



Monthly Grassy Valley Report - April 2023

Norma Townley <Norma.Townley2@newmont.com> Thu, May 25, 2023 at 1:45 PM
To: Elliott Russell - DNR <elliott.russell@state.co.us>
Cc: Patrick Lennberg - DNR <Patrick.Lennberg@state.co.us>, "Cunningham - DNR, Michael" <Michaela.Cunningham@state.co.us>, Katie Blake <Katie.Blake@newmont.com>, Ronald Parratt <Ronald.Parratt@newmont.com>, Antonio Matarrese <Antonio.Matarrese@newmont.com>, Norma Townley <Norma.Townley2@newmont.com>

Elliott, attached please find our Monthly Grassy Valley Report for April 2023. If you have any questions or concerns please reach out to Antonio.Matarrese@Newmont.com or Katie.Blake@Newmont.com. Thank you.



Norma Townley

Business Assistant | Newmont | T 719-851-4255

Newmont

Cripple Creek & Victor Gold Mine

PO Box 191

100 N.3rd Street

Victor CO 80860

www.newmont.com

Email: Norma.Townley2@Newmont.com

Please consider the environment before printing this e-mail

 **Monthly_Grassy_Valley_Report_-_April_2023.pdf**
6857K



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

May 25, 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

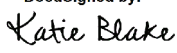
Re: Monthly Grassy Valley April 2023 Report Submission, May 25, 2023

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 April, 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
R. Parratt
A. Matarrese
N. Townley

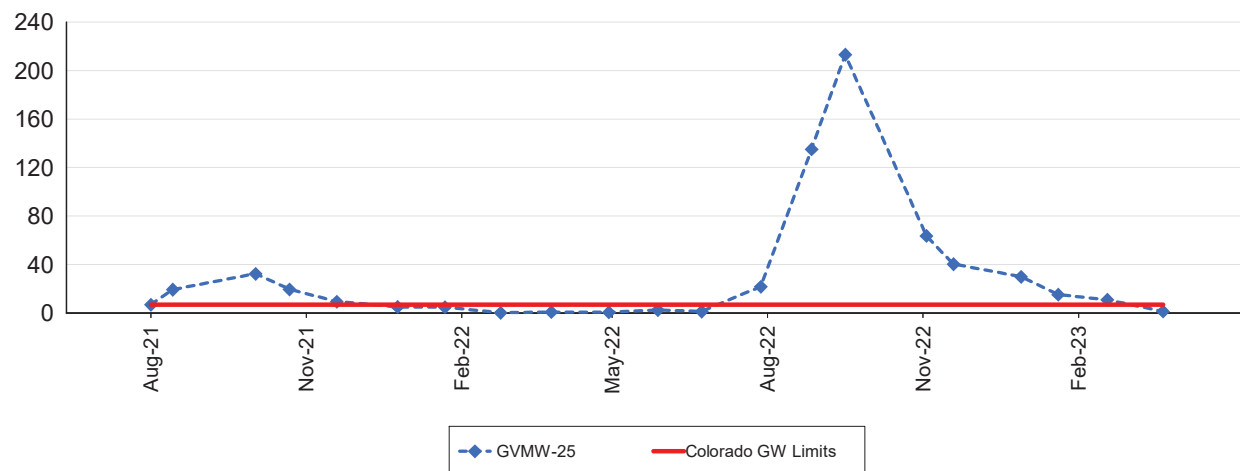
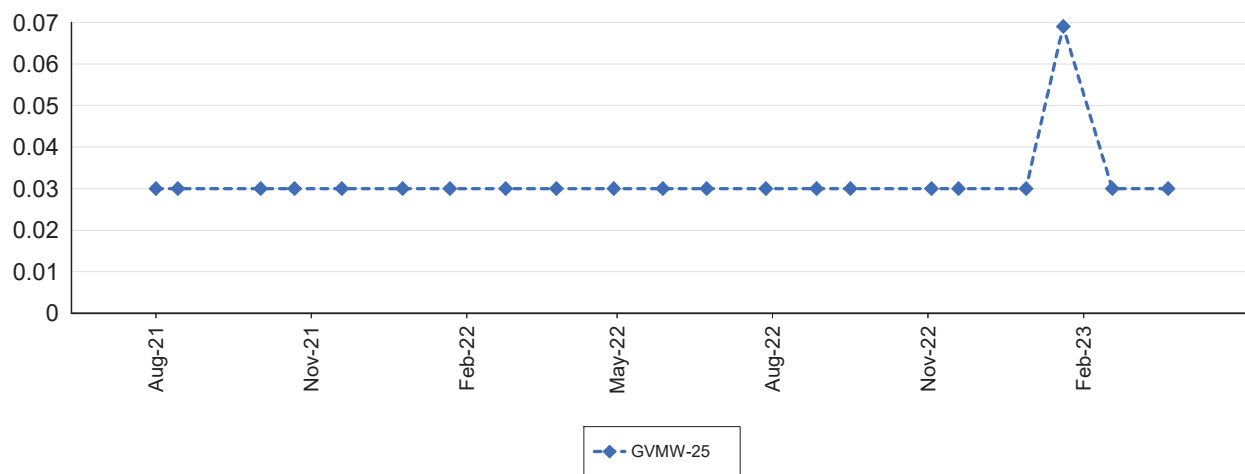
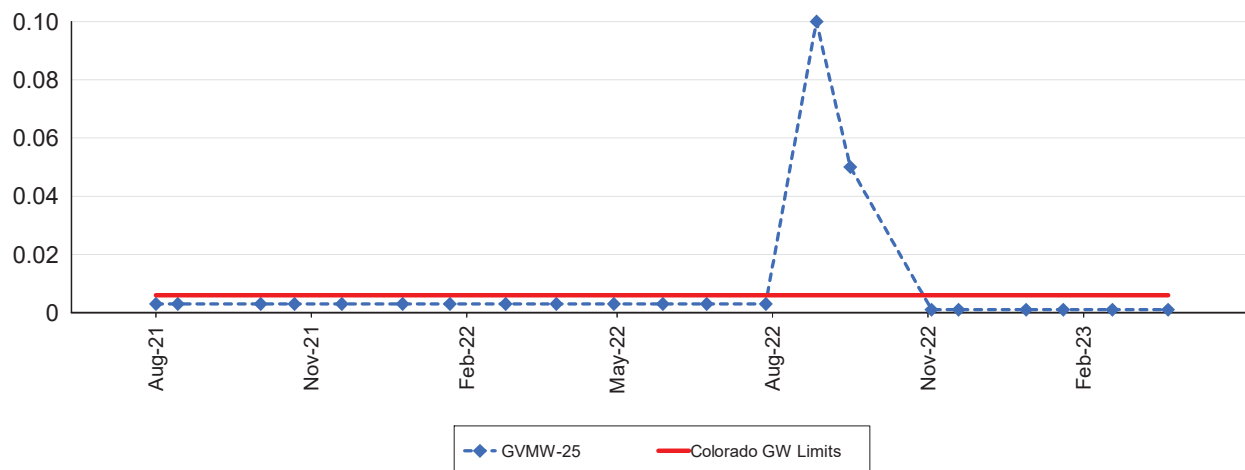
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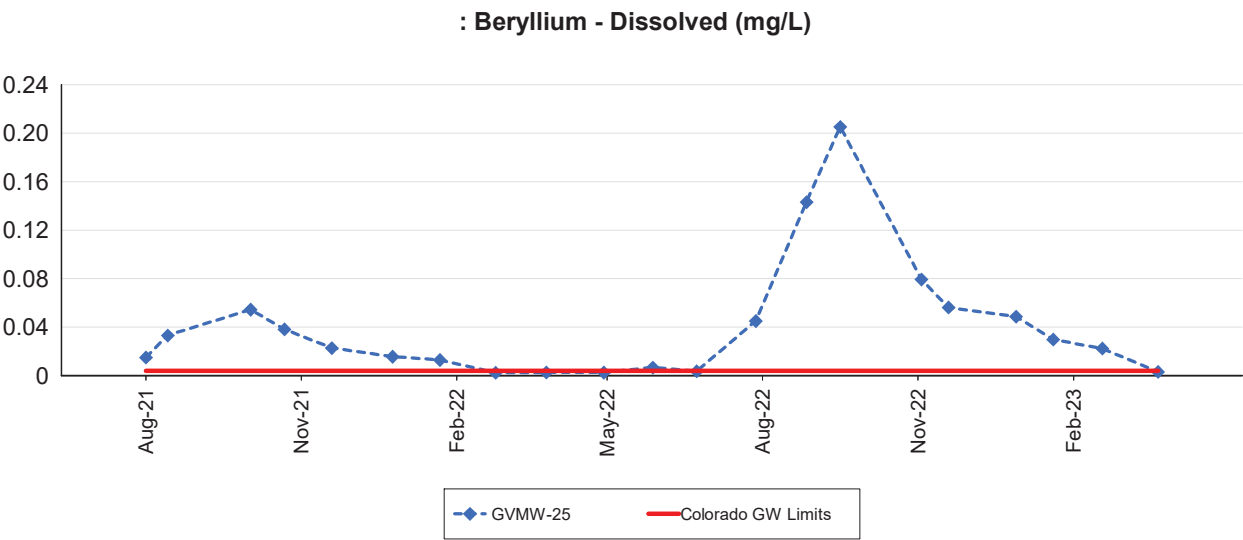
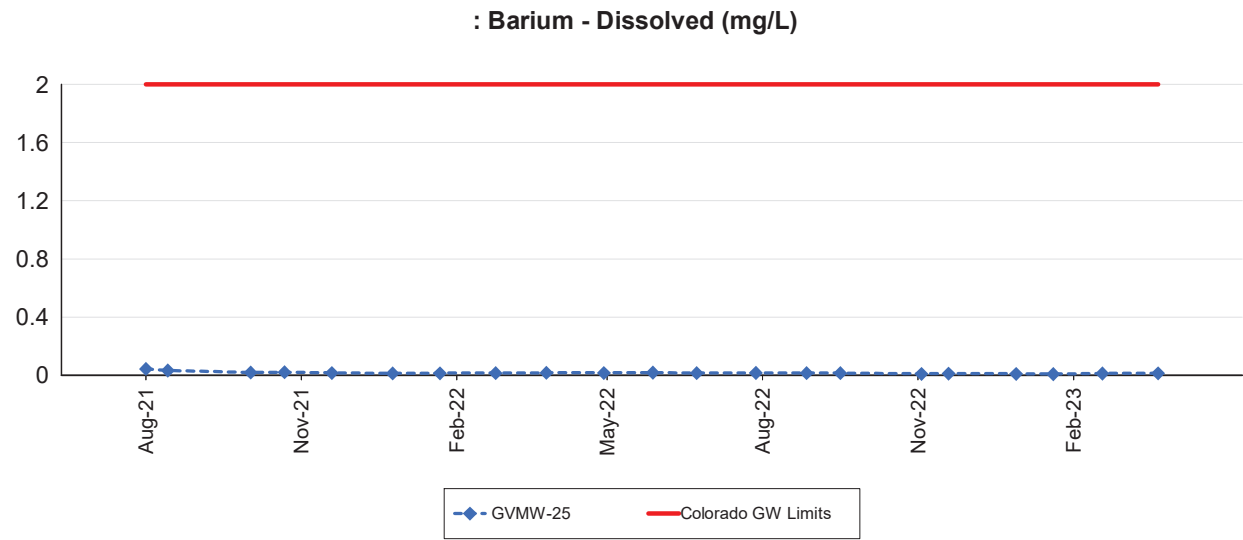
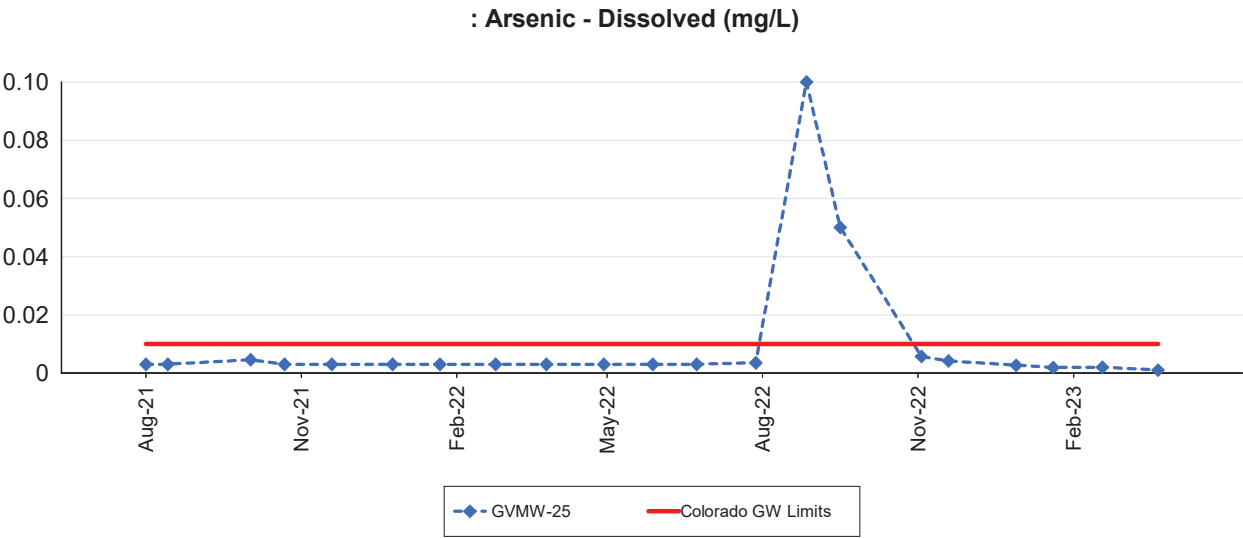


Cripple Creek & Victor
Gold Mining Company
P.O. Box 191
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Victor, Colorado 80860

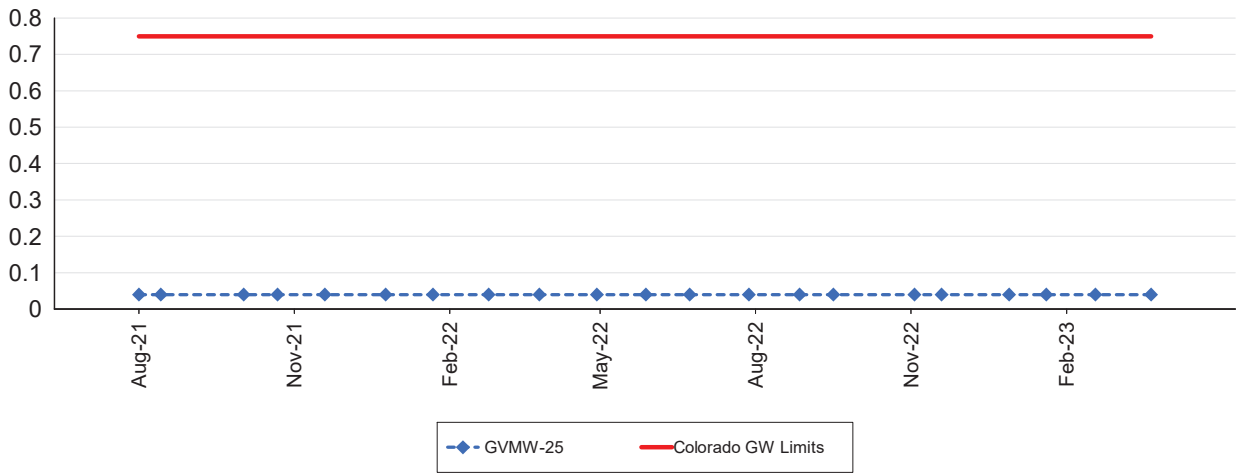
P 719.689.2977
F 719.689.3254
newmont.com

Attachment A

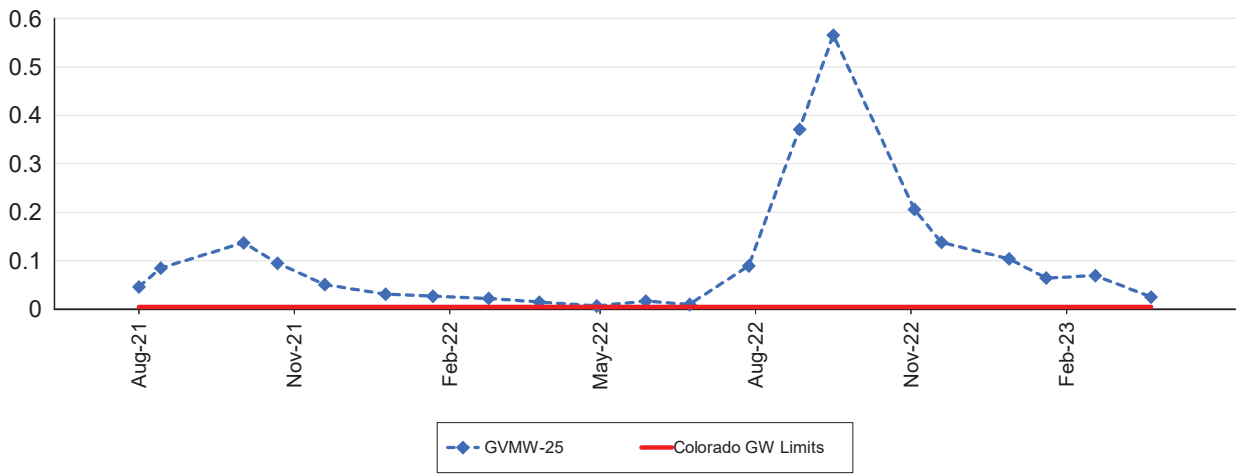
: Aluminium - Dissolved (mg/L)**: Ammonia (mg/L)****: Antimony - Dissolved (mg/L)**



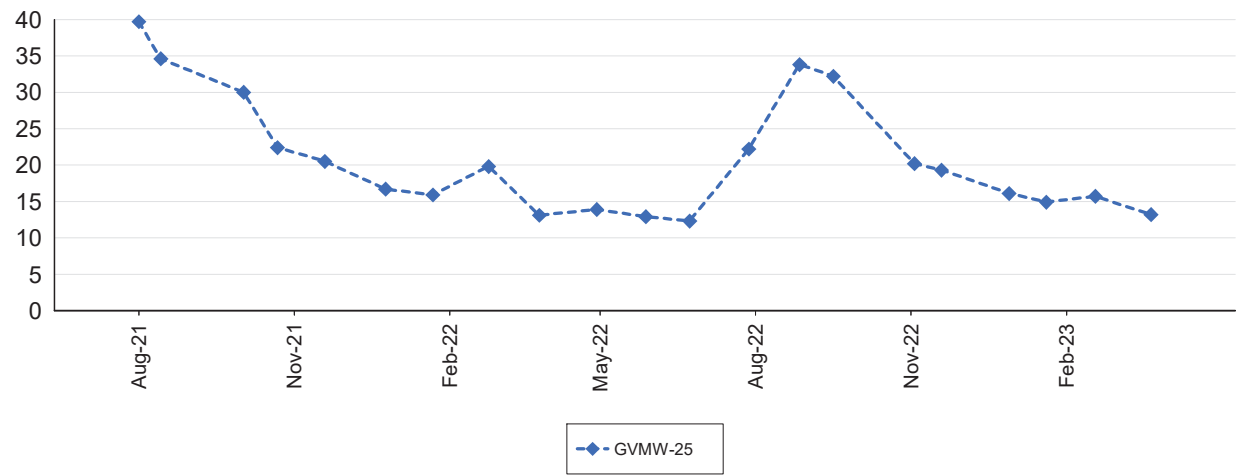
: Boron - Dissolved (mg/L)



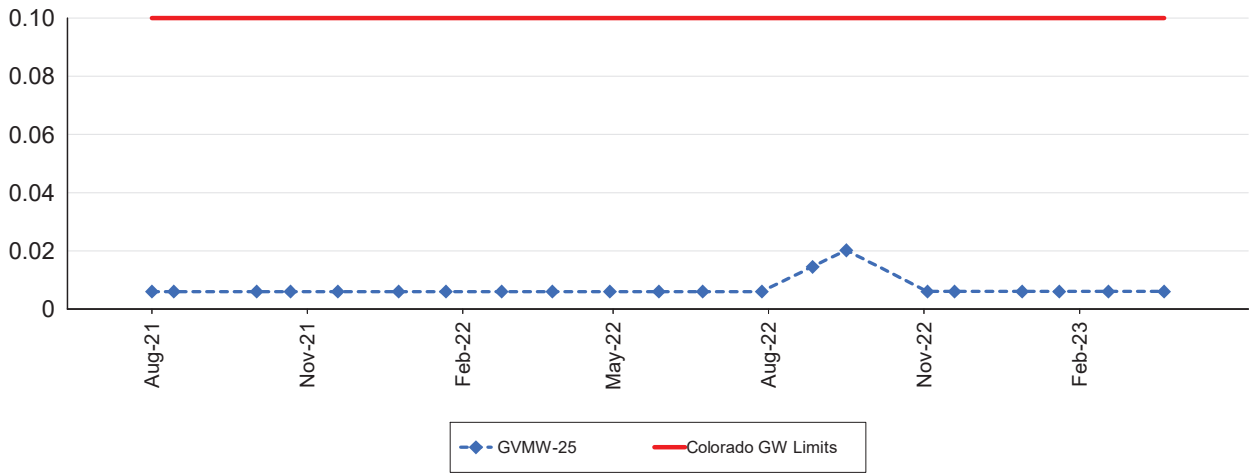
: Cadmium - Dissolved (mg/L)



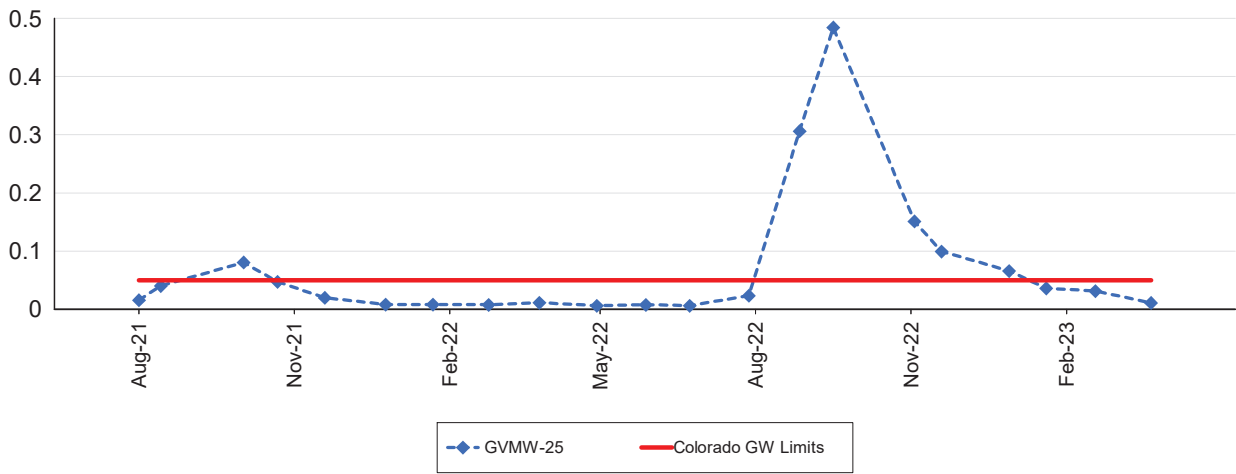
: Chloride - Total (mg/L)



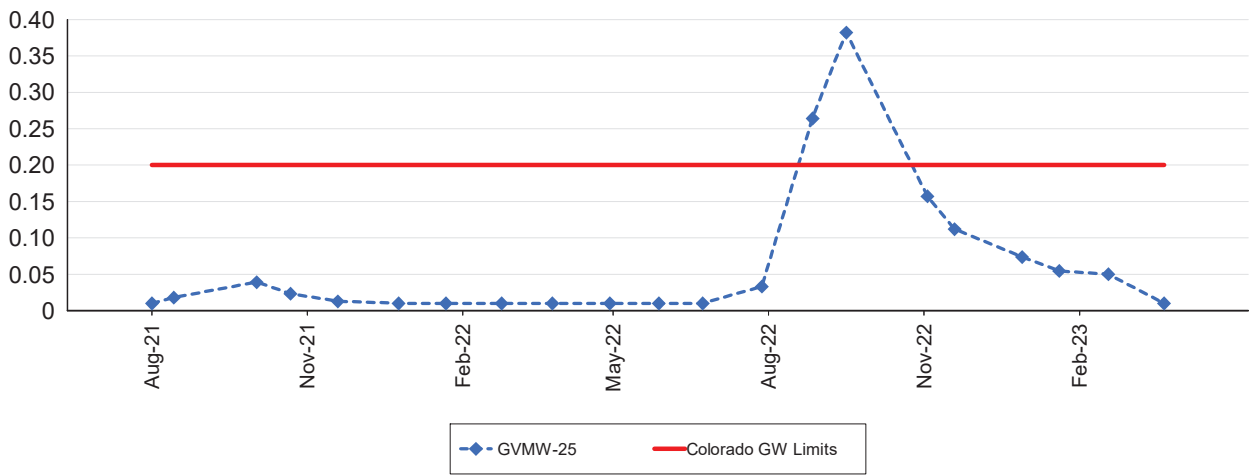
: Chromium - Dissolved (mg/L)

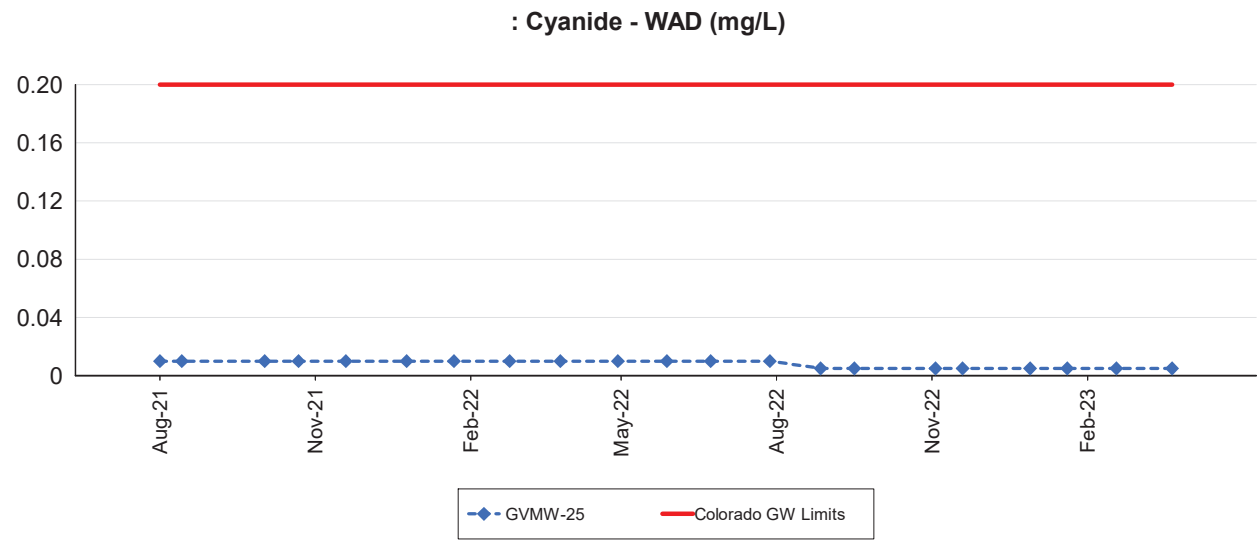
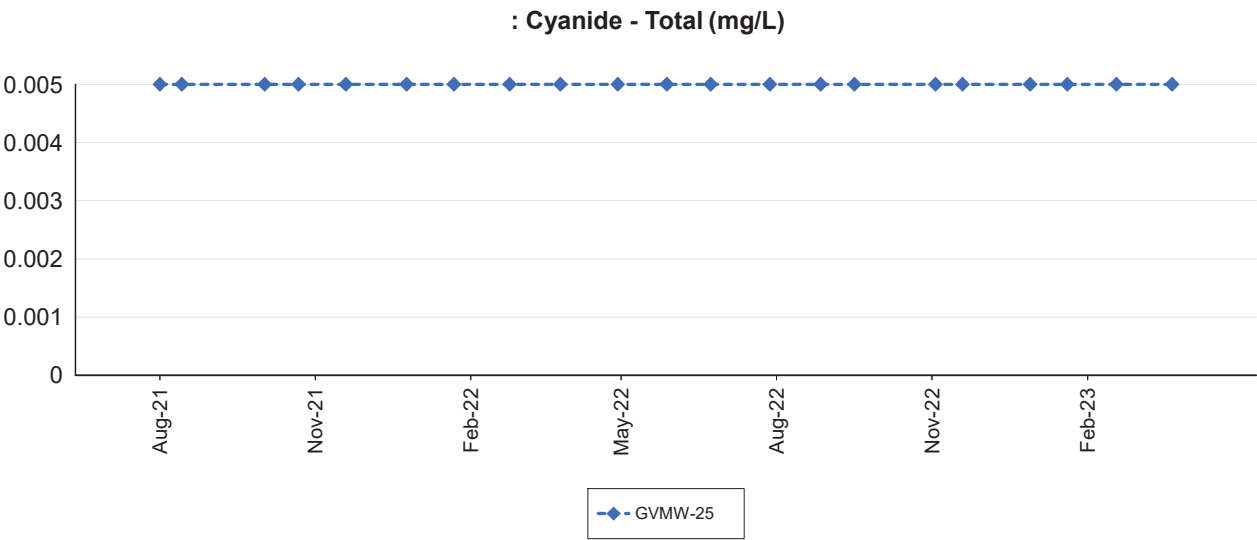
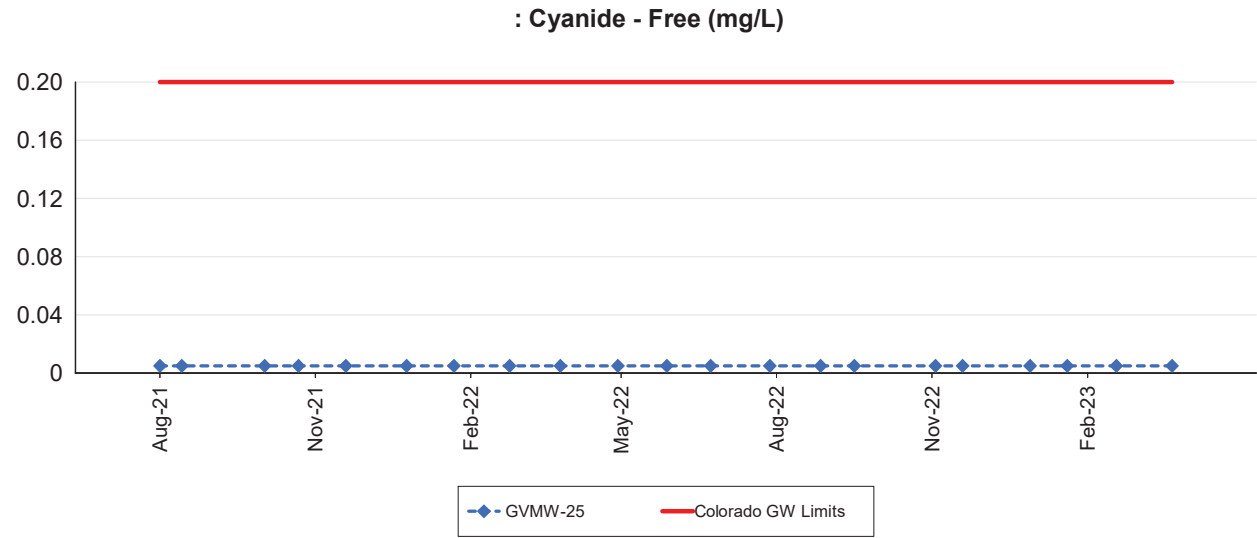


: Cobalt - Dissolved (mg/L)

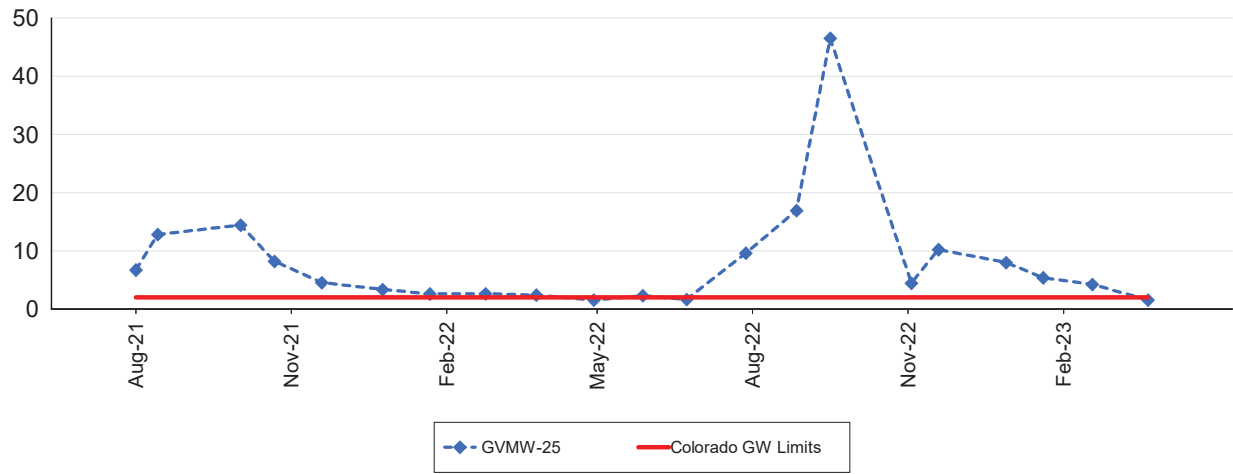


: Copper - Dissolved (mg/L)

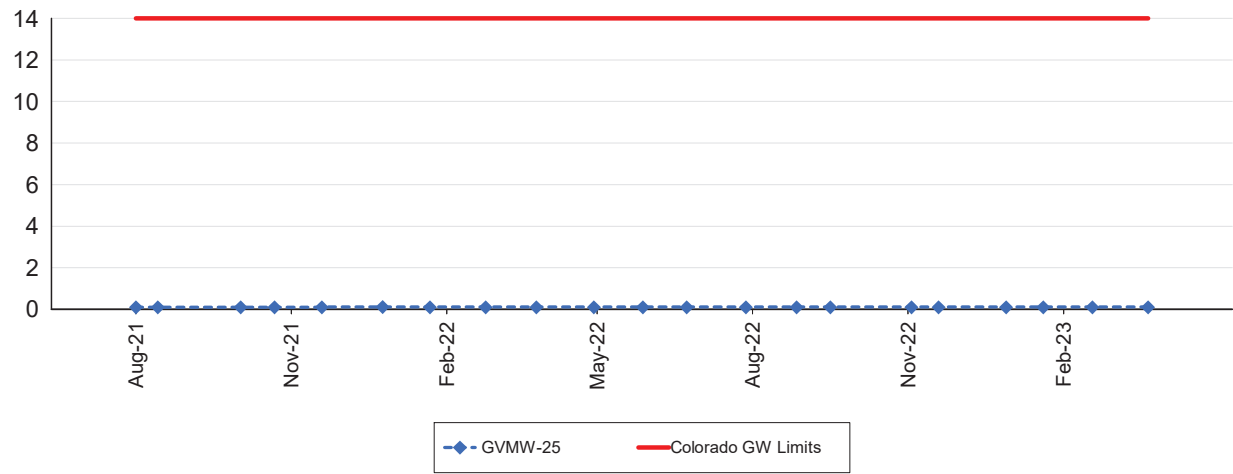




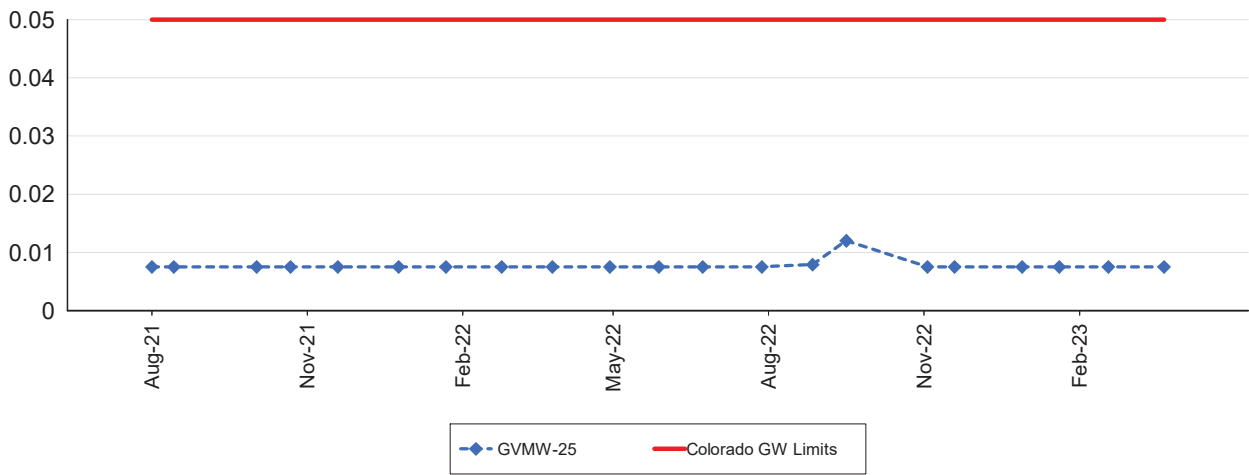
: Fluoride - Total F (mg/L)



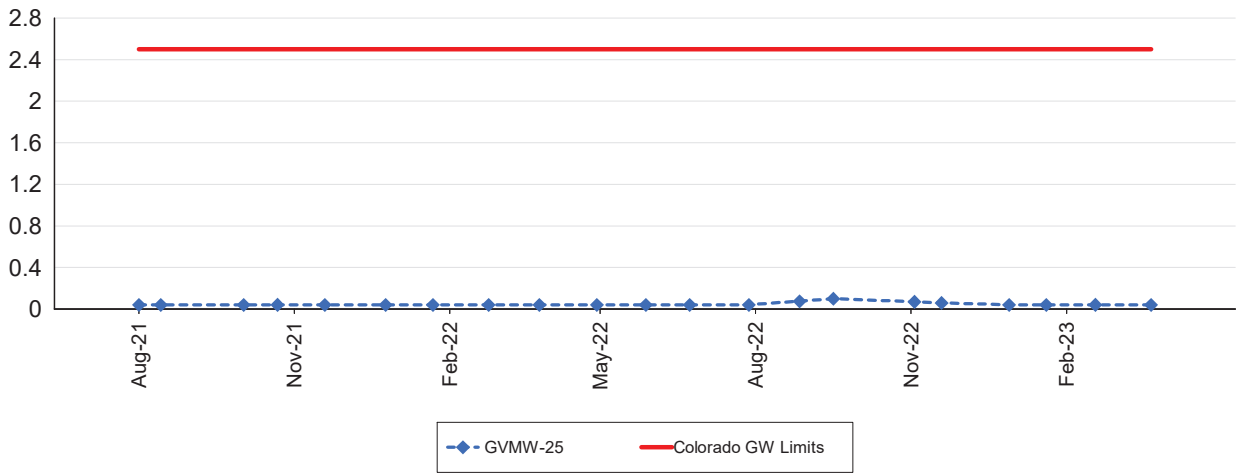
: Iron - Dissolved (mg/L)



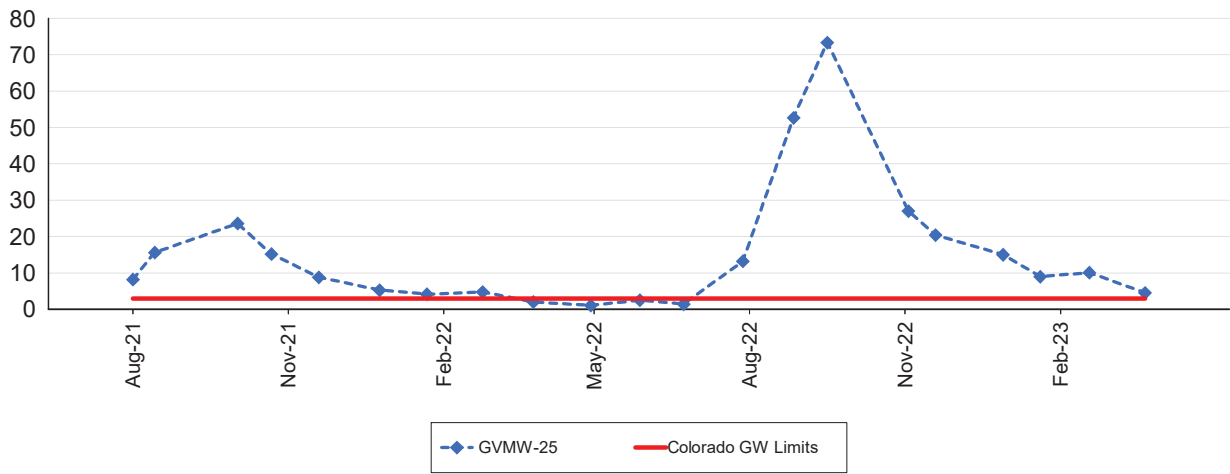
: Lead - Dissolved (mg/L)



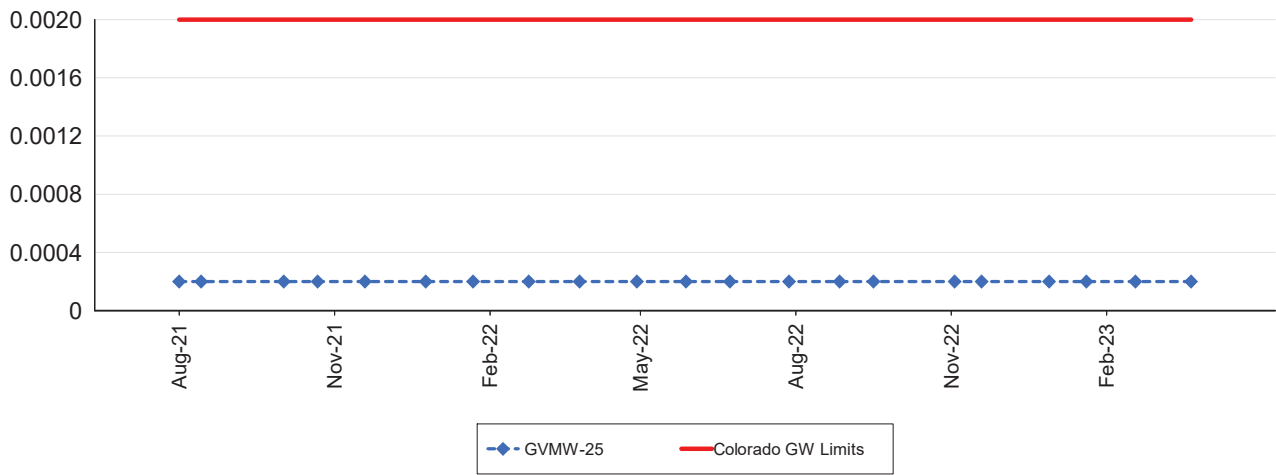
: Lithium - Dissolved (mg/L)

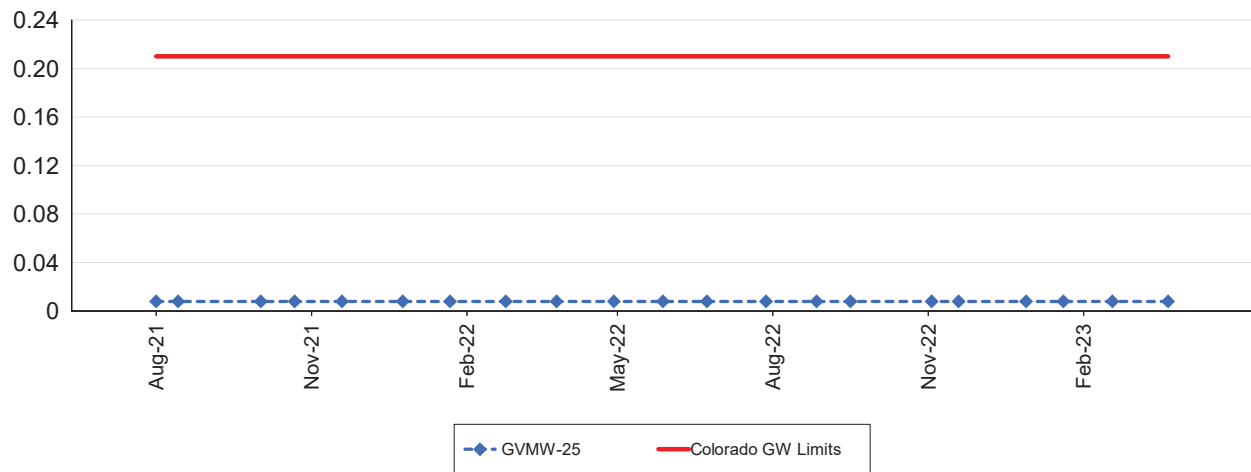
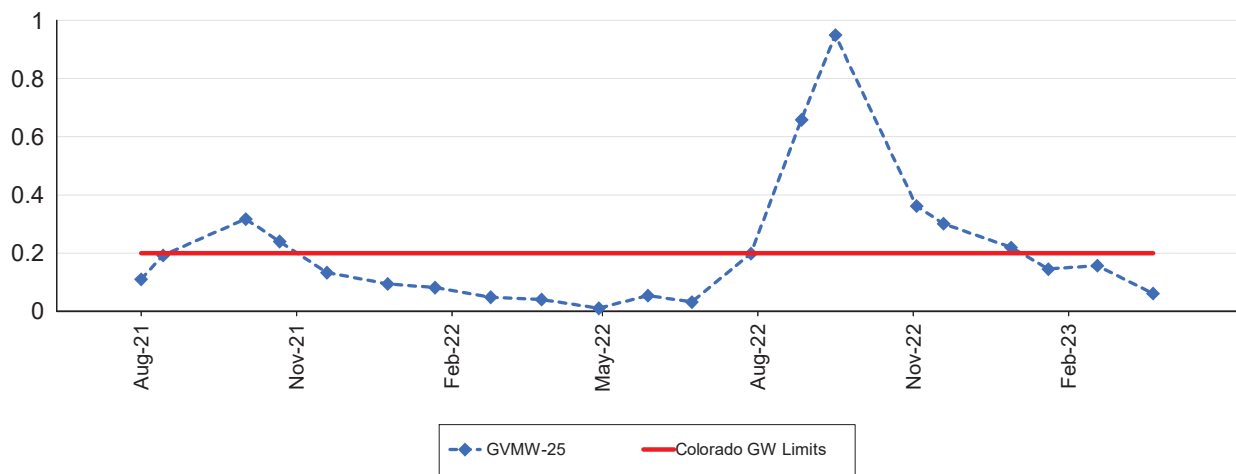
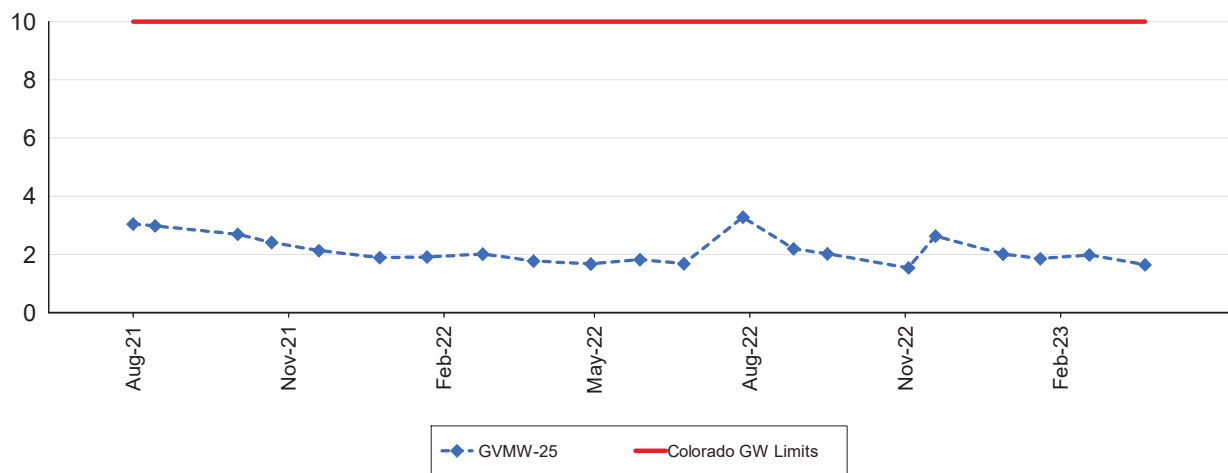


: Manganese - Dissolved (mg/L)

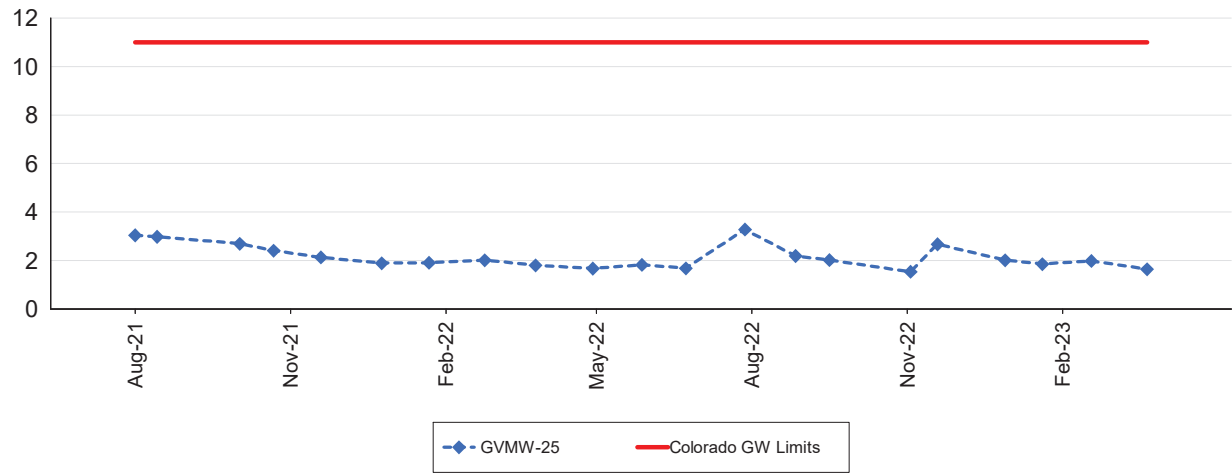


: Mercury - Dissolved (mg/L)

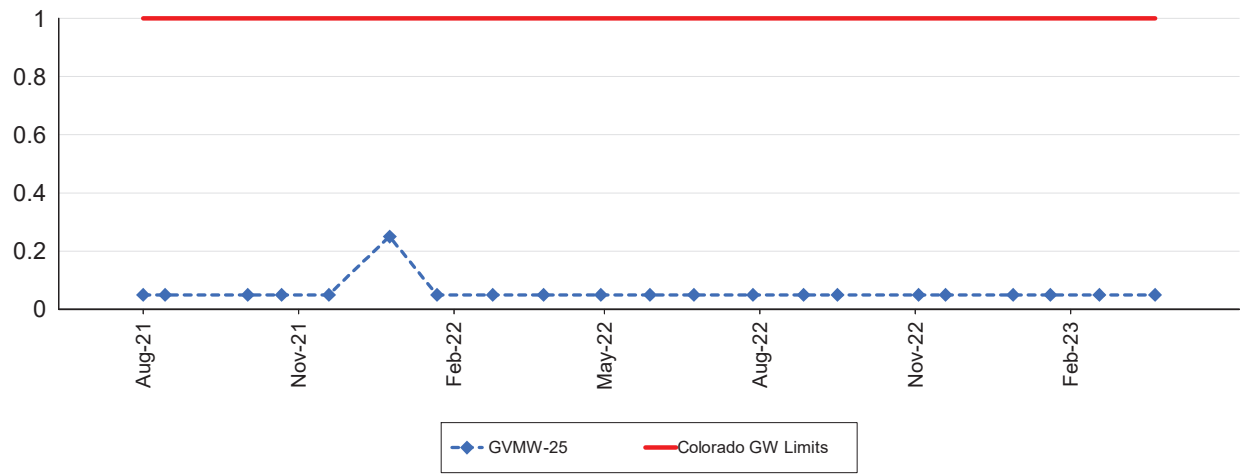


: Molybdenum - Dissolved (mg/L)**: Nickel - Dissolved (mg/L)****: Nitrate as Nitrogen (mg/L)**

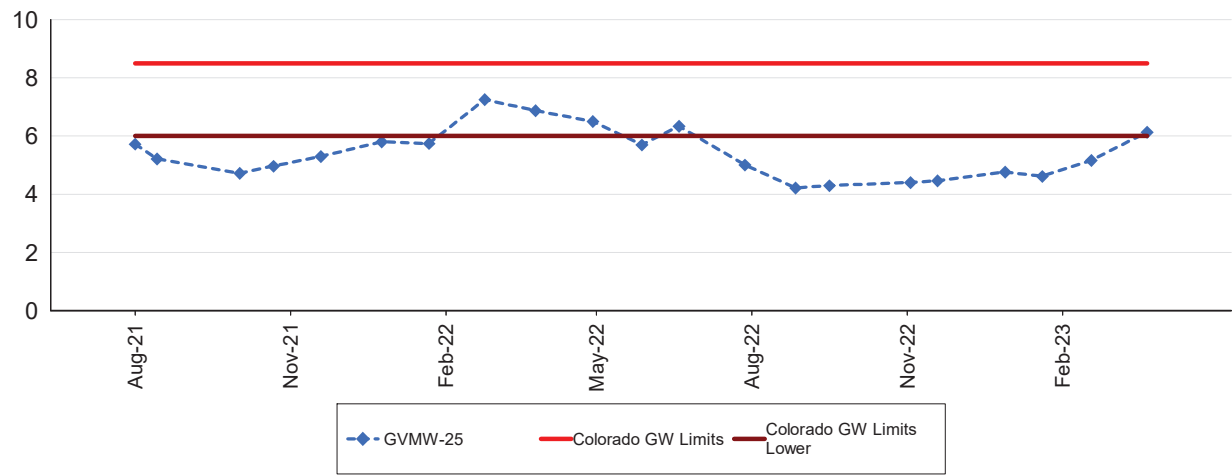
: Nitrite + Nitrate as Nitrogen (mg/L)



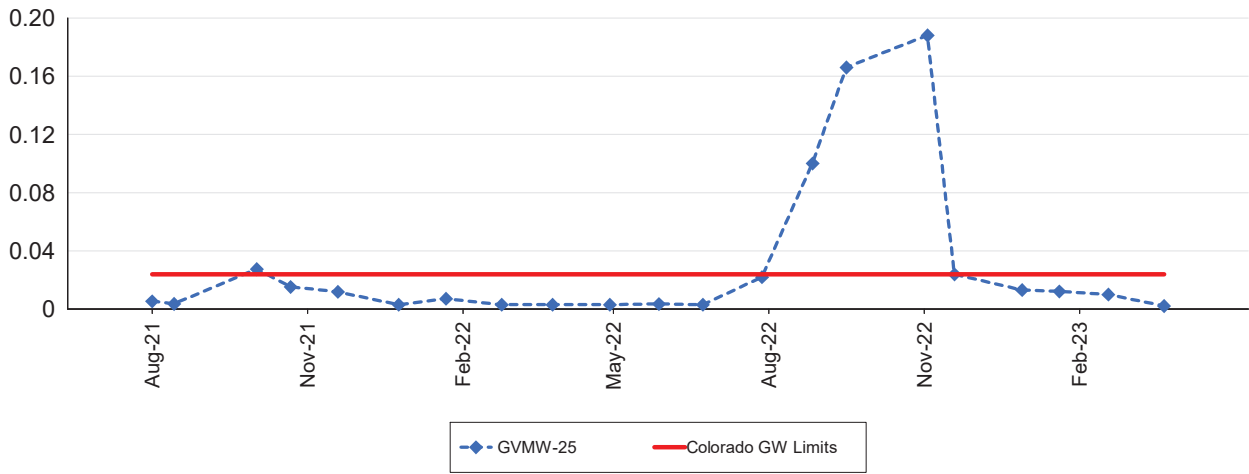
: Nitrite as Nitrogen (mg/L)



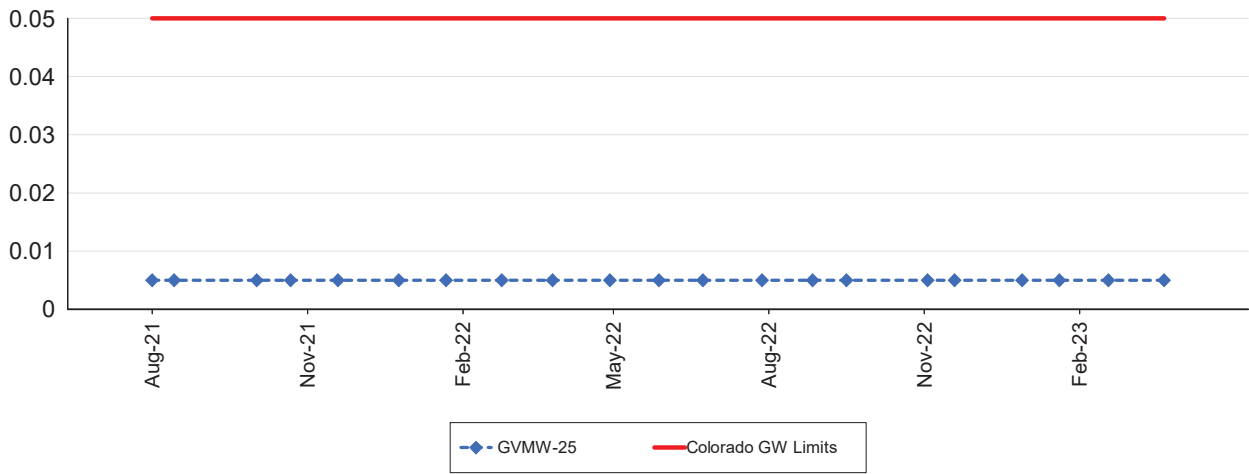
: pH Field (pH unit)



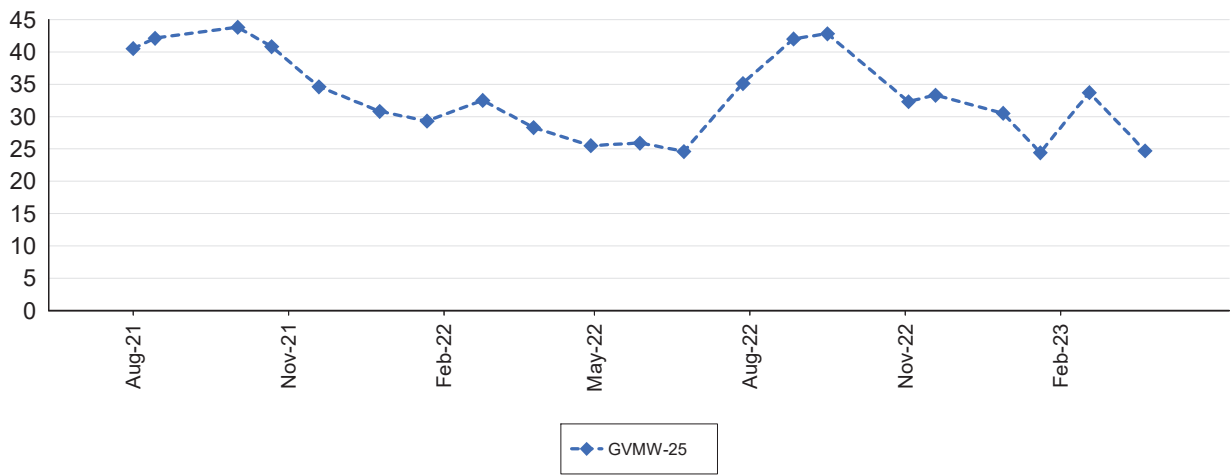
: Selenium - Dissolved (mg/L)



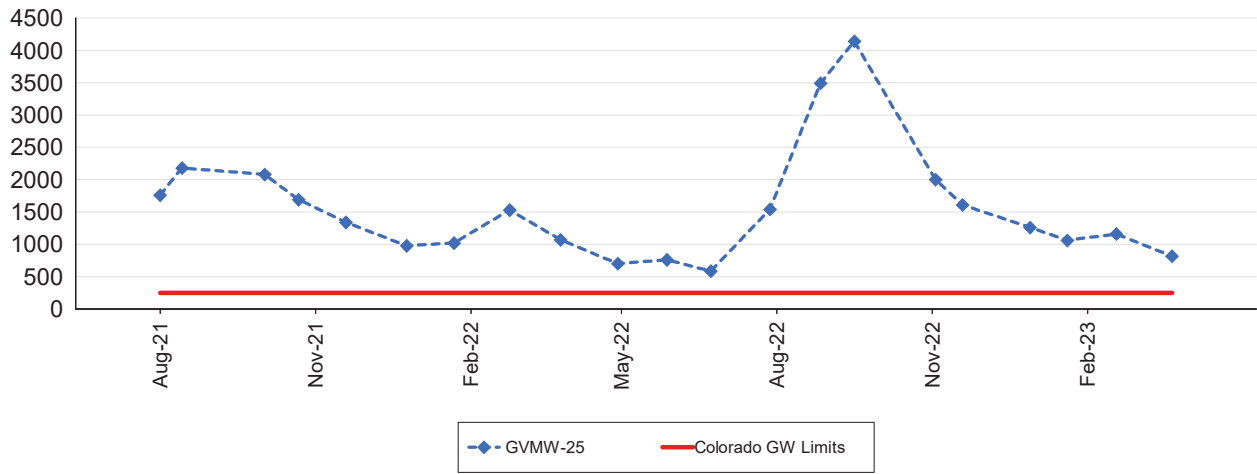
: Silver - Dissolved (mg/L)



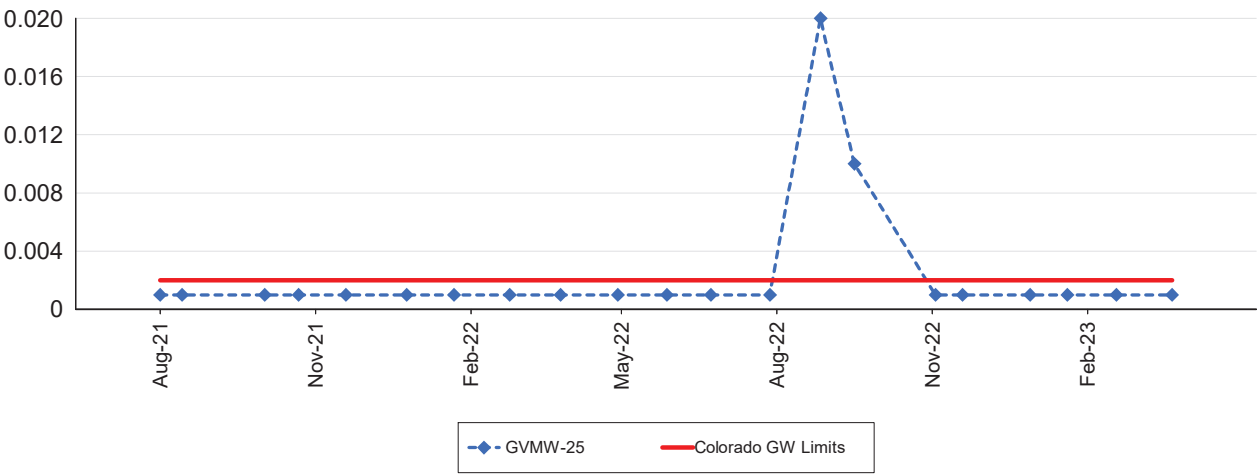
: Sodium - Dissolved (mg/L)



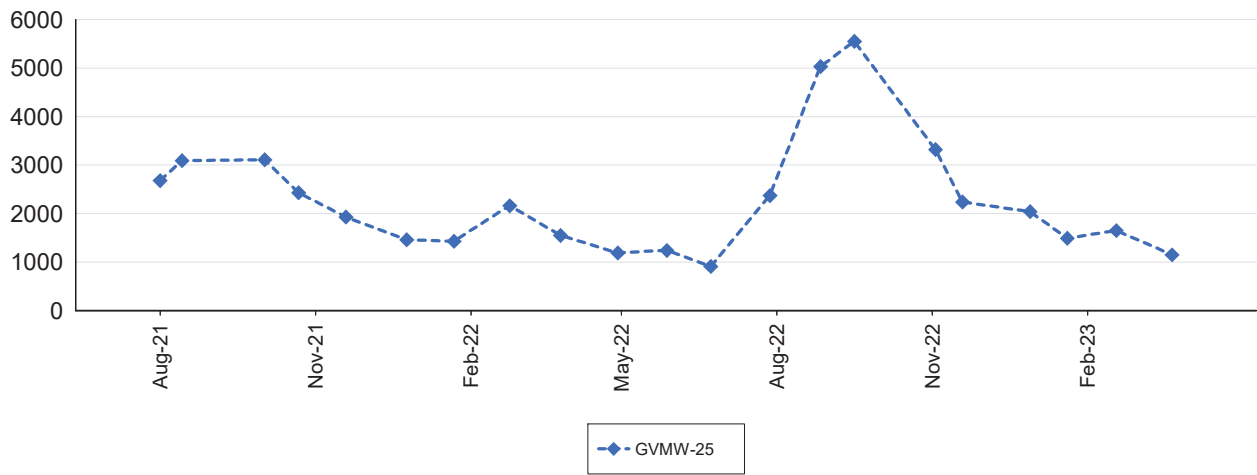
: Sulfate - Total (mg/L)



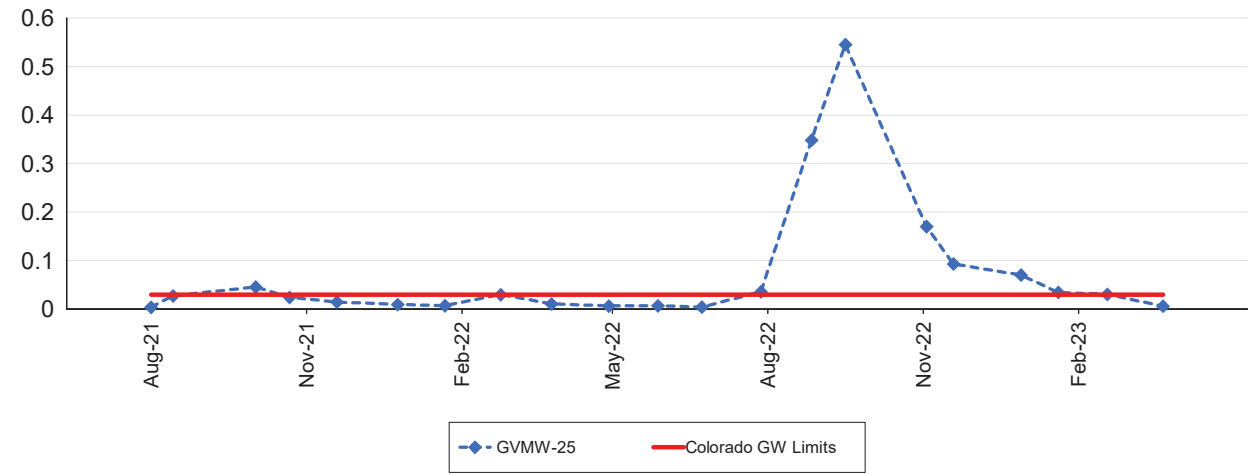
: Thallium - Dissolved (mg/L)



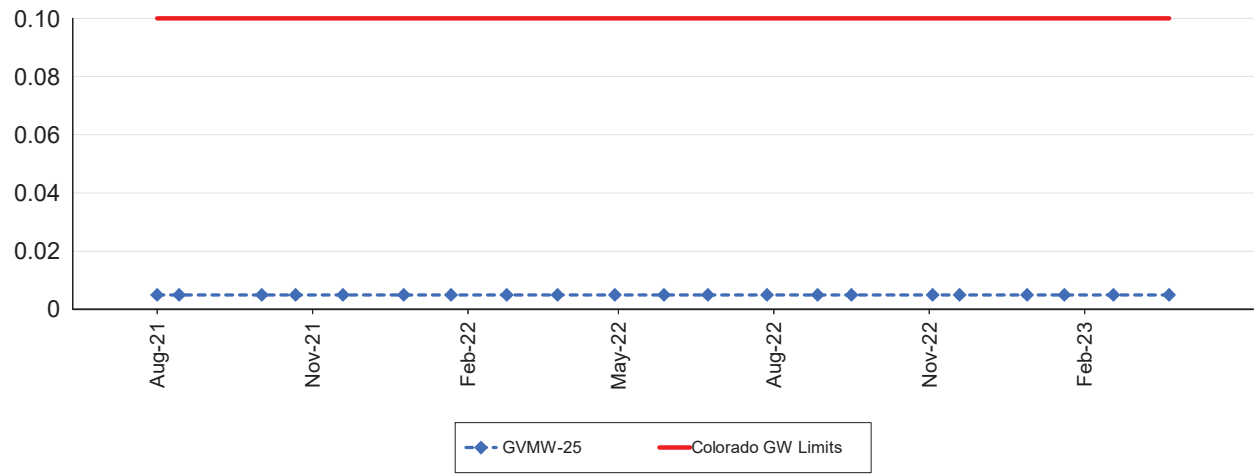
: Total Dissolved Solids (mg/L)



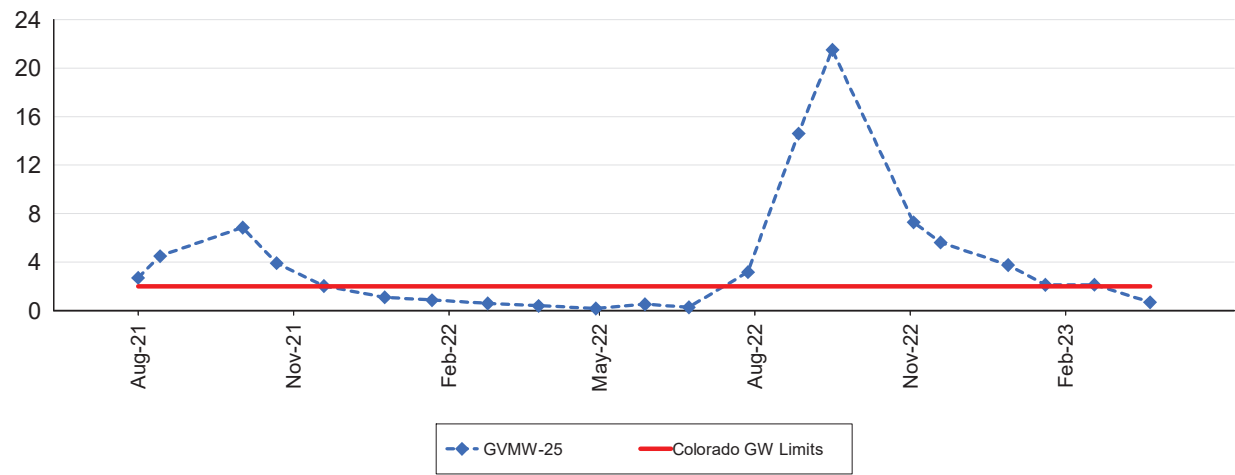
: Uranium - Dissolved (mg/L)



: Vanadium - Dissolved (mg/L)



: Zinc - Dissolved (mg/L)



Analytical Reports

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3D0152**

Reported: 27-Apr-23 15:36

Client Sample ID: **GVMW-25**

Sampled: 10-Apr-23 13:55

Received: 11-Apr-23

Sampled By: PB

SVL Sample ID: **X3D0152-01 (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	196	mg/L	0.100	0.035		X316028	AS	04/20/23 10:07	M3
EPA 200.7	Magnesium	49.6	mg/L	0.500	0.045		X316028	AS	04/20/23 10:07	
EPA 200.7	Potassium	4.95	mg/L	0.50	0.09		X316028	AS	04/20/23 10:07	
SM 2340 B	Hardness (as CaCO3)	742	mg/L	2.31	0.543		N/A		04/20/23 10:07	

Metals (Dissolved)

EPA 200.7	Aluminum	1.35	mg/L	0.080	0.054		X315131	AS	04/27/23 09:04	
EPA 200.7	Barium	0.0144	mg/L	0.0020	0.0019		X315131	AS	04/27/23 09:04	
EPA 200.7	Beryllium	0.00307	mg/L	0.00200	0.00080		X315131	AS	04/27/23 09:04	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X315131	AS	04/27/23 09:04	
EPA 200.7	Cadmium	0.0253	mg/L	0.0020	0.0016		X315131	AS	04/27/23 09:04	
EPA 200.7	Calcium	211	mg/L	0.100	0.069		X315131	AS	04/27/23 09:04	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X315131	AS	04/27/23 09:04	
EPA 200.7	Cobalt	0.0110	mg/L	0.0060	0.0046		X315131	AS	04/27/23 09:04	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X315131	AS	04/27/23 09:04	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X315131	AS	04/27/23 09:04	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X315131	AS	04/27/23 09:04	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X315131	AS	04/27/23 09:04	
EPA 200.7	Magnesium	52.5	mg/L	0.500	0.090		X315131	AS	04/27/23 09:04	
EPA 200.7	Manganese	4.53	mg/L	0.0080	0.0034		X315131	AS	04/27/23 09:04	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X315131	AS	04/27/23 09:04	
EPA 200.7	Nickel	0.0612	mg/L	0.0100	0.0048		X315131	AS	04/27/23 09:04	
EPA 200.7	Potassium	3.35	mg/L	0.50	0.18		X315131	AS	04/27/23 09:04	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X315131	AS	04/27/23 09:04	
EPA 200.7	Sodium	24.7	mg/L	0.50	0.12		X315131	AS	04/27/23 09:04	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X315131	AS	04/27/23 09:04	
EPA 200.7	Zinc	0.686	mg/L	0.0100	0.0054		X315131	AS	04/27/23 09:04	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X315203	SMU	04/25/23 18:54	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X315203	SMU	04/25/23 18:54	
EPA 200.8	Selenium	0.00211	mg/L	0.00100	0.00024		X315203	SMU	04/25/23 18:54	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X315203	SMU	04/25/23 18:54	
EPA 200.8	Uranium	0.00593	mg/L	0.000100	0.000052		X315203	SMU	04/25/23 18:54	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X315191	RCA	04/17/23 14:28	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X315067	HJL	04/12/23 13:48	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X316008	KAG	04/25/23 09:55	H1
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X315177	KAG	04/26/23 10:40	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X315069	HJL	04/12/23 15:22	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X316010	MWD	04/17/23 11:19	
SM 2320 B	Total Alkalinity	25.9	mg/L as CaCO3	1.0			X315107	MWD	04/12/23 16:36	
SM 2320 B	Bicarbonate	25.9	mg/L as CaCO3	1.0			X315107	MWD	04/12/23 16:36	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X315107	MWD	04/12/23 16:36	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X315107	MWD	04/12/23 16:36	
SM 2540 C	Total Diss. Solids	1150	mg/L	10			X315180	TJL	04/13/23 14:55	
SM 2540 D	Total Susp. Solids	297	mg/L	5.0			X315181	TJL	04/13/23 14:55	
SM 4500 H B	pH @19.8°C	6.1	pH Units				X315107	MWD	04/12/23 16:36	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 19



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: **X3D0152**

Reported: 27-Apr-23 15:36

Client Sample ID: **GVMW-25**SVL Sample ID: **X3D0152-01 (Ground Water)**

Sampled: 10-Apr-23 13:55

Received: 11-Apr-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	13.2	mg/L	10.0	1.10	50	X315105	RS	04/11/23 12:26	D2
EPA 300.0	Fluoride	1.54	mg/L	0.100	0.017		X315105	RS	04/11/23 12:08	
EPA 300.0	Nitrate as N	1.64	mg/L	0.050	0.013		X315105	RS	04/11/23 12:08	
EPA 300.0	Nitrate+Nitrite as N	1.64	mg/L	0.100	0.044		X315105	RS	04/11/23 12:08	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X315105	RS	04/11/23 12:08	
EPA 300.0	Sulfate as SO4	817	mg/L	15.0	9.00	50	X315105	RS	04/11/23 12:26	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 15.4 meq/L

Anion Sum: 18.1 meq/L

C/A Balance: -8.16 %

Calculated TDS: 1138

TDS/cTDS: 1.01

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

Katie Yoder

Field Sheets

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley

Date: 4.10.23

Technician: P. Barela

Quarter: 2

Static Water Level (DTW): 69.2

Well ID: GVMW-25

Well Depth: 79

Is well Dry? NO

If so Dry at: — feet

71.4
74
75.9
77.6
78.5

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
9:10	2.2	5.43	1433	6.8	started pumping 9:06
9:17	4.8	5.11	1446	6.6	
9:22	6.7	5.05	1475	6.8	
9:27	8.4	5.16	1501	6.6	pump
9:30					Dry at 78.6
1:55		6.13	1336	13.0	

Sample Method: Surged and returned Rate (gpm): 2.85 ^{1/2} Time Start: 9:10 Time End: 1:55

Final Parameters	Stabilization Guidance	Met?	Comments
pH	6.13	0.1	Y/N
Conductivity	1336	3%	Y/N
Temp@	13.0	10%	Y/N
Final H2O level	4.5	feet	

O/G visible: Y/N

Turbid? Y/N

Equipment Decontaminated: Y/N

Decontamination procedure used:

Triple rinse w/liquinox used new tubing and

Signature: P. Barela

Weather: Sunny, clear, warm

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: GV-06Date: 4-5-23Technician: J. BarelaQuarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
11:31	—	—	—	—

Sample Method: —Oil/Gas visible [Y/N]Turbid [Y/N]Clear [Y/N]Weather: clear, sunny, cold, windySignature: 

Comments:

Frozen. Not safe to walk to
Rechecked on 4/10/23 still Frozen

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: Ecosa seep 1Date: 4-18-23Technician: R. BarelaQuarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
1:32 PM	—	—	—	—

Sample
Method: —Oil/Gas visible [Y/N]Turbid [Y/N]Clear [Y/N]Weather: Cloudy, cold, windySignature: 

Comments:

Frozen. Snow present

4/11/23 rechecked. still Frozen 7:23 am

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Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: PCosa SUEP2Date: 4-5-23Technician: P. BarelaQuarter: 2

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
1:35 pm	—	—	—	—

Sample Method: —Oil/Gas visible [Y/N]Turbid [Y/N]Clear [Y/N]Weather: cold, windy, cloudySignature: 

Comments:

Frozen snow present

4/11/23 rechecked. Still frozen 7:24am

QA/QC

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3D0152**

Reported: 27-Apr-23 15:36

Client Sample ID: **GVMW-125**

Sampled: 10-Apr-23 13:55

Received: 11-Apr-23

Sampled By: PB

SVL Sample ID: **X3D0152-02 (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	198	mg/L	0.100	0.035		X316028	AS	04/20/23 10:17	
EPA 200.7	Magnesium	50.5	mg/L	0.500	0.045		X316028	AS	04/20/23 10:17	
EPA 200.7	Potassium	4.39	mg/L	0.50	0.09		X316028	AS	04/20/23 10:17	
SM 2340 B	Hardness (as CaCO3)	748	mg/L	2.31	0.543		N/A		04/20/23 10:17	

Metals (Dissolved)

EPA 200.7	Aluminum	1.30	mg/L	0.080	0.054		X315131	AS	04/27/23 09:14	
EPA 200.7	Barium	0.0147	mg/L	0.0020	0.0019		X315131	AS	04/27/23 09:14	
EPA 200.7	Beryllium	0.00299	mg/L	0.00200	0.00080		X315131	AS	04/27/23 09:14	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X315131	AS	04/27/23 09:14	
EPA 200.7	Cadmium	0.0254	mg/L	0.0020	0.0016		X315131	AS	04/27/23 09:14	
EPA 200.7	Calcium	213	mg/L	0.100	0.069		X315131	AS	04/27/23 09:14	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X315131	AS	04/27/23 09:14	
EPA 200.7	Cobalt	0.0109	mg/L	0.0060	0.0046		X315131	AS	04/27/23 09:14	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X315131	AS	04/27/23 09:14	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X315131	AS	04/27/23 09:14	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X315131	AS	04/27/23 09:14	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X315131	AS	04/27/23 09:14	
EPA 200.7	Magnesium	52.8	mg/L	0.500	0.090		X315131	AS	04/27/23 09:14	
EPA 200.7	Manganese	4.56	mg/L	0.0080	0.0034		X315131	AS	04/27/23 09:14	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X315131	AS	04/27/23 09:14	
EPA 200.7	Nickel	0.0616	mg/L	0.0100	0.0048		X315131	AS	04/27/23 09:14	
EPA 200.7	Potassium	3.33	mg/L	0.50	0.18		X315131	AS	04/27/23 09:14	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X315131	AS	04/27/23 09:14	
EPA 200.7	Sodium	24.9	mg/L	0.50	0.12		X315131	AS	04/27/23 09:14	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X315131	AS	04/27/23 09:14	
EPA 200.7	Zinc	0.691	mg/L	0.0100	0.0054		X315131	AS	04/27/23 09:14	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X315203	SMU	04/25/23 18:58	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X315203	SMU	04/25/23 18:58	
EPA 200.8	Selenium	0.00182	mg/L	0.00100	0.00024		X315203	SMU	04/25/23 18:58	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X315203	SMU	04/25/23 18:58	
EPA 200.8	Uranium	0.00604	mg/L	0.000100	0.000052		X315203	SMU	04/25/23 18:58	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X315191	RCA	04/18/23 08:26	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X315067	HJL	04/12/23 13:50	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X316008	KAG	04/25/23 10:09	H1
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X315177	KAG	04/26/23 10:51	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X315069	HJL	04/12/23 15:23	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X316010	MWD	04/17/23 11:19	
SM 2320 B	Total Alkalinity	28.2	mg/L as CaCO3	1.0			X315107	MWD	04/12/23 13:25	
SM 2320 B	Bicarbonate	28.2	mg/L as CaCO3	1.0			X315107	MWD	04/12/23 13:25	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X315107	MWD	04/12/23 13:25	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X315107	MWD	04/12/23 13:25	
SM 2540 C	Total Diss. Solids	1170	mg/L	10			X315180	TJL	04/13/23 14:55	
SM 2540 D	Total Susp. Solids	359	mg/L	5.0			X315181	TJL	04/13/23 14:55	
SM 4500 H B	pH @19.8°C	6.0	pH Units				X315107	MWD	04/12/23 13:25	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 19



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Work Order: **X3D0152**

Reported: 27-Apr-23 15:36

Client Sample ID: **GVMW-125**

Sampled: 10-Apr-23 13:55

SVL Sample ID: **X3D0152-02 (Ground Water)**

Received: 11-Apr-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	12.7	mg/L	1.00	0.11	5	X315105	RS	04/12/23 17:47	D2
EPA 300.0	Fluoride	1.46	mg/L	0.100	0.017		X315105	RS	04/11/23 12:44	
EPA 300.0	Nitrate as N	1.65	mg/L	0.050	0.013		X315105	RS	04/11/23 12:44	
EPA 300.0	Nitrate+Nitrite as N	1.65	mg/L	0.100	0.044		X315105	RS	04/11/23 12:44	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X315105	RS	04/11/23 12:44	
EPA 300.0	Sulfate as SO4	858	mg/L	30.0	18.0	100	X315105	RS	04/11/23 13:02	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 15.5 meq/L

Anion Sum: 19.0 meq/L

C/A Balance: -9.95 %

Calculated TDS: 1182

TDS/cTDS: 0.99

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

Katie Yoder



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: **X3D0152**

Reported: 27-Apr-23 15:36

Client Sample ID: **RB1-04-10**

Sampled: 10-Apr-23 08:45

Received: 11-Apr-23

Sampled By: PB

SVL Sample ID: **X3D0152-03 (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	0.110	mg/L	0.100	0.035		X316028	AS	04/20/23 10:20	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.045		X316028	AS	04/20/23 10:20	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.09		X316028	AS	04/20/23 10:20	
SM 2340 B	Hardness (as CaCO ₃)	< 2.31	mg/L	2.31	0.358		N/A		04/27/23 09:18	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X315131	AS	04/27/23 09:18	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X315131	AS	04/27/23 09:18	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X315131	AS	04/27/23 09:18	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X315131	AS	04/27/23 09:18	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X315131	AS	04/27/23 09:18	
EPA 200.7	Calcium	0.193	mg/L	0.100	0.069		X315131	AS	04/27/23 09:18	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X315131	AS	04/27/23 09:18	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X315131	AS	04/27/23 09:18	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X315131	AS	04/27/23 09:18	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X315131	AS	04/27/23 09:18	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X315131	AS	04/27/23 09:18	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X315131	AS	04/27/23 09:18	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X315131	AS	04/27/23 09:18	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X315131	AS	04/27/23 09:18	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X315131	AS	04/27/23 09:18	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X315131	AS	04/27/23 09:18	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X315131	AS	04/27/23 09:18	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X315131	AS	04/27/23 09:18	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X315131	AS	04/27/23 09:18	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X315131	AS	04/27/23 09:18	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X315131	AS	04/27/23 09:18	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X315203	SMU	04/25/23 19:00	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X315203	SMU	04/25/23 19:00	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X315203	SMU	04/25/23 19:00	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X315203	SMU	04/25/23 19:00	
EPA 200.8	Uranium	< 0.000100	mg/L	0.000100	0.000052		X315203	SMU	04/25/23 19:00	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X315191	RCA	04/18/23 08:28	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X315067	HJL	04/12/23 13:51	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X316008	KAG	04/25/23 10:11	H1
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X315177	KAG	04/26/23 10:52	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X315069	HJL	04/12/23 15:25	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO ₃	10.0			X316010	MWD	04/17/23 11:19	
SM 2320 B	Total Alkalinity	1.1	mg/L as CaCO ₃	1.0			X315107	MWD	04/12/23 12:15	
SM 2320 B	Bicarbonate	1.1	mg/L as CaCO ₃	1.0			X315107	MWD	04/12/23 12:15	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO ₃	1.0			X315107	MWD	04/12/23 12:15	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO ₃	1.0			X315107	MWD	04/12/23 12:15	
SM 2540 C	Total Diss. Solids	10	mg/L	10			X315180	TJL	04/13/23 14:55	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X315181	TJL	04/13/23 14:55	
SM 4500 H B	pH @18.8°C	6.4	pH Units				X315107	MWD	04/12/23 12:15	H5

SVL holds the following certifications:

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

Work order Report Page 6 of 19



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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

Post Office Box 191

Victor, CO 80860

Work Order: **X3D0152**

Reported: 27-Apr-23 15:36

Client Sample ID: **RB1-04-10**SVL Sample ID: **X3D0152-03 (Ground Water)**

Sampled: 10-Apr-23 08:45

Received: 11-Apr-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	< 0.20	mg/L	0.20	0.02		X315105	RS	04/11/23 13:20	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X315105	RS	04/11/23 13:20	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X315105	RS	04/11/23 13:20	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X315105	RS	04/11/23 13:20	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X315105	RS	04/11/23 13:20	
EPA 300.0	Sulfate as SO ₄	0.81	mg/L	0.30	0.18		X315105	RS	04/11/23 13:20	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.03 meq/L

Anion Sum: 0.04 meq/L

C/A Balance: -18.89 %

Calculated TDS: 2

TDS/cTDS: 6.17

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

Katie Yoder

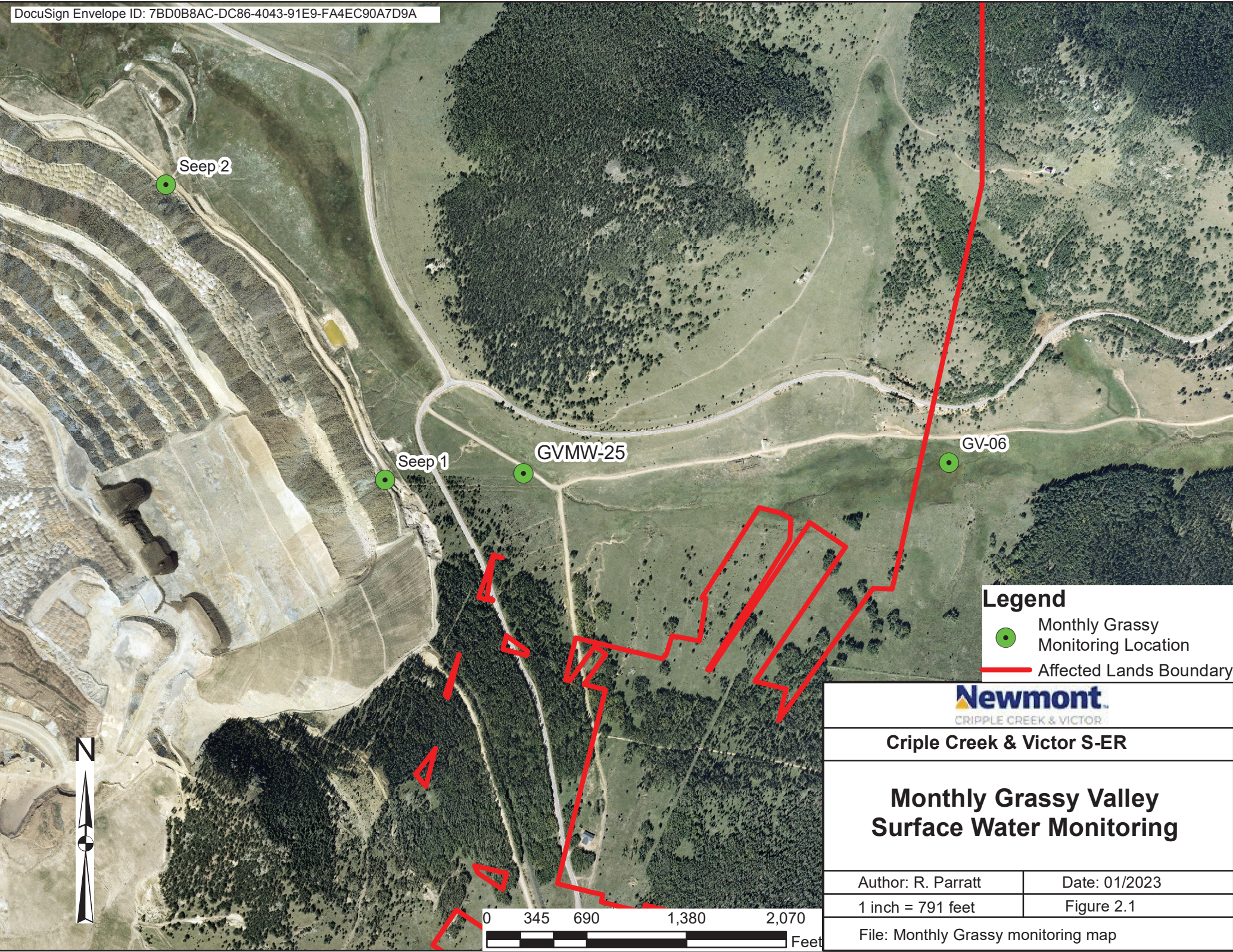
Surface Water Photos







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	