC	08/05/25 14:11	
EPA 200.7	Sodium	14.0	mg/L	0.50	0.12		X532009	MAC	08/05/25 14:11	
EPA 200.7	Zinc	0.0145	mg/L	0.0100	0.0054		X532009	MAC	08/05/25 14:11	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X531196	SMU	08/06/25 18:18	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X531196	SMU	08/06/25 18:18	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X531196	SMU	08/06/25 18:18	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X531196	SMU	08/06/25 18:18	
EPA 200.8	Copper	0.00072	mg/L	0.00040	0.00036		X531196	SMU	08/06/25 18:18	
EPA 200.8	Lead	0.00059	mg/L	0.00020	0.00014		X531196	SMU	08/06/25 18:18	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X531196	SMU	08/06/25 18:18	
SM 2340 B	Hardness (as CaCO3)	168	mg/L	2.31	0.543		N/A		08/05/25 14:11	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X530251	MAC	08/06/25 13:20	
EPA 200.7	Barium	0.0316	mg/L	0.0020	0.0019		X530251	MAC	08/06/25 10:37	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X530251	MAC	08/06/25 10:37	
EPA 200.7	Calcium	48.3	mg/L	0.100	0.069		X530251	MAC	08/06/25 10:37	
EPA 200.7	Iron	0.156	mg/L	0.100	0.056		X530251	MAC	08/06/25 10:37	
EPA 200.7	Magnesium	11.4	mg/L	0.500	0.090		X530251	MAC	08/06/25 10:37	
EPA 200.7	Manganese	0.171	mg/L	0.0080	0.0034		X530251	MAC	08/06/25 10:37	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X530251	MAC	08/06/25 10:37	
EPA 200.7	Nickel	0.0105	mg/L	0.0100	0.0048		X530251	MAC	08/06/25 10:37	
EPA 200.7	Potassium	1.96	mg/L	0.50	0.18		X530251	MAC	08/06/25 10:37	
EPA 200.7	Sodium	14.1	mg/L	0.50	0.12		X530251	MAC	08/06/25 10:37	
EPA 200.7	Zinc	0.0133	mg/L	0.0100	0.0054		X530251	MAC	08/06/25 10:37	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X531163	SMU	08/06/25 17:25	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X531163	SMU	08/06/25 17:25	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X531163	SMU	08/06/25 17:25	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X531163	SMU	08/06/25 17:25	
EPA 200.8	Copper	0.00041	mg/L	0.00040	0.00036		X531163	SMU	08/06/25 17:25	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X531163	SMU	08/06/25 17:25	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X531163	SMU	08/06/25 17:25	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X531163	SMU	08/06/25 17:25	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X531163	SMU	08/06/25 17:25	
EPA 200.8	Uranium	0.00115	mg/L	0.000100	0.000052		X531163	SMU	08/06/25 17:25	

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

Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0424**

Reported: 08-Aug-25 09:13

Client Sample ID: **GV-05**

Sampled: 23-Jul-25 13:00

Received: 25-Jul-25

Sampled By: JC

SVL Sample ID: **X5G0424-03 (Surface Water)**

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X531086	ORW	07/30/25 16:22	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00390		N/A		08/05/25 14:11	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X531083	ORW	07/30/25 12:11	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X531182	ORW	08/01/25 14:07	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X531134	ORW	07/31/25 13:17	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X531242	ORW	08/01/25 15:17	
SM 2310 B	Acidity to pH 8.3	-134	mg/L as CaCO3	10.0			X532006	MWD	08/04/25 11:57	
SM 2320 B	Total Alkalinity	130	mg/L as CaCO3	1.0			X531089	MWD	07/31/25 13:08	
SM 2320 B	Bicarbonate	130	mg/L as CaCO3	1.0			X531089	MWD	07/31/25 13:08	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X531089	MWD	07/31/25 13:08	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X531089	MWD	07/31/25 13:08	
SM 2540 C	Total Diss. Solids	252	mg/L	10			X531046	TJL	07/30/25 13:10	
SM 2540 D	Total Susp. Solids	16.0	mg/L	5.0			X531048	ARS	07/30/25 12:20	
SM 4500 H B	pH @25.0°C	8.0	pH Units				X531089	MWD	07/31/25 13:08	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X531014	CND	07/28/25 12:57	
SM 4500-O-G	Dissolved Oxygen	7.9	mg/L	0.1			X532038	TJL	08/04/25 11:30	H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X531185	CND	07/31/25 17:00	
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Filtered Classical Chemistry Parameters

Calculation	Chromium(III)-Dissolved	< 0.00600	mg/L	0.00600	0.00207		N/A		08/06/25 17:25	
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Anions by Ion Chromatography

EPA 300.0	Chloride	9.39	mg/L	0.20	0.02		X530220	GMD	07/25/25 12:36	
EPA 300.0	Fluoride	0.695	mg/L	0.100	0.017		X530220	GMD	07/25/25 12:36	
EPA 300.0	Nitrate as N	0.067	mg/L	0.050	0.013		X530220	GMD	07/25/25 12:36	H3
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X530220	GMD	07/25/25 12:36	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X530220	GMD	07/25/25 12:36	H3
EPA 300.0	Sulfate as SO4	57.9	mg/L	3.00	1.80	10	X530220	GMD	07/25/25 12:51	

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.02 meq/L	Anion Sum: 4.11 meq/L	C/A Balance: -1.05 %	Calculated TDS: 222	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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0424**

Reported: 08-Aug-25 09:13

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X531018	31-Jul-25	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X531018	31-Jul-25	
EPA 1631E	Mercury	ng/L	<0.500	0.120	0.500	X531018	31-Jul-25	
EPA 245.1	Mercury	mg/L	<0.000093	0.000093	0.000200	X531045	29-Jul-25	U
Metals (Total Recoverable--reportable as Total per 40 CFR 136)								
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X532009	05-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X532009	05-Aug-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X532009	05-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X532009	05-Aug-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X532009	05-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X532009	05-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X532009	05-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X532009	05-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X532009	05-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X532009	05-Aug-25	
EPA 200.7	Phosphorus	mg/L	<0.050	0.013	0.050	X532009	05-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X532009	05-Aug-25	
EPA 200.7	Sodium	mg/L	<0.12	0.12	0.50	X532009	05-Aug-25	U
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X532009	05-Aug-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X531196	06-Aug-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X531196	06-Aug-25	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X531196	06-Aug-25	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X531196	06-Aug-25	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X531196	06-Aug-25	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X531196	06-Aug-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X531196	06-Aug-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X530251	06-Aug-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X530251	06-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X530251	06-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X530251	06-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X530251	06-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X530251	06-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X530251	06-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X530251	06-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X530251	06-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X530251	06-Aug-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X530251	06-Aug-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X530251	06-Aug-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X531163	06-Aug-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X531163	06-Aug-25	
EPA 200.8	Cadmium	mg/L	<0.000100	0.000063	0.000100	X531163	06-Aug-25	
EPA 200.8	Chromium	mg/L	<0.00100	0.00017	0.00100	X531163	06-Aug-25	
EPA 200.8	Copper	mg/L	<0.00040	0.00036	0.00040	X531163	06-Aug-25	
EPA 200.8	Lead	mg/L	<0.00020	0.00014	0.00020	X531163	06-Aug-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X531163	06-Aug-25	
EPA 200.8	Silver	mg/L	<0.00008	0.000061	0.00008	X531163	06-Aug-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X531163	06-Aug-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X531163	06-Aug-25	
Classical Chemistry Parameters								
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X531086	30-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X531083	30-Jul-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X531182	01-Aug-25	
EPA 351.2	TKN	mg/L	<0.50	0.31	0.50	X531134	31-Jul-25	

SVL holds the following certifications:

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

Work order Report Page 8 of 15



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Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0424**

Reported: 08-Aug-25 09:13

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Classical Chemistry Parameters (Continued)

OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X531242	01-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X532006	04-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X531089	31-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X531089	31-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X531089	31-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X531089	31-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X531046	30-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X531048	30-Jul-25	
SM 4500 S D	Sulfide	mg/L	<0.050	0.020	0.050	X531014	28-Jul-25	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	<0.0050	0.0019	0.0050	X531185	31-Jul-25	
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Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X530220	25-Jul-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X530220	25-Jul-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X530220	25-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X530220	25-Jul-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X530220	25-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X530220	25-Jul-25	

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)

EPA 1631E	Mercury	ng/L	4.77	5.00	95.5	77 - 123	X531018	31-Jul-25	
EPA 245.1	Mercury	mg/L	0.00206	0.00200	103	85 - 115	X531045	29-Jul-25	

Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	mg/L	0.941	1.00	94.1	85 - 115	X532009	05-Aug-25	
EPA 200.7	Beryllium	mg/L	0.935	1.00	93.5	85 - 115	X532009	05-Aug-25	
EPA 200.7	Boron	mg/L	0.977	1.00	97.7	85 - 115	X532009	05-Aug-25	
EPA 200.7	Calcium	mg/L	19.1	20.0	95	85 - 115	X532009	05-Aug-25	
EPA 200.7	Chromium	mg/L	0.931	1.00	93.1	85 - 115	X532009	05-Aug-25	
EPA 200.7	Iron	mg/L	9.63	10.0	96.3	85 - 115	X532009	05-Aug-25	
EPA 200.7	Magnesium	mg/L	19.0	20.0	94.9	85 - 115	X532009	05-Aug-25	
EPA 200.7	Manganese	mg/L	0.932	1.00	93.2	85 - 115	X532009	05-Aug-25	
EPA 200.7	Molybdenum	mg/L	0.966	1.00	96.6	85 - 115	X532009	05-Aug-25	
EPA 200.7	Nickel	mg/L	0.896	1.00	89.6	85 - 115	X532009	05-Aug-25	
EPA 200.7	Phosphorus	mg/L	1.07	1.00	107	85 - 115	X532009	05-Aug-25	
EPA 200.7	Potassium	mg/L	19.2	20.0	96.0	85 - 115	X532009	05-Aug-25	
EPA 200.7	Sodium	mg/L	18.2	19.0	95.9	85 - 115	X532009	05-Aug-25	
EPA 200.7	Zinc	mg/L	0.956	1.00	95.6	85 - 115	X532009	05-Aug-25	
EPA 200.8	Antimony	mg/L	0.0226	0.0250	90.3	85 - 115	X531196	06-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0224	0.0250	89.4	85 - 115	X531196	06-Aug-25	
EPA 200.8	Cadmium	mg/L	0.0225	0.0250	89.8	85 - 115	X531196	06-Aug-25	
EPA 200.8	Chromium	mg/L	0.0227	0.0250	90.7	85 - 115	X531196	06-Aug-25	
EPA 200.8	Copper	mg/L	0.0229	0.0250	91.8	85 - 115	X531196	06-Aug-25	
EPA 200.8	Lead	mg/L	0.0225	0.0250	89.8	85 - 115	X531196	06-Aug-25	
EPA 200.8	Selenium	mg/L	0.0226	0.0250	90.4	85 - 115	X531196	06-Aug-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.993	1.00	99.3	85 - 115	X530251	06-Aug-25	
EPA 200.7	Barium	mg/L	1.01	1.00	101	85 - 115	X530251	06-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 9 of 15



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Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net
Cripple Creek & Victor Gold Mining Company

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5G0424**

Reported: 08-Aug-25 09:13

Quality Control - LABORATORY CONTROL SAMPLE Data				(Continued)					
Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes

Metals (Dissolved) (Continued)

EPA 200.7	Beryllium	mg/L	0.995	1.00	99.5	85 - 115	X530251	06-Aug-25	
EPA 200.7	Calcium	mg/L	19.5	20.0	97.7	85 - 115	X530251	06-Aug-25	
EPA 200.7	Iron	mg/L	10.0	10.0	100	85 - 115	X530251	06-Aug-25	
EPA 200.7	Magnesium	mg/L	19.4	20.0	96.8	85 - 115	X530251	06-Aug-25	
EPA 200.7	Manganese	mg/L	0.998	1.00	99.8	85 - 115	X530251	06-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.02	1.00	102	85 - 115	X530251	06-Aug-25	
EPA 200.7	Nickel	mg/L	0.955	1.00	95.5	85 - 115	X530251	06-Aug-25	
EPA 200.7	Potassium	mg/L	20.5	20.0	103	85 - 115	X530251	06-Aug-25	
EPA 200.7	Sodium	mg/L	18.7	19.0	98.6	85 - 115	X530251	06-Aug-25	
EPA 200.7	Zinc	mg/L	1.00	1.00	100	85 - 115	X530251	06-Aug-25	
EPA 200.8	Antimony	mg/L	0.0236	0.0250	94.2	85 - 115	X531163	06-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0246	0.0250	98.5	85 - 115	X531163	06-Aug-25	
EPA 200.8	Cadmium	mg/L	0.0239	0.0250	95.8	85 - 115	X531163	06-Aug-25	
EPA 200.8	Chromium	mg/L	0.0248	0.0250	99.2	85 - 115	X531163	06-Aug-25	
EPA 200.8	Copper	mg/L	0.0247	0.0250	98.9	85 - 115	X531163	06-Aug-25	
EPA 200.8	Lead	mg/L	0.0234	0.0250	93.8	85 - 115	X531163	06-Aug-25	
EPA 200.8	Selenium	mg/L	0.0254	0.0250	101	85 - 115	X531163	06-Aug-25	
EPA 200.8	Silver	mg/L	0.0240	0.0250	95.9	85 - 115	X531163	06-Aug-25	
EPA 200.8	Thallium	mg/L	0.0228	0.0250	91.3	85 - 115	X531163	06-Aug-25	
EPA 200.8	Uranium	mg/L	0.0234	0.0250	93.8	85 - 115	X531163	06-Aug-25	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0991	0.100	99.1	90 - 110	X531086	30-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.100	0.100	100	90 - 110	X531083	30-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X531182	01-Aug-25	
EPA 351.2	TKN	mg/L	8.06	8.00	101	90 - 110	X531134	31-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X531242	01-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1160	1180	98.3	95.4 - 104	X532006	04-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.2	9.93	103	94 - 106	X531089	31-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	101	99.3	101	94 - 106	X531089	31-Jul-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	414	397	104	94 - 106	X531089	31-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	242	250	96.8	85 - 115	X531046	30-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	10.0	10.0	100	85 - 115	X531048	30-Jul-25	
SM 4500 S D	Sulfide	mg/L	0.497	0.500	99.4	85 - 115	X531014	28-Jul-25	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.100	0.100	100	80 - 120	X531185	31-Jul-25	
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Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.96	3.00	98.5	90 - 110	X530220	25-Jul-25	
EPA 300.0	Fluoride	mg/L	1.96	2.00	97.9	90 - 110	X530220	25-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.95	2.00	97.7	90 - 110	X530220	25-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.45	4.50	98.8	90 - 110	X530220	25-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.49	2.50	99.7	90 - 110	X530220	25-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X530220	25-Jul-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0424**

Reported: 08-Aug-25 09:13

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	X532006 - X5G0368-01	04-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	645	651	0.8	20	X531089 - X5G0368-02	31-Jul-25	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	645	651	0.8	20	X531089 - X5G0368-02	31-Jul-25	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X531089 - X5G0368-02	31-Jul-25	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X531089 - X5G0368-02	31-Jul-25	
SM 2540 C	Total Diss. Solids	mg/L	257	241	6.4	10	X531046 - X5G0424-02	30-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	14.0	14.0	0.0	10	X531048 - X5G0429-01	30-Jul-25	
SM 2540 D	Total Susp. Solids	mg/L	22.0	22.0	0.0	10	X531048 - X5G0424-02	30-Jul-25	
SM 4500 H B	pH @24.2°C	pH Units	6.6	6.7	1.7	20	X531089 - X5G0368-02	31-Jul-25	R2B
SM 4500-O-G	Dissolved Oxygen	mg/L	8.4	8.6	2.4	20	X532038 - X5G0424-01	04-Aug-25	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total)										
EPA 1631E	Mercury	ng/L	4.85	2.31	2.50	102	71 - 125	X531018 - X5G0344-02	31-Jul-25	
EPA 1631E	Mercury	ng/L	3.72	1.39	2.50	93.2	71 - 125	X531018 - X5G0417-02	31-Jul-25	
EPA 245.1	Mercury	mg/L	0.00206	<0.000093	0.00200	103	70 - 130	X531045 - X5G0424-01	29-Jul-25	
EPA 245.1	Mercury	mg/L	0.00208	0.000157	0.00200	96.3	70 - 130	X531045 - X5G0434-06	29-Jul-25	
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Barium	mg/L	1.03	0.0975	1.00	93.6	70 - 130	X532009 - X5G0424-02	05-Aug-25	
EPA 200.7	Beryllium	mg/L	0.926	<0.00200	1.00	92.6	70 - 130	X532009 - X5G0424-02	05-Aug-25	
EPA 200.7	Boron	mg/L	1.01	<0.0400	1.00	98.5	70 - 130	X532009 - X5G0424-02	05-Aug-25	
EPA 200.7	Calcium	mg/L	62.7	42.7	20.0	100	70 - 130	X532009 - X5G0424-02	05-Aug-25	
EPA 200.7	Chromium	mg/L	0.921	<0.0060	1.00	92.1	70 - 130	X532009 - X5G0424-02	05-Aug-25	
EPA 200.7	Iron	mg/L	16.1	6.43	10.0	96.7	70 - 130	X532009 - X5G0424-02	05-Aug-25	
EPA 200.7	Magnesium	mg/L	29.5	9.77	20.0	98.4	70 - 130	X532009 - X5G0424-02	05-Aug-25	
EPA 200.7	Manganese	mg/L	1.51	0.584	1.00	92.1	70 - 130	X532009 - X5G0424-02	05-Aug-25	
EPA 200.7	Molybdenum	mg/L	0.957	<0.0080	1.00	95.7	70 - 130	X532009 - X5G0424-02	05-Aug-25	
EPA 200.7	Nickel	mg/L	0.879	<0.0100	1.00	87.0	70 - 130	X532009 - X5G0424-02	05-Aug-25	
EPA 200.7	Phosphorus	mg/L	1.15	0.092	1.00	105	70 - 130	X532009 - X5G0424-02	05-Aug-25	
EPA 200.7	Potassium	mg/L	20.8	1.41	20.0	97.1	70 - 130	X532009 - X5G0424-02	05-Aug-25	
EPA 200.7	Sodium	mg/L	32.3	13.8	19.0	97.4	70 - 130	X532009 - X5G0424-02	05-Aug-25	
EPA 200.7	Zinc	mg/L	0.954	0.0151	1.00	93.9	70 - 130	X532009 - X5G0424-02	05-Aug-25	
EPA 200.8	Antimony	mg/L	0.0232	<0.00100	0.0250	92.6	70 - 130	X531196 - X5G0401-01	06-Aug-25	
EPA 200.8	Antimony	mg/L	0.0256	<0.00200	0.0250	102	70 - 130	X531196 - X5G0429-05	07-Aug-25	D17
EPA 200.8	Arsenic	mg/L	0.0254	<0.00100	0.0250	98.9	70 - 130	X531196 - X5G0401-01	06-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0279	<0.00200	0.0250	105	70 - 130	X531196 - X5G0429-05	07-Aug-25	D17
EPA 200.8	Cadmium	mg/L	0.0221	0.000151	0.0250	88.0	70 - 130	X531196 - X5G0401-01	06-Aug-25	
EPA 200.8	Cadmium	mg/L	0.0237	<0.000200	0.0250	94.7	70 - 130	X531196 - X5G0429-05	07-Aug-25	D17
EPA 200.8	Chromium	mg/L	0.0251	<0.00100	0.0250	100	70 - 130	X531196 - X5G0401-01	06-Aug-25	
EPA 200.8	Chromium	mg/L	0.0270	<0.00200	0.0250	108	70 - 130	X531196 - X5G0429-05	07-Aug-25	D17
EPA 200.8	Copper	mg/L	0.0239	<0.00040	0.0250	95.7	70 - 130	X531196 - X5G0401-01	06-Aug-25	
EPA 200.8	Copper	mg/L	0.0255	<0.00080	0.0250	102	70 - 130	X531196 - X5G0429-05	07-Aug-25	D17
EPA 200.8	Lead	mg/L	0.0248	<0.00020	0.0250	99.2	70 - 130	X531196 - X5G0401-01	06-Aug-25	
EPA 200.8	Lead	mg/L	0.0280	0.00044	0.0250	110	70 - 130	X531196 - X5G0429-05	07-Aug-25	D17
EPA 200.8	Selenium	mg/L	0.0229	<0.00100	0.0250	89.4	70 - 130	X531196 - X5G0401-01	06-Aug-25	
EPA 200.8	Selenium	mg/L	0.0226	<0.00200	0.0250	90.5	70 - 130	X531196 - X5G0429-05	07-Aug-25	D17

SVL holds the following certifications:

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

Work order Report Page 11 of 15

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0424**

Reported: 08-Aug-25 09:13

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)										
EPA 200.7	Aluminum	mg/L	0.967	<0.080	1.00	96.7	70 - 130	X530251 - X5G0377-01	06-Aug-25	
EPA 200.7	Aluminum	mg/L	0.982	<0.080	1.00	98.2	70 - 130	X530251 - X5G0438-14	06-Aug-25	
EPA 200.7	Barium	mg/L	0.954	0.0266	1.00	92.7	70 - 130	X530251 - X5G0377-01	06-Aug-25	
EPA 200.7	Barium	mg/L	0.973	0.0279	1.00	94.5	70 - 130	X530251 - X5G0438-14	06-Aug-25	
EPA 200.7	Beryllium	mg/L	0.996	<0.00200	1.00	99.6	70 - 130	X530251 - X5G0377-01	06-Aug-25	
EPA 200.7	Beryllium	mg/L	1.02	<0.00200	1.00	102	70 - 130	X530251 - X5G0438-14	06-Aug-25	
EPA 200.7	Calcium	mg/L	66.1	46.4	20.0	98.5	70 - 130	X530251 - X5G0377-01	06-Aug-25	
EPA 200.7	Calcium	mg/L	570	549	20.0	108	70 - 130	X530251 - X5G0438-14	06-Aug-25	
EPA 200.7	Iron	mg/L	10.0	<0.100	10.0	100	70 - 130	X530251 - X5G0377-01	06-Aug-25	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	101	70 - 130	X530251 - X5G0438-14	06-Aug-25	
EPA 200.7	Magnesium	mg/L	31.0	10.6	20.0	102	70 - 130	X530251 - X5G0377-01	06-Aug-25	
EPA 200.7	Magnesium	mg/L	106	87.0	20.0	95.4	70 - 130	X530251 - X5G0438-14	06-Aug-25	
EPA 200.7	Manganese	mg/L	0.986	<0.0080	1.00	98.1	70 - 130	X530251 - X5G0377-01	06-Aug-25	
EPA 200.7	Manganese	mg/L	0.991	<0.0080	1.00	98.8	70 - 130	X530251 - X5G0438-14	06-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X530251 - X5G0377-01	06-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.04	<0.0080	1.00	104	70 - 130	X530251 - X5G0438-14	06-Aug-25	
EPA 200.7	Nickel	mg/L	0.959	<0.0100	1.00	95.1	70 - 130	X530251 - X5G0377-01	06-Aug-25	
EPA 200.7	Nickel	mg/L	0.970	0.0268	1.00	94.3	70 - 130	X530251 - X5G0438-14	06-Aug-25	
EPA 200.7	Potassium	mg/L	30.5	10.6	20.0	99.4	70 - 130	X530251 - X5G0377-01	06-Aug-25	
EPA 200.7	Potassium	mg/L	29.2	7.38	20.0	109	70 - 130	X530251 - X5G0438-14	06-Aug-25	
EPA 200.7	Sodium	mg/L	168	150	19.0	95.8	70 - 130	X530251 - X5G0377-01	06-Aug-25	
EPA 200.7	Sodium	mg/L	418	397	19.0	107	70 - 130	X530251 - X5G0438-14	06-Aug-25	
EPA 200.7	Zinc	mg/L	1.04	0.0179	1.00	102	70 - 130	X530251 - X5G0377-01	06-Aug-25	
EPA 200.7	Zinc	mg/L	1.06	0.0118	1.00	105	70 - 130	X530251 - X5G0438-14	06-Aug-25	
EPA 200.8	Antimony	mg/L	0.0268	0.00215	0.0250	98.5	70 - 130	X531163 - X5G0396-01	06-Aug-25	
EPA 200.8	Antimony	mg/L	0.0256	<0.00100	0.0250	102	70 - 130	X531163 - X5G0417-01	06-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0261	<0.00100	0.0250	103	70 - 130	X531163 - X5G0396-01	06-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0259	<0.00100	0.0250	103	70 - 130	X531163 - X5G0417-01	06-Aug-25	
EPA 200.8	Cadmium	mg/L	0.0248	<0.000100	0.0250	99.1	70 - 130	X531163 - X5G0396-01	06-Aug-25	
EPA 200.8	Cadmium	mg/L	0.0249	<0.000100	0.0250	99.6	70 - 130	X531163 - X5G0417-01	06-Aug-25	
EPA 200.8	Chromium	mg/L	0.0258	<0.00100	0.0250	101	70 - 130	X531163 - X5G0396-01	06-Aug-25	
EPA 200.8	Chromium	mg/L	0.0253	<0.00100	0.0250	100	70 - 130	X531163 - X5G0417-01	06-Aug-25	
EPA 200.8	Copper	mg/L	0.0256	0.00054	0.0250	100	70 - 130	X531163 - X5G0396-01	06-Aug-25	
EPA 200.8	Copper	mg/L	0.0255	0.00069	0.0250	99.0	70 - 130	X531163 - X5G0417-01	06-Aug-25	
EPA 200.8	Lead	mg/L	0.0246	<0.00020	0.0250	98.3	70 - 130	X531163 - X5G0396-01	06-Aug-25	
EPA 200.8	Lead	mg/L	0.0248	<0.00020	0.0250	99.2	70 - 130	X531163 - X5G0417-01	06-Aug-25	
EPA 200.8	Selenium	mg/L	0.0266	<0.00100	0.0250	102	70 - 130	X531163 - X5G0396-01	06-Aug-25	
EPA 200.8	Selenium	mg/L	0.0273	<0.00100	0.0250	108	70 - 130	X531163 - X5G0417-01	06-Aug-25	
EPA 200.8	Silver	mg/L	0.0242	<0.00008	0.0250	96.8	70 - 130	X531163 - X5G0396-01	06-Aug-25	
EPA 200.8	Silver	mg/L	0.0247	<0.00008	0.0250	98.9	70 - 130	X531163 - X5G0417-01	06-Aug-25	
EPA 200.8	Thallium	mg/L	0.0252	<0.000200	0.0250	101	70 - 130	X531163 - X5G0396-01	06-Aug-25	
EPA 200.8	Thallium	mg/L	0.0256	<0.000200	0.0250	103	70 - 130	X531163 - X5G0417-01	06-Aug-25	
EPA 200.8	Uranium	mg/L	0.0255	0.000333	0.0250	101	70 - 130	X531163 - X5G0396-01	06-Aug-25	
EPA 200.8	Uranium	mg/L	0.0255	0.000157	0.0250	101	70 - 130	X531163 - X5G0417-01	06-Aug-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.106	<0.0050	0.100	106	79 - 121	X531086 - X5G0410-02	30-Jul-25	
EPA 335.4	Cyanide (total)	mg/L	0.0984	0.0177	0.100	80.7	90 - 110	X531083 - X5G0302-01	30-Jul-25	M2
EPA 335.4	Cyanide (total)	mg/L	0.101	0.0095	0.100	91.2	90 - 110	X531083 - X5G0302-02	30-Jul-25	
EPA 350.1	Ammonia as N	mg/L	1.01	0.034	1.00	97.3	90 - 110	X531182 - X5G0424-01	01-Aug-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0424**

Reported: 08-Aug-25 09:13

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
Classical Chemistry Parameters (Continued)										
EPA 350.1	Ammonia as N	mg/L	3.73	2.97	1.00	76.4	90 - 110	X531182 - X5G0478-01	01-Aug-25	M4
EPA 351.2	TKN	mg/L	8.15	<0.50	8.00	102	90 - 110	X531134 - X5G0424-02	31-Jul-25	
EPA 351.2	TKN	mg/L	8.23	0.59	8.00	95.6	90 - 110	X531134 - X5G0290-03	31-Jul-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	101	82 - 118	X531242 - X5G0425-01	01-Aug-25	
SM 4500 S D	Sulfide	mg/L	0.208	<0.050	0.200	104	75 - 125	X531014 - X5G0424-01	28-Jul-25	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0224	<0.0050	0.0222	101	75 - 125	X531185 - X5G0425-01	31-Jul-25	
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Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	10.2	7.19	3.00	101	90 - 110	X530220 - X5G0417-05	25-Jul-25	
EPA 300.0	Chloride	mg/L	7.05	4.18	3.00	95.5	90 - 110	X530220 - X5G0422-01	25-Jul-25	
EPA 300.0	Fluoride	mg/L	1.98	<0.100	2.00	95.8	90 - 110	X530220 - X5G0417-05	25-Jul-25	
EPA 300.0	Fluoride	mg/L	2.06	0.197	2.00	93.0	90 - 110	X530220 - X5G0422-01	25-Jul-25	
EPA 300.0	Nitrate as N	mg/L	1.92	<0.050	2.00	96.1	90 - 110	X530220 - X5G0422-01	25-Jul-25	
EPA 300.0	Nitrate as N	mg/L	9.50	7.31	2.00	109	90 - 110	X530220 - X5G0417-05	28-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.89	<0.100	4.00	97.4	90 - 110	X530220 - X5G0422-01	25-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	11.4	7.54	4.00	95.9	90 - 110	X530220 - X5G0417-05	28-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.06	0.069	2.00	99.6	90 - 110	X530220 - X5G0417-05	25-Jul-25	
EPA 300.0	Nitrite as N	mg/L	1.97	<0.050	2.00	98.7	90 - 110	X530220 - X5G0422-01	25-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	20.8	10.8	10.0	101	90 - 110	X530220 - X5G0422-01	25-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	72.4	61.3	10.0	110	90 - 110	X530220 - X5G0417-05	28-Jul-25	

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Metals (Total)										
EPA 1631E	Mercury	ng/L	3.81	3.72	2.50	2.3	24	96.7	X531018 - X5G0417-02	
EPA 1631E	Mercury	ng/L	4.96	4.85	2.50	2.3	24	106	X531018 - X5G0344-02	
EPA 245.1	Mercury	mg/L	0.00212	0.00206	0.00200	2.9	20	106	X531045 - X5G0424-01	

Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	mg/L	1.02	1.03	1.00	1.7	20	91.8	X532009 - X5G0424-02	
EPA 200.7	Beryllium	mg/L	0.919	0.926	1.00	0.8	20	91.9	X532009 - X5G0424-02	
EPA 200.7	Boron	mg/L	0.998	1.01	1.00	1.2	20	97.3	X532009 - X5G0424-02	
EPA 200.7	Calcium	mg/L	61.8	62.7	20.0	2.0	20	95	X532009 - X5G0424-02	
EPA 200.7	Chromium	mg/L	0.910	0.921	1.00	1.2	20	91.0	X532009 - X5G0424-02	
EPA 200.7	Iron	mg/L	15.9	16.1	10.0	1.3	20	94.6	X532009 - X5G0424-02	
EPA 200.7	Magnesium	mg/L	29.0	29.5	20.0	1.7	20	95.9	X532009 - X5G0424-02	
EPA 200.7	Manganese	mg/L	1.48	1.51	1.00	1.4	20	90.0	X532009 - X5G0424-02	
EPA 200.7	Molybdenum	mg/L	0.947	0.957	1.00	1.0	20	94.7	X532009 - X5G0424-02	
EPA 200.7	Nickel	mg/L	0.869	0.879	1.00	1.2	20	86.0	X532009 - X5G0424-02	
EPA 200.7	Phosphorus	mg/L	1.14	1.15	1.00	1.0	20	104	X532009 - X5G0424-02	
EPA 200.7	Potassium	mg/L	20.6	20.8	20.0	1.3	20	95.8	X532009 - X5G0424-02	
EPA 200.7	Sodium	mg/L	31.9	32.3	19.0	1.4	20	95.1	X532009 - X5G0424-02	
EPA 200.7	Zinc	mg/L	0.944	0.954	1.00	1.1	20	92.9	X532009 - X5G0424-02	
EPA 200.8	Antimony	mg/L	0.0240	0.0232	0.0250	3.5	20	95.9	X531196 - X5G0401-01	
EPA 200.8	Arsenic	mg/L	0.0259	0.0254	0.0250	2.0	20	101	X531196 - X5G0401-01	
EPA 200.8	Cadmium	mg/L	0.0230	0.0221	0.0250	3.8	20	91.5	X531196 - X5G0401-01	
EPA 200.8	Chromium	mg/L	0.0255	0.0251	0.0250	1.7	20	102	X531196 - X5G0401-01	
EPA 200.8	Copper	mg/L	0.0241	0.0239	0.0250	1.0	20	96.6	X531196 - X5G0401-01	
EPA 200.8	Lead	mg/L	0.0260	0.0248	0.0250	4.8	20	104	X531196 - X5G0401-01	

SVL holds the following certifications:

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

Work order Report Page 13 of 15

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0424**

Reported: 08-Aug-25 09:13

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
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Metals (Total Recoverable--reportable as Total per 40 CFR 136) (Continued)

EPA 200.8	Selenium	mg/L	0.0234	0.0229	0.0250	2.3	20	91.5	X531196 - X5G0401-01	
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Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.999	0.967	1.00	3.2	20	99.9	X530251 - X5G0377-01	
EPA 200.7	Barium	mg/L	1.01	0.954	1.00	6.1	20	98.7	X530251 - X5G0377-01	
EPA 200.7	Beryllium	mg/L	0.999	0.996	1.00	0.3	20	99.9	X530251 - X5G0377-01	
EPA 200.7	Calcium	mg/L	66.3	66.1	20.0	0.3	20	99.5	X530251 - X5G0377-01	
EPA 200.7	Iron	mg/L	10.1	10.0	10.0	0.5	20	101	X530251 - X5G0377-01	
EPA 200.7	Magnesium	mg/L	31.0	31.0	20.0	0.2	20	102	X530251 - X5G0377-01	
EPA 200.7	Manganese	mg/L	0.987	0.986	1.00	0.1	20	98.2	X530251 - X5G0377-01	
EPA 200.7	Molybdenum	mg/L	1.03	1.02	1.00	0.6	20	103	X530251 - X5G0377-01	
EPA 200.7	Nickel	mg/L	0.961	0.959	1.00	0.2	20	95.3	X530251 - X5G0377-01	
EPA 200.7	Potassium	mg/L	30.6	30.5	20.0	0.6	20	100	X530251 - X5G0377-01	
EPA 200.7	Sodium	mg/L	169	168	19.0	0.3	20	98.5	X530251 - X5G0377-01	
EPA 200.7	Zinc	mg/L	1.04	1.04	1.00	0.4	20	102	X530251 - X5G0377-01	
EPA 200.8	Antimony	mg/L	0.0260	0.0268	0.0250	2.9	20	95.5	X531163 - X5G0396-01	
EPA 200.8	Arsenic	mg/L	0.0256	0.0261	0.0250	2.1	20	101	X531163 - X5G0396-01	
EPA 200.8	Cadmium	mg/L	0.0241	0.0248	0.0250	2.8	20	96.4	X531163 - X5G0396-01	
EPA 200.8	Chromium	mg/L	0.0246	0.0258	0.0250	4.4	20	96.7	X531163 - X5G0396-01	
EPA 200.8	Copper	mg/L	0.0247	0.0256	0.0250	3.7	20	96.5	X531163 - X5G0396-01	
EPA 200.8	Lead	mg/L	0.0248	0.0246	0.0250	0.8	20	99.0	X531163 - X5G0396-01	
EPA 200.8	Selenium	mg/L	0.0262	0.0266	0.0250	1.4	20	101	X531163 - X5G0396-01	
EPA 200.8	Silver	mg/L	0.0235	0.0242	0.0250	3.2	20	93.8	X531163 - X5G0396-01	
EPA 200.8	Thallium	mg/L	0.0250	0.0252	0.0250	0.6	20	100	X531163 - X5G0396-01	
EPA 200.8	Uranium	mg/L	0.0253	0.0255	0.0250	0.7	20	99.8	X531163 - X5G0396-01	

Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.123	0.106	0.100	14.8	11	123	X531086 - X5G0410-02	M1,R2B
EPA 335.4	Cyanide (total)	mg/L	0.105	0.0984	0.100	6.9	20	87.7	X531083 - X5G0302-01	M2
EPA 350.1	Ammonia as N	mg/L	1.03	1.01	1.00	1.8	20	99.1	X531182 - X5G0424-01	
EPA 351.2	TKN	mg/L	8.34	8.15	8.00	2.3	20	104	X531134 - X5G0424-02	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.101	0.100	0.8	11	102	X531242 - X5G0425-01	
SM 4500 S D	Sulfide	mg/L	0.209	0.208	0.200	0.5	20	105	X531014 - X5G0424-01	

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	mg/L	0.0224	0.0224	0.0222	0.0	20	101	X531185 - X5G0425-01	
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Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	10.2	10.2	3.00	0.2	20	100	X530220 - X5G0417-05	
EPA 300.0	Fluoride	mg/L	1.97	1.98	2.00	0.8	20	95.0	X530220 - X5G0417-05	
EPA 300.0	Nitrate as N	mg/L	9.51	9.50	2.00	0.1	20	110	X530220 - X5G0417-05	
EPA 300.0	Nitrate+Nitrite as N	mg/L	11.2	11.4	4.00	2.0	20	90.3	X530220 - X5G0417-05	
EPA 300.0	Nitrite as N	mg/L	2.12	2.06	2.00	2.8	20	103	X530220 - X5G0417-05	
EPA 300.0	Sulfate as SO4	mg/L	72.6	72.4	10.0	0.4	20	0.30R>S	X530220 - X5G0417-05	M4



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Kellogg, ID 83837-0929

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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0424**

Reported: 08-Aug-25 09:13

Notes and Definitions

D17	Due to an internal standard failure at a lower dilution, a sample dilution was performed.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M1	Matrix spike recovery was high, but the LCS recovery was acceptable.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
R2B	RPD exceeded the laboratory acceptance limit.
U	Indicates the analyte was analyzed for but was not detected, result was less than the MDL.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0522**

Reported: 13-Aug-25 15:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-10	X5G0522-01	Ground Water	30-Jul-25 10:18	TR	31-Jul-2025	

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: X5G0522

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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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0522**

Reported: 13-Aug-25 15:24

Client Sample ID: **GVMW-10**

Sampled: 30-Jul-25 10:18

SVL Sample ID: **X5G0522-01 (Ground Water)**

Received: 31-Jul-25

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	345	mg/L	0.100	0.069		X532042	MAC	08/06/25 16:25	M3
EPA 200.7	Magnesium	137	mg/L	0.500	0.090		X532042	MAC	08/06/25 16:25	M3
EPA 200.7	Potassium	2.37	mg/L	0.50	0.18		X532042	MAC	08/06/25 16:25	
SM 2340 B	Hardness (as CaCO3)	1430	mg/L	2.31	0.543		N/A		08/13/25 08:04	

Metals (Dissolved)

EPA 200.7	Aluminum	0.089	mg/L	0.080	0.054		X533010	JRR	08/13/25 08:04	
EPA 200.7	Barium	0.0171	mg/L	0.0020	0.0019		X533010	JRR	08/13/25 08:04	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X533010	JRR	08/13/25 08:04	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X533010	JRR	08/13/25 08:04	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X533010	JRR	08/13/25 08:04	
EPA 200.7	Calcium	319	mg/L	0.100	0.069		X533010	JRR	08/13/25 08:04	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X533010	JRR	08/13/25 08:04	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X533010	JRR	08/13/25 08:04	
EPA 200.7	Copper	0.0100	mg/L	0.0100	0.0027		X533010	JRR	08/13/25 08:04	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X533010	JRR	08/13/25 08:04	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X533010	JRR	08/13/25 08:04	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X533010	JRR	08/13/25 08:04	
EPA 200.7	Magnesium	133	mg/L	0.500	0.090		X533010	JRR	08/13/25 08:04	
EPA 200.7	Manganese	2.21	mg/L	0.0080	0.0034		X533010	JRR	08/13/25 08:04	
EPA 200.7	Molybdenum	0.0460	mg/L	0.0080	0.0034		X533010	JRR	08/13/25 08:04	
EPA 200.7	Nickel	0.0152	mg/L	0.0100	0.0048		X533010	JRR	08/13/25 08:04	
EPA 200.7	Potassium	2.19	mg/L	0.50	0.18		X533010	JRR	08/13/25 08:04	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X533010	JRR	08/13/25 08:04	
EPA 200.7	Sodium	37.0	mg/L	0.50	0.12		X533010	JRR	08/13/25 08:04	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X533010	JRR	08/13/25 08:04	
EPA 200.7	Zinc	0.131	mg/L	0.0100	0.0054		X533010	JRR	08/13/25 08:04	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X532189	SMU	08/11/25 17:22	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X532189	SMU	08/11/25 17:22	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X532189	SMU	08/11/25 20:01	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X532189	SMU	08/11/25 17:22	
EPA 200.8	Uranium	0.0443	mg/L	0.000100	0.000052		X532189	SMU	08/11/25 17:22	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X532054	SJN	08/05/25 17:08	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X531244	ORW	08/01/25 17:48	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X532003	JPM	08/05/25 08:51	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X532020	JPM	08/05/25 09:54	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X531242	ORW	08/01/25 15:53	
SM 2310 B	Acidity to pH 8.3	-327	mg/L as CaCO3	10.0			X532213	MWD	08/11/25 11:37	
SM 2320 B	Total Alkalinity	330	mg/L as CaCO3	1.0			X531233	MWD	08/01/25 17:03	
SM 2320 B	Bicarbonate	330	mg/L as CaCO3	1.0			X531233	MWD	08/01/25 17:03	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X531233	MWD	08/01/25 17:03	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X531233	MWD	08/01/25 17:03	
SM 2540 C	Total Diss. Solids	2080	mg/L	40			X531227	TJL	08/04/25 12:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X531228	TJL	08/04/25 12:00	
SM 4500 H B	pH @22.1°C	7.1	pH Units				X531233	MWD	08/01/25 17:03	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 10



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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5G0522 Reported: 13-Aug-25 15:24
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Client Sample ID: **GVMW-10**
SVL Sample ID: **X5G0522-01 (Ground Water)**

Sampled: 30-Jul-25 10:18
Received: 31-Jul-25
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	5.42	mg/L	0.20	0.02		X531216	RS	07/31/25 13:30	
EPA 300.0	Fluoride	1.11	mg/L	0.100	0.017		X531216	RS	07/31/25 13:30	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X531216	RS	07/31/25 13:30	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X531216	RS	07/31/25 13:30	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X531216	RS	07/31/25 13:30	
EPA 300.0	Sulfate as SO4	1150	mg/L	15.0	9.00	50	X531216	RS	07/31/25 13:49	

Cation/Anion Balance and TDS Ratios

Cation Sum: 28.6 meq/L	Anion Sum: 30.8 meq/L	C/A Balance: -3.57 %	Calculated TDS: 1861	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

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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0522**

Reported: 13-Aug-25 15:24

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	X532042	06-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X532042	06-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X532042	06-Aug-25	
Metals (Dissolved)								
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X533010	13-Aug-25	
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X533010	13-Aug-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X533010	13-Aug-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X533010	13-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X533010	13-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X533010	13-Aug-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X533010	13-Aug-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X533010	13-Aug-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X533010	13-Aug-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X533010	13-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X533010	13-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X533010	13-Aug-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X533010	13-Aug-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X533010	13-Aug-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X533010	13-Aug-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X533010	13-Aug-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X533010	13-Aug-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X533010	13-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X533010	13-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X533010	13-Aug-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X533010	13-Aug-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X533010	13-Aug-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X533010	13-Aug-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X533010	13-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X533010	13-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X533010	13-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X533010	13-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X533010	13-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X533010	13-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X533010	13-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X533010	13-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X533010	13-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X533010	13-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X533010	13-Aug-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X533010	13-Aug-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X533010	13-Aug-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X533010	13-Aug-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X533010	13-Aug-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X533010	13-Aug-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X533010	13-Aug-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X533010	13-Aug-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X533010	13-Aug-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X532189	11-Aug-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X532189	11-Aug-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X532189	11-Aug-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X532189	11-Aug-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X532189	11-Aug-25	
Metals (Filtered)								
EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X532054	05-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 4 of 10



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0522**

Reported: 13-Aug-25 15:24

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X531244	01-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X532003	05-Aug-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X532020	05-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X531242	01-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X532213	11-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X531233	01-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X531233	01-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X531233	01-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X531233	01-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X531227	04-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X531228	04-Aug-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X531216	31-Jul-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X531216	31-Jul-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X531216	31-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X531216	31-Jul-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X531216	31-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X531216	31-Jul-25	

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	20.1	20.0	100	85 - 115	X532042	06-Aug-25	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X532042	06-Aug-25	
EPA 200.7	Potassium	mg/L	20.2	20.0	101	85 - 115	X532042	06-Aug-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.994	1.00	99.4	85 - 115	X533010	13-Aug-25	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X533010	13-Aug-25	
EPA 200.7	Beryllium	mg/L	0.965	1.00	96.5	85 - 115	X533010	13-Aug-25	
EPA 200.7	Boron	mg/L	1.01	1.00	101	85 - 115	X533010	13-Aug-25	
EPA 200.7	Cadmium	mg/L	0.953	1.00	95.3	85 - 115	X533010	13-Aug-25	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.3	85 - 115	X533010	13-Aug-25	
EPA 200.7	Chromium	mg/L	0.988	1.00	98.8	85 - 115	X533010	13-Aug-25	
EPA 200.7	Cobalt	mg/L	0.926	1.00	92.6	85 - 115	X533010	13-Aug-25	
EPA 200.7	Copper	mg/L	0.944	1.00	94.4	85 - 115	X533010	13-Aug-25	
EPA 200.7	Iron	mg/L	9.87	10.0	98.7	85 - 115	X533010	13-Aug-25	
EPA 200.7	Lead	mg/L	0.951	1.00	95.1	85 - 115	X533010	13-Aug-25	
EPA 200.7	Lithium	mg/L	0.966	1.00	96.6	85 - 115	X533010	13-Aug-25	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.4	85 - 115	X533010	13-Aug-25	
EPA 200.7	Manganese	mg/L	0.996	1.00	99.6	85 - 115	X533010	13-Aug-25	
EPA 200.7	Molybdenum	mg/L	0.987	1.00	98.7	85 - 115	X533010	13-Aug-25	
EPA 200.7	Nickel	mg/L	0.927	1.00	92.7	85 - 115	X533010	13-Aug-25	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X533010	13-Aug-25	
EPA 200.7	Silver	mg/L	0.0469	0.0500	93.8	85 - 115	X533010	13-Aug-25	
EPA 200.7	Sodium	mg/L	18.4	19.0	96.9	85 - 115	X533010	13-Aug-25	
EPA 200.7	Vanadium	mg/L	0.983	1.00	98.3	85 - 115	X533010	13-Aug-25	
EPA 200.7	Zinc	mg/L	0.952	1.00	95.2	85 - 115	X533010	13-Aug-25	
EPA 200.8	Antimony	mg/L	0.0231	0.0250	92.3	85 - 115	X532189	11-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0226	0.0250	90.3	85 - 115	X532189	11-Aug-25	
EPA 200.8	Selenium	mg/L	0.0227	0.0250	90.8	85 - 115	X532189	11-Aug-25	
EPA 200.8	Thallium	mg/L	0.0227	0.0250	90.7	85 - 115	X532189	11-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 5 of 10



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0522**

Reported: 13-Aug-25 15:24

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Dissolved) (Continued)									
EPA 200.8	Uranium	mg/L	0.0232	0.0250	92.8	85 - 115	X532189	11-Aug-25	
Metals (Filtered)									
EPA 245.1	Mercury	mg/L	0.00198	0.00200	99.1	85 - 115	X532054	05-Aug-25	
Classical Chemistry Parameters									
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	0.100	101	90 - 110	X531244	01-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X532003	05-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.02	1.00	102	90 - 110	X532020	05-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.100	102	90 - 110	X531242	01-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1160	1180	98.5	95.4 - 104	X532213	11-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.80	9.93	98.7	94 - 106	X531233	01-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	94 - 106	X531233	01-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	400	397	101	94 - 106	X531233	01-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	247	250	98.8	85 - 115	X531227	04-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X531228	04-Aug-25	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	3.04	3.00	101	90 - 110	X531216	31-Jul-25	
EPA 300.0	Fluoride	mg/L	2.03	2.00	101	90 - 110	X531216	31-Jul-25	
EPA 300.0	Nitrate as N	mg/L	2.03	2.00	101	90 - 110	X531216	31-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.61	4.50	102	90 - 110	X531216	31-Jul-25	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X531216	31-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	10.2	10.0	102	90 - 110	X531216	31-Jul-25	

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	444	444	0.0	20	X532213 - X5G0487-01	11-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	172	172	0.0	20	X531233 - X5G0429-03	01-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	172	172	0.0	20	X531233 - X5G0429-03	01-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X531233 - X5G0429-03	01-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X531233 - X5G0429-03	01-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	354	365	3.1	10	X531227 - X5G0539-01	04-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	380	377	0.8	10	X531227 - X5G0531-02	04-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X531228 - X5G0539-01	04-Aug-25	
SM 4500 H B	pH @22.7°C	pH Units	8.0	8.0	0.4	20	X531233 - X5G0429-03	01-Aug-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0522**

Reported: 13-Aug-25 15:24

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	73.3	51.3	20.0	110	70 - 130	X532042 - X5G0477-01	06-Aug-25	
EPA 200.7	Calcium	mg/L	381	345	20.0	0.30R>S	70 - 130	X532042 - X5G0522-01	06-Aug-25	M3
EPA 200.7	Magnesium	mg/L	29.7	8.06	20.0	108	70 - 130	X532042 - X5G0477-01	06-Aug-25	
EPA 200.7	Magnesium	mg/L	166	137	20.0	0.30R>S	70 - 130	X532042 - X5G0522-01	06-Aug-25	M3
EPA 200.7	Potassium	mg/L	43.3	21.8	20.0	108	70 - 130	X532042 - X5G0477-01	06-Aug-25	
EPA 200.7	Potassium	mg/L	24.1	2.37	20.0	109	70 - 130	X532042 - X5G0522-01	06-Aug-25	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Barium	mg/L	1.07	0.0433	1.00	103	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Beryllium	mg/L	0.968	<0.00200	1.00	96.8	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	104	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Cadmium	mg/L	0.959	<0.0020	1.00	95.9	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Calcium	mg/L	72.3	53.0	20.0	96.6	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Chromium	mg/L	0.991	<0.0060	1.00	99.1	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Cobalt	mg/L	0.930	<0.0060	1.00	93.0	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Copper	mg/L	0.985	0.0252	1.00	96.0	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Iron	mg/L	9.95	<0.100	10.0	99.5	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Lead	mg/L	0.964	<0.0075	1.00	96.4	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Magnesium	mg/L	29.7	10.0	20.0	98.2	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Manganese	mg/L	1.00	<0.0080	1.00	100	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Nickel	mg/L	0.932	<0.0100	1.00	93.2	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Potassium	mg/L	22.4	1.45	20.0	105	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Silver	mg/L	0.0476	<0.0050	0.0500	95.3	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Sodium	mg/L	28.1	9.23	19.0	99.2	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Vanadium	mg/L	0.991	<0.0050	1.00	98.8	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Zinc	mg/L	1.28	0.312	1.00	97.0	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.8	Antimony	mg/L	0.0244	<0.00100	0.0250	97.4	70 - 130	X532189 - X5G0463-02	11-Aug-25	
EPA 200.8	Antimony	mg/L	0.0252	<0.00100	0.0250	101	70 - 130	X532189 - X5G0463-14	11-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0274	<0.00100	0.0250	109	70 - 130	X532189 - X5G0463-02	11-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0278	<0.00100	0.0250	111	70 - 130	X532189 - X5G0463-14	11-Aug-25	
EPA 200.8	Selenium	mg/L	0.0377	0.0113	0.0250	106	70 - 130	X532189 - X5G0463-02	11-Aug-25	
EPA 200.8	Selenium	mg/L	0.0249	<0.00100	0.0250	99.7	70 - 130	X532189 - X5G0463-14	11-Aug-25	
EPA 200.8	Thallium	mg/L	0.0256	<0.000200	0.0250	102	70 - 130	X532189 - X5G0463-02	11-Aug-25	
EPA 200.8	Thallium	mg/L	0.0253	<0.000200	0.0250	101	70 - 130	X532189 - X5G0463-14	11-Aug-25	
EPA 200.8	Uranium	mg/L	0.112	0.0840	0.0250	112	70 - 130	X532189 - X5G0463-02	11-Aug-25	
EPA 200.8	Uranium	mg/L	0.0288	0.000102	0.0250	115	70 - 130	X532189 - X5G0463-14	11-Aug-25	
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00204	<0.000200	0.00200	102	70 - 130	X532054 - X5G0467-01	05-Aug-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0996	<0.0050	0.100	99.6	79 - 121	X531244 - X5G0522-01	01-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	100	90 - 110	X532003 - X5G0495-04	05-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	99.9	90 - 110	X532020 - X5G0530-01	05-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X532020 - X5G0522-01	05-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.101	<0.0050	0.100	101	82 - 118	X531242 - X5G0425-01	01-Aug-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0522**

Reported: 13-Aug-25 15:24

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
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	7.40	4.28	3.00	104	90 - 110	X531216 - X5G0538-01	31-Jul-25	
EPA 300.0	Fluoride	mg/L	2.03	<0.100	2.00	102	90 - 110	X531216 - X5G0538-01	31-Jul-25	
EPA 300.0	Nitrate as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X531216 - X5G0538-01	31-Jul-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.04	<0.100	4.00	101	90 - 110	X531216 - X5G0538-01	31-Jul-25	
EPA 300.0	Nitrite as N	mg/L	1.98	<0.050	2.00	98.9	90 - 110	X531216 - X5G0538-01	31-Jul-25	
EPA 300.0	Sulfate as SO4	mg/L	10.7	0.79	10.0	99.6	90 - 110	X531216 - X5G0538-01	31-Jul-25	

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	72.3	73.3	20.0	1.0	20	105	X532042 - X5G0477-01	
EPA 200.7	Magnesium	mg/L	29.0	29.7	20.0	2.7	20	105	X532042 - X5G0477-01	
EPA 200.7	Potassium	mg/L	42.8	43.3	20.0	1.3	20	105	X532042 - X5G0477-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.02	1.01	1.00	0.4	20	102	X533010 - X5G0495-04	
EPA 200.7	Barium	mg/L	1.07	1.07	1.00	0.1	20	103	X533010 - X5G0495-04	
EPA 200.7	Beryllium	mg/L	0.972	0.968	1.00	0.3	20	97.2	X533010 - X5G0495-04	
EPA 200.7	Boron	mg/L	1.05	1.04	1.00	0.5	20	105	X533010 - X5G0495-04	
EPA 200.7	Cadmium	mg/L	0.956	0.959	1.00	0.4	20	95.6	X533010 - X5G0495-04	
EPA 200.7	Calcium	mg/L	72.9	72.3	20.0	0.8	20	99.3	X533010 - X5G0495-04	
EPA 200.7	Chromium	mg/L	0.997	0.991	1.00	0.6	20	99.7	X533010 - X5G0495-04	
EPA 200.7	Cobalt	mg/L	0.926	0.930	1.00	0.4	20	92.6	X533010 - X5G0495-04	
EPA 200.7	Copper	mg/L	0.986	0.985	1.00	0.1	20	96.1	X533010 - X5G0495-04	
EPA 200.7	Iron	mg/L	9.96	9.95	10.0	0.2	20	99.6	X533010 - X5G0495-04	
EPA 200.7	Lead	mg/L	0.960	0.964	1.00	0.5	20	96.0	X533010 - X5G0495-04	
EPA 200.7	Lithium	mg/L	1.02	1.03	1.00	0.7	20	102	X533010 - X5G0495-04	
EPA 200.7	Magnesium	mg/L	29.7	29.7	20.0	0.1	20	98.1	X533010 - X5G0495-04	
EPA 200.7	Manganese	mg/L	1.00	1.00	1.00	0.1	20	100	X533010 - X5G0495-04	
EPA 200.7	Molybdenum	mg/L	1.01	1.02	1.00	0.7	20	101	X533010 - X5G0495-04	
EPA 200.7	Nickel	mg/L	0.928	0.932	1.00	0.4	20	92.8	X533010 - X5G0495-04	
EPA 200.7	Potassium	mg/L	22.5	22.4	20.0	0.6	20	105	X533010 - X5G0495-04	
EPA 200.7	Silver	mg/L	0.0480	0.0476	0.0500	0.9	20	96.1	X533010 - X5G0495-04	
EPA 200.7	Sodium	mg/L	28.2	28.1	19.0	0.3	20	99.7	X533010 - X5G0495-04	
EPA 200.7	Vanadium	mg/L	0.996	0.991	1.00	0.5	20	99.3	X533010 - X5G0495-04	
EPA 200.7	Zinc	mg/L	1.28	1.28	1.00	0.4	20	96.5	X533010 - X5G0495-04	
EPA 200.8	Antimony	mg/L	0.0253	0.0244	0.0250	4.0	20	101	X532189 - X5G0463-02	
EPA 200.8	Arsenic	mg/L	0.0283	0.0274	0.0250	3.3	20	113	X532189 - X5G0463-02	
EPA 200.8	Selenium	mg/L	0.0377	0.0377	0.0250	0.1	20	106	X532189 - X5G0463-02	
EPA 200.8	Thallium	mg/L	0.0264	0.0256	0.0250	3.0	20	106	X532189 - X5G0463-02	
EPA 200.8	Uranium	mg/L	0.112	0.112	0.0250	0.5	20	114	X532189 - X5G0463-02	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00204	0.00204	0.00200	0.2	20	102	X532054 - X5G0467-01	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.101	0.0996	0.100	1.0	11	101	X531244 - X5G0522-01	
EPA 335.4	Cyanide (total)	mg/L	0.0981	0.100	0.100	2.0	20	98.1	X532003 - X5G0495-04	
EPA 350.1	Ammonia as N	mg/L	1.05	1.01	1.00	3.9	20	104	X532020 - X5G0530-01	
OIA 1677	Cyanide (WAD)	mg/L	0.102	0.101	0.100	0.8	11	102	X531242 - X5G0425-01	



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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0522**

Reported: 13-Aug-25 15:24

Quality Control - MATRIX SPIKE DUPLICATE Data				(Continued)						
Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	7.37	7.40	3.00	0.5	20	103	X531216 - X5G0538-01	
EPA 300.0	Fluoride	mg/L	2.01	2.03	2.00	1.2	20	100	X531216 - X5G0538-01	
EPA 300.0	Nitrate as N	mg/L	2.04	2.06	2.00	1.1	20	102	X531216 - X5G0538-01	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.09	4.04	4.00	1.3	20	102	X531216 - X5G0538-01	
EPA 300.0	Nitrite as N	mg/L	2.05	1.98	2.00	3.6	20	103	X531216 - X5G0538-01	
EPA 300.0	Sulfate as SO ₄	mg/L	10.6	10.7	10.0	1.0	20	98.4	X531216 - X5G0538-01	



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Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5G0522**

Reported: 13-Aug-25 15:24

Notes and Definitions

H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
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**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5H0013**

Reported: 19-Aug-25 16:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
OSABH-16	X5H0013-01	Ground Water	31-Jul-25 10:35	JC	01-Aug-2025	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: X5H0013

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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Cripple Creek & Victor Gold Mining Company
Ironclad Security 1632 County Rd 82
Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024

Work Order: **X5H0013**

Reported: 19-Aug-25 16:09

Client Sample ID: **OSABH-16**

Sampled: 31-Jul-25 10:35

Received: 01-Aug-25

Sampled By: JC

SVL Sample ID: **X5H0013-01 (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	422	mg/L	0.200	0.138	2	X534025	SJN	08/19/25 12:03	D18
EPA 200.7	Magnesium	262	mg/L	1.00	0.180	2	X534025	SJN	08/19/25 12:03	D18
EPA 200.7	Potassium	1.58	mg/L	1.00	0.36	2	X534025	SJN	08/19/25 12:03	D18
SM 2340 B	Hardness (as CaCO3)	2370	mg/L	4.56	2.09		N/A		08/13/25 08:27	
SM 2340 B	Hardness (as CaCO3)	2130	mg/L	4.62	1.09		N/A		08/19/25 12:03	

Metals (Dissolved)

EPA 200.7	Aluminum	440	mg/L	0.080	0.054		X533010	JRR	08/13/25 08:27	
EPA 200.7	Barium	0.0141	mg/L	0.0020	0.0019		X533010	JRR	08/13/25 08:27	
EPA 200.7	Beryllium	0.354	mg/L	0.00200	0.00080		X533010	JRR	08/13/25 08:27	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X533010	JRR	08/13/25 08:27	
EPA 200.7	Cadmium	2.20	mg/L	0.0020	0.0016		X533010	JRR	08/13/25 08:27	
EPA 200.7	Calcium	422	mg/L	0.100	0.069		X533010	JRR	08/13/25 08:27	
EPA 200.7	Chromium	0.0135	mg/L	0.0060	0.0020		X533010	JRR	08/13/25 08:27	
EPA 200.7	Cobalt	1.50	mg/L	0.0060	0.0046		X533010	JRR	08/13/25 08:27	
EPA 200.7	Copper	2.16	mg/L	0.0100	0.0027		X533010	JRR	08/13/25 08:27	
EPA 200.7	Iron	6.40	mg/L	0.100	0.056		X533010	JRR	08/13/25 08:27	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X533010	JRR	08/13/25 08:27	
EPA 200.7	Lithium	0.344	mg/L	0.040	0.025		X533010	JRR	08/13/25 08:27	
EPA 200.7	Magnesium	274	mg/L	0.500	0.090		X533010	JRR	08/13/25 08:27	
EPA 200.7	Manganese	415	mg/L	0.200	0.0850	25	X533010	JRR	08/13/25 08:44	
EPA 200.7	Molybdenum	0.0118	mg/L	0.0080	0.0034		X533010	JRR	08/13/25 08:27	
EPA 200.7	Nickel	1.49	mg/L	0.0100	0.0048		X533010	JRR	08/13/25 08:27	
EPA 200.7	Potassium	3.70	mg/L	0.50	0.18		X533010	JRR	08/13/25 08:27	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X533010	JRR	08/13/25 08:27	
EPA 200.7	Sodium	24.2	mg/L	0.50	0.12		X533010	JRR	08/13/25 08:27	
EPA 200.7	Vanadium	0.0057	mg/L	0.0050	0.0019		X533010	JRR	08/13/25 08:27	
EPA 200.7	Zinc	75.1	mg/L	0.0500	0.0270	5	X533010	JRR	08/13/25 08:36	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X532191	SMU	08/13/25 19:11	
EPA 200.8	Arsenic	0.0581	mg/L	0.00100	0.00021		X532191	SMU	08/13/25 19:11	
EPA 200.8	Selenium	0.0106	mg/L	0.00100	0.00024		X532191	SMU	08/13/25 19:11	
EPA 200.8	Thallium	< 0.000200	mg/L	0.000200	0.00008		X532191	SMU	08/13/25 19:11	
EPA 200.8	Uranium	3.81	mg/L	0.00100	0.000520	10	X532191	NMS	08/14/25 08:59	M4

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X532054	SJN	08/05/25 17:25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	< 0.0050	mg/L	0.0050	0.0048		X533076	ORW	08/13/25 16:38	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X532003	JPM	08/05/25 08:53	
EPA 350.1	Ammonia as N	0.052	mg/L	0.030	0.013		X532020	JPM	08/05/25 10:26	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X533120	ORW	08/14/25 20:00	
SM 2310 B	Acidity to pH 8.3	2810	mg/L as CaCO3	10.0			X532213	MWD	08/11/25 11:37	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X532196	MWD	08/08/25 19:27	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X532196	MWD	08/08/25 19:27	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X532196	MWD	08/08/25 19:27	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X532196	MWD	08/08/25 19:27	
SM 2540 C	Total Diss. Solids	7710	mg/L	40			X532010	TJL	08/05/25 12:50	
SM 2540 D	Total Susp. Solids	21.0	mg/L	5.0			X532013	TJL	08/05/25 12:05	
SM 4500 H B	pH @21.0°C	3.7	pH Units				X532196	MWD	08/08/25 19:27	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 10



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(208) 784-1258
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Cripple Creek & Victor Gold Mining Company Ironclad Security 1632 County Rd 82 Cripple Creek, CO 80813	Project Name: Cripple Creek/Victor Water and Soil 2024 Work Order: X5H0013 Reported: 19-Aug-25 16:09
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Client Sample ID: **OSABH-16**
SVL Sample ID: **X5H0013-01 (Ground Water)**

Sampled: 31-Jul-25 10:35
Received: 01-Aug-25
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	3.02	mg/L	1.00	0.11	5	X531033	RS	08/02/25 01:21	D18
EPA 300.0	Fluoride	98.9	mg/L	10.0	1.70	100	X531033	RS	08/02/25 01:38	
EPA 300.0	Nitrate as N	3.48	mg/L	0.250	0.065	5	X531033	RS	08/02/25 01:21	D18
EPA 300.0	Nitrate+Nitrite as N	3.49	mg/L	0.500	0.220	5	X531033	RS	08/02/25 01:21	D18
EPA 300.0	Nitrite as N	< 0.250	mg/L	0.250	0.155	5	X531033	RS	08/02/25 01:21	D18
EPA 300.0	Sulfate as SO4	5090	mg/L	75.0	45.0	250	X531033	RS	08/04/25 12:43	

Cation/Anion Balance and TDS Ratios

Cation Sum: 110 meq/L	Anion Sum: 112 meq/L	C/A Balance: -0.51 %	Calculated TDS: 5924	TDS/cTDS: 1.30
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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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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5H0013**

Reported: 19-Aug-25 16:09

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	X532042	06-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X534025	19-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X532042	06-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X534025	19-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X532042	06-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X534025	19-Aug-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X533010	13-Aug-25	
EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X533010	13-Aug-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X533010	13-Aug-25	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X533010	13-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X533010	13-Aug-25	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X533010	13-Aug-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X533010	13-Aug-25	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X533010	13-Aug-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X533010	13-Aug-25	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X533010	13-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X533010	13-Aug-25	
EPA 200.7	Calcium	mg/L	<0.100	0.069	0.100	X533010	13-Aug-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X533010	13-Aug-25	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X533010	13-Aug-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X533010	13-Aug-25	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X533010	13-Aug-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X533010	13-Aug-25	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X533010	13-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X533010	13-Aug-25	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X533010	13-Aug-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X533010	13-Aug-25	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X533010	13-Aug-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X533010	13-Aug-25	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X533010	13-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X533010	13-Aug-25	
EPA 200.7	Magnesium	mg/L	<0.500	0.090	0.500	X533010	13-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X533010	13-Aug-25	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X533010	13-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X533010	13-Aug-25	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X533010	13-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X533010	13-Aug-25	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X533010	13-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X533010	13-Aug-25	
EPA 200.7	Potassium	mg/L	<0.50	0.18	0.50	X533010	13-Aug-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X533010	13-Aug-25	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X533010	13-Aug-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X533010	13-Aug-25	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X533010	13-Aug-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X533010	13-Aug-25	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X533010	13-Aug-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X533010	13-Aug-25	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X533010	13-Aug-25	
EPA 200.8	Antimony	mg/L	<0.00100	0.00072	0.00100	X532191	13-Aug-25	
EPA 200.8	Arsenic	mg/L	<0.00100	0.00021	0.00100	X532191	13-Aug-25	
EPA 200.8	Selenium	mg/L	<0.00100	0.00024	0.00100	X532191	13-Aug-25	
EPA 200.8	Thallium	mg/L	<0.000200	0.00008	0.000200	X532191	13-Aug-25	
EPA 200.8	Uranium	mg/L	<0.000100	0.000052	0.000100	X532191	13-Aug-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X532054	05-Aug-25	
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SVL holds the following certifications:

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

Work order Report Page 4 of 10



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5H0013**

Reported: 19-Aug-25 16:09

Quality Control - BLANK Data (Continued)

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X533076	13-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X532003	05-Aug-25	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X532020	05-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	<0.0050	0.0010	0.0050	X533120	14-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X532213	11-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X532196	08-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X532196	08-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X532196	08-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X532196	08-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X532010	05-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X532013	05-Aug-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.02	0.20	X531033	01-Aug-25	
EPA 300.0	Fluoride	mg/L	<0.100	0.017	0.100	X531033	01-Aug-25	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.013	0.050	X531033	01-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.044	0.100	X531033	01-Aug-25	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X531033	01-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X531033	01-Aug-25	

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	20.1	20.0	100	85 - 115	X532042	06-Aug-25	
EPA 200.7	Calcium	mg/L	19.4	20.0	97	85 - 115	X534025	19-Aug-25	
EPA 200.7	Magnesium	mg/L	20.2	20.0	101	85 - 115	X532042	06-Aug-25	
EPA 200.7	Magnesium	mg/L	19.3	20.0	96.7	85 - 115	X534025	19-Aug-25	
EPA 200.7	Potassium	mg/L	20.2	20.0	101	85 - 115	X532042	06-Aug-25	
EPA 200.7	Potassium	mg/L	19.8	20.0	99.1	85 - 115	X534025	19-Aug-25	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.994	1.00	99.4	85 - 115	X533010	13-Aug-25	
EPA 200.7	Barium	mg/L	1.02	1.00	102	85 - 115	X533010	13-Aug-25	
EPA 200.7	Beryllium	mg/L	0.965	1.00	96.5	85 - 115	X533010	13-Aug-25	
EPA 200.7	Boron	mg/L	1.01	1.00	101	85 - 115	X533010	13-Aug-25	
EPA 200.7	Cadmium	mg/L	0.953	1.00	95.3	85 - 115	X533010	13-Aug-25	
EPA 200.7	Calcium	mg/L	19.3	20.0	96.3	85 - 115	X533010	13-Aug-25	
EPA 200.7	Chromium	mg/L	0.988	1.00	98.8	85 - 115	X533010	13-Aug-25	
EPA 200.7	Cobalt	mg/L	0.926	1.00	92.6	85 - 115	X533010	13-Aug-25	
EPA 200.7	Copper	mg/L	0.944	1.00	94.4	85 - 115	X533010	13-Aug-25	
EPA 200.7	Iron	mg/L	9.87	10.0	98.7	85 - 115	X533010	13-Aug-25	
EPA 200.7	Lead	mg/L	0.951	1.00	95.1	85 - 115	X533010	13-Aug-25	
EPA 200.7	Lithium	mg/L	0.966	1.00	96.6	85 - 115	X533010	13-Aug-25	
EPA 200.7	Magnesium	mg/L	19.5	20.0	97.4	85 - 115	X533010	13-Aug-25	
EPA 200.7	Manganese	mg/L	0.996	1.00	99.6	85 - 115	X533010	13-Aug-25	
EPA 200.7	Molybdenum	mg/L	0.987	1.00	98.7	85 - 115	X533010	13-Aug-25	
EPA 200.7	Nickel	mg/L	0.927	1.00	92.7	85 - 115	X533010	13-Aug-25	
EPA 200.7	Potassium	mg/L	19.6	20.0	98.1	85 - 115	X533010	13-Aug-25	
EPA 200.7	Silver	mg/L	0.0469	0.0500	93.8	85 - 115	X533010	13-Aug-25	
EPA 200.7	Sodium	mg/L	18.4	19.0	96.9	85 - 115	X533010	13-Aug-25	
EPA 200.7	Vanadium	mg/L	0.983	1.00	98.3	85 - 115	X533010	13-Aug-25	
EPA 200.7	Zinc	mg/L	0.952	1.00	95.2	85 - 115	X533010	13-Aug-25	
EPA 200.8	Antimony	mg/L	0.0231	0.0250	92.4	85 - 115	X532191	13-Aug-25	

SVL holds the following certifications:

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

Work order Report Page 5 of 10

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5H0013**

Reported: 19-Aug-25 16:09

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

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Dissolved) (Continued)

EPA 200.8	Arsenic	mg/L	0.0233	0.0250	93.1	85 - 115	X532191	13-Aug-25	
EPA 200.8	Selenium	mg/L	0.0228	0.0250	91.3	85 - 115	X532191	13-Aug-25	
EPA 200.8	Thallium	mg/L	0.0226	0.0250	90.4	85 - 115	X532191	13-Aug-25	
EPA 200.8	Uranium	mg/L	0.0222	0.0250	88.9	85 - 115	X532191	13-Aug-25	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00198	0.00200	99.1	85 - 115	X532054	05-Aug-25	
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Classical Chemistry Parameters

ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0996	0.100	99.6	90 - 110	X533076	13-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.101	0.100	101	90 - 110	X532003	05-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.02	1.00	102	90 - 110	X532020	05-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0928	0.100	92.8	90 - 110	X533120	14-Aug-25	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	1160	1180	98.5	95.4 - 104	X532213	11-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	10.1	9.93	102	94 - 106	X532196	08-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	100	99.3	101	94 - 106	X532196	08-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	245	250	98.0	85 - 115	X532010	05-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X532013	05-Aug-25	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	2.94	3.00	98.1	90 - 110	X531033	01-Aug-25	
EPA 300.0	Fluoride	mg/L	1.92	2.00	96.1	90 - 110	X531033	01-Aug-25	
EPA 300.0	Nitrate as N	mg/L	1.95	2.00	97.6	90 - 110	X531033	01-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.46	4.50	99.1	90 - 110	X531033	01-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.51	2.50	100	90 - 110	X531033	01-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	9.60	10.0	96.0	90 - 110	X531033	01-Aug-25	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
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Classical Chemistry Parameters

SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	444	444	0.0	20	X532213 - X5G0487-01	11-Aug-25	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	198	200	0.9	20	X532196 - X5H0043-01	08-Aug-25	
SM 2320 B	Bicarbonate	mg/L as CaCO3	198	200	0.9	20	X532196 - X5H0043-01	08-Aug-25	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X532196 - X5H0043-01	08-Aug-25	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0	<1.0	UDL	20	X532196 - X5H0043-01	08-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	252	257	2.0	10	X532010 - X5H0004-01	05-Aug-25	
SM 2540 C	Total Diss. Solids	mg/L	374	381	1.9	10	X532010 - X5H0003-04	05-Aug-25	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	<RL	10	X532013 - X5H0004-01	05-Aug-25	
SM 4500 H B	pH @21.0°C	pH Units	8.0	8.1	1.6	20	X532196 - X5H0043-01	08-Aug-25	R2B

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5H0013**

Reported: 19-Aug-25 16:09

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	437	422	20.0	73	70 - 130	X534025 - X5H0013-01	19-Aug-25	D18
EPA 200.7	Magnesium	mg/L	278	262	20.0	76.3	70 - 130	X534025 - X5H0013-01	19-Aug-25	D18
EPA 200.7	Potassium	mg/L	22.0	1.58	20.0	102	70 - 130	X534025 - X5H0013-01	19-Aug-25	D18
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	1.01	<0.080	1.00	101	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Barium	mg/L	1.07	0.0433	1.00	103	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Beryllium	mg/L	0.968	<0.00200	1.00	96.8	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	104	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Cadmium	mg/L	0.959	<0.0020	1.00	95.9	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Calcium	mg/L	72.3	53.0	20.0	96.6	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Chromium	mg/L	0.991	<0.0060	1.00	99.1	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Cobalt	mg/L	0.930	<0.0060	1.00	93.0	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Copper	mg/L	0.985	0.0252	1.00	96.0	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Iron	mg/L	9.95	<0.100	10.0	99.5	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Lead	mg/L	0.964	<0.0075	1.00	96.4	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Lithium	mg/L	1.03	<0.040	1.00	103	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Magnesium	mg/L	29.7	10.0	20.0	98.2	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Manganese	mg/L	1.00	<0.0080	1.00	100	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Nickel	mg/L	0.932	<0.0100	1.00	93.2	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Potassium	mg/L	22.4	1.45	20.0	105	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Silver	mg/L	0.0476	<0.0050	0.0500	95.3	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Sodium	mg/L	28.1	9.23	19.0	99.2	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Vanadium	mg/L	0.991	<0.0050	1.00	98.8	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.7	Zinc	mg/L	1.28	0.312	1.00	97.0	70 - 130	X533010 - X5G0495-04	13-Aug-25	
EPA 200.8	Antimony	mg/L	0.0244	<0.00100	0.0250	97.6	70 - 130	X532191 - X5H0005-02	13-Aug-25	
EPA 200.8	Antimony	mg/L	0.0236	<0.00100	0.0250	94.6	70 - 130	X532191 - X5H0013-01	13-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0279	<0.00100	0.0250	109	70 - 130	X532191 - X5H0005-02	13-Aug-25	
EPA 200.8	Arsenic	mg/L	0.0885	0.0581	0.0250	122	70 - 130	X532191 - X5H0013-01	13-Aug-25	
EPA 200.8	Selenium	mg/L	0.0263	<0.00100	0.0250	104	70 - 130	X532191 - X5H0005-02	13-Aug-25	
EPA 200.8	Selenium	mg/L	0.0330	0.0106	0.0250	89.7	70 - 130	X532191 - X5H0013-01	13-Aug-25	
EPA 200.8	Thallium	mg/L	0.0263	<0.000200	0.0250	105	70 - 130	X532191 - X5H0005-02	13-Aug-25	
EPA 200.8	Thallium	mg/L	0.0260	<0.000200	0.0250	104	70 - 130	X532191 - X5H0013-01	13-Aug-25	
EPA 200.8	Uranium	mg/L	0.0643	0.0351	0.0250	117	70 - 130	X532191 - X5H0005-02	13-Aug-25	
EPA 200.8	Uranium	mg/L	3.12	3.81	0.0250	0.30R>S	70 - 130	X532191 - X5H0013-01	14-Aug-25	M4
Metals (Filtered)										
EPA 245.1	Mercury	mg/L	0.00204	<0.000200	0.00200	102	70 - 130	X532054 - X5G0467-01	05-Aug-25	
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0977	<0.0050	0.100	97.7	79 - 121	X533076 - X5H0116-01	13-Aug-25	
EPA 335.4	Cyanide (total)	mg/L	0.100	<0.0050	0.100	100	90 - 110	X532003 - X5G0495-04	05-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	99.9	90 - 110	X532020 - X5G0530-01	05-Aug-25	
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X532020 - X5G0522-01	05-Aug-25	
OIA 1677	Cyanide (WAD)	mg/L	0.0937	<0.0050	0.100	93.7	82 - 118	X533120 - X5H0123-05	14-Aug-25	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.07	<0.20	3.00	101	90 - 110	X531033 - X5G0434-10	01-Aug-25	
EPA 300.0	Chloride	mg/L	3.39	0.37	3.00	101	90 - 110	X531033 - X5H0006-01	02-Aug-25	
EPA 300.0	Fluoride	mg/L	2.01	<0.100	2.00	98.9	90 - 110	X531033 - X5G0434-10	01-Aug-25	

**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5H0013**

Reported: 19-Aug-25 16:09

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Anions by Ion Chromatography (Continued)										
EPA 300.0	Fluoride	mg/L	2.03	<0.100	2.00	99.5	90 - 110	X531033 - X5H0006-01	02-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.00	<0.050	2.00	98.9	90 - 110	X531033 - X5G0434-10	01-Aug-25	
EPA 300.0	Nitrate as N	mg/L	2.00	<0.050	2.00	99.0	90 - 110	X531033 - X5H0006-01	02-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.07	<0.100	4.00	102	90 - 110	X531033 - X5G0434-10	01-Aug-25	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.02	<0.100	4.00	101	90 - 110	X531033 - X5H0006-01	02-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.07	<0.050	2.00	103	90 - 110	X531033 - X5G0434-10	01-Aug-25	
EPA 300.0	Nitrite as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X531033 - X5H0006-01	02-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	9.78	<0.30	10.0	97.8	90 - 110	X531033 - X5G0434-10	01-Aug-25	
EPA 300.0	Sulfate as SO4	mg/L	10.1	0.49	10.0	95.8	90 - 110	X531033 - X5H0006-01	02-Aug-25	

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	72.3	73.3	20.0	1.0	20	105	X532042 - X5G0477-01	
EPA 200.7	Calcium	mg/L	442	437	20.0	1.0	20	99	X534025 - X5H0013-01	D18
EPA 200.7	Magnesium	mg/L	29.0	29.7	20.0	2.7	20	105	X532042 - X5G0477-01	
EPA 200.7	Magnesium	mg/L	279	278	20.0	0.6	20	84.9	X534025 - X5H0013-01	D18
EPA 200.7	Potassium	mg/L	42.8	43.3	20.0	1.3	20	105	X532042 - X5G0477-01	
EPA 200.7	Potassium	mg/L	22.4	22.0	20.0	1.8	20	104	X534025 - X5H0013-01	D18

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	1.02	1.01	1.00	0.4	20	102	X533010 - X5G0495-04	
EPA 200.7	Barium	mg/L	1.07	1.07	1.00	0.1	20	103	X533010 - X5G0495-04	
EPA 200.7	Beryllium	mg/L	0.972	0.968	1.00	0.3	20	97.2	X533010 - X5G0495-04	
EPA 200.7	Boron	mg/L	1.05	1.04	1.00	0.5	20	105	X533010 - X5G0495-04	
EPA 200.7	Cadmium	mg/L	0.956	0.959	1.00	0.4	20	95.6	X533010 - X5G0495-04	
EPA 200.7	Calcium	mg/L	72.9	72.3	20.0	0.8	20	99.3	X533010 - X5G0495-04	
EPA 200.7	Chromium	mg/L	0.997	0.991	1.00	0.6	20	99.7	X533010 - X5G0495-04	
EPA 200.7	Cobalt	mg/L	0.926	0.930	1.00	0.4	20	92.6	X533010 - X5G0495-04	
EPA 200.7	Copper	mg/L	0.986	0.985	1.00	0.1	20	96.1	X533010 - X5G0495-04	
EPA 200.7	Iron	mg/L	9.96	9.95	10.0	0.2	20	99.6	X533010 - X5G0495-04	
EPA 200.7	Lead	mg/L	0.960	0.964	1.00	0.5	20	96.0	X533010 - X5G0495-04	
EPA 200.7	Lithium	mg/L	1.02	1.03	1.00	0.7	20	102	X533010 - X5G0495-04	
EPA 200.7	Magnesium	mg/L	29.7	29.7	20.0	0.1	20	98.1	X533010 - X5G0495-04	
EPA 200.7	Manganese	mg/L	1.00	1.00	1.00	0.1	20	100	X533010 - X5G0495-04	
EPA 200.7	Molybdenum	mg/L	1.01	1.02	1.00	0.7	20	101	X533010 - X5G0495-04	
EPA 200.7	Nickel	mg/L	0.928	0.932	1.00	0.4	20	92.8	X533010 - X5G0495-04	
EPA 200.7	Potassium	mg/L	22.5	22.4	20.0	0.6	20	105	X533010 - X5G0495-04	
EPA 200.7	Silver	mg/L	0.0480	0.0476	0.0500	0.9	20	96.1	X533010 - X5G0495-04	
EPA 200.7	Sodium	mg/L	28.2	28.1	19.0	0.3	20	99.7	X533010 - X5G0495-04	
EPA 200.7	Vanadium	mg/L	0.996	0.991	1.00	0.5	20	99.3	X533010 - X5G0495-04	
EPA 200.7	Zinc	mg/L	1.28	1.28	1.00	0.4	20	96.5	X533010 - X5G0495-04	
EPA 200.8	Antimony	mg/L	0.0249	0.0244	0.0250	2.0	20	99.5	X532191 - X5H0005-02	
EPA 200.8	Arsenic	mg/L	0.0275	0.0279	0.0250	1.3	20	108	X532191 - X5H0005-02	
EPA 200.8	Selenium	mg/L	0.0264	0.0263	0.0250	0.4	20	104	X532191 - X5H0005-02	
EPA 200.8	Thallium	mg/L	0.0267	0.0263	0.0250	1.3	20	107	X532191 - X5H0005-02	
EPA 200.8	Uranium	mg/L	0.0650	0.0643	0.0250	1.1	20	120	X532191 - X5H0005-02	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00204	0.00204	0.00200	0.2	20	102	X532054 - X5G0467-01	
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www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5H0013**

Reported: 19-Aug-25 16:09

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
Classical Chemistry Parameters										
ASTM D7237-15A	Cyanide (free) @ pH 6	mg/L	0.0983	0.0977	0.100	0.6	11	98.3	X533076 - X5H0116-01	
EPA 335.4	Cyanide (total)	mg/L	0.0981	0.100	0.100	2.0	20	98.1	X532003 - X5G0495-04	
EPA 350.1	Ammonia as N	mg/L	1.05	1.01	1.00	3.9	20	104	X532020 - X5G0530-01	
OIA 1677	Cyanide (WAD)	mg/L	0.0976	0.0937	0.100	4.1	11	97.6	X533120 - X5H0123-05	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.00	3.07	3.00	2.4	20	98.3	X531033 - X5G0434-10	
EPA 300.0	Fluoride	mg/L	1.97	2.01	2.00	2.3	20	96.6	X531033 - X5G0434-10	
EPA 300.0	Nitrate as N	mg/L	1.94	2.00	2.00	3.0	20	95.9	X531033 - X5G0434-10	
EPA 300.0	Nitrate+Nitrite as N	mg/L	3.96	4.07	4.00	2.7	20	99.0	X531033 - X5G0434-10	
EPA 300.0	Nitrite as N	mg/L	2.02	2.07	2.00	2.5	20	101	X531033 - X5G0434-10	
EPA 300.0	Sulfate as SO4	mg/L	9.50	9.78	10.0	2.9	20	95.0	X531033 - X5G0434-10	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net**Cripple Creek & Victor Gold Mining Company**

Ironclad Security 1632 County Rd 82

Cripple Creek, CO 80813

Project Name: Cripple Creek/Victor Water and Soil 2024Work Order: **X5H0013**

Reported: 19-Aug-25 16:09

Notes and Definitions

D18	Due to a published chemical interference, a sample dilution was performed.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
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.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
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

Attachment 2

Surface Water Calculations

GV-06		
Sample Date:		7/23/2025
Data for Calculations:		
pH	7.43	std units
Hardness	182	mg/L
Temperature	17.3	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	3.866	14.710
Boron	0.750	---
Chloride	250.000	---
Chlorine	0.011	0.019
Cyanide (Free)	---	0.005
Nitrate	---	10.000
Nitrite	0.050	---
Sulfide	0.002	---
Sulfate	250.000	---
Phosphorus	0.110	---
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.00300
Cadmium	0.00314	0.00113
Cadmium (T)	0.00500	---
Chromium (III)	---	0.12104
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.02363	0.01494
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.12314	0.00480
Lead (T)	0.05000	---
Manganese	3.64479	2.01375
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.77712	0.08631
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00568	0.00021
Uranium	0.01680	0.01680
Zinc	0.27583	0.20891

GV-06 Results
Physical
7.43
17.3
Inorganic
0.034
<0.0400
7.53
--
<0.0050
0.149
<0.050
<0.050
89.1
0.097
Metals
<0.00100
<0.00100
<0.000100
<0.000100
<0.00600
<0.0110
<0.0050
0.00041
0.129
2.77
<0.00020
0.00188
0.393
0.00000278
<0.0080
<0.0100
0.0101
<0.00100
<0.00008
0.00218
0.0134

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

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

- Invalid results, past regulatory hold time

GV-05		
Sample Date:		7/23/2025
Data for Calculations:		
pH	8.06	std units
Hardness	168	mg/L
Temperature	16.2	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	5.010	1.999
Boron	---	0.750
Chloride	---	250.000
Chlorine	0.019	0.011
Cyanide (Free)	0.005	---
Nitrate	10.000	---
Nitrite	---	0.050
Sulfide	---	0.002
Sulfate	---	250.000
Phosphorus	---	0.110
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.00300
Cadmium	0.00291	0.00106
Cadmium (T)	0.00500	---
Chromium (III)	---	0.11336
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.02191	0.01395
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.11306	0.00441
Lead (T)	0.05000	---
Manganese	3.54890	1.96077
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.72623	0.08066
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00495	0.00018
Uranium	0.01680	0.01680
Zinc	0.25646	0.19425

GV-05 Results
Physical
8.06
16.2
Inorganic
<0.030
<0.0400
9.39
--
<0.0050
0.067
<0.050
<0.050
57.9
0.074
Metals
<0.00100
<0.00100
<0.000100
<0.000100
<0.00600
<0.0110
<0.0050
0.00041
0.156
2.52
<0.00020
0.00059
0.171
0.00000187
<0.0080
0.0105
<0.0100
<0.00100
<0.00008
0.00115
0.0133

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

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

- Invalid results, past regulatory hold time

GV-4.5		
Sample Date:		7/23/2025
Data for Calculations:		
pH	6.86	std units
Hardness	147	mg/L
Temperature	10.4	Celsius
Regulation 32 (5 CCR 1002-32) COARUA24 Standards		
Physical	Acute	Chronic
pH (std. units)	6.5 - 9.0	---
Temperature (°C)	< 21.7	< 17
Inorganic	Acute (mg/L)	Chronic (mg/L)
Ammonia	26.929	6.192
Boron	---	0.750
Chloride	---	250.000
Chlorine	0.019	0.011
Cyanide (Free)	0.005	---
Nitrate	10.000	---
Nitrite	---	0.050
Sulfide	---	0.002
Sulfate	---	250.000
Phosphorus	---	0.110
Metals	Acute (mg/L)	Chronic (mg/L)
Arsenic	0.34000	---
Arsenic (T)	---	0.00300
Cadmium	0.00257	0.00096
Cadmium (T)	0.00500	---
Chromium (III)	---	0.10161
Chromium (III) (T)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.01932	0.01245
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.09798	0.00382
Lead (T)	0.05000	---
Manganese	3.39450	1.87547
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.64866	0.07205
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00394	0.00015
Uranium	0.01680	0.01680
Zinc	0.22714	0.17204

GV-4.5 Results
Physical
6.86
10.4
Inorganic
<0.030
<0.0400
28.2
--
<0.0050
0.136
<0.050
<0.050
49.6
0.092
Metals
<0.00100
<0.00100
<0.000100
<0.000100
<0.00600
<0.0110
<0.0050
0.00044
1.78
6.43
<0.00020
0.0005
0.594
0.0000018
<0.0080
0.0105
<0.0100
<0.00100
<0.00008
0.000359
0.0123

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

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

- Invalid results, past regulatory hold time

Attachment 3

Sampling Logs



SSR Mining
Cripple Creek & Victor Gold Mining Co
Ground Water Sampling Log

Location: EMP-16

Date: 7/21/25

Technician: J. Cranford

Quarter: 3

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

Sample Method: _____

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 74° F, Overcast

Signature: _____

Comments / Notes:

EMP-16 is dry,

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

QC: T Reed.



SSR Mining
Cripple Creek & Victor Gold Mining Co
Ground Water Sampling Log

Location: EMP-17

Date: 7/21/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:35	— Dry —	—	—	—

Sample Method: _____

Oil/Gas visible ☒ ~~Y~~ ☒ ~~N~~

Turbid ☒ ~~Y~~ ☒ ~~N~~

Clear ☒ ~~Y~~ ☒ ~~N~~

Weather: 74°F, overcast

Signature: _____

Comments / Notes:

EMP-17 is dry.

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

QC: F. Reed.



SSR Mining
Cripple Creek & Victor Gold Mining Co
Ground Water Sampling Log

Location: EMP-17A

Date: 7/21/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:34	Dry			

Sample Method: _____

Oil/Gas visible

[Y/N]

Turbid

[Y/N]

Clear

[Y/N]

Weather:

74°F, overcast

Signature:

Comments / Notes:

EMP-17A is dry.

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

QC: T. Fred.



SSR Mining
Cripple Creek & Victor Gold Mining Co
Ground Water Sampling Log

Location: EMP-17B

Date: 7/21/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:35	-Dry			

Sample Method:

Oil/Gas visible [Y/N]

Turbid [Y/N]

Clear [Y/N]

Weather: 74°F, overcast

Signature: [Signature]

Comments / Notes:

EMP-17B is dry.

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

Qe.T. Reed.



SSR Mining
Cripple Creek & Victor Gold Mining Co
Ground Water Sampling Log

Location: EMP-17C

Date: 7/21/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:42	Dry			

Sample Method: _____

Oil/Gas visible ~~Y/N~~

Turbid ~~Y/N~~

Clear ~~Y/N~~

Weather: 74°F, Overcast

Signature: _____

Comments / Notes:

EMP-17C is dry.

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

QC: T. Reed.



SSR Mining
Cripple Creek & Victor Gold Mining Co
Ground Water Sampling Log

Location: EMP-20

Date: 7/21/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
10:48	— Dry	—	—	—

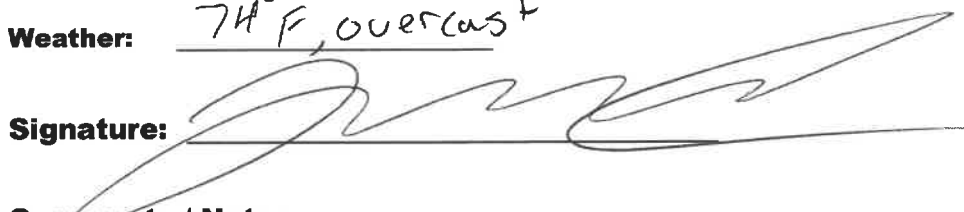
Sample Method:

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 74°F, overcast

Signature: 

Comments / Notes:

EMP-20 is dry.

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

QC: T. Reed.



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

Location: GV-02

Date: 7/23/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
1:05	— Dry	—	—	—

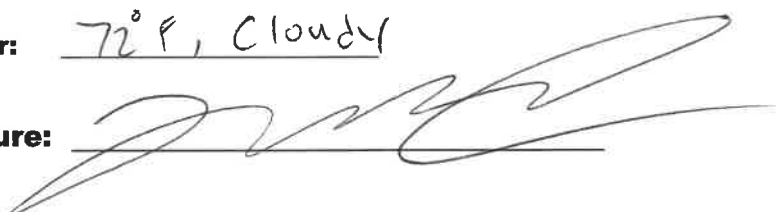
Sample Method:

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 72° F, Cloudy

Signature: 

Comments / Notes:

GV-02 is dry

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

QC: T. Reed.



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

Location: GV-03

Date: 7/23/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
1:08	<u>— Dry —</u>	<u>—</u>	<u>—</u>	<u>—</u>

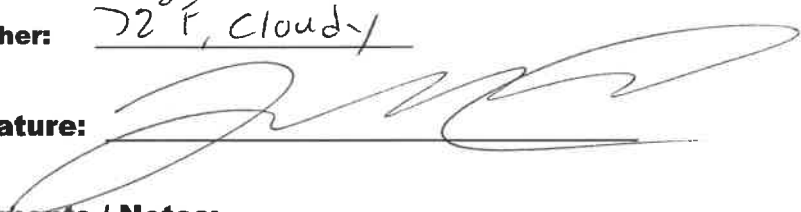
Sample Method:

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

Turbid ~~[Y/N]~~

Clear ~~[Y/N]~~

Weather: 72°F, cloudy

Signature: 

Comments / Notes:

GV-03 is dry.

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

QC: T Reed.



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

Location: GV-4.5

Date: 7/23/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
12:35	6.86	391.3	10.4	-14

chlorine

0.49

Sample Method: grab

Oil/Gas visible ☒ Y ☒ N

Turbid ☒ Y ☒ N

Clear ☒ Y ☒ N

Weather: 72° F overcast

Signature:

Comments / Notes:

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

Qc T-feed



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

Location: GV-05

Date: 7/23/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP
1:00	8.05	346.0	16.7	165

cloudy

0.2/5

Sample Method: grab

Oil/Gas visible ☒ Y ☐ N

Turbid ☒ Y ☐ N

Clear ☐ Y ☒ N

Weather: 72°F, Cloudy

Signature: [Signature]

Comments / Notes:

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

Geit. Reed



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

Location: GV-06

Date: 7/23/25

Technician: J. Cranford

Quarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	ORP	Chloride
12:05	7.43	430.2	17.3	149	0.144

Sample Method: grab

Oil/Gas visible ☒ **Y** ☐ **N**

Turbid ☒ **Y** ☐ **N** - slightly

Clear ☐ **Y** ☒ **N**

Weather: 70°F, overcast

Signature:

Comments / Notes:

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

QC: T. Reed

Groundwater Sampling Log

Date: 7/30/25

Quarter: 3

Well ID: Germu-10

Well Depth (TD): 270'

feet

If so Dry at: _____ feet

Sample Method: 10w-P10w Rate (gpm): 0.11 Time Start: 9:43 Time End: 10:18
* Flow rate at stabilization (during sample collection)

If Low Flow Met¹ Drawdown greater than 0.33 ft? **Y** **(N)** If yes, required pump vol (gal): _____ Actual vol. pumped (gal) _____
following stabilization
* See Field Volume Guide

Weather: 58°F. Overcast,
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:

Q.C.T. Reed.

Groundwater Sampling Log

Grossy Valley

7/8/25

T. Reed.

3

92.10

GUMW-15A

22

—

355.59

Total Drawdown
0.23'

Low-flow

0,1

12:13

Time End: 12:38

* Flow rate at stabilization (during sample collection)

pH	6.40	±0.1	Y / N
Conductivity	7367	3%	Y / N
Temp (deg C)	7.9	3%	Y / N
Dissolved Oxygen	0.54	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	2.7	±10	Y / N
DTW Stabilized	92.43	feet	Y / N
Final H2O level	92.43	feet	

Y / (N)

—

Actual vol. pumped (gal)

~3.5 gal

* See Field Volume Guide

following stabilization

Y / N

Y / N

Q / N

• Triple Ring liquid knot

71° F Sunny +

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:

Qc: J. Cranford



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Yucca Valley Date: 7/8/25
 Technician: J. Cranford Quarter: 3
 Static Water Level (DTW): 78.85 Well ID: GUMW-15B
 Is well Dry? NO If so Dry at: — Well Depth (TD): 102'
 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (mg/L)	ORP	Notes
12:15			4.44	569.2	8.66	0.85	230.5	
12:20	79.04	0.19	4.55	581.5	8.22	0.43	223.7	0.11 gpm
12:25	79.09	0.05	4.54	580.3	8.36	0.31	223.7	
12:30	79.10	0.01	4.52	581.0	8.41	0.22	226.5	
Total drawdown								
0.25								

Sample Method: low-flow Rate (gpm): 0.11 Time Start: 12:15 Time End: 12:30
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	4.52	Y	N
Conductivity	581.0	Y	N
Temp (deg C)	8.41	Y	N
Dissolved Oxygen	0.22	Y	N
Turbidity		Y	N
Oxidation/Reduction Potential	226.5	Y	N
DTW Stabilized	79.09	Y	N
Final H2O level	79.10		

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

O/G visible: Y (N) Turbid? Y (N)
 Equipment Decontaminated: Y (N) Triple rinse, Alconox
 Decontamination procedure used: —

Weather: 68° 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: $h(ft) = \text{Total Depth}(TD)(ft) - \text{Depth to Water}(DTW)(ft)$	
Well Volume Purge Method: $\text{Three Well Volumes} = 3 * V$	
Conversions:	Show Calculations:
1 ft ³ = 7.48 gal 1 gal = 3.785 L	

QC: T. Reed

Groundwater Sampling Log

Date: 7/8/25

Quarter: 3

Well ID: Grmw-15C

If so Dry at: 418' Well Depth (TD): 418'
feet

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

Time End:

* Flow rate at stabilization (during sample collection)

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

Actual vol. pumped (gal)

* See Field Volume Guide

Y 3 M

~~Y/N~~

Y 2

Decontamination procedure used:

Tripple rinse, Alconox

71°F, Sunny

Signature:

Show Calculations:

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

QC: T. Reed

Groundwater Sampling Log

og

Date: 7/1/25

Quarter: 2

Well ID: GUNSW-224

Well Depth (TD): 70

feet

If so Dry at:

Sample Method: low-flow Rate (gpm): 0.04 Time Start: 12:35 Time End: 1:05
* Flow rate at stabilization (during sample collection)

If Low Flow Metri Drawdown greater than 0.33 ft? (Y) / N If yes, required pump vol (gal): 1 Actual vol. pumped (gal) 2200
following stabilization
* See Field Volume Guide

Weather: 68°F, Sunny

Signature:

Qc: T. Red.

Groundwater Sampling Log

Date: 1/4/23

Quarter: 3

Well ID: 60mu-22B

Well Depth (TD): 30
feet

~~1111~~
~~1111~~
 1111

* Flow rate at stabilization (during sample collection)

pH	6.54	±0.1	0 / N
Conductivity	331.8	3%	0 / N
Temp (deg C)	7.1	3%	0 / N
Dissolved Oxygen	0.49	10%	0 / N
Turbidity		10%	0 / N
Oxidation/Reduction Potential	198.1	±10	0 / N
DTW Stabilized	4.35	feet	0 / N
Final H2O level	4.23	feet	

* See Field Volume Guide

Equipment Decontaminated: 21 N

Decontamination procedure used: triple fence Alc knot

Weather: 700 f Sunny

Signature:

Q. c: J. Crawford



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley

Date: 7/1/25

Technician: J. Cranford

Quarter: 3

Static Water Level (DTW): 215.52

Well ID: Guma-24A

Is well Dry? no

If so Dry at: _____

Well Depth (TD): 250
feet

[illegible]

Sample Method: _____ Rate (gpm): _____ Time Start: _____ Time End: _____

* Flow rate at stabilization (during sample collection)

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

If Low Flow Met₃ Drawdown greater than 0.33 ft? ☒ Y / ☐ N

* See Field Volume Guide

* See Field Volume Guide

If yes, required pump vol (gal): _____ Actual vol. pumped (gal) _____
following stabilization

O/G visible:

Equipment Decontaminated: 

Turbid? ~~Y~~/N

Decontamination procedure used:

Triple ringe AlCl₃/Ox

Weather: 63°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:

Groundwater Sampling Log

Date: 7/125

Quarter: 3

Well ID: GLMC-24B

If so Dry at:

Well Depth (TD): 700
feet

total
Draw down
02.13

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	5.54	±0.1	X / N
Conductivity	2370	3%	X / N
Temp (deg C)	4.29	3%	X / N
Dissolved Oxygen	5.92	10%	X / N
Turbidity		10%	X / N
Oxidation/Reduction Potential	791.1	±10	X / N
DTW Stabilized	89.34	feet	(X) / N
Final H2O level	89.35	feet	

* See Field Volume Guide

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

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:

QC: T. Reed.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location :

Date:

Technician:

Quarter:

Static Water Level (DTW):

Well ID:

Is well Drv?

If so Dry at:

Well Depth (TD):
feet

[illegible]

Sample Method:

Rate (gpm):

Time Start:

Time End:

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	3.53	±0.1	Y / N
Conductivity	3,626	3%	Y / N
Temp (deg C)	4.39	3%	Y / N
Dissolved Oxygen	2.10	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	550.9	±10	Y / N
DTW Stabilized	48.55	feet	Y / N
Final H2O level	49.55	feet	

If Low Flow Metri Drawdown greater than 0.33 ft?

$$Y / \textcircled{N}$$

If yes, required pump vol (gal):

Actual vol. pumped (gal)

* See Field Volume Guide

O/G visible:

Equipment Decontaminated:

Turbid?

Decontamination procedure used:

Weather:

Signature:

Volume Calculations:

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

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

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

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

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

Conversions:

$$1 \text{ ft}^3 = 7.48 \text{ gal}$$
$$1 \text{ gal} = 3,785 \text{ L}$$

Show Calculations:

Q. T. Reed.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 7/1/25
 Technician: T. Reed Quarter: 3
 Static Water Level (DTW): 5190 Well ID: GUMW-36B
 Is well Dry? No If so Dry at: — Well Depth (TD): 25, 85
 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
10:59			6.40	~~124.1~~	6.4	7.3	197.1	
11:04	6.00	0.1	6.39	124.1	6.3	7.3	198.7	0.10 gpm
11:09	6.01	0.01	6.41	123.4	6.0	7.2	198.7	
11:14	6.01	0.00	6.43	123.1	5.9	7.2	197.0	
11:19	6.01	0.00	6.42	122.3	5.9	7.2	198.2	
Total Drawdown 0.11								

Sample Method: Low-Flow Rate (gpm): 0.10 Time Start: 10:59 Time End: 11:19
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	6.42	Y / N	
Conductivity	122.3	Y / N	
Temp (deg C)	5.9	Y / N	
Dissolved Oxygen	7.2	Y / N	
Turbidity	—	Y / N	
Oxidation/Reduction Potential	198.2	Y / N	
DTW Stabilized	6.01	Y / N	
Final H2O level	6.01	Y / N	

If Low Flow Met Drawdown greater than 0.33 ft? Y (N) If yes, required pump vol (gal): — Actual vol. pumped (gal) ~ 3.5
 * 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: 63°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:

QC: J. Cranford



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley
 Technician: J. Crunford
 Static Water Level (DTW): 55.45

Date: 7/17/25
 Quarter: 3
 Well ID: Gumw-27
 Well Depth (TD): 72.96
 feet

Is well Dry? no If so Dry at: —

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO (ml/l)	ORP	Notes
10:50			5.03	3,440	9.60	0.98	282.7	
10:55	55.44	0.04	4.73	3,013	9.72	0.24	245.5	
11:00	56.00	0.01	4.65	2,594	9.78	0.15	306.0	0.10 gpm
11:05	56.02	0.02	4.60	2,773	9.84	0.12	322.6	
11:10	56.01	0.01	4.55	2,626	9.91	0.11	354.8	
11:15	56.06	0.05	4.51	2,475	9.01	0.15	373.6	
11:20	56.10	0.04	4.46	2,304	9.16	0.23	356.3	
11:25	56.12	0.02	4.48	2,297	9.07	0.46	384.2	
11:30	56.12	0.00	4.49	2,269	9.04	0.47	383.5	

Sample Method: low-flow Rate (gpm): 0.10 Time Start: 10:50 Time End: 11:30
 * Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	4.49	Y / N	
Conductivity	2,269	Y / N	
Temp (deg C)	9.04	Y / N	
Dissolved Oxygen	0.47	Y / N	
Turbidity	—	Y / N	
Oxidation/Reduction Potential	383.5	Y / N	
DTW Stabilized	56.10	Y / N	
Final H2O level	56.12	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
 * See Field Volume Guide following stabilization

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

Weather: 68°F, 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:
 1 ft³ = 7.48 gal
 1 gal = 3.785 L

Show Calculations:

CC: T. Reed.



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley

Technician: J. Cranford

Static Water Level (DTW): 33.10

Date: 7/14/25

Quarter: 3

Well ID: GLMU 28

Is well Dry? NO

If so Dry at: _____

Well Depth (TD): 71.56
feet

[illegible]

Sample Method: 10w-flow Rate (gpm): 0.69 Time Start: 10:10 Time End: 70:25
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	2.87	±0.1	Y / N
Conductivity	5471	3%	Y / N
Temp (deg C)	8.37	3%	Y / N
Dissolved Oxygen	5.30	10%	Y / N
Turbidity		10%	Y / N
Oxidation/Reduction Potential	624.0	±10	Y / N
DTW Stabilized	34.22	feet	Y / N
Final H2O level	30.24	feet	

If Low Flow Met³ Drawdown greater than 0.33 ft? Y / N If yes, required pump vol (gal): 1 / Actual vol. pumped (gal) 2
* See Field Volume Guide
following stabilization

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

Decontamination procedure used: Triple rinse, Alconox

Weather: 68°F, Sunny

Signature: 

Volume Calculations:	
For 2" Diameter Well (gal): $V(gal) = 0.1632 * h(ft)$	For 4" Diameter Well (gal): $V(gal) = 0.6528 * h(ft)$
Other Diameter Well & Tubing Vol (gal): $V(gal) = 0.1632 * (r(in))^2 * h(ft)$	
Water Column Calculation: $h(ft) = Total\ Depth(TD)(ft) - Depth\ to\ Water(DTW)(ft)$	
Well Volume Purge Method: $Three\ Well\ Volumes = 3 * V$	
Conversions: $1ft^3 = 7.48\ gal$ $1gal = 3.785\ l$	Show Calculations: $0.77 + 0.41 = 1.1$

Q.C.T. Feed



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy valley

Log 7/15/25
Date: _____

Technician: S. Cranford

Quarter: 3

Static Water Level (DTW): 37.93

Well ID: GumW-29

Is well Dry? Yes

If so Dry at: 37.93 Well Depth (TD): 38.05
feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (5.0-9.0)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
Dry								

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

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

If Low Flow Met₁ Drawdown greater than 0.33 ft? ~~Y~~ N If yes, required pump vol (gal): _____ Actual vol. pumped (gal) _____
following stabilization

* See Field Volume Guide

O/G visible: Turbid?

Equipment Decontaminated:  

Decontamination procedure used: 1. Wipe house, A/C lines

Weather: 65°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:



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley Date: 7/15/25
 Technician: J. Cranford Quarter: 3
 Static Water Level (DTW): 42.18 Well ID: 6Cmw-3c
 Is well Dry? no If so Dry at: — Well Depth (TD): 51.29 feet

Time	Depth to Water (ft)	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	DO mg/L	ORP	Notes
9:00			3.53	4,200	8.52	8.22	569.4	
9:05	42.89	0.71	3.55	4,217	8.61	8.19	571.0	
9:10	43.08	0.19	3.58	4,146	8.64	8.10	570.1	0.09 gpm
9:15	43.24	0.16	3.63	4,182	8.71	8.04	563.2	
9:20	43.28	0.04	3.66	4,151	8.79	7.85	560.2	
9:25	43.31	0.03	3.67	4,143	8.84	7.88	558.9	
		Total Drawdown						
		1.03						

Sample Method: low-flow Rate (gpm): 0.09 Time Start: 9:00 Time End: 9:25
* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Met?	Comments
pH	3.67	±0.1	(Y) N
Conductivity	4,143	3%	(Y) N
Temp (deg C)	8.84	3%	(Y) N
Dissolved Oxygen	7.88	10%	(Y) N
Turbidity		10%	(Y) N
Oxidation/Reduction Potential	558.9	±10	(Y) N
DTW Stabilized	43.28	feet	(Y) N
Final H2O level	43.31	feet	

If Low Flow Met? Drawdown greater than 0.33 ft? (Y) N If yes, required pump vol (gal): 0.89 Actual vol. pumped (gal): ~2.25
* See Field Volume Guide
 following stabilization

O/G visible: (Y) N Turbid? (Y) N
 Equipment Decontaminated: (Y) N
 Decontamination procedure used: Toilet Wipe, Alconox

Weather: 65°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: $h(ft) = \text{Total Depth}(TD)(ft) - \text{Depth to Water}(DTW)(ft)$
 Well Volume Purge Method: $\text{Three Well Volumes} = 3 * V$
 Conversions: $1ft^3 = 7.48 gal$ $1gal = 3.785 L$
 Show Calculations: 0.60 + 0.29 = 0.89

QC: T. Reed

Groundwater Sampling Log

Location :

Technician:

Static Water Level (DTW):

Date:

Quarter:

Well ID:

Is well Dry?

If so Dry at:

Well Depth (TD):
feet

[illegible]

Sample Method:

Rate (gpm):

Time Start:

Time End:

* Flow rate at stabilization (during sample collection)

Final Parameter	Stabilization Guidance	Mel7	Comments
pH	±0.1	Y / N	
Conductivity	3%	Y / N	
Temp (deg C)	3%	Y / N	
Dissolved Oxygen	10%	Y / N	
Turbidity	10%	Y / N	
Oxidation/Reduction Potential	±10	Y / N	
DTW Stabilized	feet	Y / N	
Final H2O level	feet		

If Low Flow Met: Drawdown greater than 0.33 ft?

If yes, required pump vol (gal):
following stabilization

Actual vol. pumped (gal)

* See Field Volume Guide

O/G visible:

Equipment Decontaminated:

Decontamination procedure used:

Turbid?

Weather:

Signature:

Volume Calculations:

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

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

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

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

Well Volume Purge Method: *Three Well Volumes = $3 \times V$*

Conversions:

$$1 \text{ ft}^3 = 7.48 \text{ gal}$$
$$1 \text{ gal} = 3.785 \text{ L}$$

Show Calculations:



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: 0.55 valley

Date: _____

Technician: J. Cranford

Quarter: 3

Static Water Level (DTW): 66.73

Well ID: 6644-52

Is well Dry? yes

If so Dry at: 66.13 feet

Well Depth (TD): 6117
feet

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

Sample Method: _____ Rate (gpm): _____ Time Start: _____ Time End: _____

* Flow rate at stabilization (during sample collection)

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

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

* See Field Volume Guide

* See Field Volume Guide

O/G visible:  Turbid? 

Equipment Decontaminated: (Y) / N

Decontamination procedure used: 1. 0.1% bleach, 17C 11/04

Weather: 65° 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:

Groundwater Sampling Log

If so Dry at: _____

Q.C: Jordan
Cranford



Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location: Grassy Valley

Date: 7/15/25

Technician: J. Cranford

Quarter: 3

Static Water Level (DTW): 60.83

Well ID: GUMW-133E

Is well Dry? no

If so Dry at: _____

Well Depth (TD): 60.71
feet

[illegible]

Sample Method: low-flow Rate (gpm): 0.09 Time Start: 10:30 Time End: 10:30

* Flow rate at stabilization (during sample collection)

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

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

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

Decontamination procedure used: Triple rinse, Alconox

Weather: 67°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:

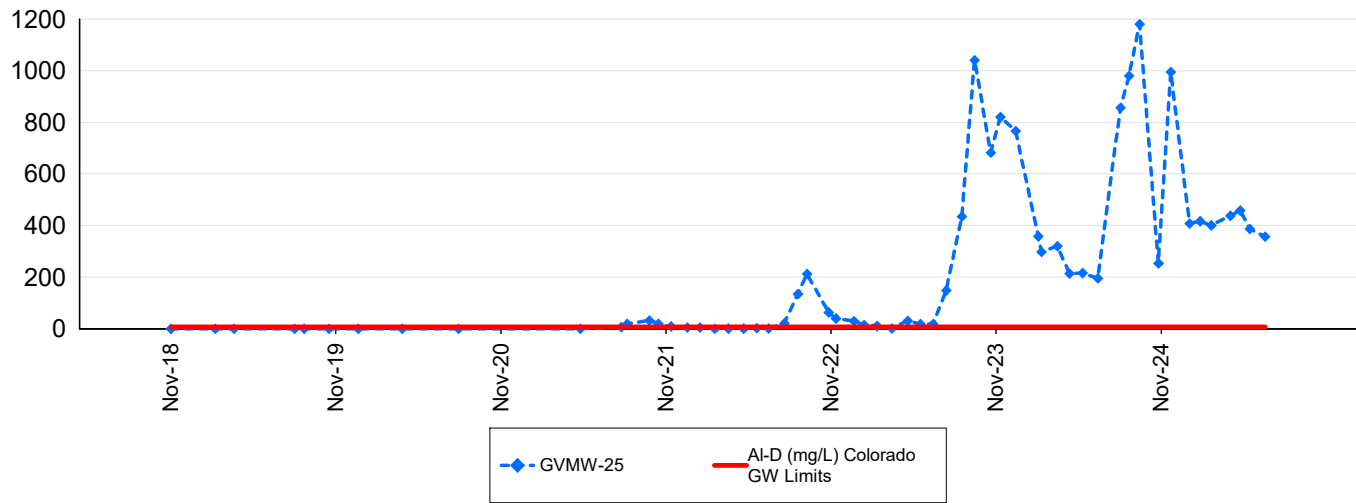
Notes: Duplicate of Gumm-33.

QC: T. Reed

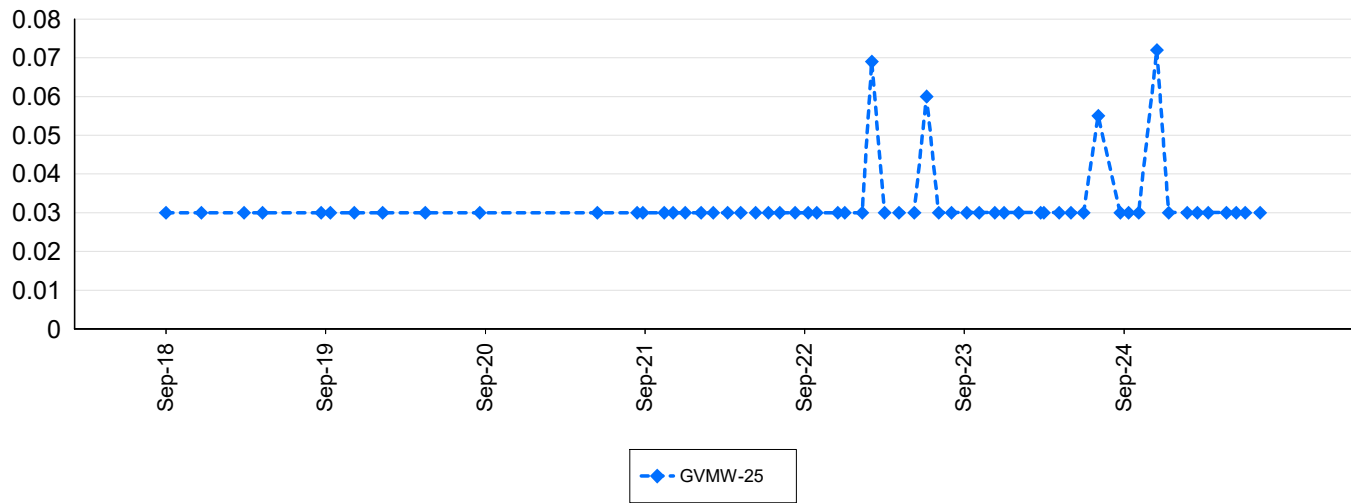
Attachment 4

GVMW-25 Historical Graphs

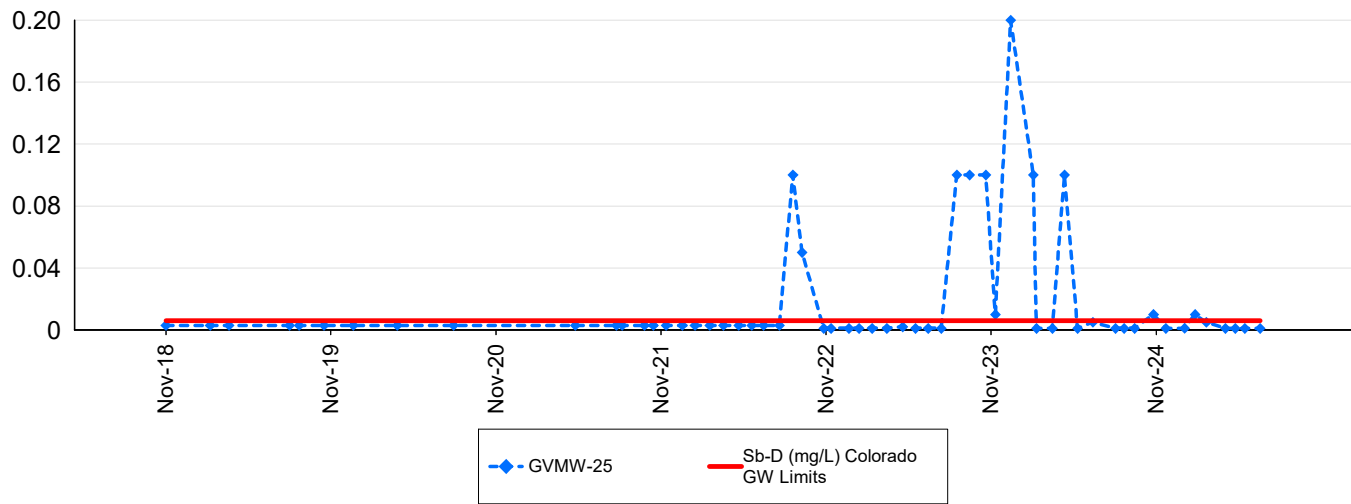
: Aluminium - Dissolved (mg/L)



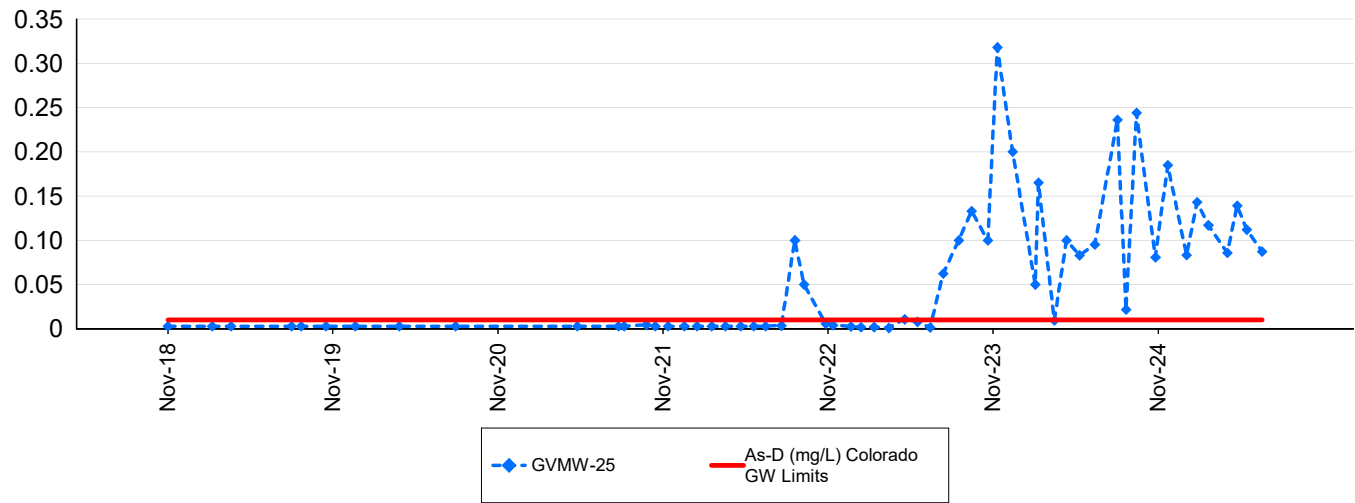
: Ammonia (mg/L)



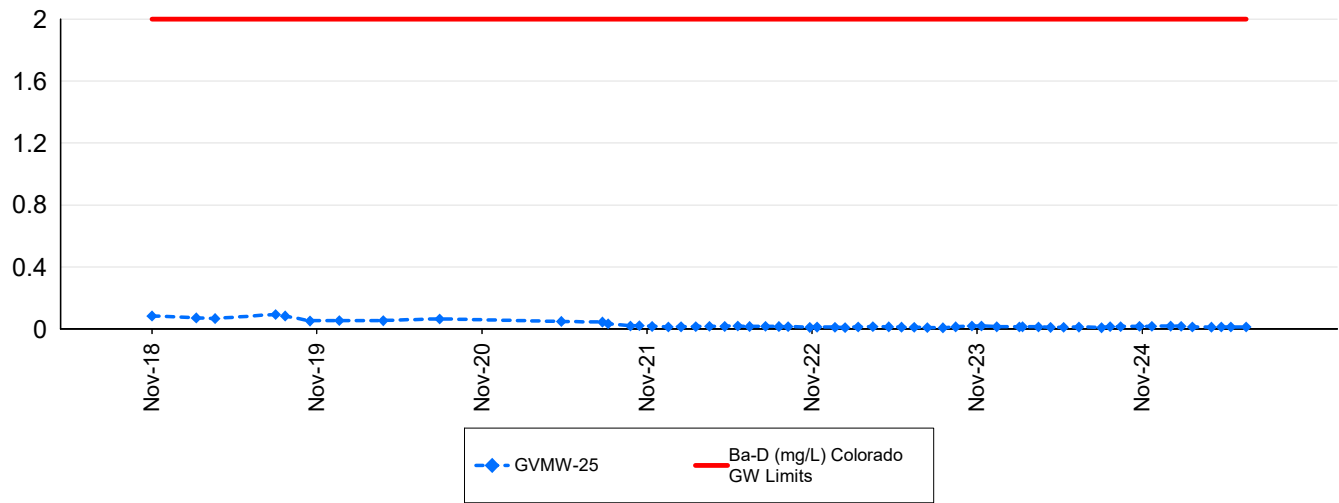
: Antimony - Dissolved (mg/L)



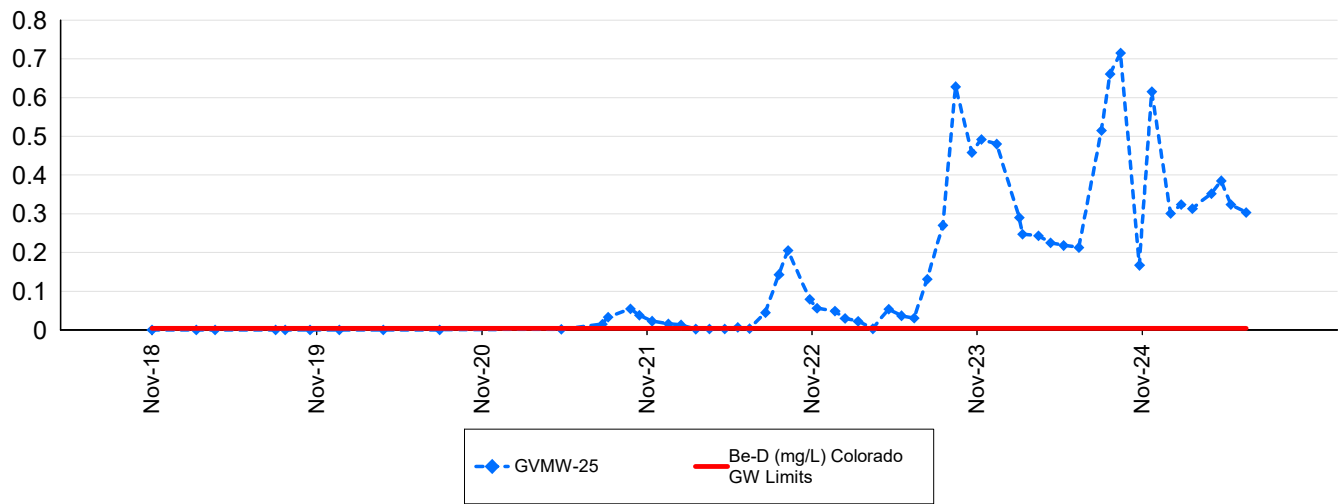
: Arsenic - Dissolved (mg/L)



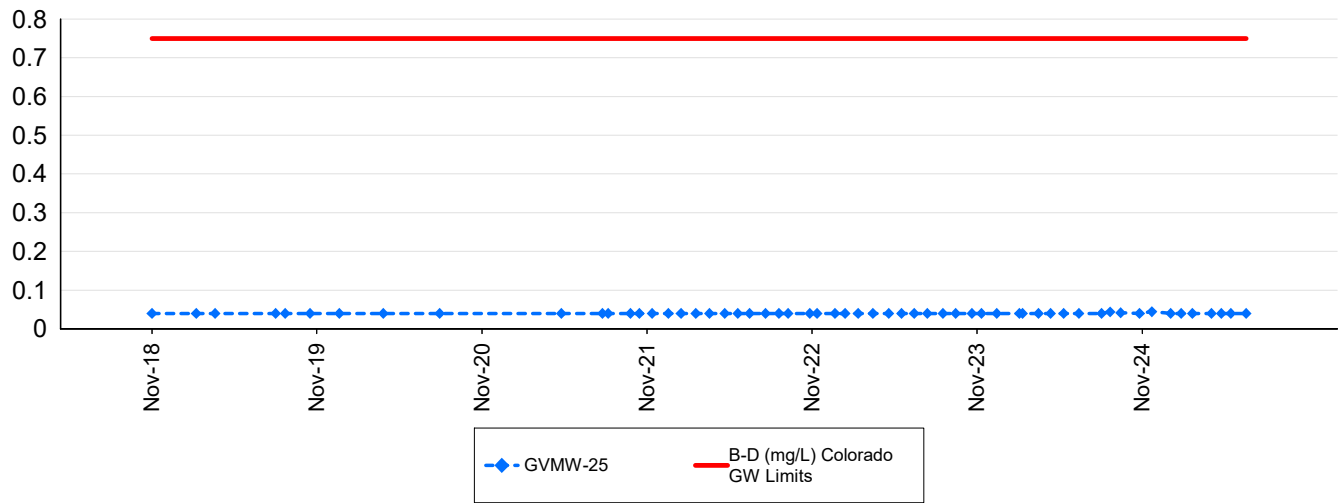
: Barium - Dissolved (mg/L)



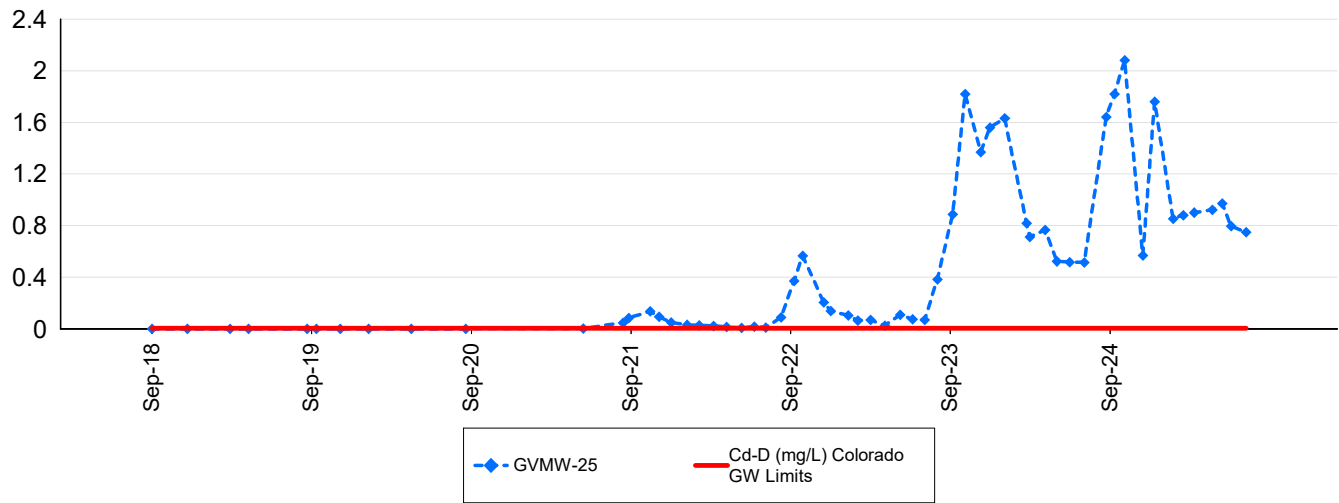
: Beryllium - Dissolved (mg/L)



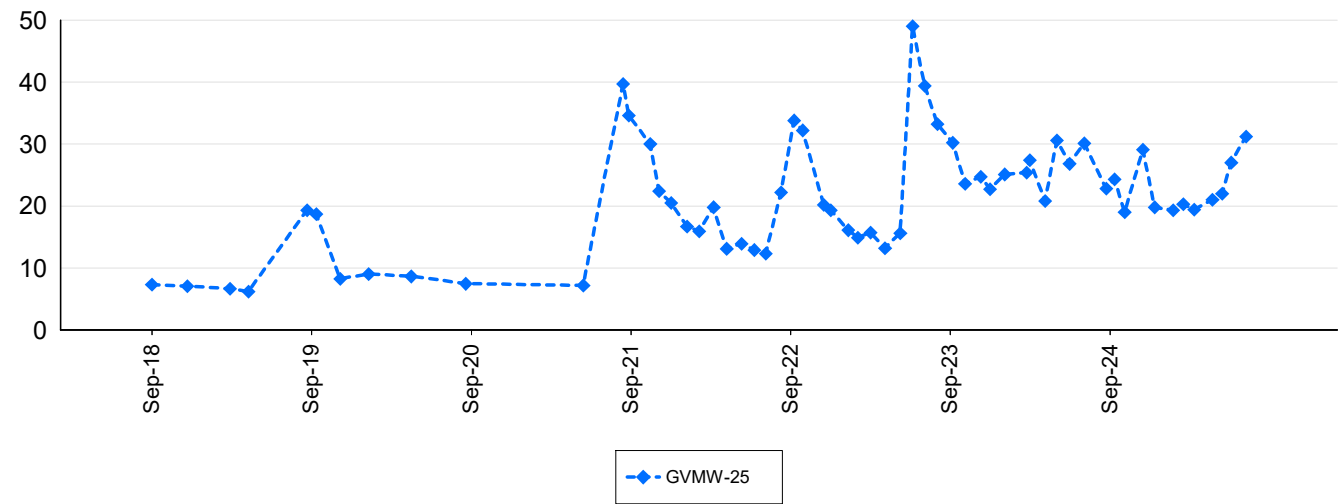
: Boron - Dissolved (mg/L)



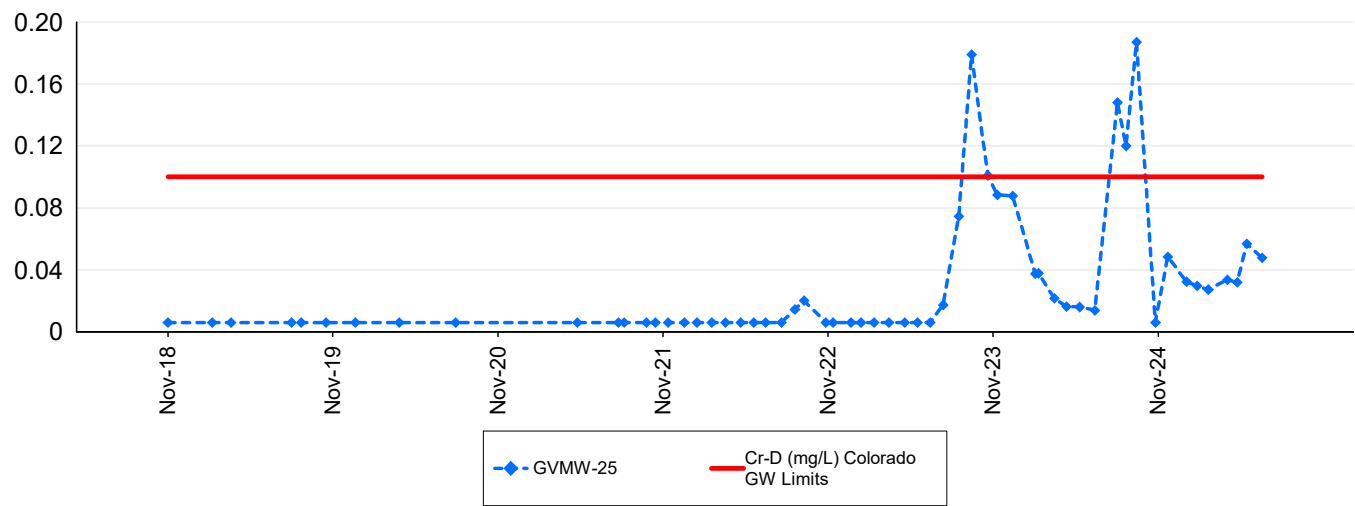
: Cadmium - Dissolved (mg/L)



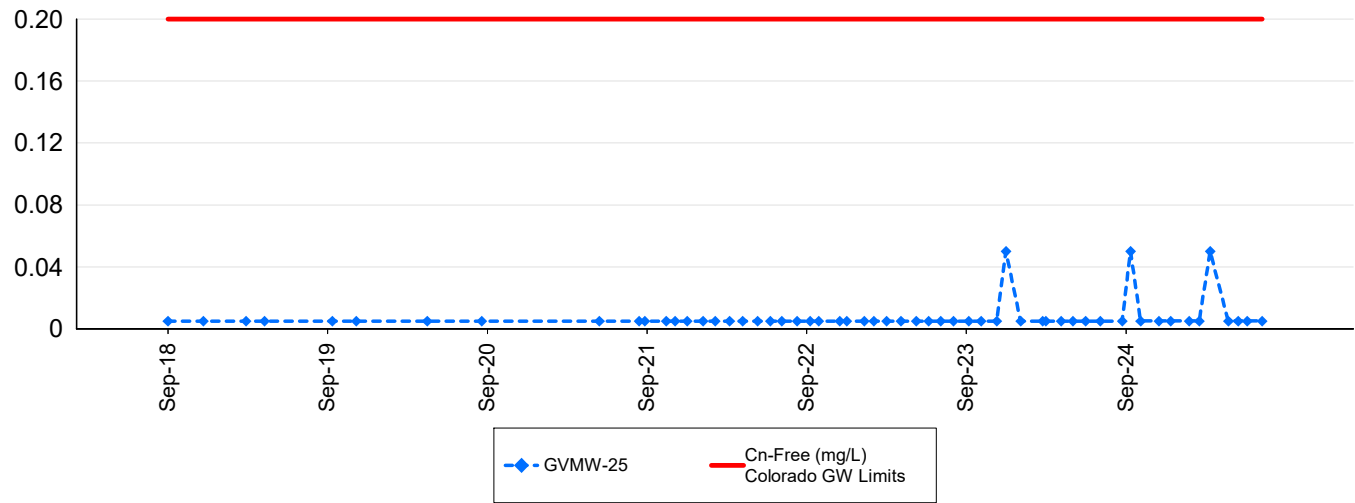
: Chloride - Total (mg/L)



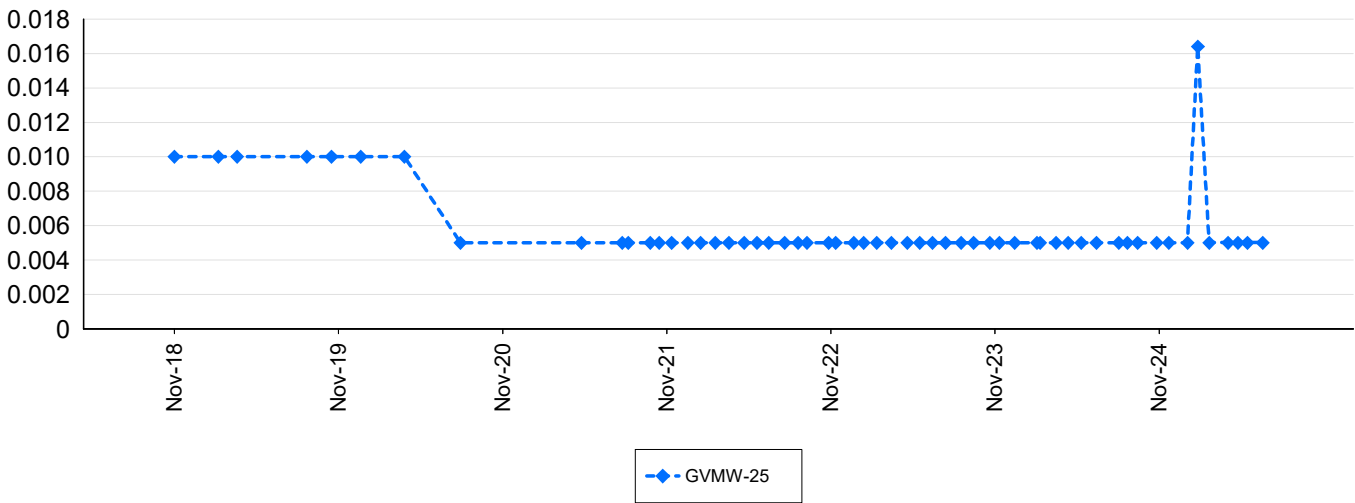
: Chromium - Dissolved (mg/L)



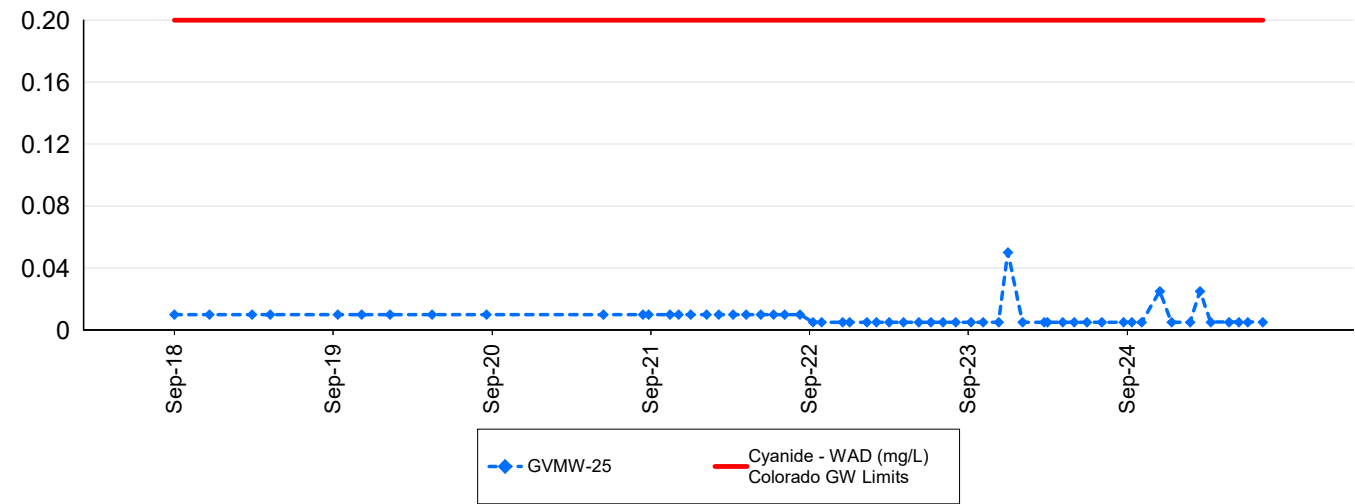
: Cyanide - Free (mg/L)



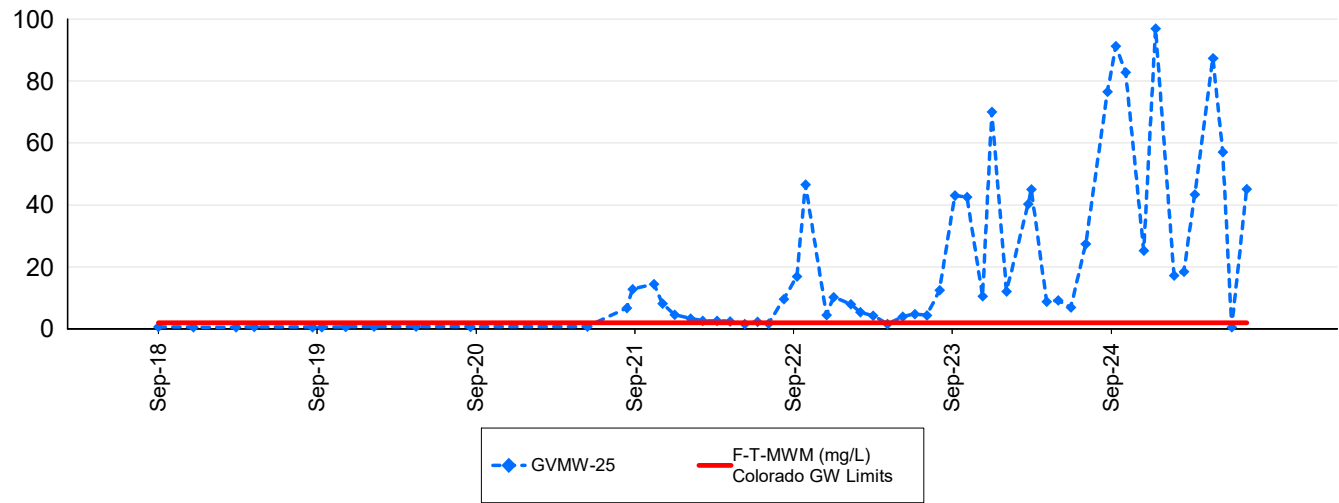
: Cyanide - Total (mg/L)



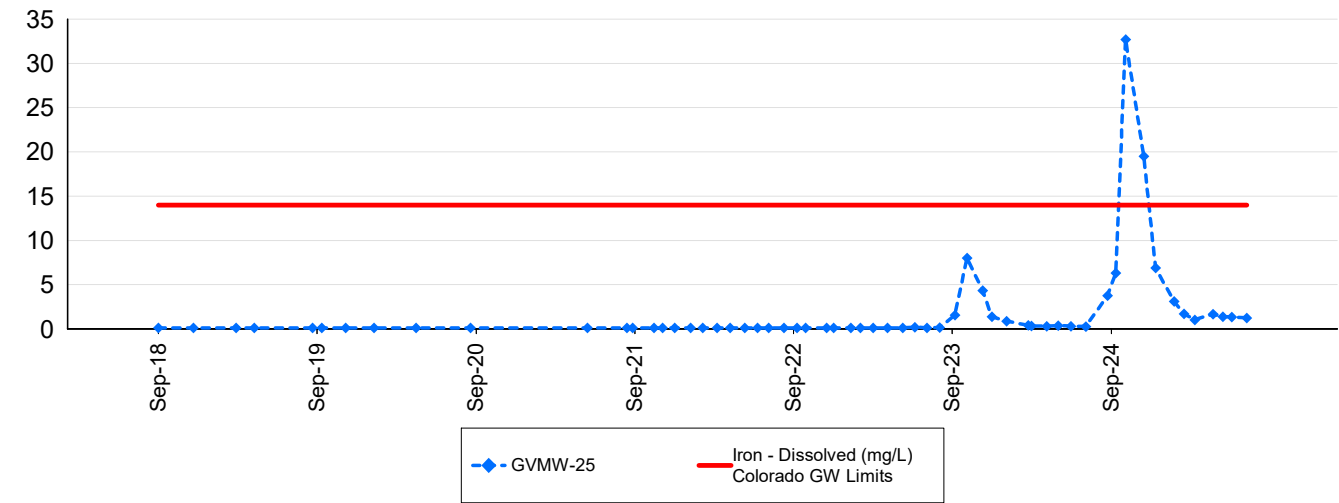
: Cyanide - WAD (mg/L)



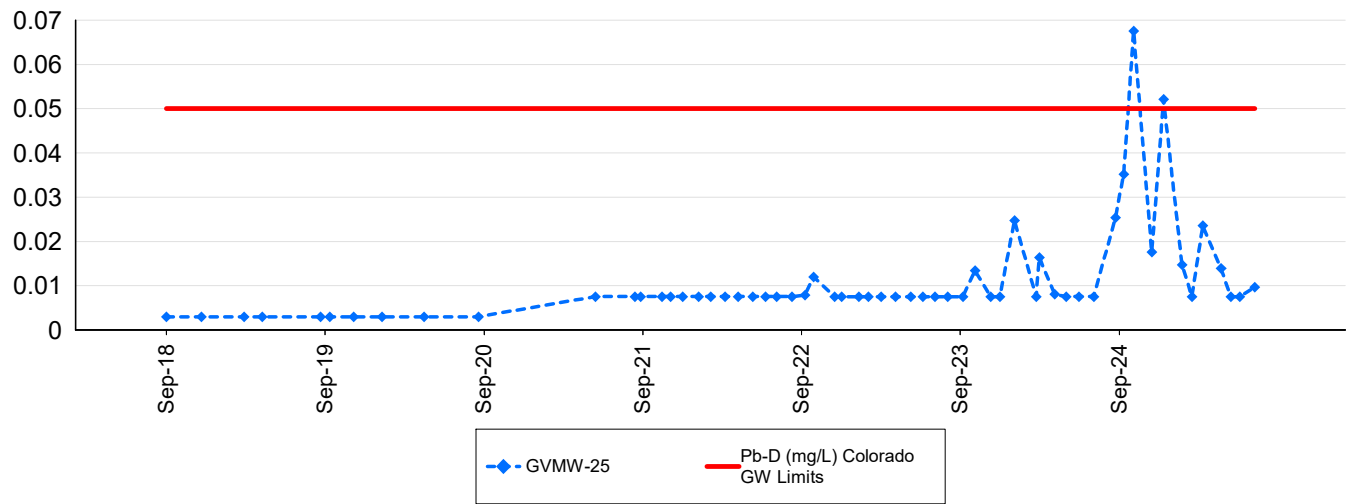
: Fluoride - Total F (mg/L)



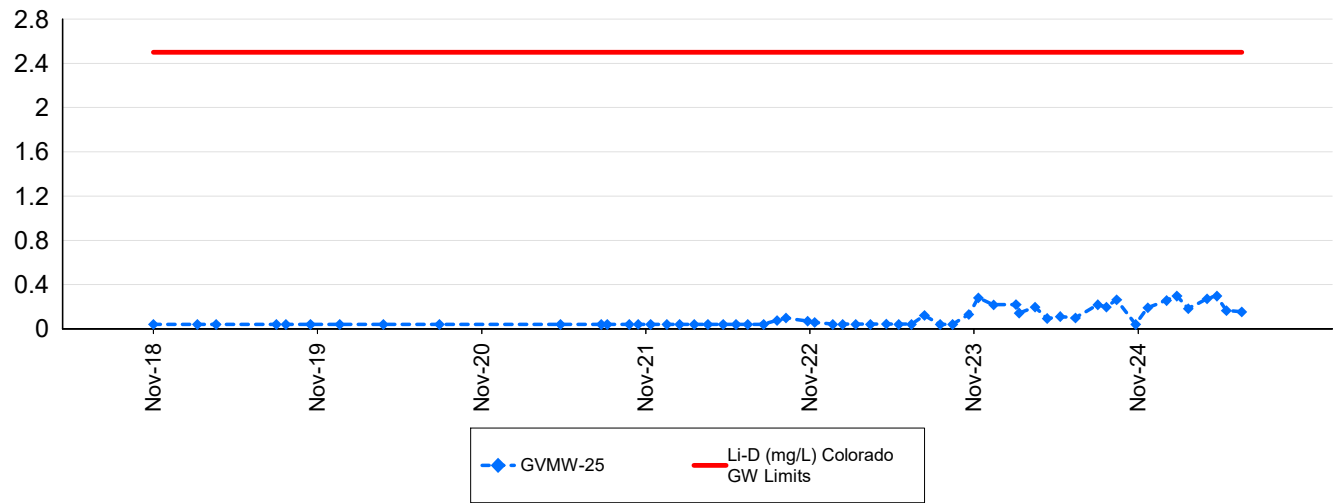
: Iron - Dissolved (mg/L)



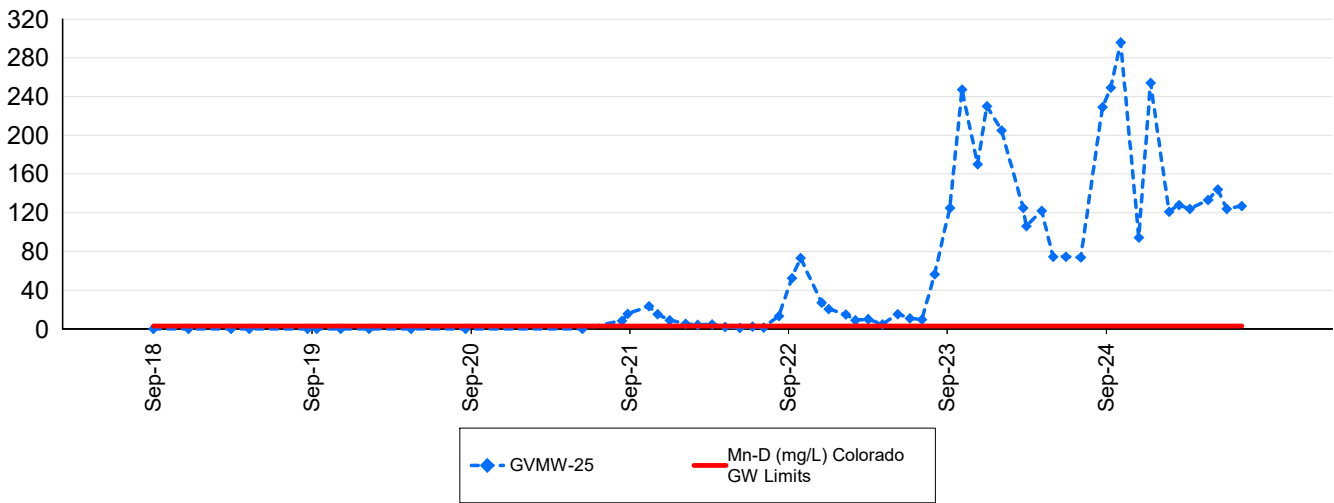
: Lead - Dissolved (mg/L)



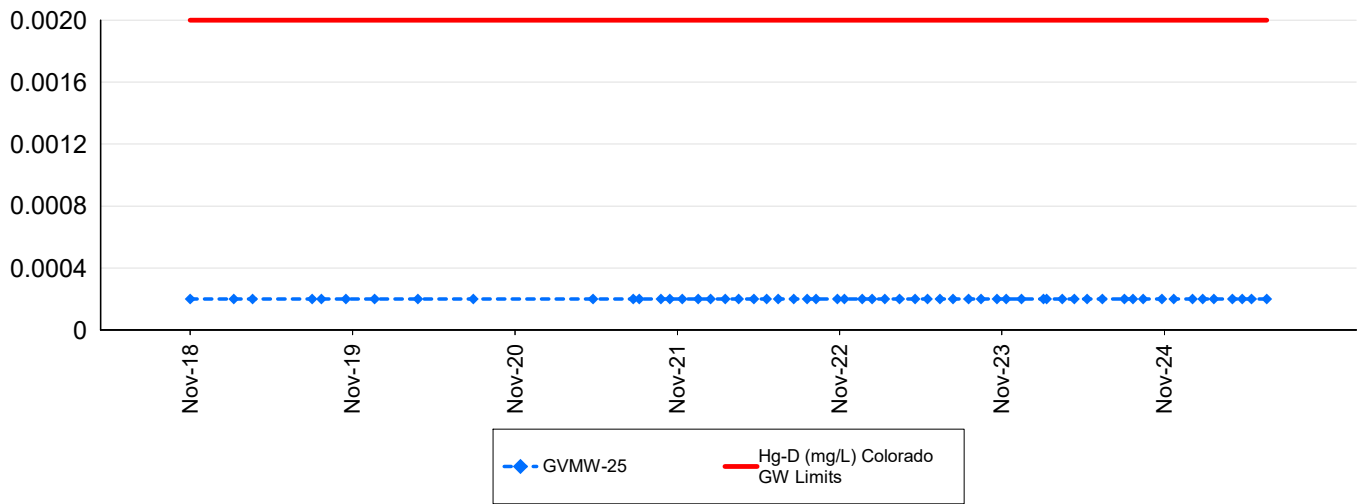
: Lithium - Dissolved (mg/L)



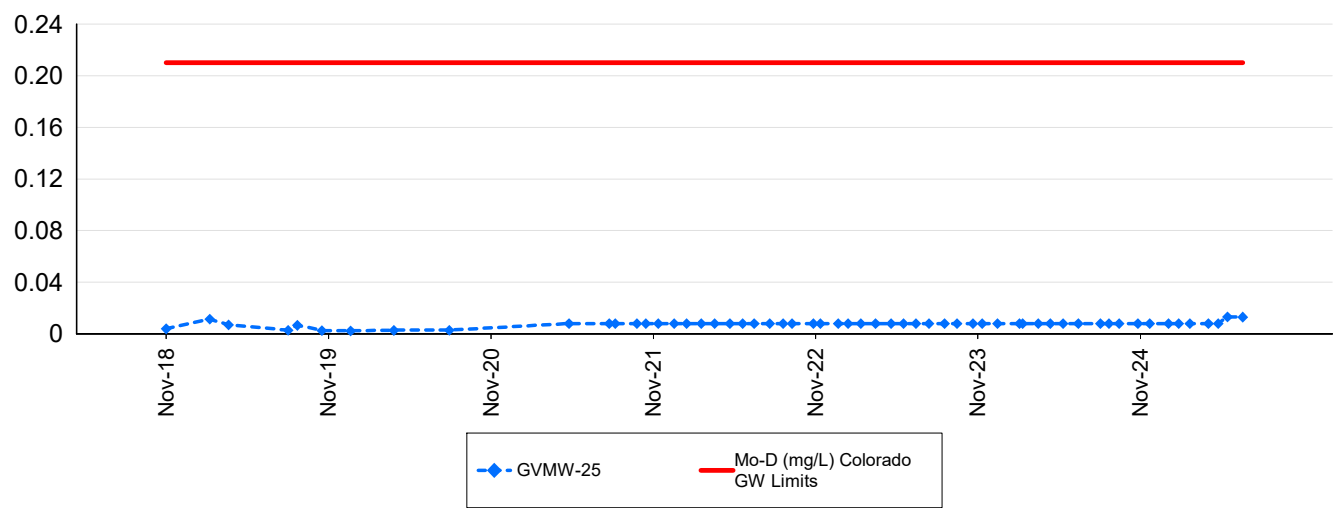
: Manganese - Dissolved (mg/L)



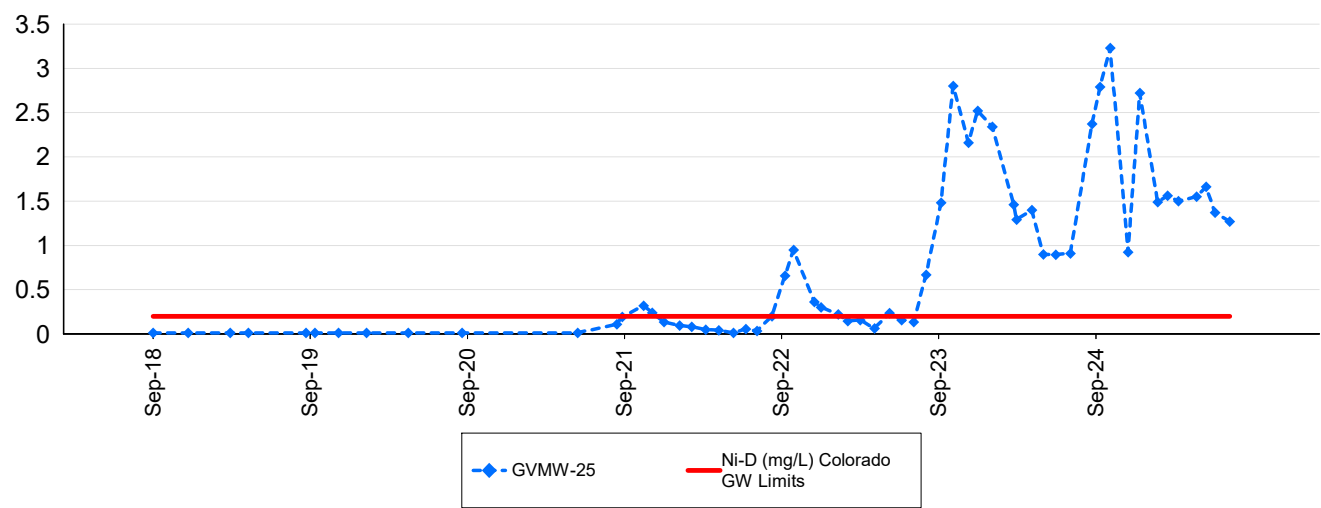
: Mercury - Dissolved (mg/L)



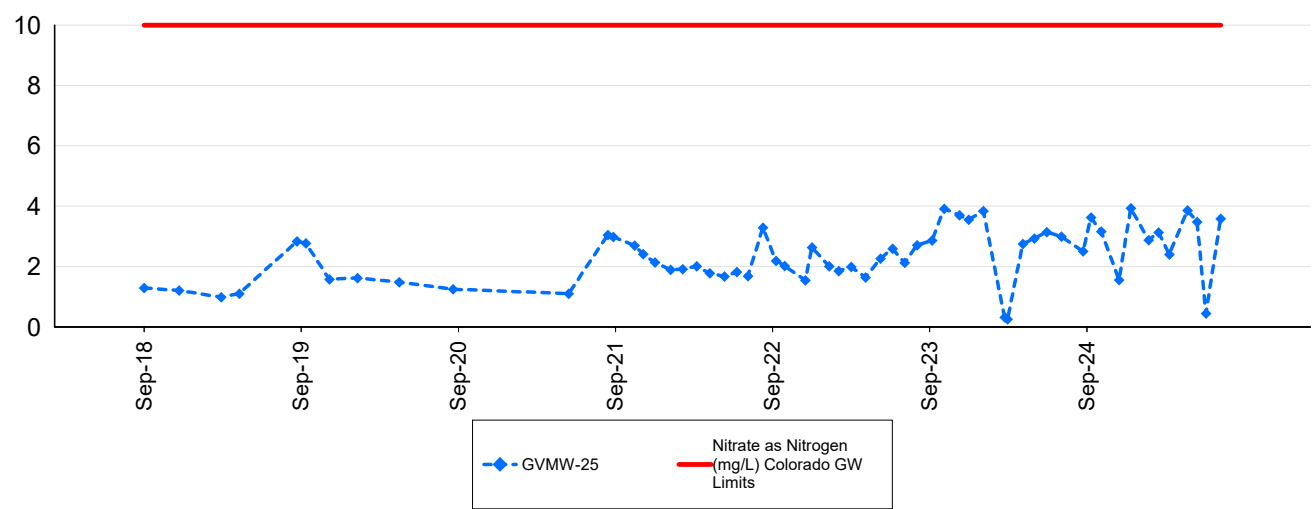
: Molybdenum - Dissolved (mg/L)

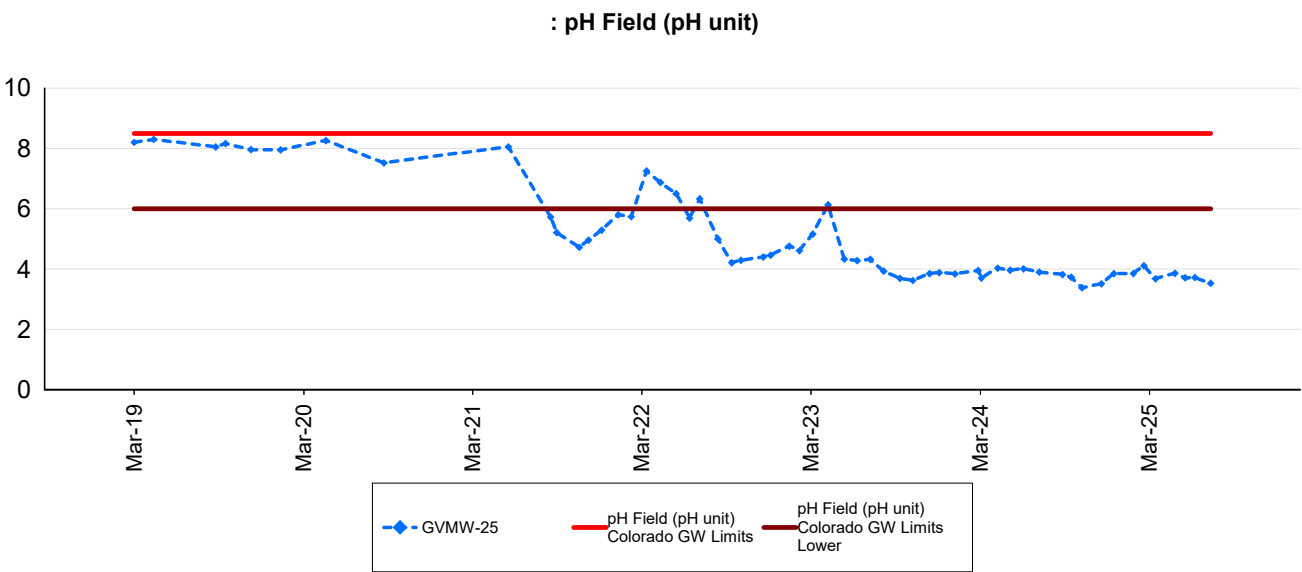
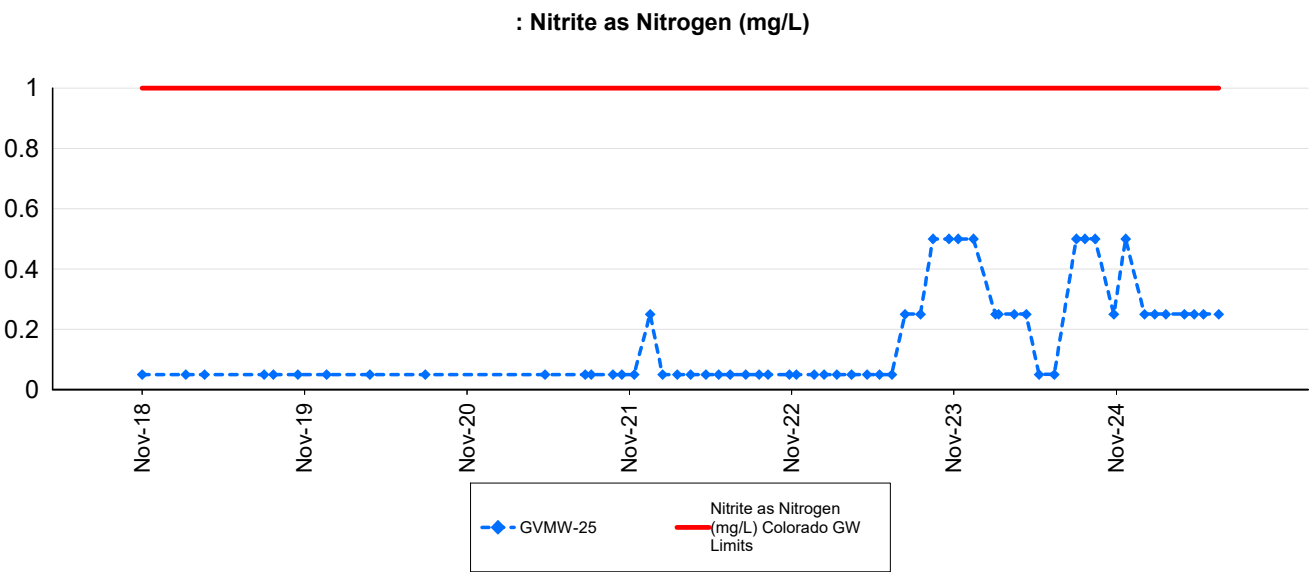
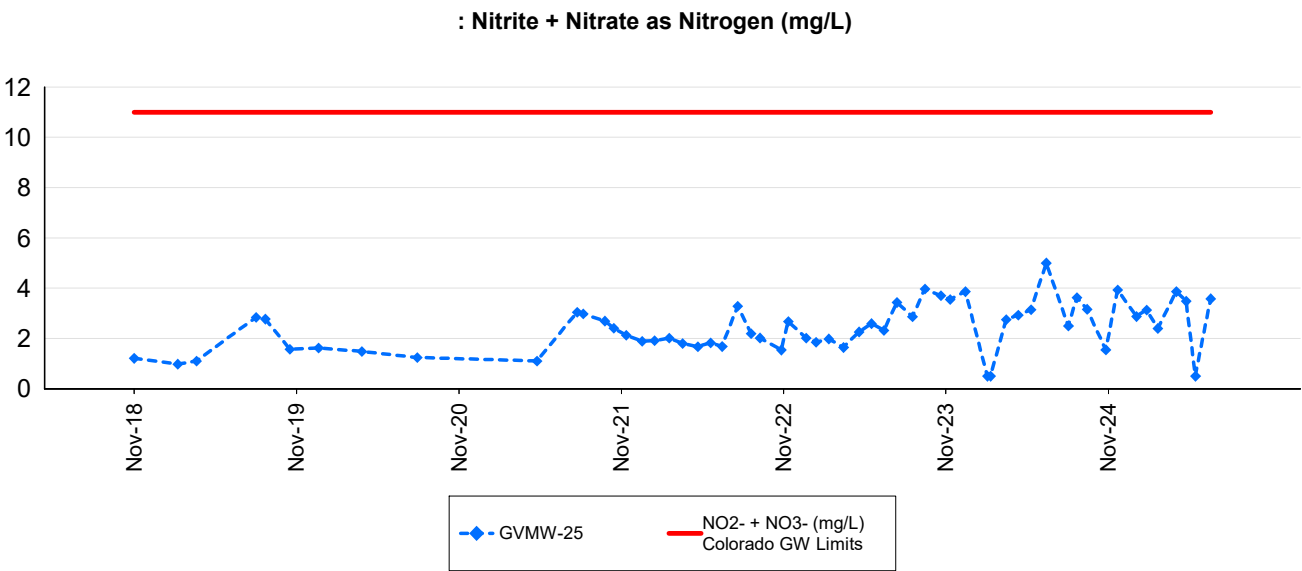


: Nickel - Dissolved (mg/L)

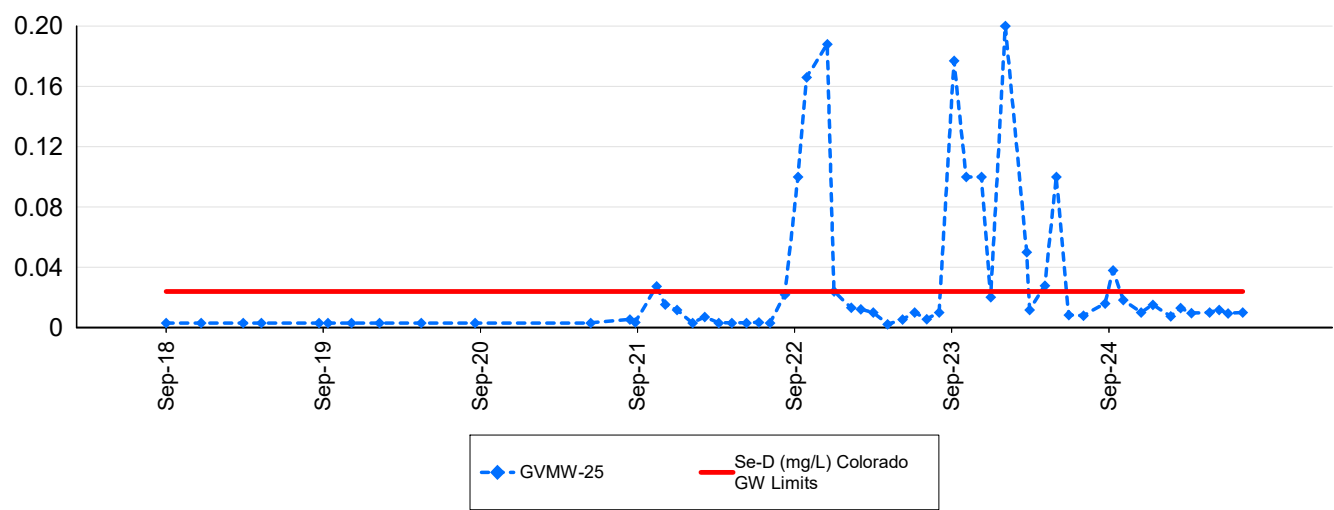


: Nitrate as Nitrogen (mg/L)

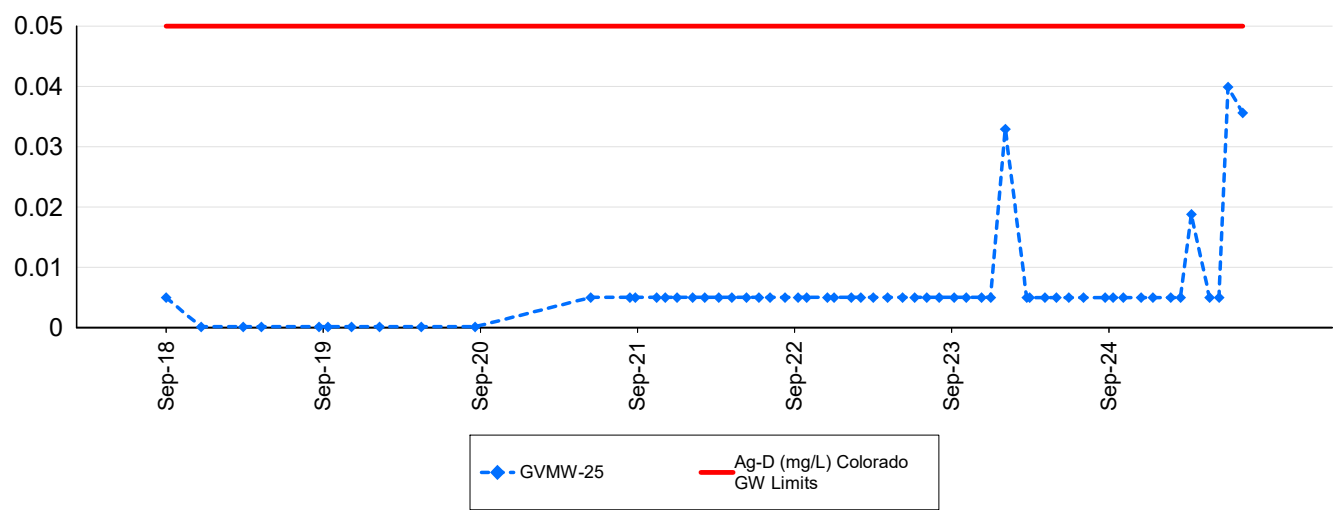




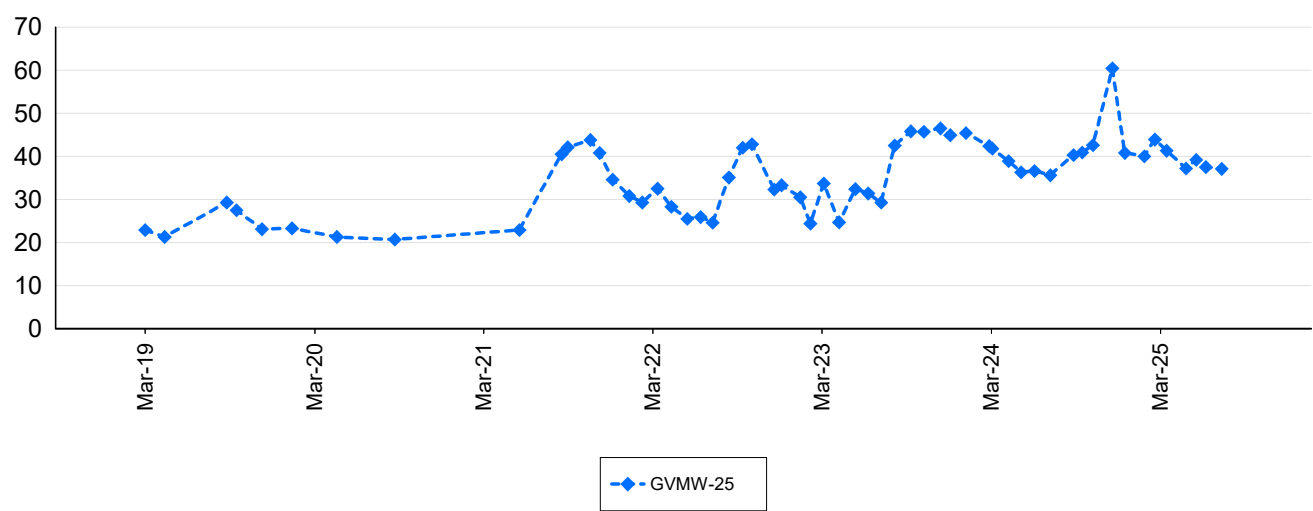
: Selenium - Dissolved (mg/L)



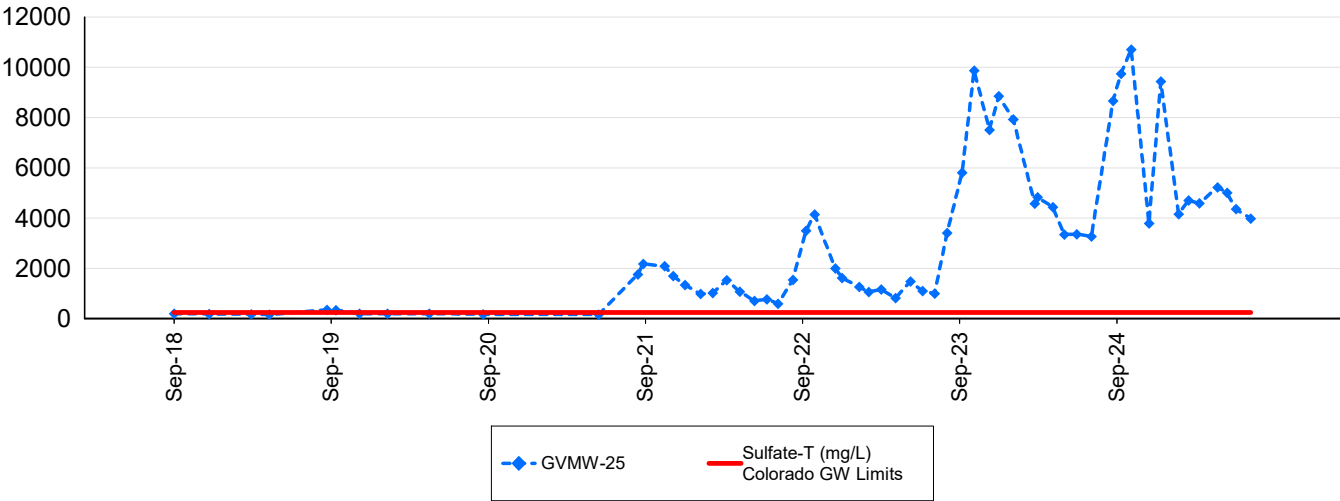
: Silver - Dissolved (mg/L)



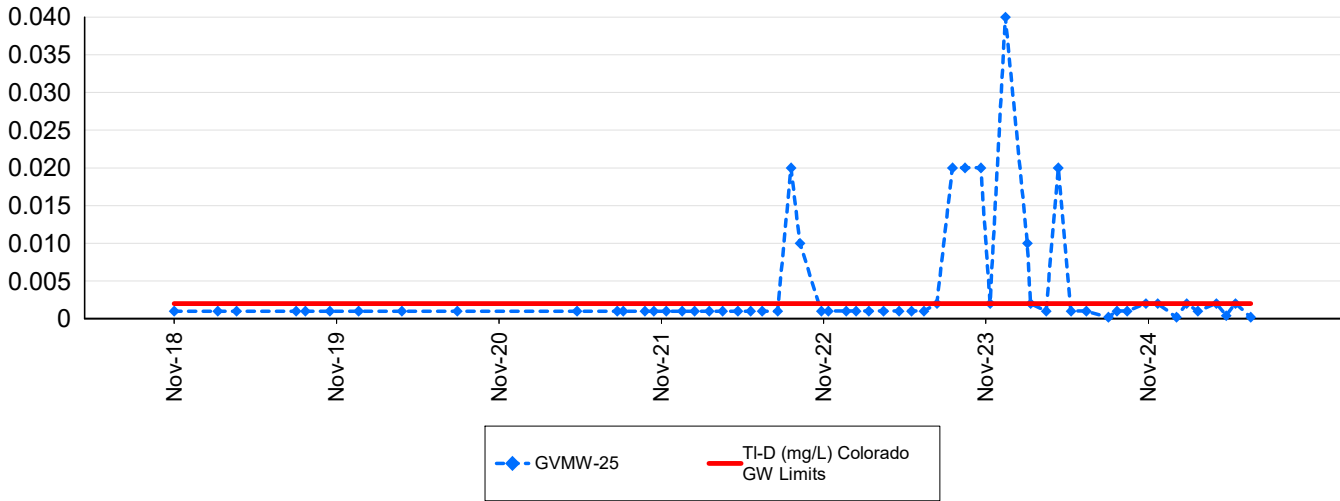
: Sodium - Dissolved (mg/L)



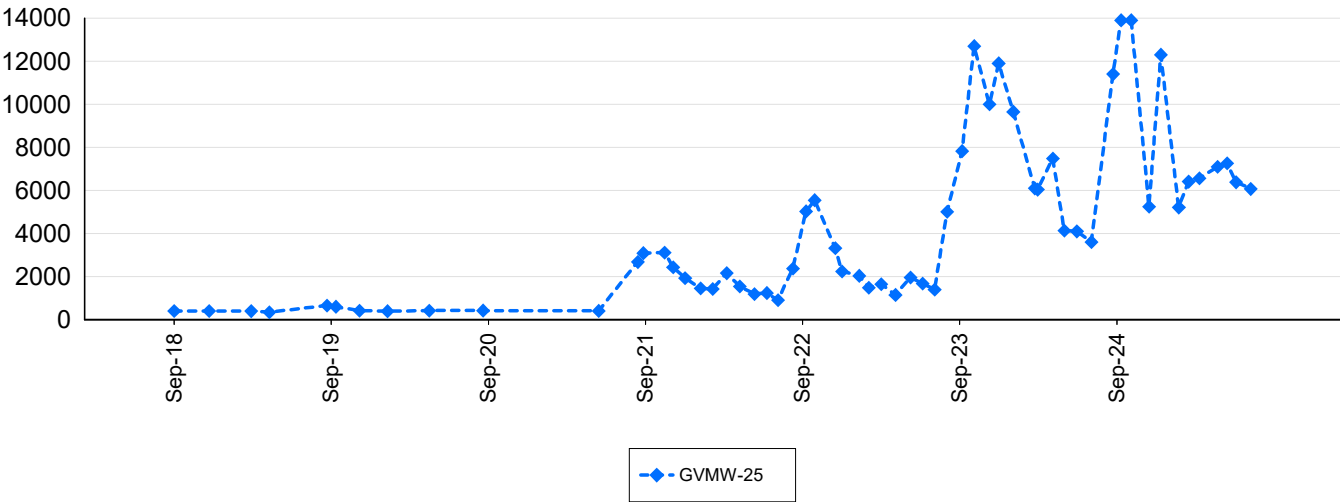
: Sulfate - Total (mg/L)



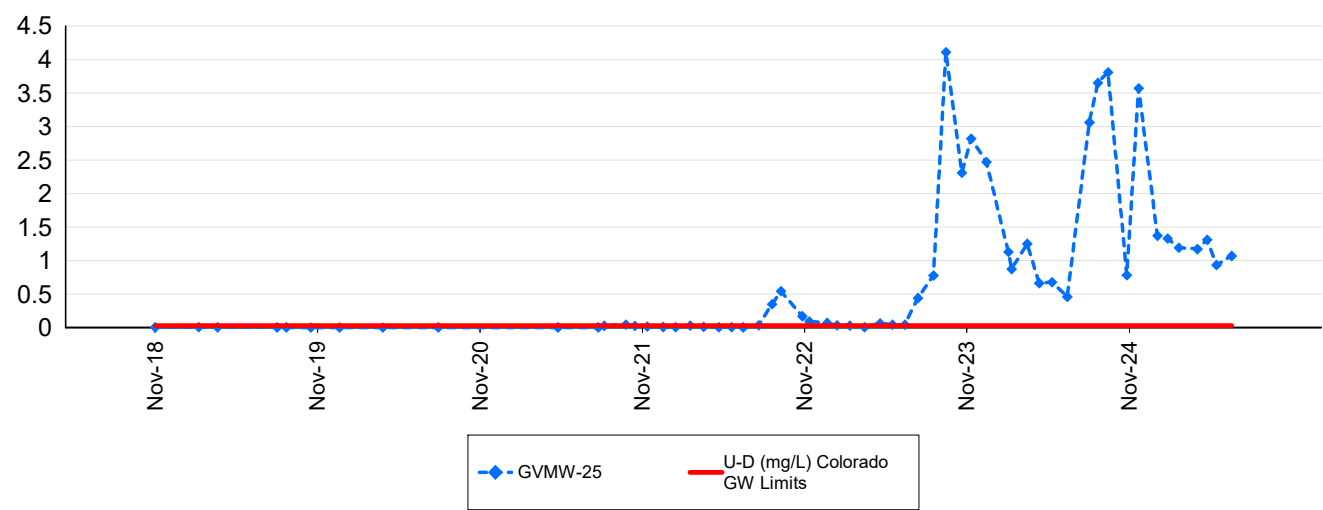
: Thallium - Dissolved (mg/L)



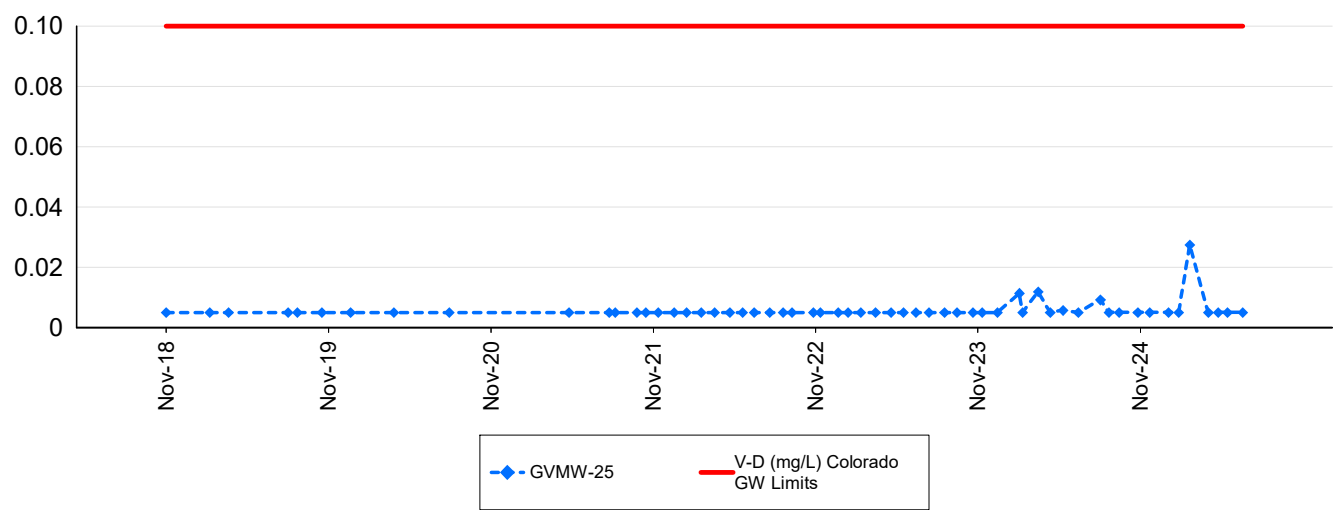
: Total Dissolved Solids (mg/L)



: Uranium - Dissolved (mg/L)



: Vanadium - Dissolved (mg/L)



: Zinc - Dissolved (mg/L)

