



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

P 719.689.2977
F 719.689.3254
newmont.com

August 28, 2023

SENT VIA EMAIL

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

Re: Monthly Grassy Valley July 2023 Report Submission, August 28, 2023

Dear Mr. Russell,

Please see the attached Grassy Valley data (included within Attachment A) for monitoring well GVMW-25, surface water monitoring location GV-06, and Seep 1 & Seep 2, for the month of July, 2023.

Should you require further information please do not hesitate to contact Antonio Matarrese at 719.851.4185 or antonio.matarrese@newmont.com or myself at 719.851.4048 or katie.blake@newmont.com

Sincerely,

DocuSigned by:

5A3D013B629844B...

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

EC: P. Lennberg
M. Cunningham
K. Blake
J. Gonzalez
A. Matarrese
N. Townley

File: "C:\Users\19012214\Newmont USA Limited\CC&V - S&ER Environmental - Environmental Compliance\Water\DRMS\Grassy Monthly\7 - July 2023\Final"

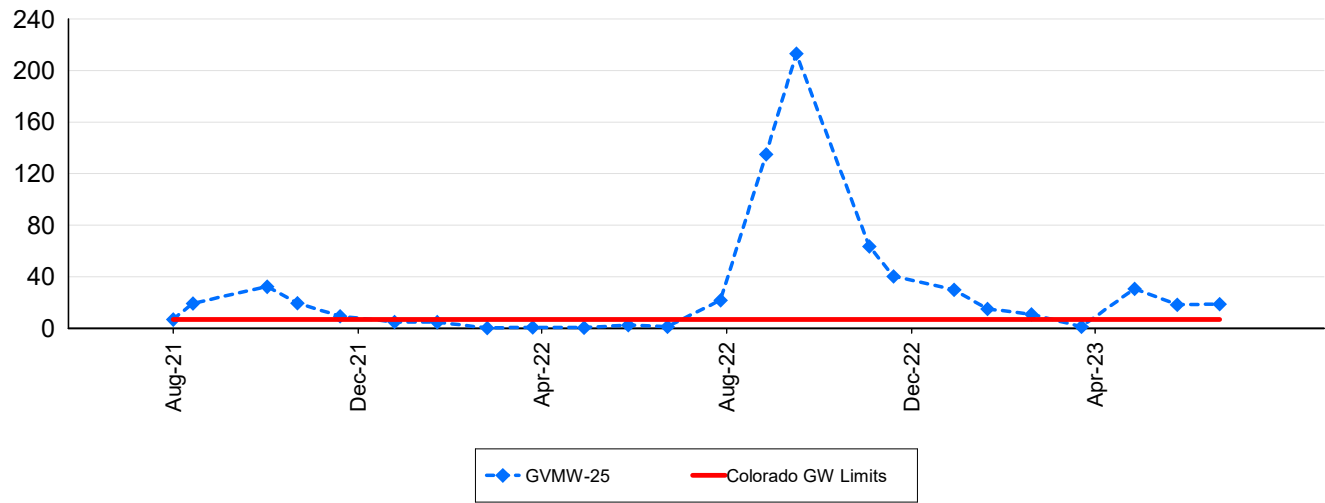


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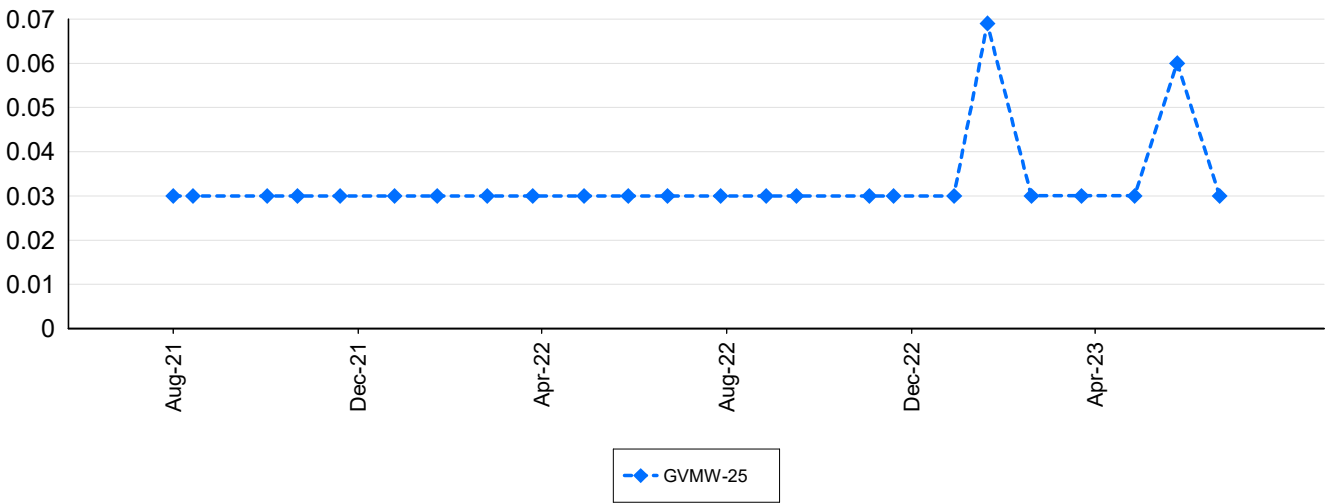
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newmont.com

Attachment A

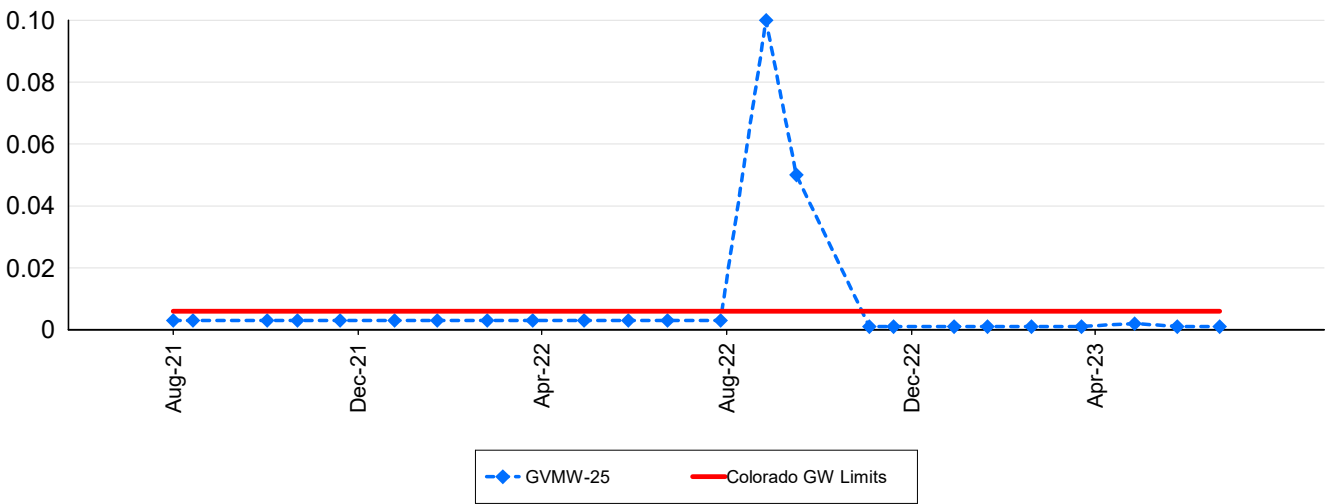
: Aluminium - Dissolved (mg/L)

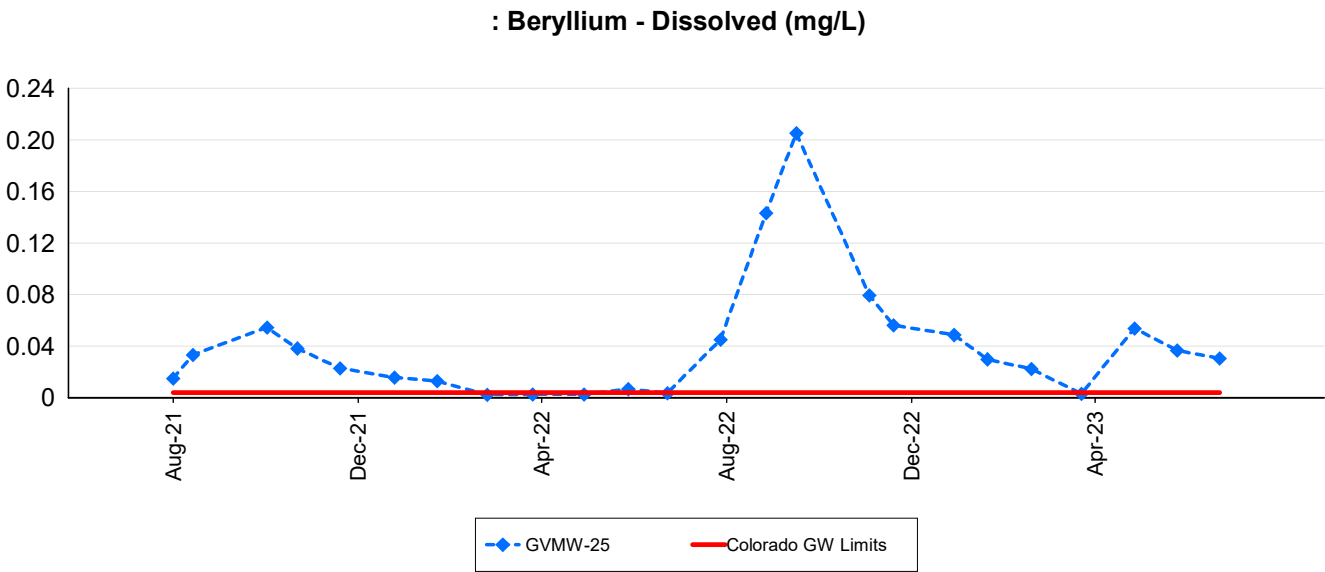
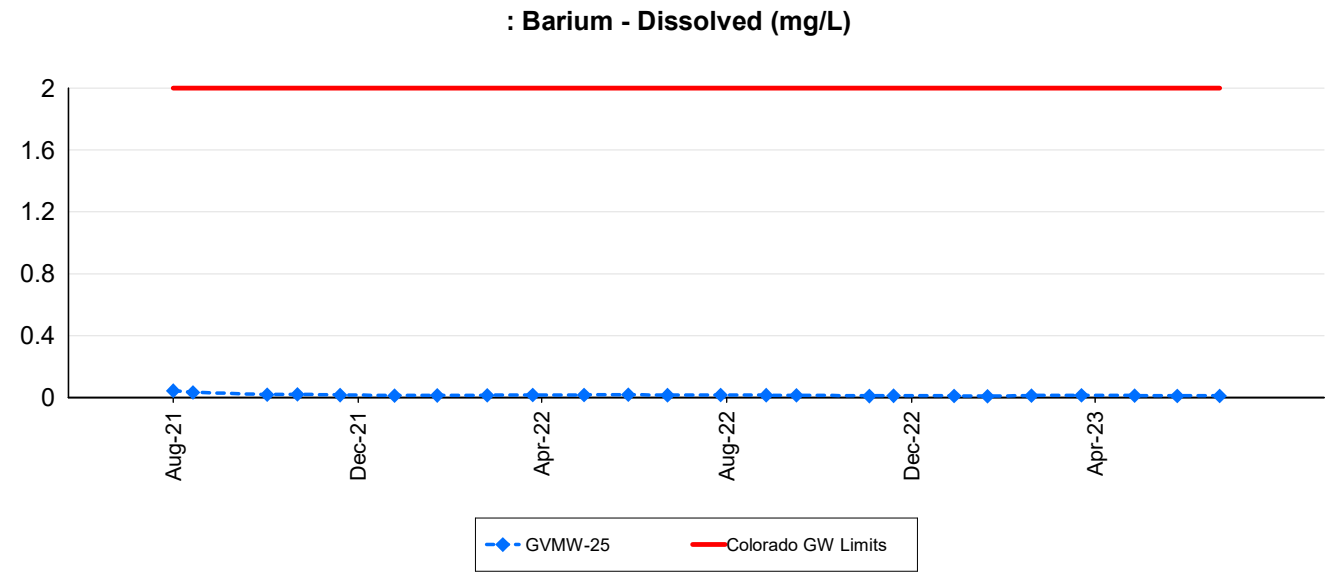
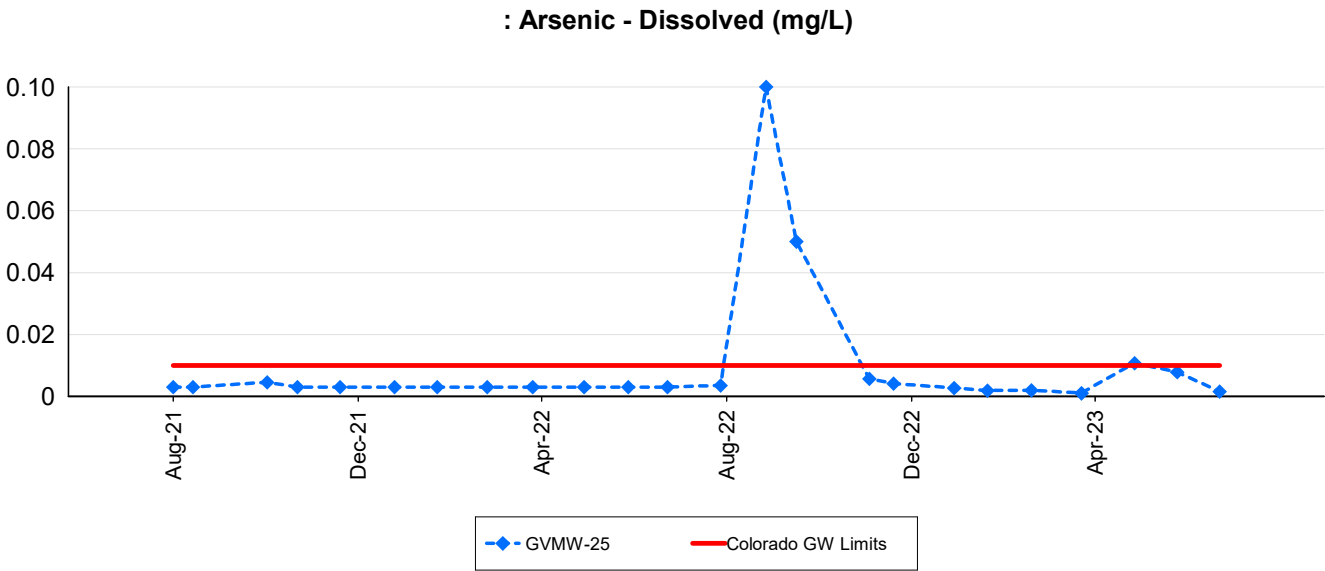


: Ammonia (mg/L)

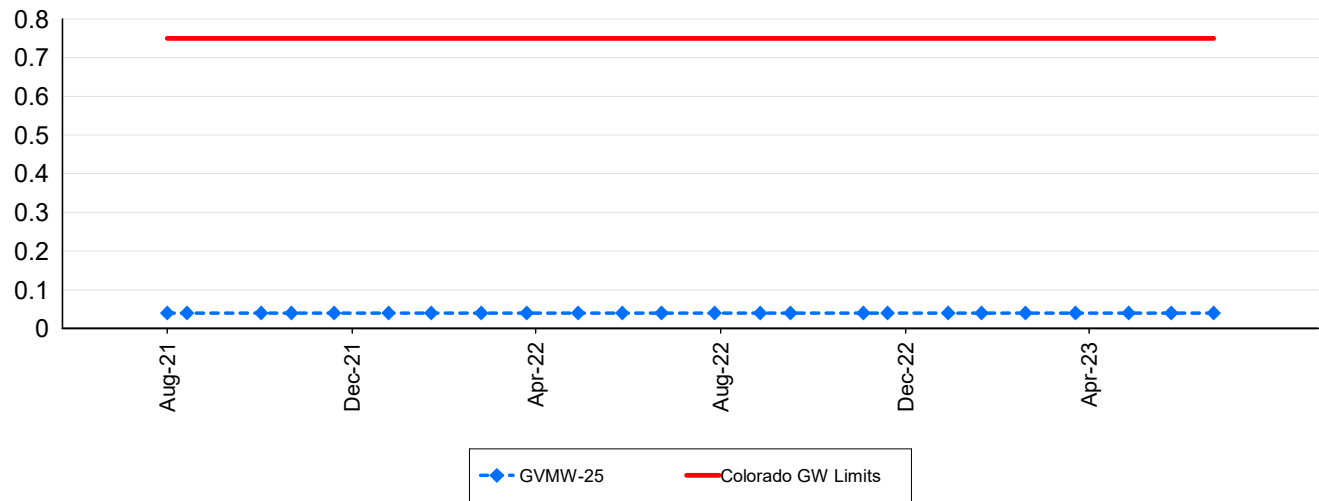


: Antimony - Dissolved (mg/L)

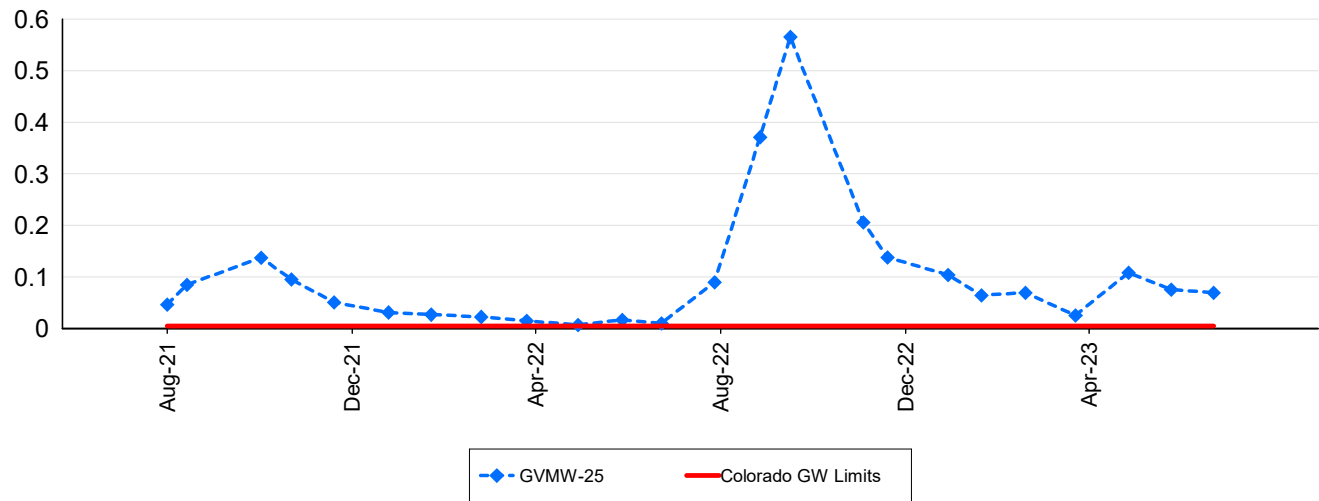




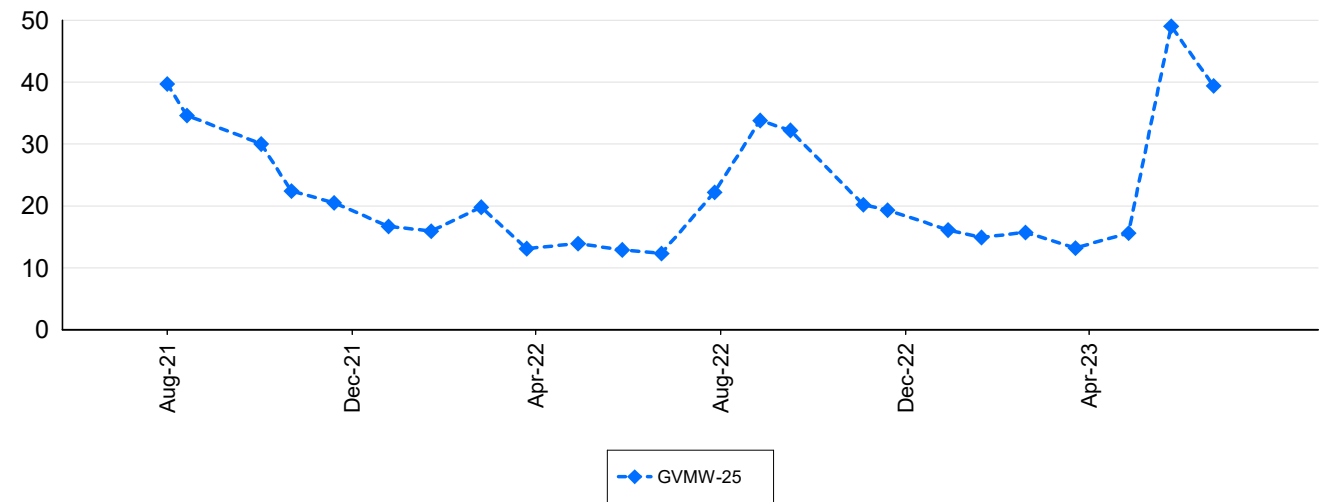
: Boron - Dissolved (mg/L)



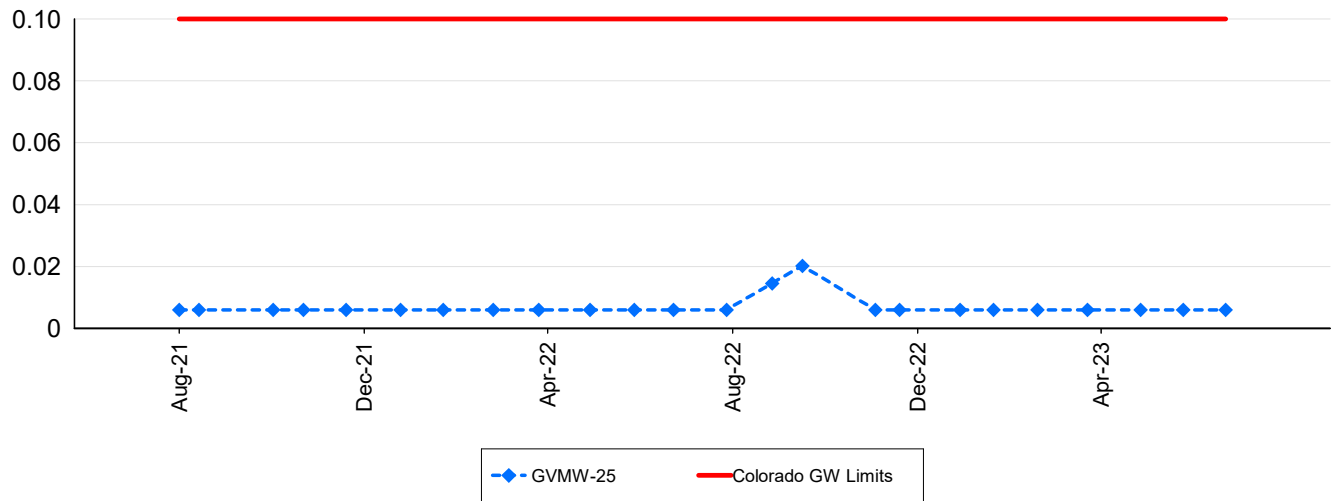
: Cadmium - Dissolved (mg/L)



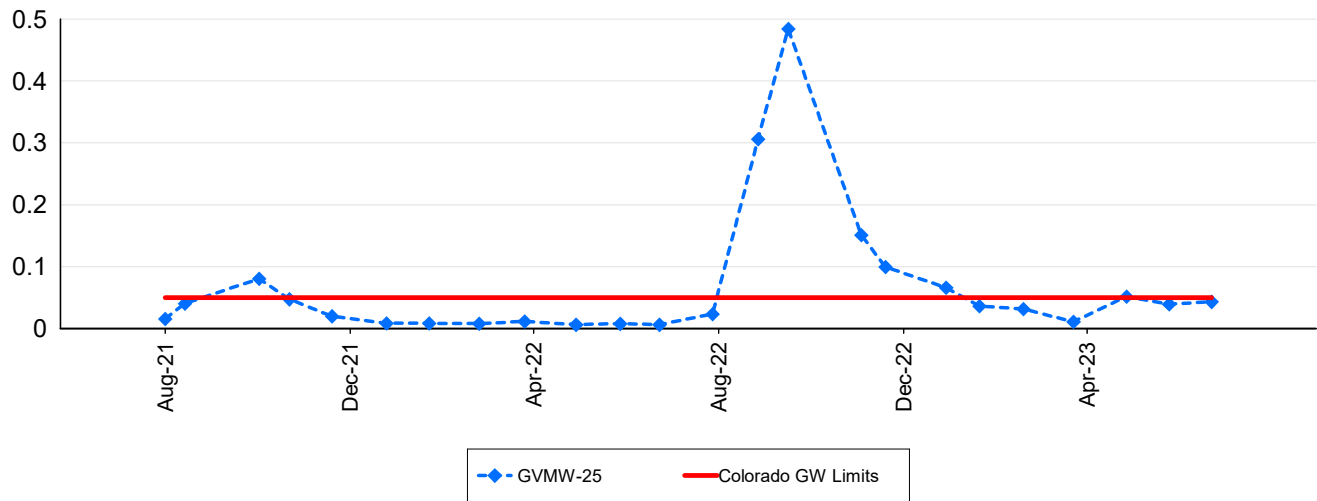
: Chloride - Total (mg/L)



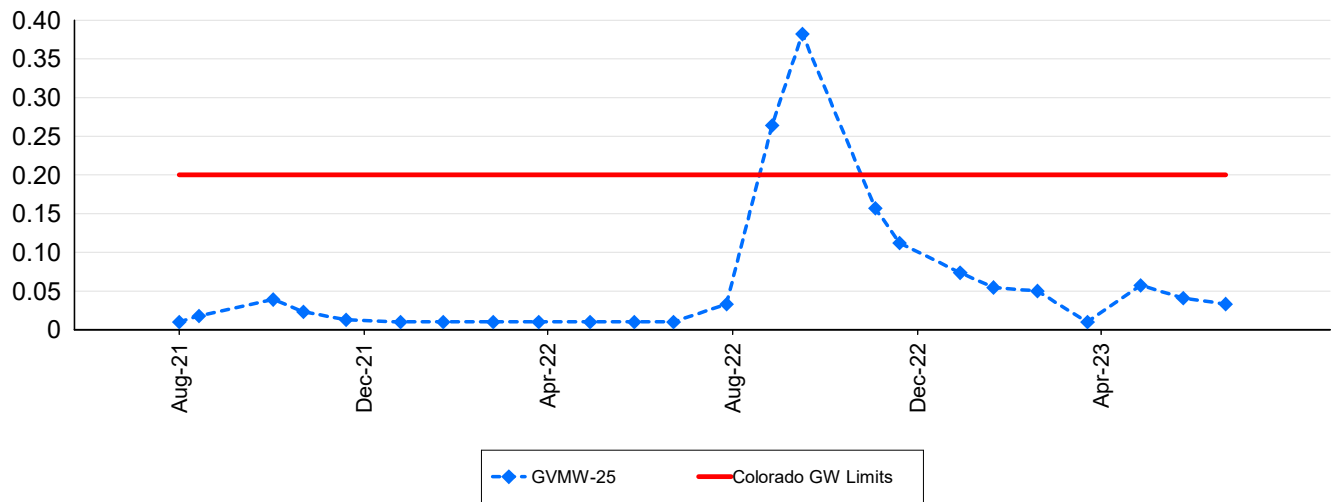
: Chromium - Dissolved (mg/L)



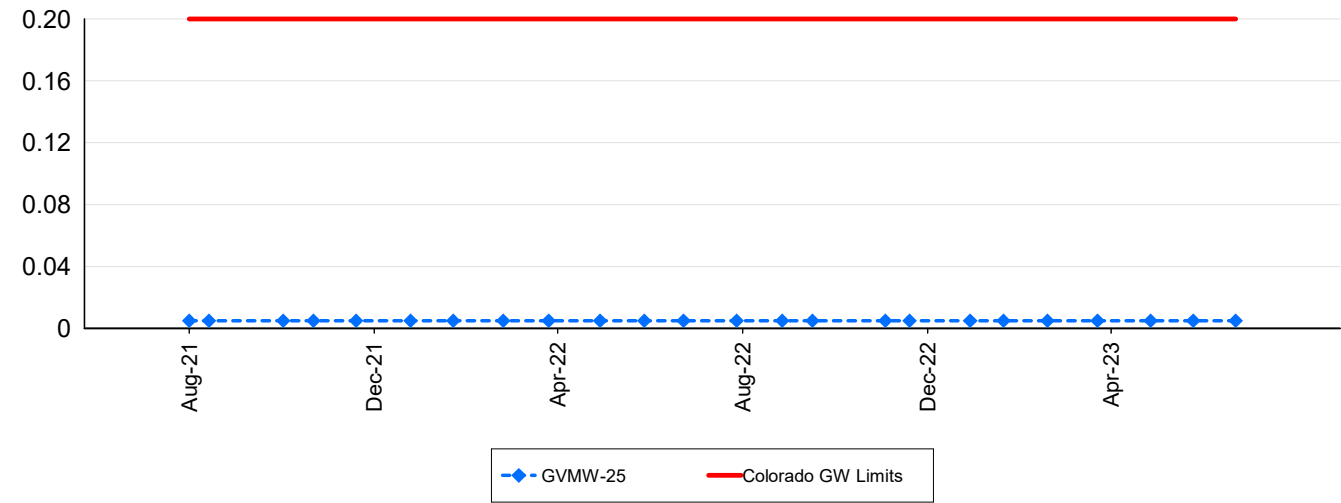
: Cobalt - Dissolved (mg/L)



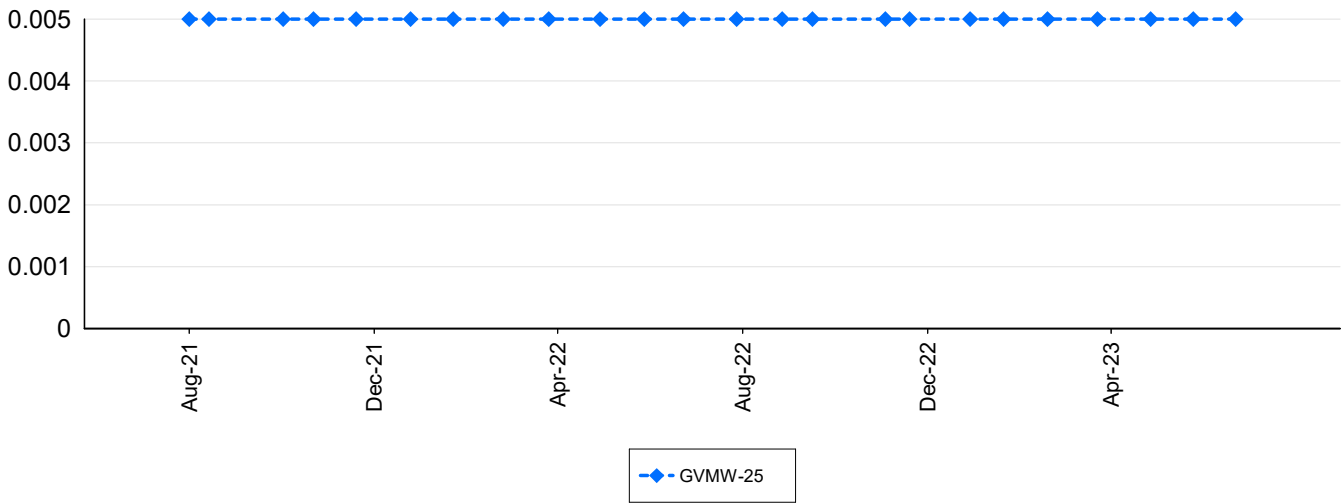
: Copper - Dissolved (mg/L)



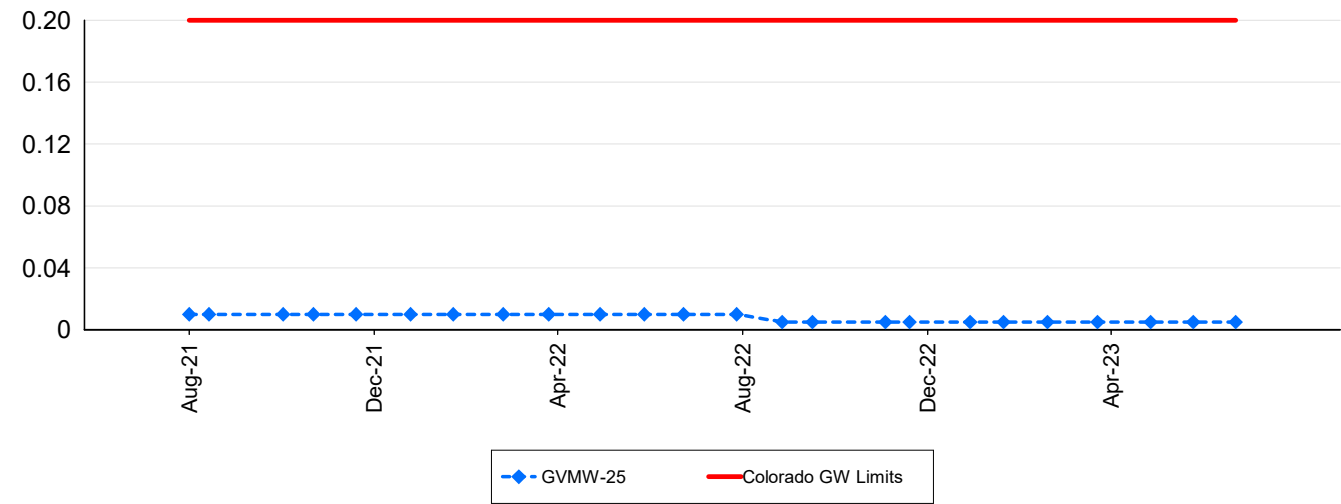
: Cyanide - Free (mg/L)



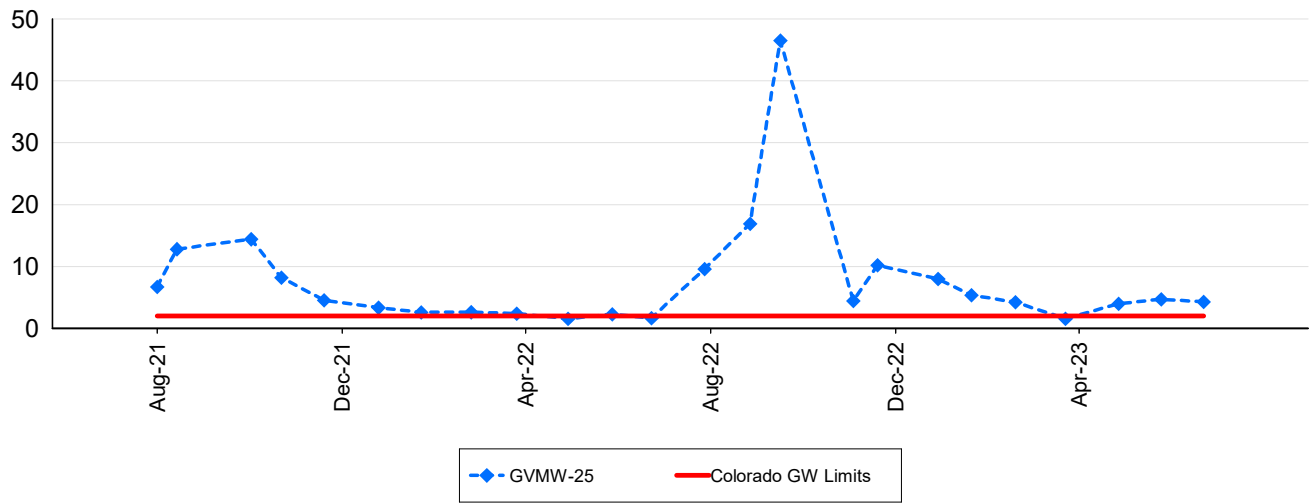
: Cyanide - Total (mg/L)



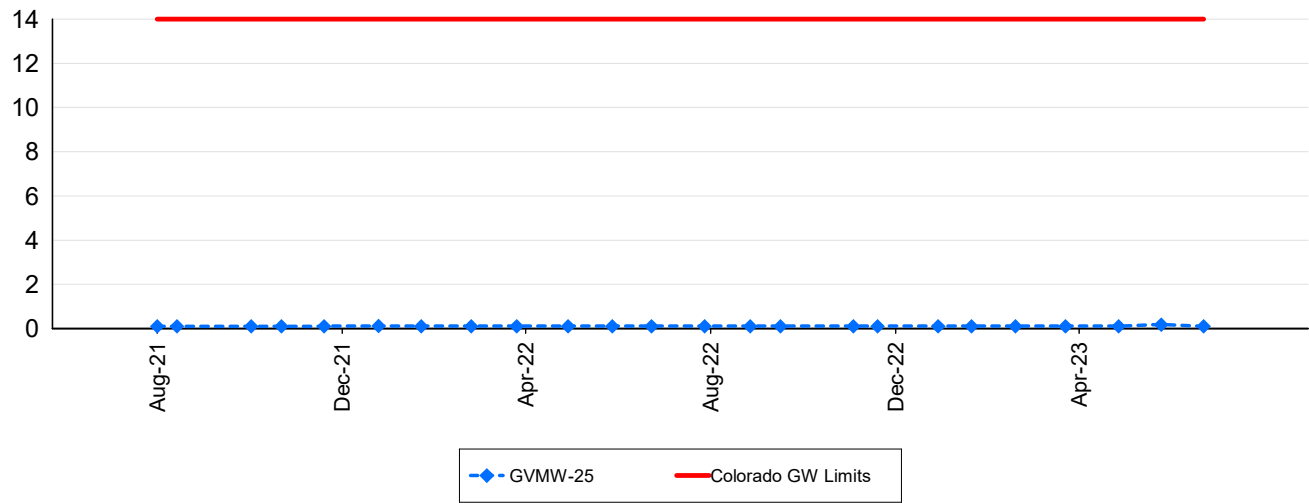
: Cyanide - WAD (mg/L)



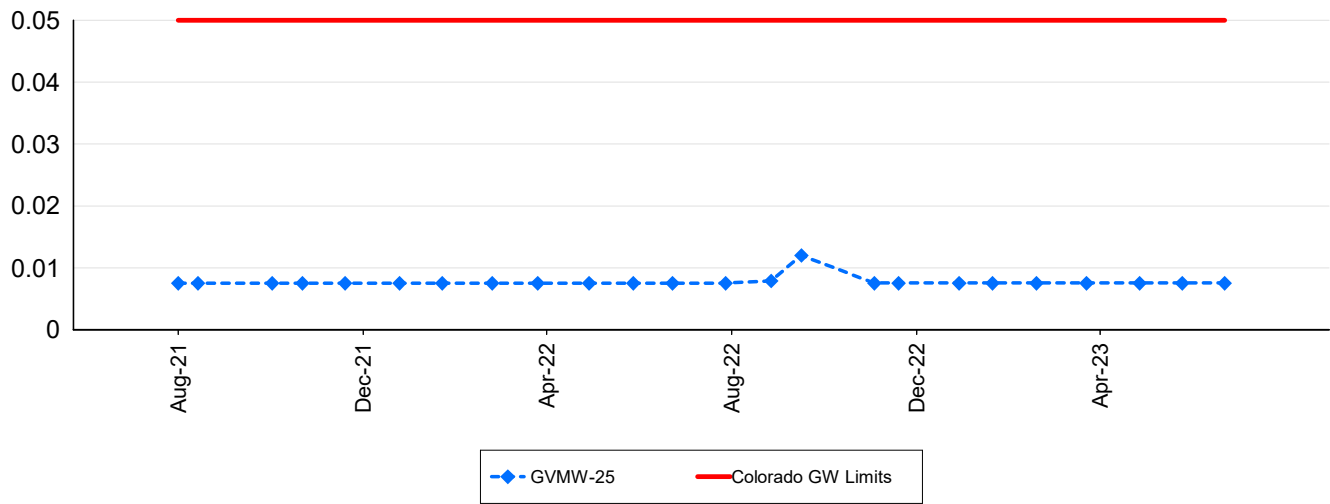
: Fluoride - Total F (mg/L)



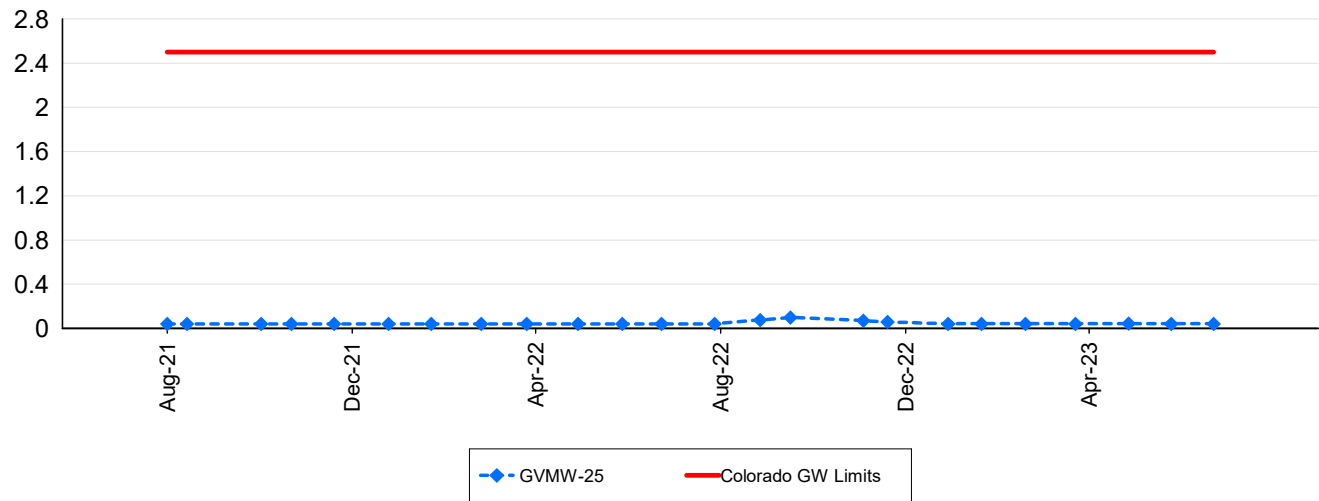
: Iron - Dissolved (mg/L)



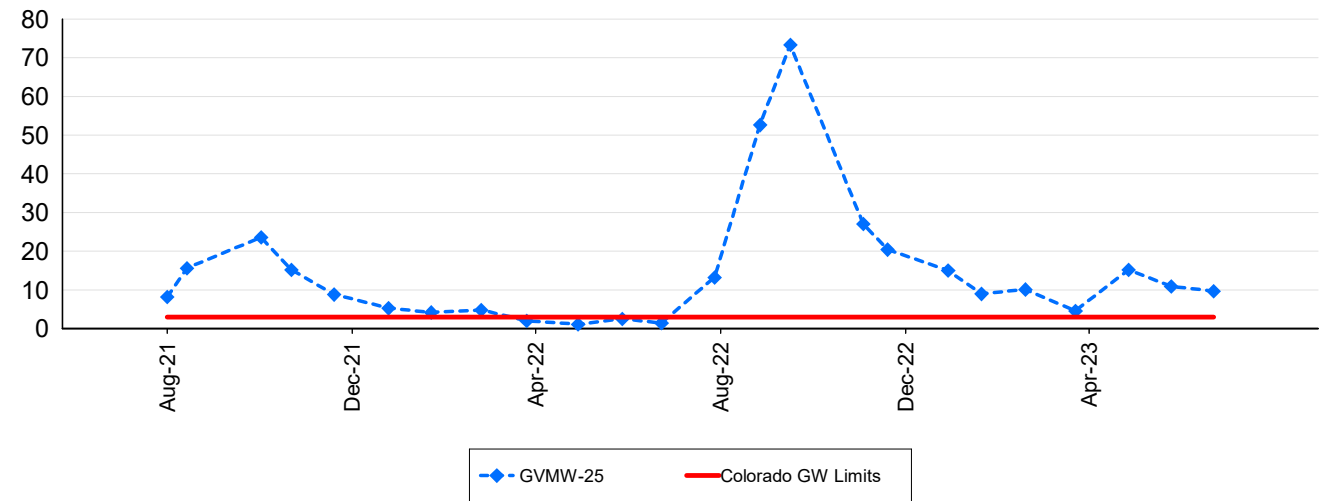
: Lead - Dissolved (mg/L)



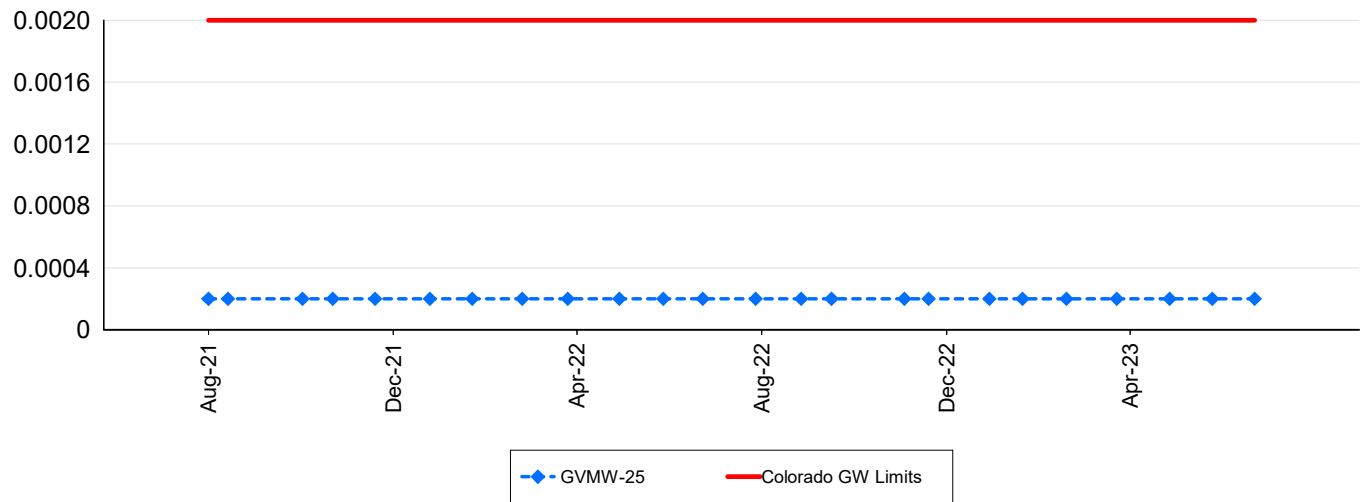
: Lithium - Dissolved (mg/L)



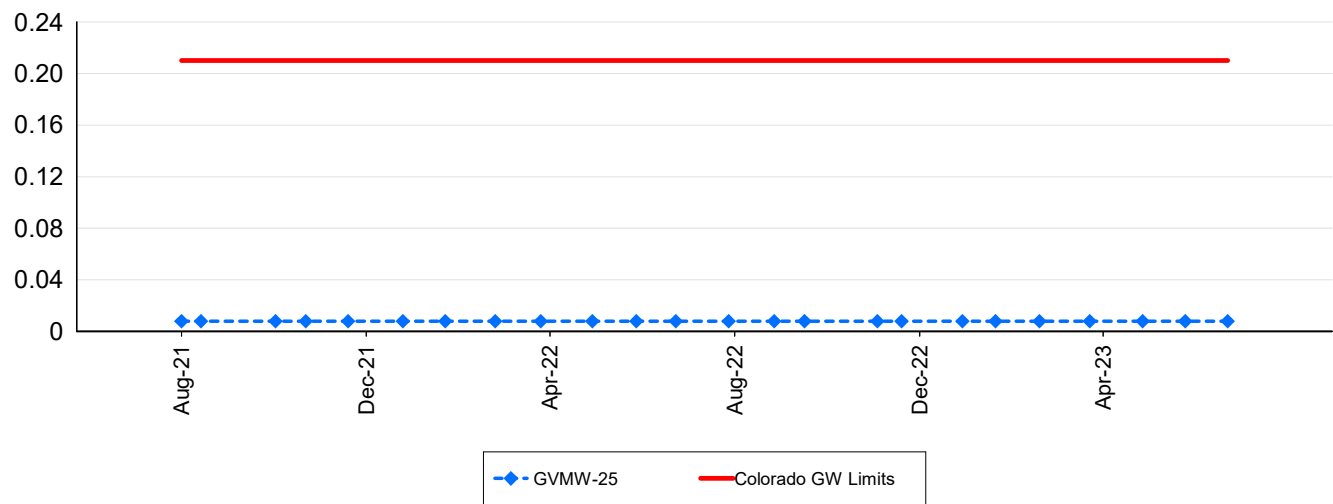
: Manganese - Dissolved (mg/L)



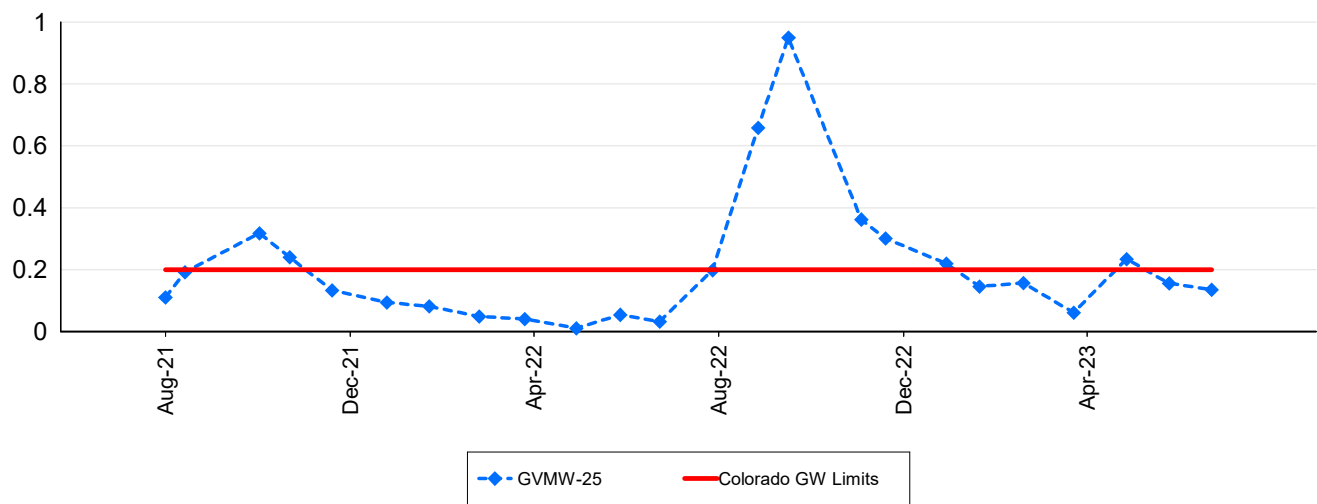
: Mercury - Dissolved (mg/L)



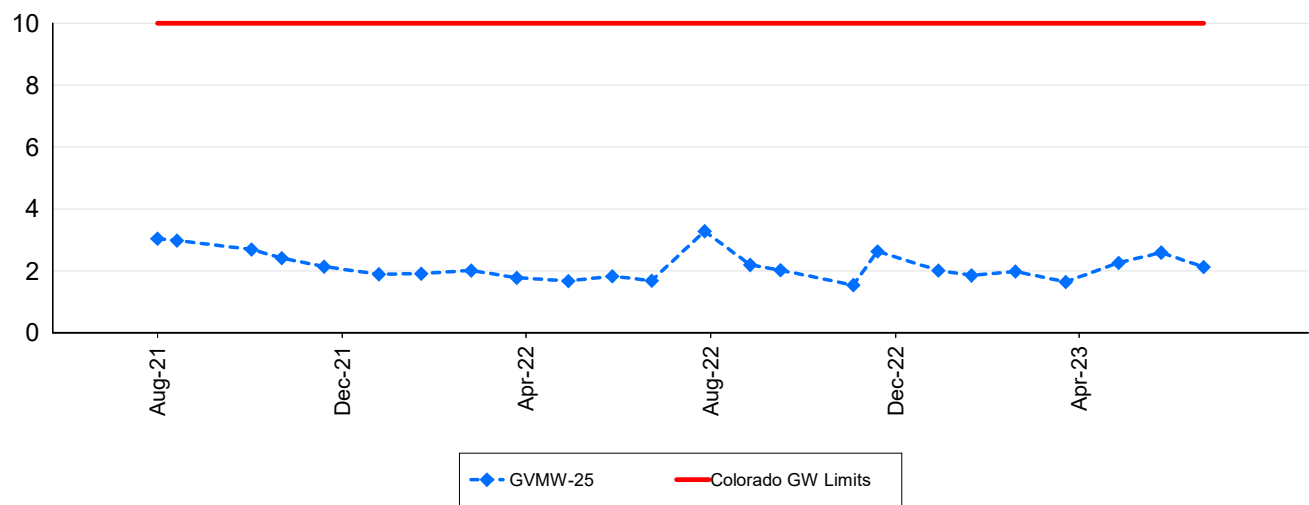
: Molybdenum - Dissolved (mg/L)



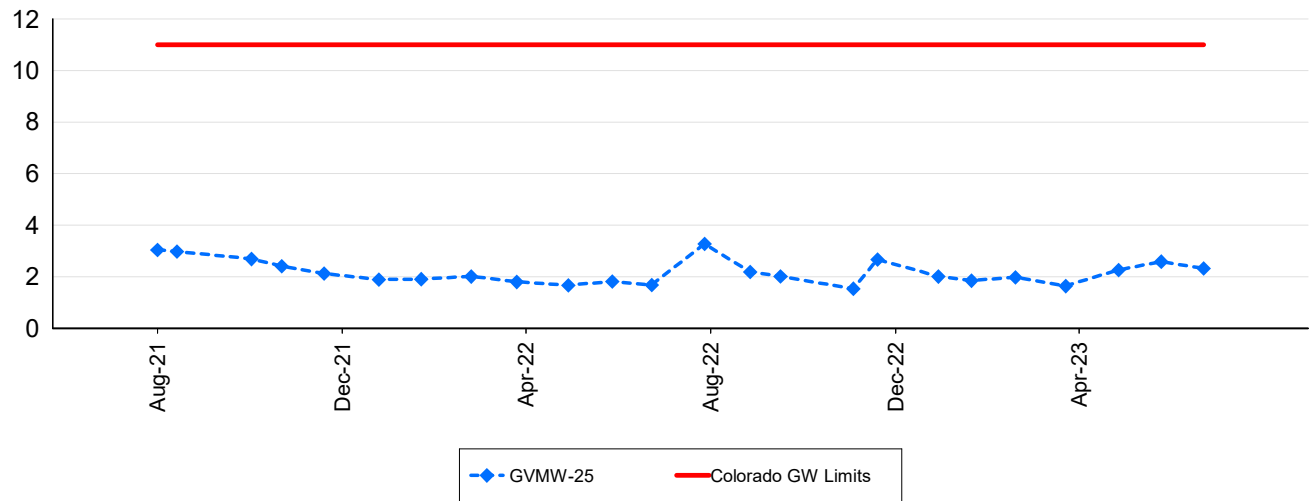
: Nickel - Dissolved (mg/L)



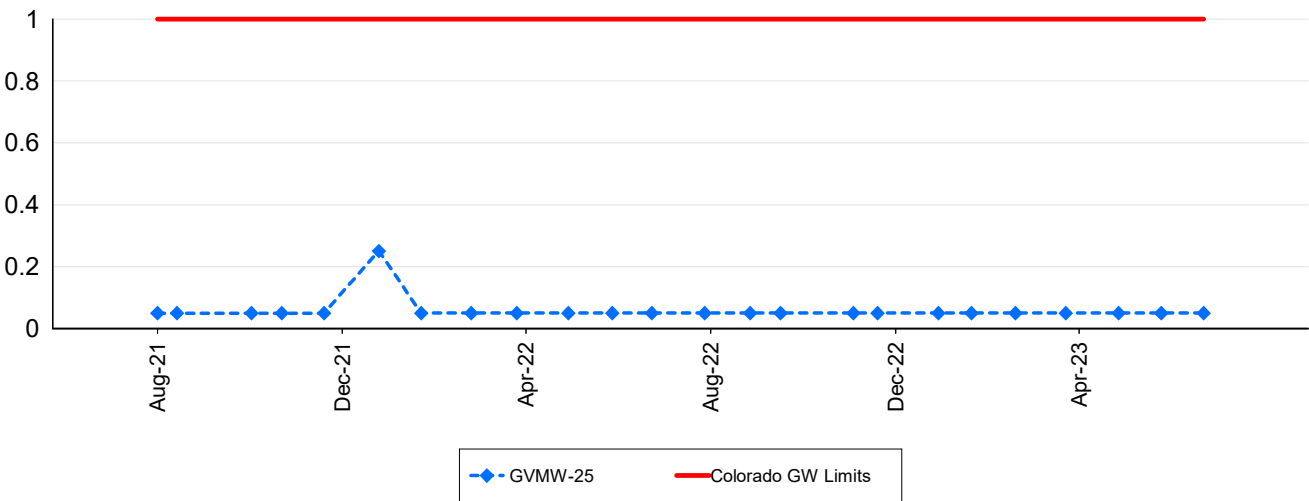
: Nitrate as Nitrogen (mg/L)



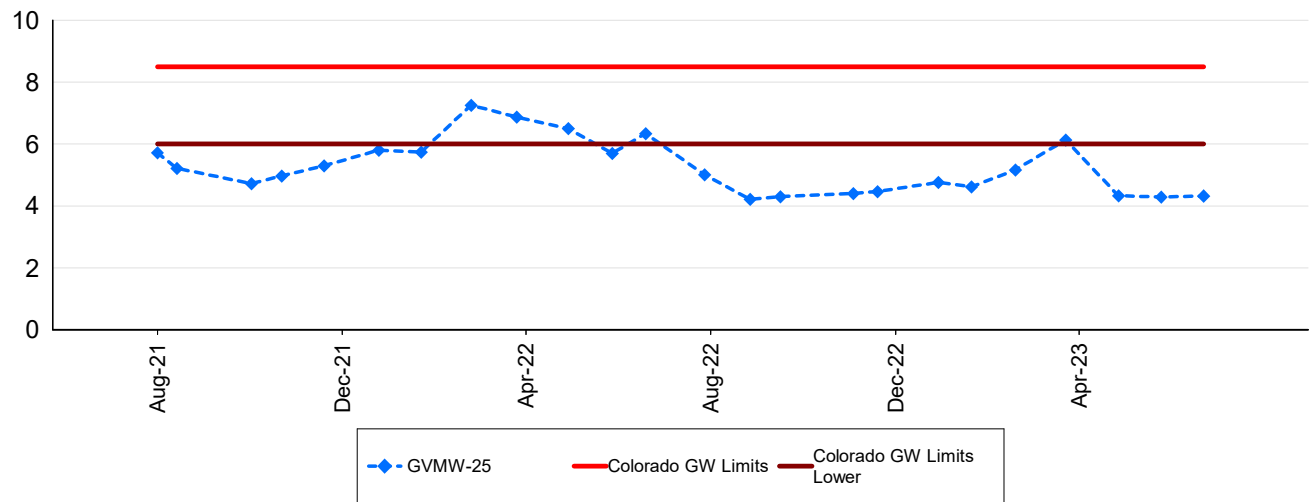
: Nitrite + Nitrate as Nitrogen (mg/L)



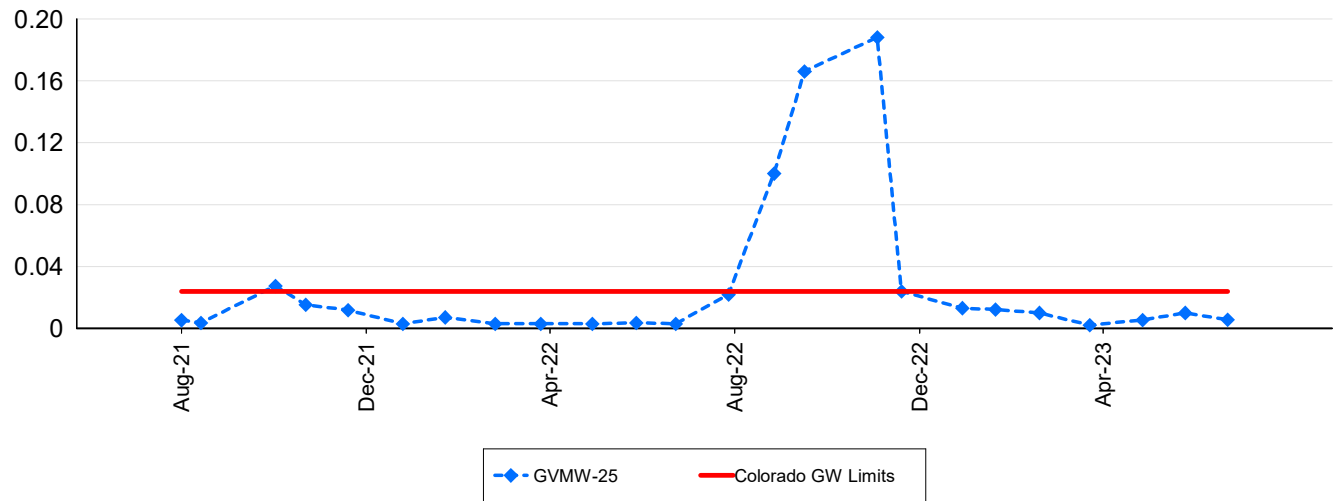
: Nitrite as Nitrogen (mg/L)



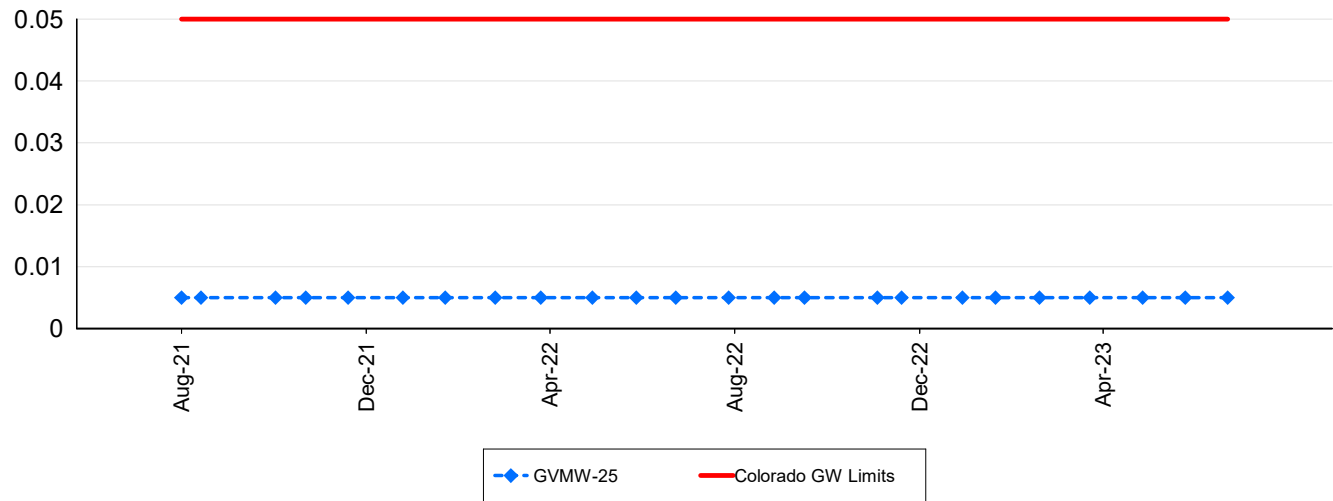
: pH Field (pH unit)



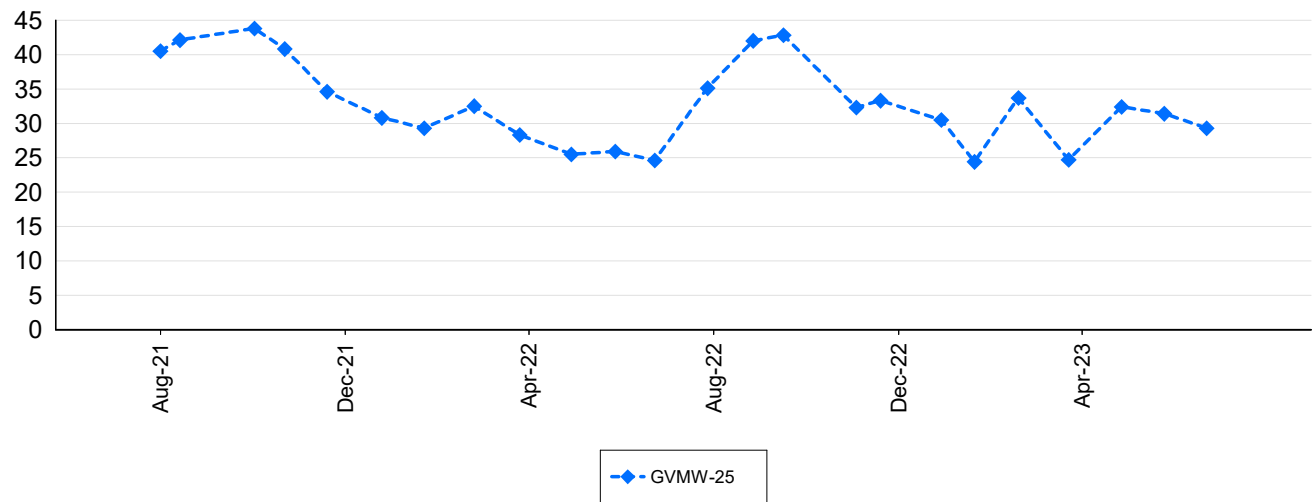
: Selenium - Dissolved (mg/L)



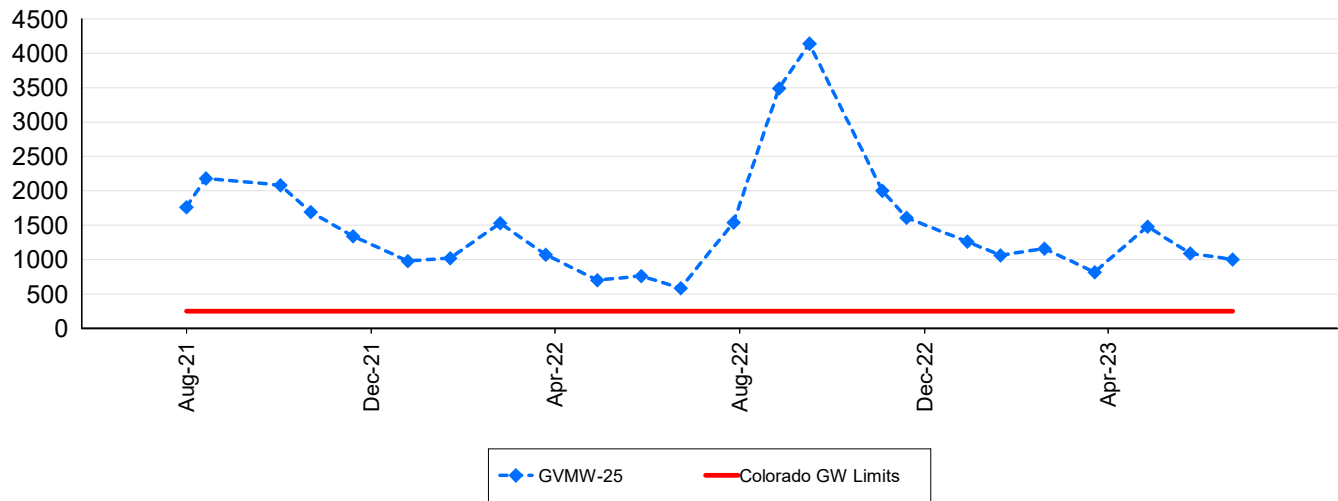
: Silver - Dissolved (mg/L)



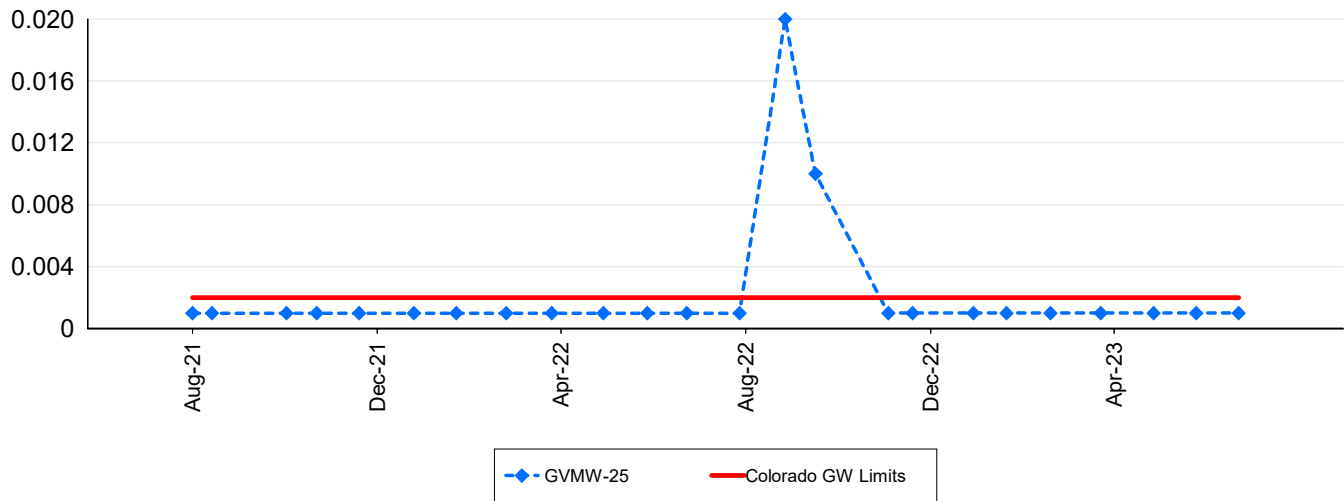
: Sodium - Dissolved (mg/L)



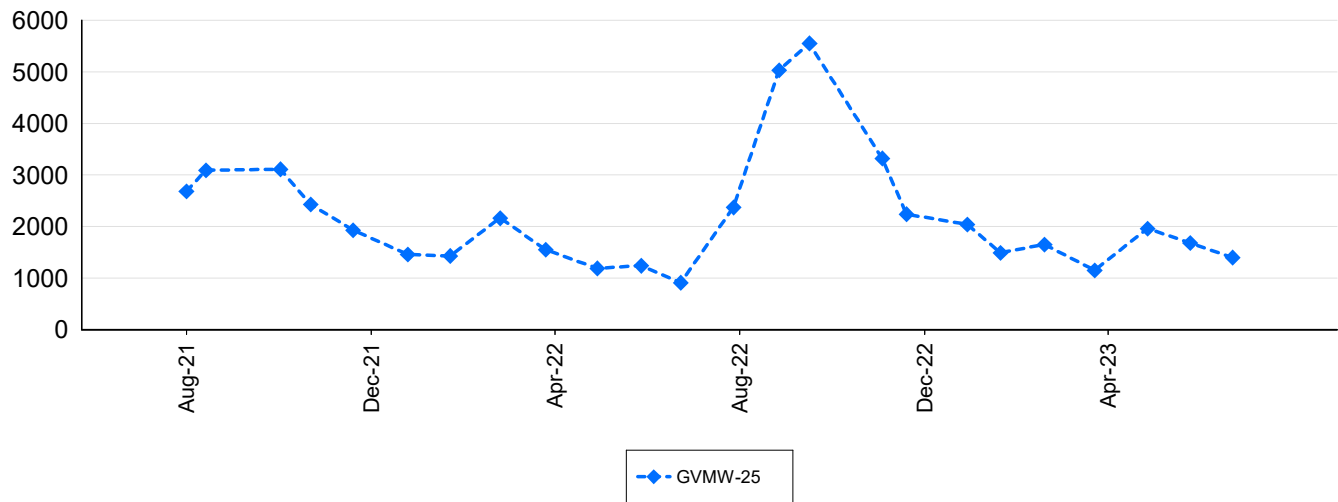
: Sulfate - Total (mg/L)



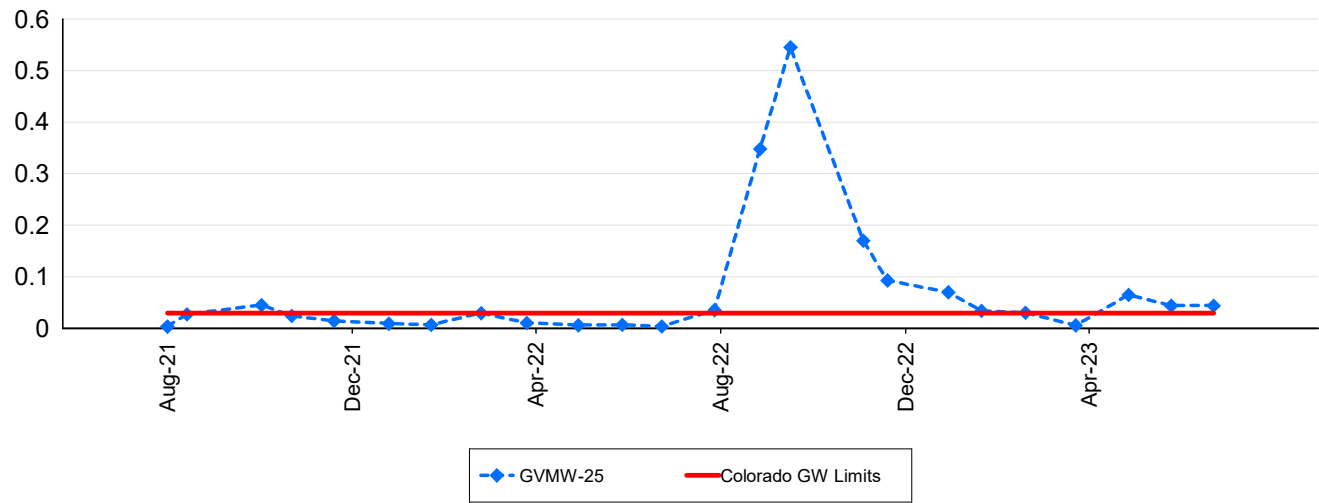
: Thallium - Dissolved (mg/L)



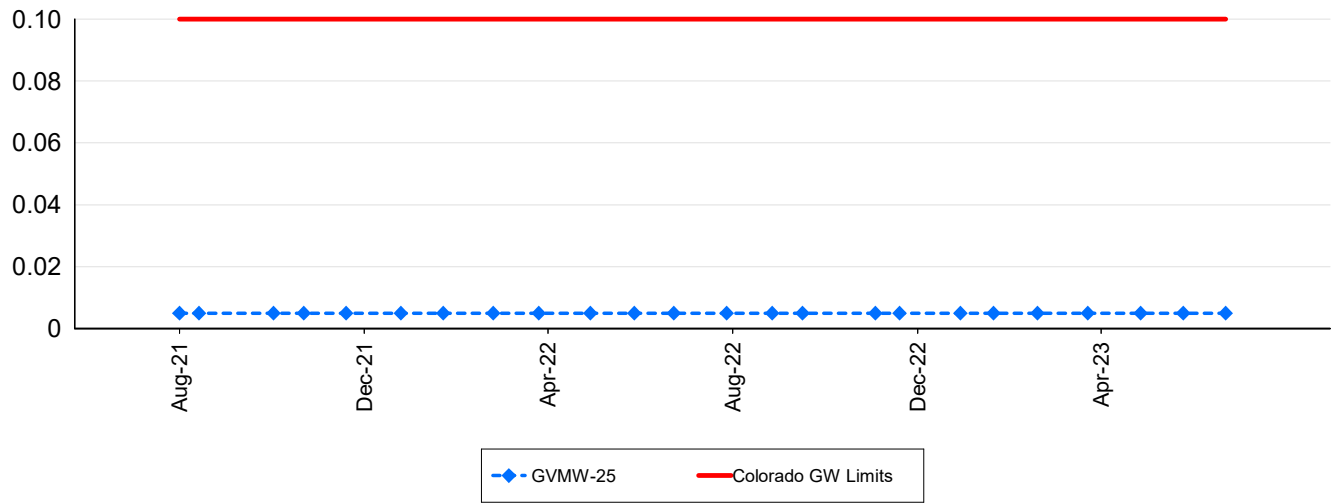
: Total Dissolved Solids (mg/L)



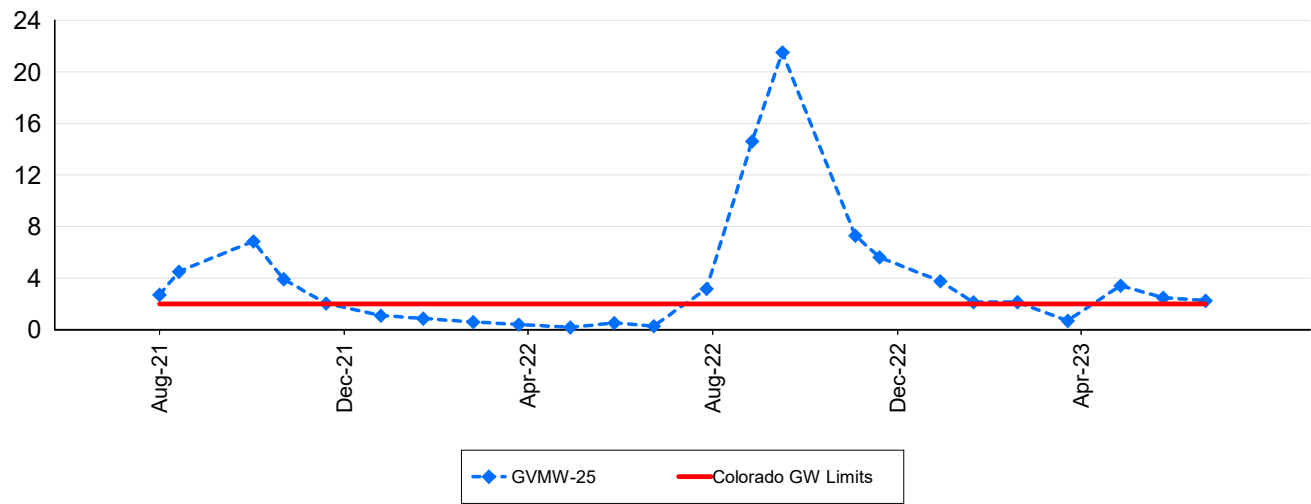
: Uranium - Dissolved (mg/L)



: Vanadium - Dissolved (mg/L)



: Zinc - Dissolved (mg/L)



Analytical Reports



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Work Order: **X3G0100**

Reported: 23-Aug-23 08:29

Client Sample ID: **GVMW-25**SVL Sample ID: **X3G0100-05 (Ground Water)**

Sampled: 10-Jul-23 14:08

Received: 11-Jul-23

Sampled By: PB

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	230	mg/L	0.100	0.035		X329009	SMU	07/19/23 14:22	
EPA 200.7	Magnesium	62.7	mg/L	0.500	0.045		X329009	SMU	07/19/23 14:22	
EPA 200.7	Potassium	3.32	mg/L	0.50	0.09		X329009	SMU	07/19/23 14:22	
SM 2340 B	Hardness (as CaCO3)	799	mg/L	2.31	0.543		N/A		07/19/23 14:22	

Metals (Dissolved)

EPA 200.7	Aluminum	18.9	mg/L	0.080	0.054		X328096	AS	07/26/23 08:27	
EPA 200.7	Barium	0.0101	mg/L	0.0020	0.0019		X328096	AS	07/26/23 08:27	
EPA 200.7	Beryllium	0.0305	mg/L	0.00200	0.00080		X328096	AS	07/26/23 08:27	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X328096	AS	07/26/23 08:27	
EPA 200.7	Cadmium	0.0691	mg/L	0.0020	0.0016		X328096	AS	07/26/23 08:27	
EPA 200.7	Calcium	219	mg/L	0.100	0.069		X328096	AS	07/26/23 08:27	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X328096	AS	07/26/23 08:27	
EPA 200.7	Cobalt	0.0431	mg/L	0.0060	0.0046		X328096	AS	07/26/23 08:27	
EPA 200.7	Copper	0.0332	mg/L	0.0100	0.0027		X328096	AS	07/26/23 08:27	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X328096	AS	07/26/23 08:27	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X328096	JRR	07/26/23 16:31	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X328096	AS	07/26/23 08:27	
EPA 200.7	Magnesium	61.4	mg/L	0.500	0.090		X328096	AS	07/26/23 08:27	
EPA 200.7	Manganese	9.66	mg/L	0.0080	0.0034		X328096	AS	07/26/23 08:27	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X328096	AS	07/26/23 08:27	
EPA 200.7	Nickel	0.135	mg/L	0.0100	0.0048		X328096	AS	07/26/23 08:27	
EPA 200.7	Potassium	3.14	mg/L	0.50	0.18		X328096	AS	07/26/23 08:27	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X328096	AS	07/26/23 08:27	
EPA 200.7	Sodium	29.3	mg/L	0.50	0.12		X328096	AS	07/26/23 08:27	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X328096	AS	07/26/23 08:27	
EPA 200.7	Zinc	2.24	mg/L	0.0100	0.0054		X328096	AS	07/26/23 08:27	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X327183	SMU	07/21/23 13:11	
EPA 200.8	Arsenic	0.00153	mg/L	0.00100	0.00021		X327183	SMU	07/21/23 13:11	
EPA 200.8	Selenium	0.00563	mg/L	0.00100	0.00024		X327183	SMU	07/21/23 13:11	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X327183	SMU	07/21/23 13:11	
EPA 200.8	Uranium	0.0439	mg/L	0.000100	0.000052		X327183	SMU	07/21/23 13:11	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X328121	NMS	07/14/23 12:56	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X329037	DD	07/21/23 12:05	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X328142	JRR	07/14/23 14:22	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X328145	JRR	07/14/23 11:26	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X329038	DD	07/25/23 11:05	H1
SM 2310 B	Acidity to pH 8.3	119	mg/L as CaCO3	10.0			X329170	MWD	07/20/23 16:56	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:47	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:47	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:47	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:47	
SM 2540 C	Total Diss. Solids	1400	mg/L	10			X328064	TJL	07/12/23 14:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X328065	TJL	07/12/23 15:20	
SM 4500 H B	pH @23.5°C	4.4	pH Units				X328070	MWD	07/12/23 12:47	H5

SVL holds the following certifications:

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

Work order Report Page 10 of 24



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Work Order: **X3G0100**

Reported: 23-Aug-23 08:29

Client Sample ID: **GVMW-25**SVL Sample ID: **X3G0100-05 (Ground Water)**

Sampled: 10-Jul-23 14:08

Received: 11-Jul-23

Sampled By: PB

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	39.4	mg/L	10.0	1.10	50	X328052	RS	07/11/23 16:07	D2
EPA 300.0	Fluoride	4.30	mg/L	0.100	0.017		X328052	RS	07/11/23 15:50	
EPA 300.0	Nitrate as N	2.12	mg/L	0.050	0.013		X328052	RS	07/11/23 15:50	
EPA 300.0	Nitrate+Nitrite as N	2.32	mg/L	0.100	0.044		X328052	RS	07/11/23 15:50	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X328052	RS	07/11/23 15:50	
EPA 300.0	Sulfate as SO4	1000	mg/L	15.0	9.00	50	X328052	RS	07/11/23 16:07	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 19.9 meq/L

Anion Sum: 22.3 meq/L

C/A Balance: -5.87 %

Calculated TDS: 1373

TDS/cTDS: 1.02

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kathryn Salter
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Work Order: **X3G0100**

Reported: 23-Aug-23 08:29

Client Sample ID: **GV-06**

Sampled: 10-Jul-23 10:00

Received: 11-Jul-23

Sampled By: PB

SVL Sample ID: **X3G0100-03 (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 245.1	Mercury	< 0.000093	mg/L	0.000200	0.000093		X328123	NMS	07/21/23 11:46	U
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Metals (Total Recoverable--reportable as Total per 40 CFR 136)

EPA 200.7	Barium	0.115	mg/L	0.0020	0.0010		X329143	SMU	07/25/23 15:50	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00040		X329143	SMU	07/25/23 15:50	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0039		X329143	SMU	07/25/23 15:50	
EPA 200.7	Calcium	54.8	mg/L	0.100	0.035		X329143	SMU	07/25/23 15:50	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0010		X329143	SMU	07/25/23 15:50	
EPA 200.7	Iron	1.24	mg/L	0.100	0.028		X329143	SMU	07/25/23 15:50	
EPA 200.7	Magnesium	12.7	mg/L	0.500	0.045		X329143	SMU	07/25/23 15:50	
EPA 200.7	Manganese	1.11	mg/L	0.0080	0.0017		X329143	SMU	07/25/23 15:50	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0017		X329143	SMU	07/25/23 15:50	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0024		X329143	SMU	07/25/23 15:50	
EPA 200.7	Phosphorus	0.050	mg/L	0.050	0.007		X329143	SMU	07/25/23 15:50	
EPA 200.7	Potassium	1.47	mg/L	0.50	0.09		X329143	SMU	07/25/23 15:50	
EPA 200.7	Sodium	13.0	mg/L	0.50	0.06		X329143	SMU	07/25/23 15:50	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0027		X329143	SMU	07/25/23 15:50	
EPA 200.8	Antimony	< 0.00300	mg/L	0.00300	0.00072	2	X329138	SMU	08/01/23 13:04	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021	2	X329138	SMU	08/01/23 13:04	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063	2	X329138	SMU	08/01/23 13:04	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017	2	X329138	SMU	08/01/23 13:04	
EPA 200.8	Copper	< 0.00100	mg/L	0.00100	0.00036	2	X329138	SMU	08/01/23 13:04	
EPA 200.8	Lead	0.00030	mg/L	0.00020	0.00014	2	X329138	SMU	08/01/23 13:04	
EPA 200.8	Selenium	< 0.00300	mg/L	0.00300	0.00024	2	X329138	SMU	08/01/23 13:04	
SM 2340 B	Hardness (as CaCO3)	203	mg/L	2.31	0.543		N/A		07/25/23 15:50	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X328096	AS	07/26/23 08:20	
EPA 200.7	Barium	0.113	mg/L	0.0020	0.0019		X328096	AS	07/26/23 08:20	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X328096	AS	07/26/23 08:20	
EPA 200.7	Calcium	57.7	mg/L	0.100	0.069		X328096	AS	07/26/23 08:20	
EPA 200.7	Iron	0.549	mg/L	0.100	0.056		X328096	AS	07/26/23 08:20	
EPA 200.7	Magnesium	14.2	mg/L	0.500	0.090		X328096	AS	07/26/23 08:20	
EPA 200.7	Manganese	0.884	mg/L	0.0080	0.0034		X328096	AS	07/26/23 08:20	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X328096	AS	07/26/23 08:20	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X328096	AS	07/26/23 08:20	
EPA 200.7	Potassium	1.44	mg/L	0.50	0.18		X328096	AS	07/26/23 08:20	
EPA 200.7	Sodium	13.0	mg/L	0.50	0.12		X328096	AS	07/26/23 08:20	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X328096	AS	07/26/23 08:20	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X328092	SMU	07/28/23 16:46	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X328092	SMU	07/28/23 16:46	
EPA 200.8	Cadmium	< 0.000100	mg/L	0.000100	0.000063		X328092	SMU	07/28/23 16:46	
EPA 200.8	Chromium	< 0.00100	mg/L	0.00100	0.00017		X328092	SMU	07/28/23 16:46	
EPA 200.8	Copper	< 0.00040	mg/L	0.00040	0.00036		X328092	SMU	07/28/23 16:46	
EPA 200.8	Lead	< 0.00020	mg/L	0.00020	0.00014		X328092	SMU	07/28/23 16:46	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X328092	SMU	07/28/23 16:46	
EPA 200.8	Silver	< 0.00008	mg/L	0.00008	0.000061		X328092	SMU	07/28/23 16:46	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X328092	SMU	07/28/23 16:46	
EPA 200.8	Uranium	0.00169	mg/L	0.000100	0.000052		X328092	SMU	07/28/23 16:46	

SVL holds the following certifications:

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

Work order Report Page 6 of 24



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Work Order: **X3G0100**

Reported: 23-Aug-23 08:29

Client Sample ID: **GV-06**SVL Sample ID: **X3G0100-03 (Surface Water)**

Sampled: 10-Jul-23 10:00

Received: 11-Jul-23

Sampled By: PB

Sample Report Page 2 of 2

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

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X328121	NMS	07/14/23 12:52	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X329036	DD	07/21/23 13:22	
Calculation	Chromium(III)	< 0.0110	mg/L	0.0110	0.00290		N/A		07/25/23 15:50	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X328142	JRR	07/14/23 14:17	
EPA 350.1	Ammonia as N	0.036	mg/L	0.030	0.013		X329030	HJL	07/18/23 14:01	
EPA 351.2	TKN	< 0.50	mg/L	0.50	0.31		X328144	HJL	07/17/23 13:06	
Hach 8167	Total Chlorine	0.18	mg/L	0.020			X328143	NMS	07/14/23 15:15	H5,Q10
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X329038	DD	07/24/23 14:12	
SM 2310 B	Acidity to pH 8.3	-106	mg/L as CaCO3	10.0			X329170	MWD	07/20/23 16:56	
SM 2320 B	Total Alkalinity	105	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:33	
SM 2320 B	Bicarbonate	105	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:33	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:33	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:33	
SM 2540 C	Total Diss. Solids	298	mg/L	10			X328064	TJL	07/12/23 14:20	
SM 2540 D	Total Susp. Solids	7.0	mg/L	5.0			X328065	TJL	07/12/23 15:20	R2B
SM 4500 H B	pH @23.2°C	7.5	pH Units				X328070	MWD	07/12/23 12:33	H5
SM 4500 S D	Sulfide	< 0.050	mg/L	0.050	0.020		X327160	DD	07/11/23 14:15	
SM 4500-O-G	Dissolved Oxygen	6.2	mg/L	0.1			X328151	TJL	07/20/23 14:00	H5

Dissolved Classical Chemistry Parameters

SM 3500 Cr B	Hexavalent Chromium	< 0.0050	mg/L	0.0050	0.0019		X329021	DD	07/17/23 17:30	
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Filtered Classical Chemistry Parameters

Calculation	Chromium (III)	< 0.00600	mg/L	0.00600	0.00207		N/A		07/28/23 16:46	
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Anions by Ion Chromatography

EPA 300.0	Chloride	7.65	mg/L	0.20	0.02		X328052	RS	07/11/23 14:59	
EPA 300.0	Fluoride	0.649	mg/L	0.100	0.017		X328052	RS	07/11/23 14:59	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X328052	RS	07/11/23 14:59	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X328052	RS	07/11/23 14:59	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X328052	RS	07/11/23 14:59	
EPA 300.0	Sulfate as SO4	125	mg/L	3.00	1.80	10	X328052	RS	07/11/23 15:16	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.44 meq/L Anion Sum: 4.95 meq/L C/A Balance: -5.42 % Calculated TDS: 280 TDS/cTDS: 1.06

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3G0100**

Reported: 23-Aug-23 08:29

Client Sample ID: **Ecosa Seep-1**

Sampled: 10-Jul-23 09:10

SVL Sample ID: **X3G0100-01 (Ground Water)**

Received: 11-Jul-23

Sampled By: PB

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	389	mg/L	0.500	0.345	10	X329009	SMU	07/19/23 14:11	D2
EPA 200.7	Magnesium	1050	mg/L	2.50	0.450	10	X329009	SMU	07/19/23 14:11	D2
EPA 200.7	Potassium	< 2.50	mg/L	2.50	0.90	10	X329009	SMU	07/19/23 14:11	D1
SM 2340 B	Hardness (as CaCO3)	6530	mg/L	231	54.3		N/A		07/19/23 14:11	

Metals (Dissolved)

EPA 200.7	Aluminum	5600	mg/L	8.00	5.40	100	X328096	AS	07/26/23 08:12	D2
EPA 200.7	Barium	< 0.200	mg/L	0.200	0.190	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Beryllium	0.638	mg/L	0.200	0.0800	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Boron	< 4.00	mg/L	4.00	0.780	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Cadmium	16.1	mg/L	0.200	0.160	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Calcium	471	mg/L	10.0	6.90	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Chromium	2.04	mg/L	0.600	0.200	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Cobalt	17.0	mg/L	0.600	0.460	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Copper	36.6	mg/L	1.00	0.270	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Iron	4680	mg/L	10.0	5.60	100	X328096	AS	07/26/23 08:12	D2
EPA 200.7	Lead	< 0.750	mg/L	0.750	0.490	100	X328096	JRR	07/26/23 16:20	D1
EPA 200.7	Lithium	< 4.00	mg/L	4.00	2.50	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Magnesium	1300	mg/L	50.0	9.00	100	X328096	AS	07/26/23 08:12	D2
EPA 200.7	Manganese	1620	mg/L	0.800	0.340	100	X328096	AS	07/26/23 08:12	D2
EPA 200.7	Molybdenum	< 0.800	mg/L	0.800	0.340	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Nickel	14.0	mg/L	1.00	0.480	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Potassium	< 50.0	mg/L	50.0	18.0	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Silver	< 0.500	mg/L	0.500	0.190	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Sodium	56.3	mg/L	50.0	12.0	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Vanadium	< 0.500	mg/L	0.500	0.190	100	X328096	AS	07/26/23 08:12	D1
EPA 200.7	Zinc	273	mg/L	1.00	0.540	100	X328096	AS	07/26/23 08:12	D1
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X327183	SMU	07/21/23 12:54	D1
EPA 200.8	Arsenic	1.29	mg/L	0.100	0.0210	100	X327183	SMU	07/21/23 12:54	D1
EPA 200.8	Selenium	0.577	mg/L	0.100	0.0240	100	X327183	SMU	07/21/23 12:54	D1
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X327183	SMU	07/21/23 12:54	D1
EPA 200.8	Uranium	17.7	mg/L	0.0100	0.00520	100	X327183	SMU	07/21/23 12:54	D1

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X328121	NMS	07/14/23 12:48	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X329037	DD	07/21/23 14:10	E12,N1,Q20,Q26,V9
EPA 335.4	Cyanide (total)	0.0780	mg/L	0.0050	0.0038		X328142	JRR	07/14/23 14:11	E12,Q20
EPA 350.1	Ammonia as N	0.274	mg/L	0.150	0.064	5	X328145	JRR	07/14/23 11:12	D1
OIA 1677	Cyanide (WAD)	< 0.500	mg/L	0.500	0.100	100	X329038	DD	07/25/23 14:32	D1,E12,H1,N1,Q20,Q26
SM 2310 B	Acidity to pH 8.3	42200	mg/L as CaCO3	10.0			X329170	MWD	07/20/23 16:56	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:15	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:15	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:15	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:15	
SM 2540 C	Total Diss. Solids	78100	mg/L	100			X328064	TJL	07/12/23 14:20	D2,E11
SM 2540 D	Total Susp. Solids	113	mg/L	5.0			X328065	TJL	07/12/23 15:20	
SM 4500 H B	pH @22.8°C	2.3	pH Units				X328070	MWD	07/12/23 12:15	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 24



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Work Order: **X3G0100**

Reported: 23-Aug-23 08:29

Client Sample ID: **Ecosa Seep-1**SVL Sample ID: **X3G0100-01 (Ground Water)**

Sampled: 10-Jul-23 09:10

Received: 11-Jul-23

Sampled By: PB

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	X328052	RS	07/11/23 13:51	D1
EPA 300.0	Fluoride	46.5	mg/L	10.0	1.70	100	X328052	RS	07/11/23 13:51	D2
EPA 300.0	Nitrate as N	18.8	mg/L	5.00	1.30	100	X328052	RS	07/11/23 13:51	D2
EPA 300.0	Nitrate+Nitrite as N	19.4	mg/L	10.0	4.40	100	X328052	RS	07/11/23 13:51	D2
EPA 300.0	Nitrite as N	< 5.00	mg/L	5.00	3.10	100	X328052	RS	07/11/23 13:51	D1
EPA 300.0	Sulfate as SO4	58200	mg/L	750	450	2500	X328052	RS	07/11/23 14:08	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 968 meq/L

Anion Sum: 1,216 meq/L

C/A Balance: -11.36 %

Calculated TDS: 59994

TDS/cTDS: 1.30

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kathryn Salter
Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3G0100**

Reported: 23-Aug-23 08:29

Client Sample ID: **Ecosa Seep-2**

Sampled: 10-Jul-23 08:44

Received: 11-Jul-23

Sampled By: PB

SVL Sample ID: **X3G0100-02 (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	339	mg/L	0.500	0.345	10	X329009	SMU	07/19/23 14:14	D1
EPA 200.7	Magnesium	900	mg/L	2.50	0.450	10	X329009	SMU	07/19/23 14:14	D2
EPA 200.7	Potassium	< 2.50	mg/L	2.50	0.90	10	X329009	SMU	07/19/23 14:14	D1
SM 2340 B	Hardness (as CaCO3)	4550	mg/L	11.5	2.71		N/A		07/26/23 08:16	

Metals (Dissolved)

EPA 200.7	Aluminum	8410	mg/L	8.00	5.40	100	X328096	AS	07/26/23 08:16	D2
EPA 200.7	Barium	< 0.200	mg/L	0.200	0.190	100	X328096	AS	07/26/23 08:16	D1
EPA 200.7	Beryllium	0.609	mg/L	0.200	0.0800	100	X328096	AS	07/26/23 08:16	D1
EPA 200.7	Boron	< 4.00	mg/L	4.00	0.780	100	X328096	AS	07/26/23 08:16	D1
EPA 200.7	Cadmium	42.6	mg/L	0.200	0.160	100	X328096	AS	07/26/23 08:16	D1
EPA 200.7	Calcium	397	mg/L	10.0	6.90	100	X328096	AS	07/26/23 08:16	D1
EPA 200.7	Chromium	1.94	mg/L	0.600	0.200	100	X328096	AS	07/26/23 08:16	D1
EPA 200.7	Cobalt	20.1	mg/L	0.600	0.460	100	X328096	AS	07/26/23 08:16	D1
EPA 200.7	Copper	101	mg/L	1.00	0.270	100	X328096	AS	07/26/23 08:16	D2
EPA 200.7	Iron	7970	mg/L	10.0	5.60	100	X328096	AS	07/26/23 08:16	D2
EPA 200.7	Lead	< 0.750	mg/L	0.750	0.490	100	X328096	JRR	07/26/23 16:24	D1
EPA 200.7	Lithium	< 4.00	mg/L	4.00	2.50	100	X328096	AS	07/26/23 08:16	D1
EPA 200.7	Magnesium	1080	mg/L	50.0	9.00	100	X328096	AS	07/26/23 08:16	D2
EPA 200.7	Manganese	3170	mg/L	0.800	0.340	100	X328096	AS	07/26/23 08:16	D2
EPA 200.7	Molybdenum	< 0.800	mg/L	0.800	0.340	100	X328096	AS	07/26/23 08:16	D1
EPA 200.7	Nickel	11.8	mg/L	1.00	0.480	100	X328096	AS	07/26/23 08:16	D1
EPA 200.7	Potassium	< 50.0	mg/L	50.0	18.0	100	X328096	AS	07/26/23 08:16	D1
EPA 200.7	Silver	< 0.500	mg/L	0.500	0.190	100	X328096	AS	07/26/23 08:16	D1
EPA 200.7	Sodium	< 50.0	mg/L	50.0	12.0	100	X328096	AS	07/26/23 08:16	D1
EPA 200.7	Vanadium	0.701	mg/L	0.500	0.190	100	X328096	AS	07/26/23 08:16	D1
EPA 200.7	Zinc	1780	mg/L	1.00	0.540	100	X328096	AS	07/26/23 08:16	D2
EPA 200.8	Antimony	< 0.100	mg/L	0.100	0.0720	100	X327183	SMU	07/21/23 13:04	D1
EPA 200.8	Arsenic	7.93	mg/L	0.100	0.0210	100	X327183	SMU	07/21/23 13:04	D1
EPA 200.8	Selenium	0.822	mg/L	0.100	0.0240	100	X327183	SMU	07/21/23 13:04	D1
EPA 200.8	Thallium	< 0.0200	mg/L	0.0200	0.00800	100	X327183	SMU	07/21/23 13:04	D1
EPA 200.8	Uranium	64.2	mg/L	0.0100	0.00520	100	X327183	SMU	07/21/23 13:04	D1

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X328121	NMS	07/14/23 12:50	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X329037	DD	07/21/23 14:13	E12,N1,Q20,Q26,V9
EPA 335.4	Cyanide (total)	0.0215	mg/L	0.0050	0.0038		X328142	JRR	07/14/23 14:14	E12,Q20
EPA 350.1	Ammonia as N	0.227	mg/L	0.150	0.064	5	X328145	JRR	07/14/23 11:23	D1
OIA 1677	Cyanide (WAD)	< 0.500	mg/L	0.500	0.100	100	X329038	DD	07/25/23 14:33	D1,E12,H1,N1,Q20,Q26
SM 2310 B	Acidity to pH 8.3	42200	mg/L as CaCO3	10.0			X329170	MWD	07/20/23 16:56	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:24	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:24	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:24	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 12:24	
SM 2540 C	Total Diss. Solids	110000	mg/L	100			X328064	TJL	07/12/23 14:20	D2,E11
SM 2540 D	Total Susp. Solids	121	mg/L	5.0			X328065	TJL	07/12/23 15:20	
SM 4500 H B	pH @23.1°C	2.3	pH Units				X328070	MWD	07/12/23 12:24	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 24



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Work Order: **X3G0100**

Reported: 23-Aug-23 08:29

Client Sample ID: **Ecosa Seep-2**SVL Sample ID: **X3G0100-02 (Ground Water)**

Sampled: 10-Jul-23 08:44

Received: 11-Jul-23

Sampled By: PB

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	X328052	RS	07/11/23 14:25	D1
EPA 300.0	Fluoride	568	mg/L	10.0	1.70	100	X328052	RS	07/11/23 14:25	D2
EPA 300.0	Nitrate as N	5.57	mg/L	5.00	1.30	100	X328052	RS	07/11/23 14:25	D1
EPA 300.0	Nitrate+Nitrite as N	13.4	mg/L	10.0	4.40	100	X328052	RS	07/11/23 14:25	D2
EPA 300.0	Nitrite as N	< 5.00	mg/L	5.00	3.10	100	X328052	RS	07/11/23 14:25	D1
EPA 300.0	Sulfate as SO4	79200	mg/L	750	450	2500	X328052	RS	07/11/23 14:42	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 1,486 meq/L

Anion Sum: 1,680 meq/L

C/A Balance: -6.13 %

Calculated TDS: 81185

TDS/cTDS: 1.35

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kathryn Salter
Project Manager

Surface Water Calculations

Table 1: TVS Calculations & Comparison

GV-06		
Sample Date:		7/10/2023
Data for Calculations:		
pH	6.28	std units
Hardness	203	mg/L
Temperature	15	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	34.878	6.619
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)	---	0.00002
Cadmium	0.00347	0.00122
Cadmium (T)	0.00500	---
Chromium (III)	---	0.13236
Chromium (III) (Total)	0.05000	---
Hexavalent Chromium	0.01600	0.01100
Copper	0.02619	0.01640
Iron	---	0.30000
Iron (T)	---	1.00000
Lead	0.13831	0.00539
Lead (T)	0.05000	---
Manganese	3.77981	2.08835
Mercury (T)	---	0.00001
Molybdenum (T)	---	0.15000
Nickel	0.85233	0.09467
Nickel (T)	---	0.10000
Selenium	0.01840	0.00460
Silver	0.00686	0.00025
Uranium	5.24214	3.27438
Zinc	0.30463	0.23073
GV-06 Results		
Physical		
6.28		
15		
Inorganic		
0.036		
<0.04		
7.65		
0.18		
<0.005		
<0.05		
<0.05		
<0.05		
125		
0.05		
Metals		
<0.001		
<0.001		
<0.0001		
<0.0001		
<0.006		
<0.011		
<0.005		
<0.0004		
0.549		
1.24		
<0.0002		
0.0003		
0.884		
<0.0002		
<0.008		
<0.01		
<0.01		
<0.001		
<0.00008		
0.00169		
<0.01		

Field Sheets

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy valleyDate: 7.10.23Technician: P. BarolaQuarter: 3Static Water Level (DTW): 40.4Well ID: GV11W-25Well Depth: 79Is well Dry? NOIf so Dry at:

feet

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
12:58		4.48	1888	7.0	Started Pumping 12:52 ~ 4.72 7.0
42.3 1:08	1.9	4.55	1434	6.6	
42.3 1:18	1.9	4.50	1400	7.2	
42.9 1:28	2.5	4.44	1402	6.8	
42.9 1:38	2.5	4.46	1443	7.2	
42.9 1:48	2.5	4.43	1479	7.1	
42.9 1:58	2.5	4.42	1547	7.1	
43.0 2:08	2.6	4.32	1576	7.0	

Sample Method: Low Flow Rate (gpm): ~1.25 Time Start: 12:58 Time End: 2:08

Final Parameters	Stabilization Guidance	Met?	Comments
pH	4.32	0.1	Y/N
Conductivity	1578	3%	Y/N
Temp@	7.0	10%	Y/N
Final H2O level	43.0	feet	

O/G visible: Y/NTurbid? Y/NEquipment Decontaminated: Y/NDecontamination procedure used: Triple rinse w/liquinox bath Pump & sounderBinseblack collected prior to sampling GV25. Duplicate collectedWeather: Clear / SunnySignature: [Signature]

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Surface Water Sampling Log

Location: GV-06Date: 7.10.23Technician: P. BarelaQuarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
10:00	6.28	468.5	15.0	

Sample Method: GrabOil/Gas visible ☒ [Y/N]Turbid ☒ [Y/N] Slight dirt in waterClear ☒ [Y/N]Weather: Sunny, hotSignature: 

Comments:

Picture ☒use new filter & tubing

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: ECOSA seep - 1Date: 7-10-23Technician: P. PrineasQuarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
9:10	2.08	23.33	14.0	

Sample Method: GrabOil/Gas visible [Y/N] NTurbid [Y/N] NClear [Y/N] NWeather: Clear, sunnySignature: [Signature]

Comments:

Picture ☒
use new filter & tubing

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: Brook SLP-2Date: 7.10.23Technician: P. BarelaQuarter: 3

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
8:44	2.08	28.19	14.6	

Sample
Method:Grab

Oil/Gas visible

[Y/N]

Turbid

[Y/N]

Clear

[Y/N]

Weather:

Sunny, Clear

Signature:



Comments:

Picture ☒

Use new tubing & Filter

~~Notes: 2.44 pH~~

QA/QC



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Work Order: **X3G0100**

Reported: 23-Aug-23 08:29

Client Sample ID: **GVMW-125**

Sampled: 10-Jul-23 14:08

SVL Sample ID: **X3G0100-06 (Ground Water)**

Received: 11-Jul-23

Sampled By: PB

Sample Report Page 1 of 3

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	234	mg/L	0.100	0.035		X329009	SMU	07/19/23 14:29	
EPA 200.7	Magnesium	63.4	mg/L	0.500	0.045		X329009	SMU	07/19/23 14:29	
EPA 200.7	Potassium	3.38	mg/L	0.50	0.09		X329009	SMU	07/19/23 14:29	
SM 2340 B	Hardness (as CaCO3)	261	mg/L	2.31	0.358		N/A		07/26/23 08:31	
SM 2340 B	Hardness (as CaCO3)	836	mg/L	2.31	0.543		N/A		08/07/23 09:01	
SM 2340 B	Hardness (as CaCO3)	808	mg/L	2.31	0.543		N/A		08/07/23 09:05	



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Work Order: **X3G0100**

Reported: 23-Aug-23 08:29

Client Sample ID: **GVMW-125**

Sampled: 10-Jul-23 14:08

Received: 11-Jul-23

Sampled By: PB

SVL Sample ID: **X3G0100-06 (Ground Water)****Sample Report Page 2 of 3**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Dissolved)										
EPA 200.7	Aluminum	19.2	mg/L	0.080	0.054		X328096	AS	08/07/23 09:01	
EPA 200.7	Aluminum	19.1	mg/L	0.080	0.054		X328096	AS	08/07/23 09:05	
EPA 200.7	Barium	0.0111	mg/L	0.0020	0.0019		X328096	AS	08/07/23 09:01	
EPA 200.7	Barium	0.0108	mg/L	0.0020	0.0019		X328096	AS	08/07/23 09:05	
EPA 200.7	Beryllium	0.0314	mg/L	0.00200	0.00080		X328096	AS	08/07/23 09:01	
EPA 200.7	Beryllium	0.0312	mg/L	0.00200	0.00080		X328096	AS	08/07/23 09:05	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X328096	AS	08/07/23 09:01	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X328096	AS	08/07/23 09:05	
EPA 200.7	Cadmium	0.0687	mg/L	0.0020	0.0016		X328096	AS	08/07/23 09:01	
EPA 200.7	Cadmium	0.0693	mg/L	0.0020	0.0016		X328096	AS	08/07/23 09:05	
EPA 200.7	Calcium	231	mg/L	0.100	0.069		X328096	AS	08/07/23 09:01	
EPA 200.7	Calcium	222	mg/L	0.100	0.069		X328096	AS	08/07/23 09:05	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X328096	AS	08/07/23 09:01	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X328096	AS	08/07/23 09:05	
EPA 200.7	Cobalt	0.0438	mg/L	0.0060	0.0046		X328096	AS	08/07/23 09:01	
EPA 200.7	Cobalt	0.0446	mg/L	0.0060	0.0046		X328096	AS	08/07/23 09:05	
EPA 200.7	Copper	0.0428	mg/L	0.0100	0.0027		X328096	AS	08/07/23 09:01	
EPA 200.7	Copper	0.0418	mg/L	0.0100	0.0027		X328096	AS	08/07/23 09:05	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X328096	AS	08/07/23 09:01	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X328096	AS	08/07/23 09:05	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X328096	AS	08/07/23 09:01	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X328096	AS	08/07/23 09:05	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X328096	AS	08/07/23 09:01	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X328096	AS	08/07/23 09:05	
EPA 200.7	Magnesium	63.0	mg/L	0.500	0.090		X328096	AS	08/07/23 09:01	
EPA 200.7	Magnesium	61.6	mg/L	0.500	0.090		X328096	AS	08/07/23 09:05	
EPA 200.7	Manganese	9.93	mg/L	0.0080	0.0034		X328096	AS	08/07/23 09:01	
EPA 200.7	Manganese	9.97	mg/L	0.0080	0.0034		X328096	AS	08/07/23 09:05	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X328096	AS	08/07/23 09:01	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X328096	AS	08/07/23 09:05	
EPA 200.7	Nickel	0.142	mg/L	0.0100	0.0048		X328096	AS	08/07/23 09:01	
EPA 200.7	Nickel	0.144	mg/L	0.0100	0.0048		X328096	AS	08/07/23 09:05	
EPA 200.7	Potassium	3.00	mg/L	0.50	0.18		X328096	AS	08/07/23 09:01	
EPA 200.7	Potassium	2.91	mg/L	0.50	0.18		X328096	AS	08/07/23 09:05	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X328096	AS	08/07/23 09:01	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X328096	AS	08/07/23 09:05	
EPA 200.7	Sodium	30.6	mg/L	0.50	0.12		X328096	AS	08/07/23 09:01	
EPA 200.7	Sodium	29.5	mg/L	0.50	0.12		X328096	AS	08/07/23 09:05	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X328096	AS	08/07/23 09:01	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X328096	AS	08/07/23 09:05	
EPA 200.7	Zinc	2.24	mg/L	0.0100	0.0054		X328096	AS	08/07/23 09:01	
EPA 200.7	Zinc	2.27	mg/L	0.0100	0.0054		X328096	AS	08/07/23 09:05	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X327183	SMU	07/21/23 13:13	
EPA 200.8	Arsenic	0.00152	mg/L	0.00100	0.00021		X327183	SMU	07/21/23 13:13	
EPA 200.8	Selenium	0.00504	mg/L	0.00100	0.00024		X327183	SMU	07/21/23 13:13	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X327183	SMU	07/21/23 13:13	
EPA 200.8	Uranium	0.0441	mg/L	0.000100	0.000052		X327183	SMU	07/21/23 13:13	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X328121	NMS	07/14/23 13:03	
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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 13 of 24



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Work Order: **X3G0100**

Reported: 23-Aug-23 08:29

Client Sample ID: **GVMW-125**

Sampled: 10-Jul-23 14:08

SVL Sample ID: **X3G0100-06 (Ground Water)**

Received: 11-Jul-23

Sampled By: PB

Sample Report Page 3 of 3

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X329037	DD	07/21/23 12:07	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X328142	JRR	07/14/23 14:25	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X328145	JRR	07/14/23 11:28	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X329038	DD	07/24/23 14:16	
SM 2310 B	Acidity to pH 8.3	119	mg/L as CaCO3	10.0			X329170	MWD	07/20/23 16:56	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 13:01	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 13:01	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 13:01	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X328070	MWD	07/12/23 13:01	
SM 2540 C	Total Diss. Solids	1420	mg/L	10			X328064	TJL	07/12/23 14:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X328065	TJL	07/12/23 15:20	
SM 4500 H B	pH @23.6°C	4.5	pH Units				X328070	MWD	07/12/23 13:01	H5

Anions by Ion Chromatography

EPA 300.0	Chloride	39.6	mg/L	10.0	1.10	50	X328052	RS	07/11/23 17:15	D2
EPA 300.0	Fluoride	4.35	mg/L	0.100	0.017		X328052	RS	07/11/23 16:58	
EPA 300.0	Nitrate as N	2.12	mg/L	0.050	0.013		X328052	RS	07/11/23 16:58	
EPA 300.0	Nitrate+Nitrite as N	2.12	mg/L	0.100	0.044		X328052	RS	07/11/23 16:58	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X328052	RS	07/11/23 16:58	
EPA 300.0	Sulfate as SO4	1020	mg/L	15.0	9.00	50	X328052	RS	07/11/23 17:15	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 20.1 meq/L Anion Sum: 22.8 meq/L C/A Balance: -6.27 % Calculated TDS: 1398 TDS/cTDS: 1.02

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kathryn Salter
Project Manager



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Work Order: **X3G0100**

Reported: 23-Aug-23 08:29

Client Sample ID: **RB-0710**

Sampled: 10-Jul-23 12:45

Received: 11-Jul-23

Sampled By: PB

SVL Sample ID: **X3G0100-04 (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	0.146	mg/L	0.100	0.035		X329009	SMU	07/19/23 14:18	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.045		X329009	SMU	07/19/23 14:18	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.09		X329009	SMU	07/19/23 14:18	
SM 2340 B	Hardness (as CaCO ₃)	< 2.31	mg/L	2.31	0.457		N/A		07/19/23 14:18	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X328096	AS	07/26/23 08:23	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X328096	AS	07/26/23 08:23	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X328096	AS	07/26/23 08:23	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X328096	AS	07/26/23 08:23	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X328096	AS	07/26/23 08:23	
EPA 200.7	Calcium	< 0.100	mg/L	0.100	0.069		X328096	AS	07/26/23 08:23	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X328096	AS	07/26/23 08:23	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X328096	AS	07/26/23 08:23	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X328096	AS	07/26/23 08:23	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X328096	AS	07/26/23 08:23	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X328096	JRR	07/26/23 16:27	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X328096	AS	07/26/23 08:23	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X328096	AS	07/26/23 08:23	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X328096	AS	07/26/23 08:23	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X328096	AS	07/26/23 08:23	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X328096	AS	07/26/23 08:23	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X328096	AS	07/26/23 08:23	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X328096	AS	07/26/23 08:23	
EPA 200.7	Sodium	2.01	mg/L	0.50	0.12		X328096	AS	07/26/23 08:23	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X328096	AS	07/26/23 08:23	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X328096	AS	07/26/23 08:23	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X327183	SMU	07/21/23 13:08	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X327183	SMU	07/21/23 13:08	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X327183	SMU	07/21/23 13:08	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X327183	SMU	07/21/23 13:08	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X327183	SMU	07/21/23 13:08	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X328121	NMS	07/14/23 12:54	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @23.0°C	< 0.0050	mg/L	0.0050	0.0048		X329037	DD	07/21/23 12:04	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X328142	JRR	07/14/23 14:20	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X328145	JRR	07/14/23 11:24	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X329038	DD	07/25/23 11:04	M2,R2B,H1
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO ₃	10.0			X329170	MWD	07/20/23 16:56	
SM 2320 B	Total Alkalinity	1.7	mg/L as CaCO ₃	1.0			X328070	MWD	07/12/23 12:40	
SM 2320 B	Bicarbonate	1.7	mg/L as CaCO ₃	1.0			X328070	MWD	07/12/23 12:40	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X328070	MWD	07/12/23 12:40	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO ₃	1.0			X328070	MWD	07/12/23 12:40	
SM 2540 C	Total Diss. Solids	< 10	mg/L	10			X328064	TJL	07/12/23 14:20	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X328065	TJL	07/12/23 15:20	
SM 4500 H B	pH @23.4°C	6.6	pH Units				X328070	MWD	07/12/23 12:40	H5

SVL holds the following certifications:

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

Work order Report Page 8 of 24



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Work Order: **X3G0100**

Reported: 23-Aug-23 08:29

Client Sample ID: **RB-0710**

Sampled: 10-Jul-23 12:45

SVL Sample ID: **X3G0100-04 (Ground Water)**

Received: 11-Jul-23

Sample Report Page 2 of 2

Sampled By: PB

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	< 0.20	mg/L	0.20	0.02		X328052	RS	07/11/23 15:33	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X328052	RS	07/11/23 15:33	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X328052	RS	07/11/23 15:33	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X328052	RS	07/11/23 15:33	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X328052	RS	07/11/23 15:33	
EPA 300.0	Sulfate as SO4	0.96	mg/L	0.30	0.18		X328052	RS	07/11/23 15:33	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.11 meq/L

Anion Sum: 0.06 meq/L

C/A Balance: 30.32 %

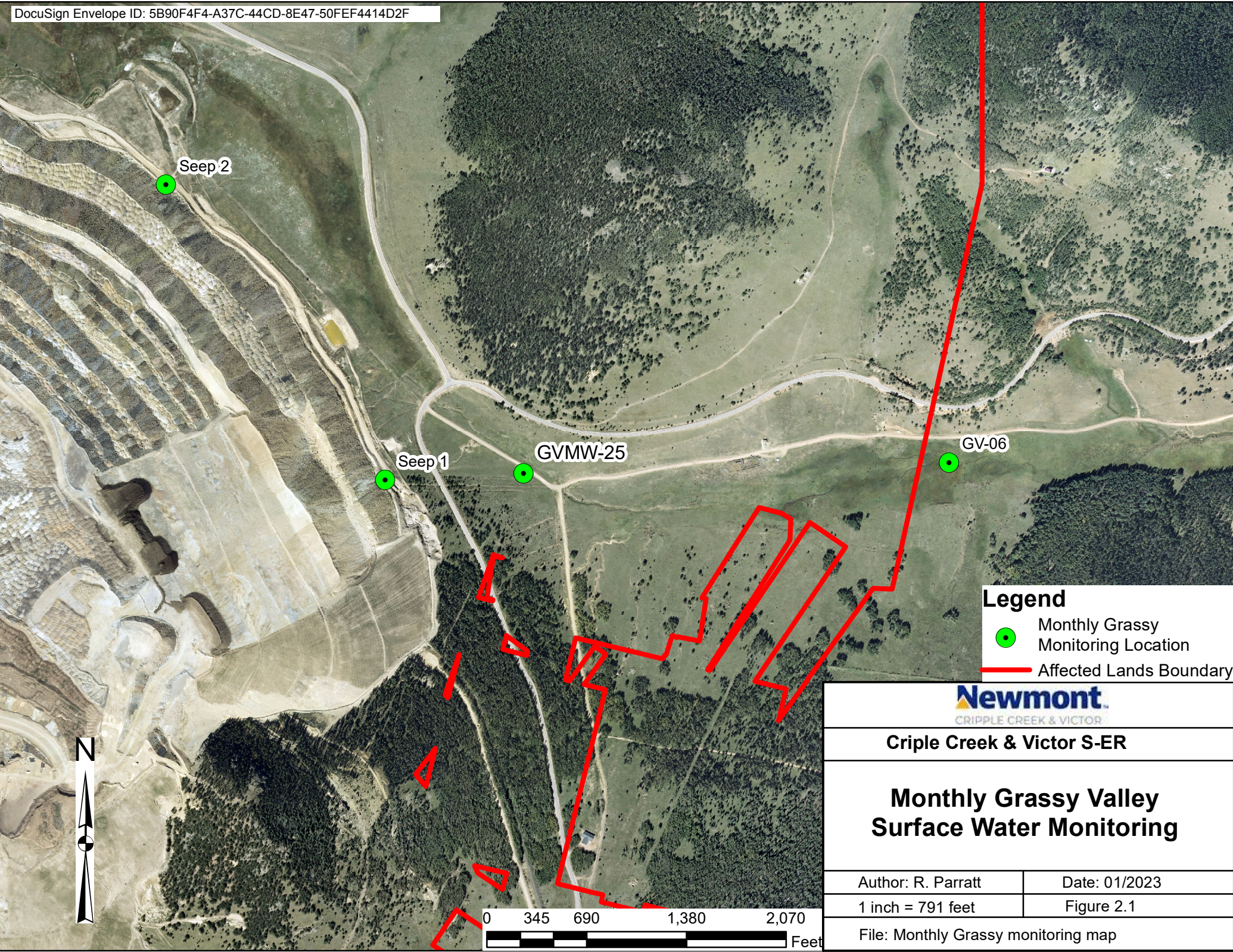
Calculated TDS: 4

TDS/cTDS: 0.00

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Kathryn Salter
Project Manager

Map



Legend

-  Monthly Grassy Monitoring Location
-  Affected Lands Boundary



Cripple Creek & Victor S-ER

**Monthly Grassy Valley
Surface Water Monitoring**

Author: R. Parratt

Date: 01/2023

1 inch = 791 feet

Figure 2.1

File: Monthly Grassy monitoring map