



Cripple Creek & Victor - M-1980-244 Grassy Valley Monthly Monitoring February 2023

1 message

Antonio Matarrese <Antonio.Matarrese@newmont.com>

Thu, Mar 23, 2023 at 7:48 AM

To: "Russell - DNR, Elliott" <elliott.russell@state.co.us>

Cc: Patrick Lennberg - DNR <patrick.lennberg@state.co.us>, Katie Blake <Katie.Blake@newmont.com>, Johnna Gonzalez <Johnna.Gonzalez@newmont.com>, Ronald Parratt <Ronald.Parratt@newmont.com>, Norma Townley <Norma.Townley2@newmont.com>

Good Morning Elliott -

Please see the attached graphs and analytical report for Grassy Valley monitoring for the month of February 2023.

Best Regards,

Tony



Antonio Matarrese

ENVIRONMENTAL COORDINATOR

100 North 3rd Street

Victor, Colorado 80860

☎ (719) 851-4185

📠 (719) 250-3452

[NEWMONT.COM](https://www.newmont.com)



Monthly_Grassy_Report_-_February_2023.pdf

7943K



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

March 23, 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 February 2023 Report Submission, March 23, 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 February, 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:

Katie Blake

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

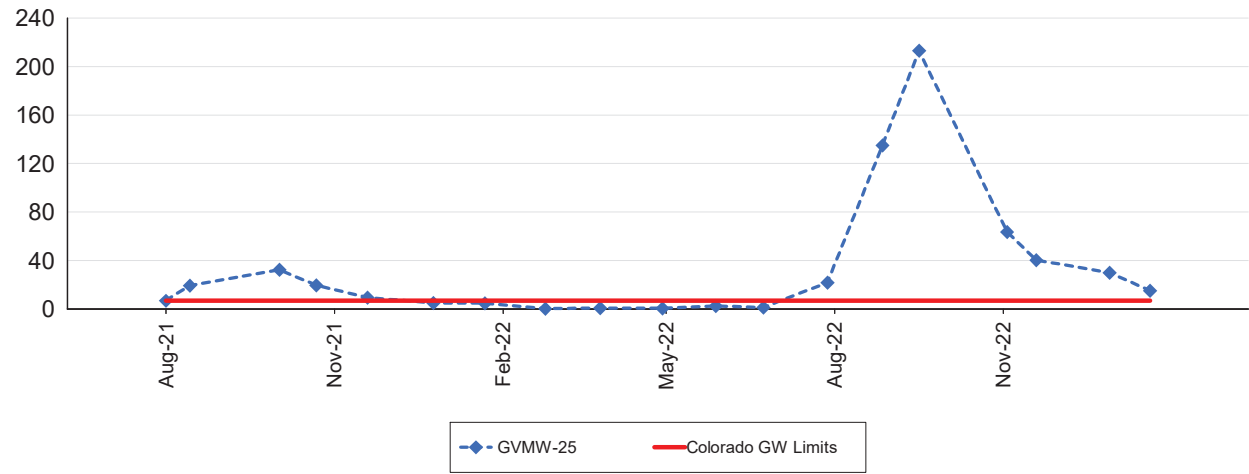


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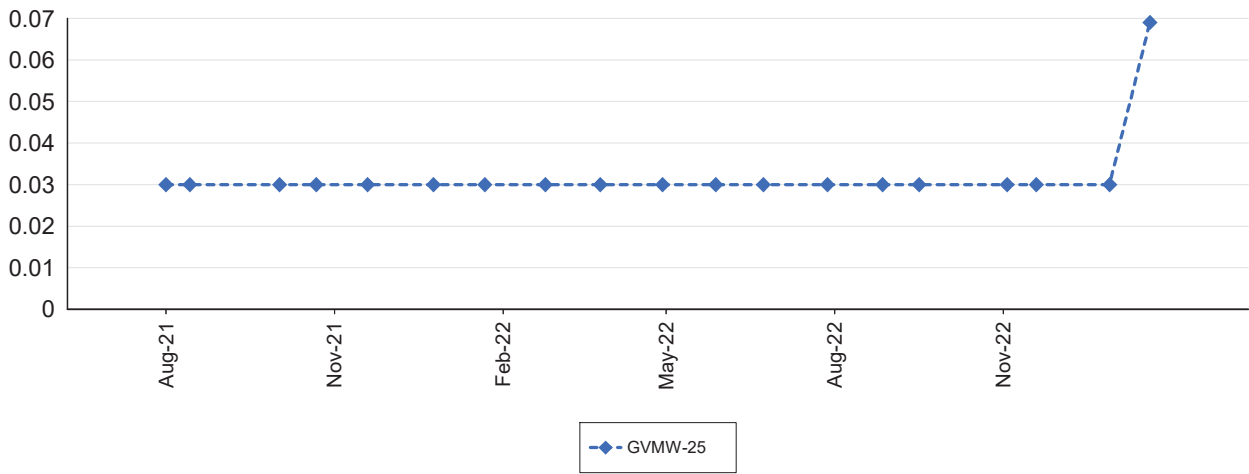
P 719.689.2977
F 719.689.3254
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Attachment A

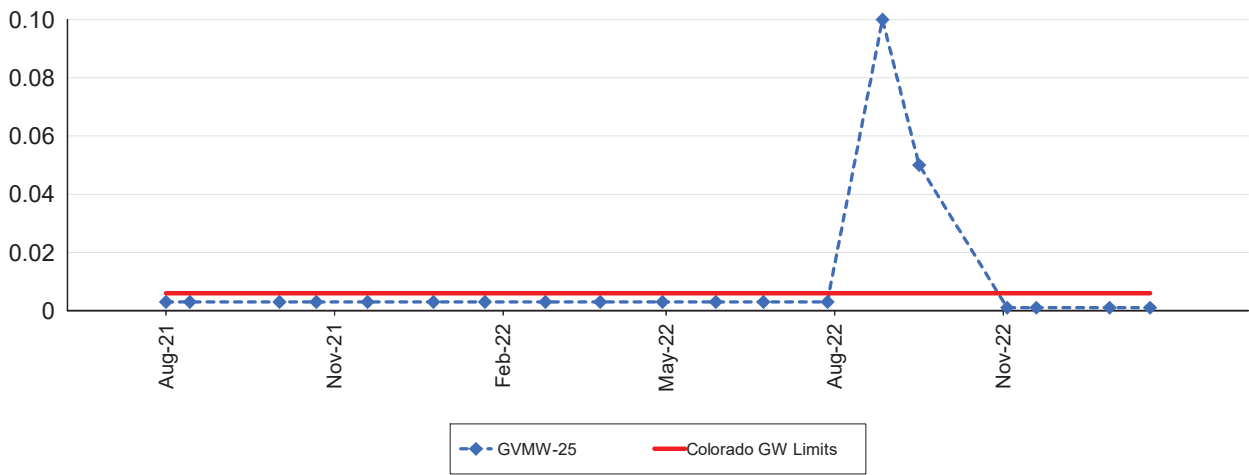
: Aluminium - Dissolved (mg/L)



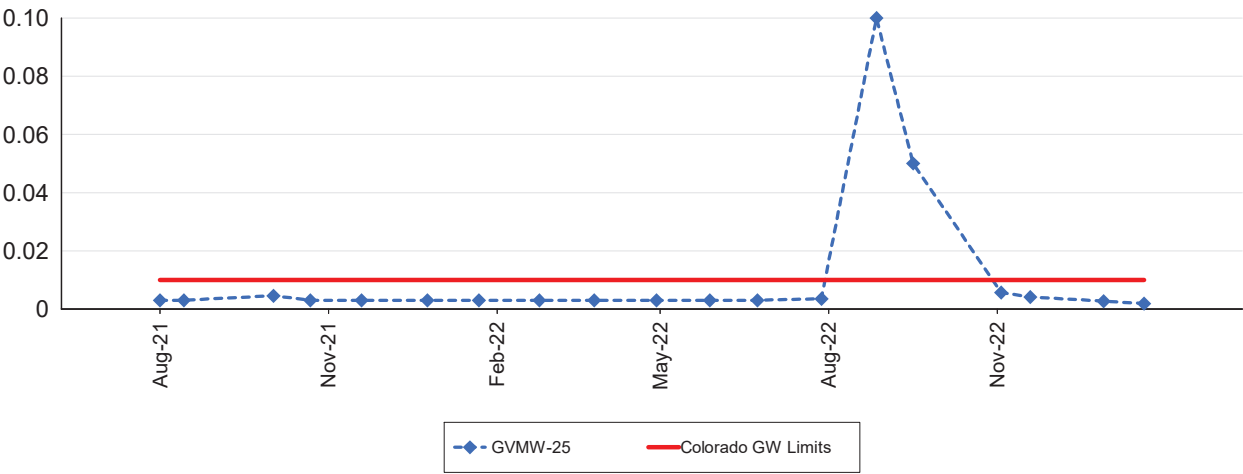
: Ammonia (mg/L)



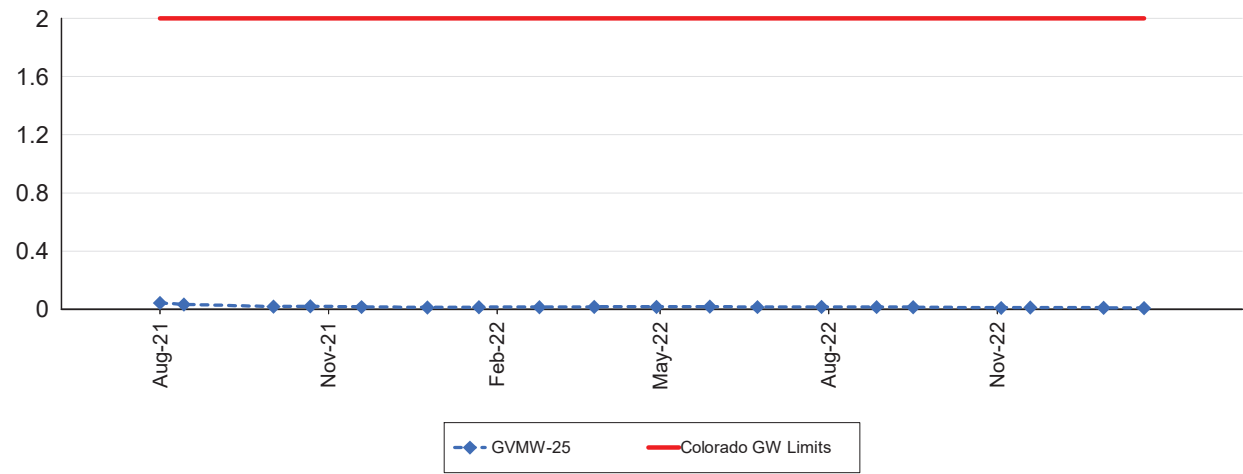
: Antimony - Dissolved (mg/L)



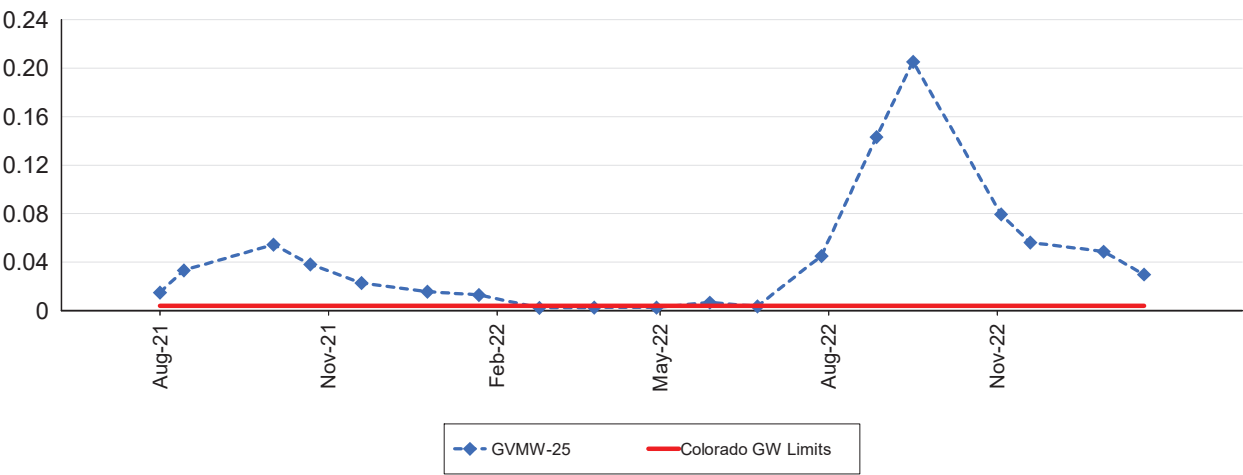
: Arsenic - Dissolved (mg/L)



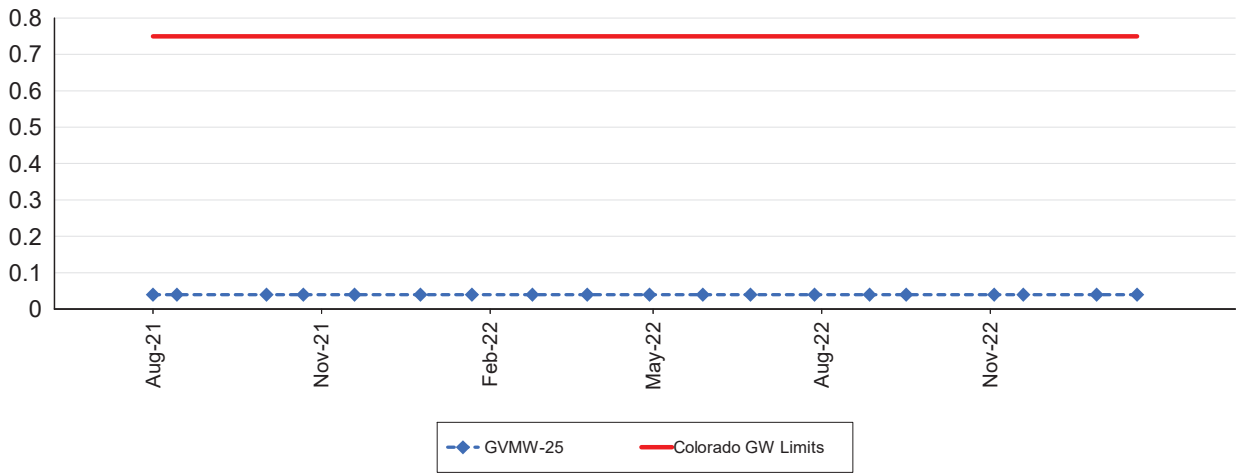
: Barium - Dissolved (mg/L)



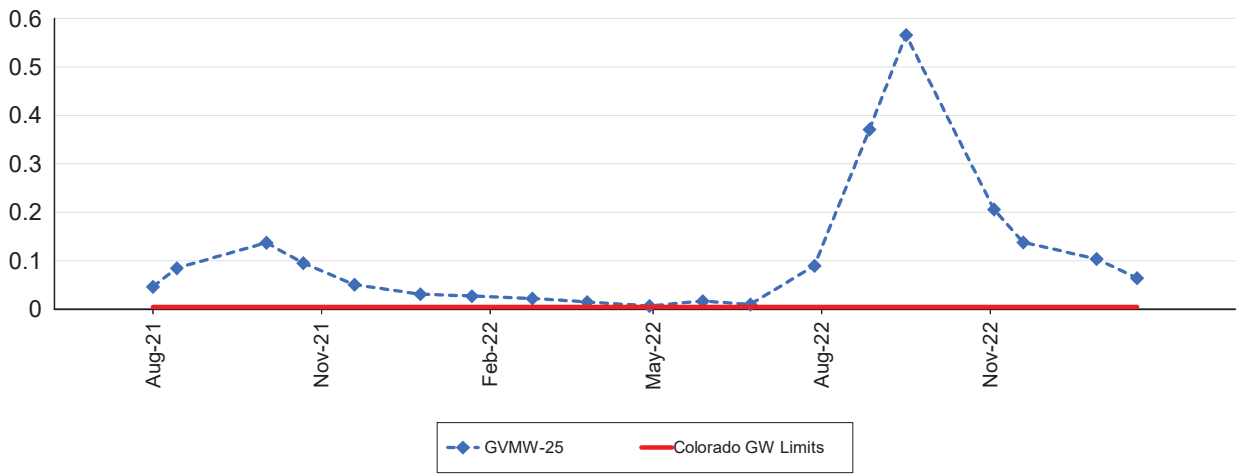
: Beryllium - Dissolved (mg/L)



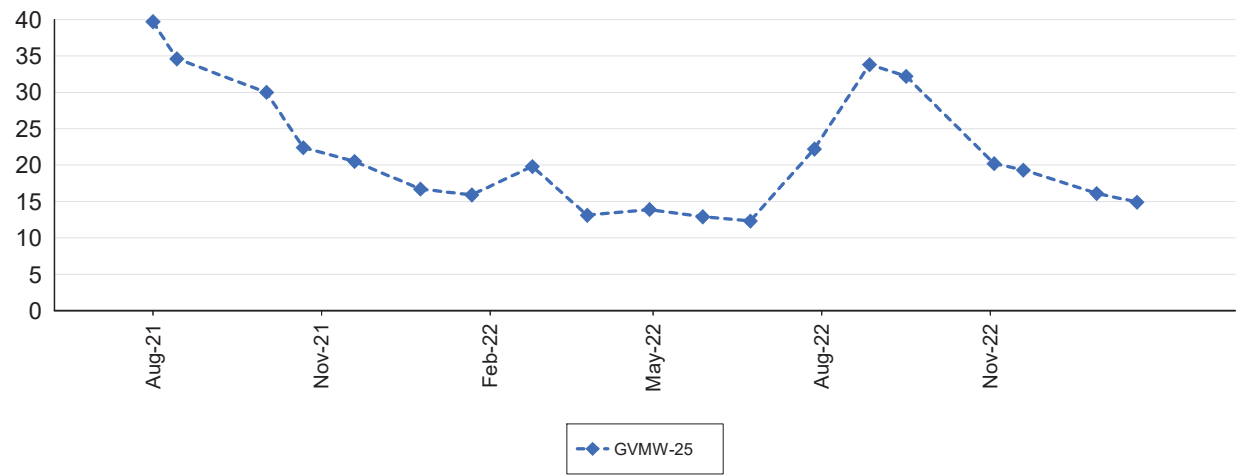
: Boron - Dissolved (mg/L)



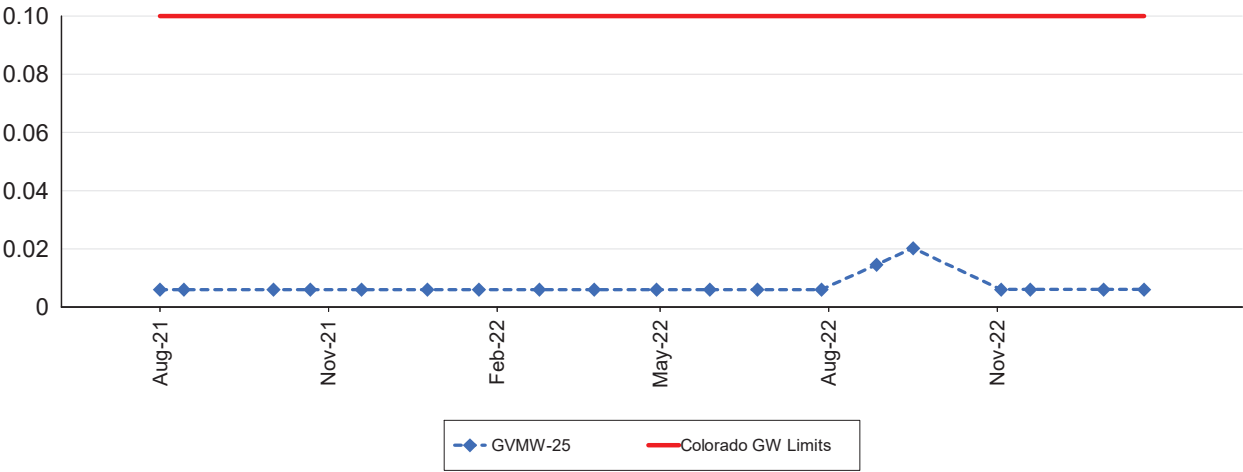
: Cadmium - Dissolved (mg/L)



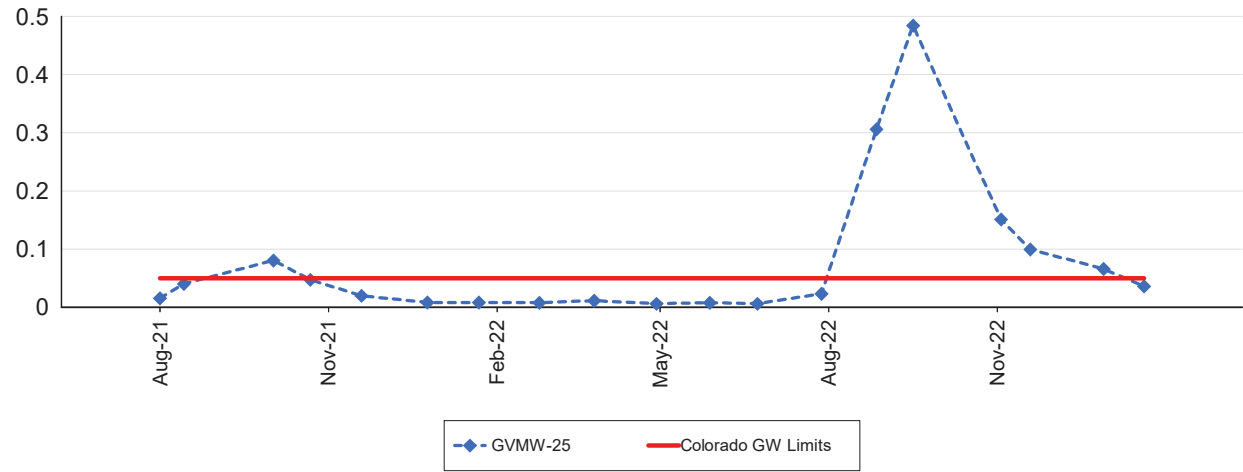
: Chloride - Total (mg/L)



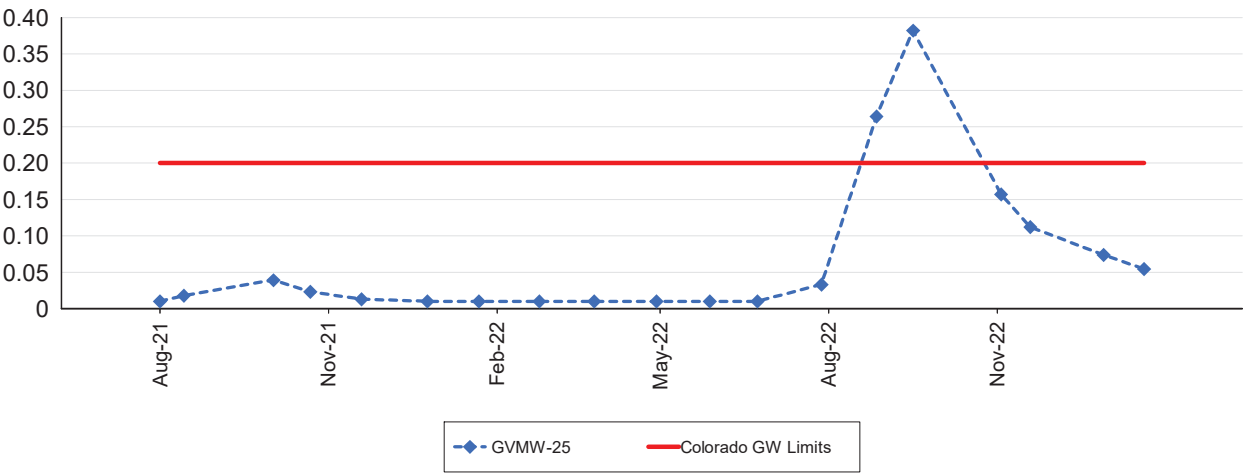
: Chromium - Dissolved (mg/L)

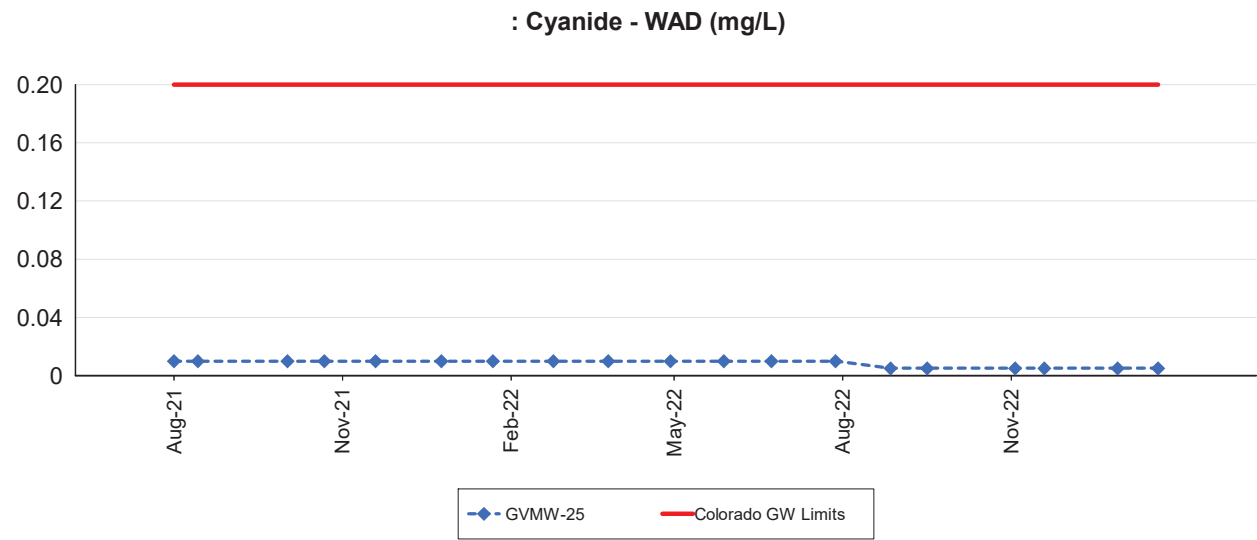
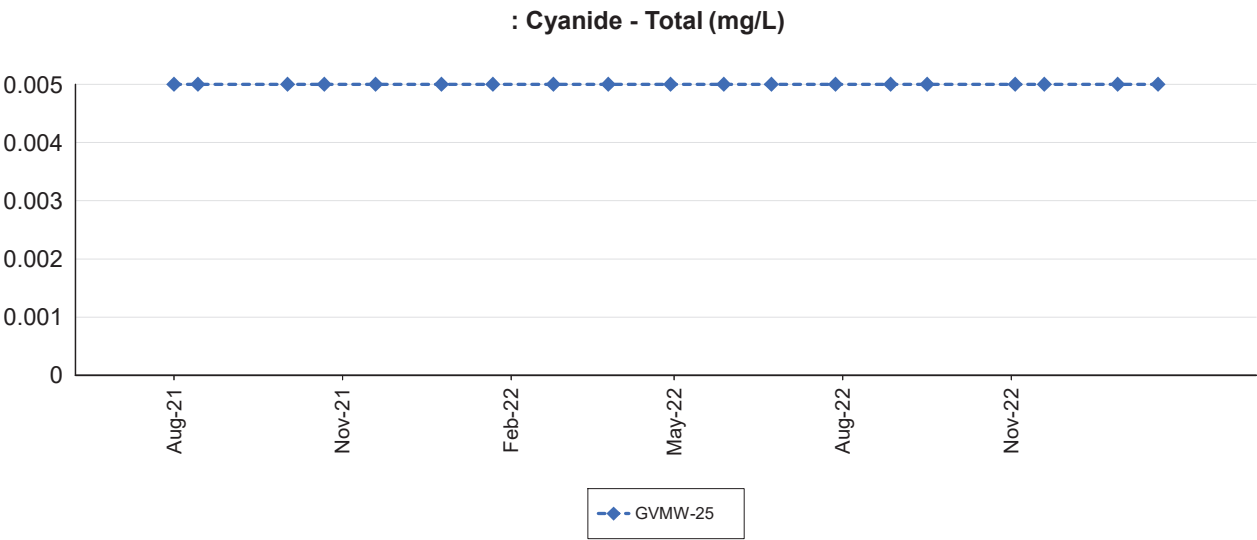
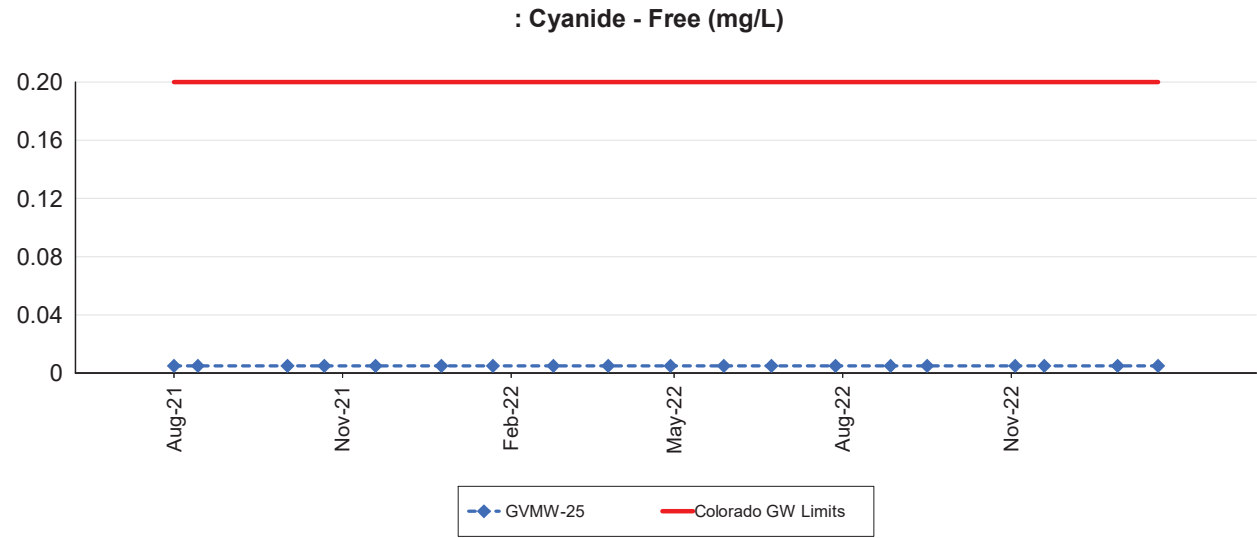


: Cobalt - Dissolved (mg/L)

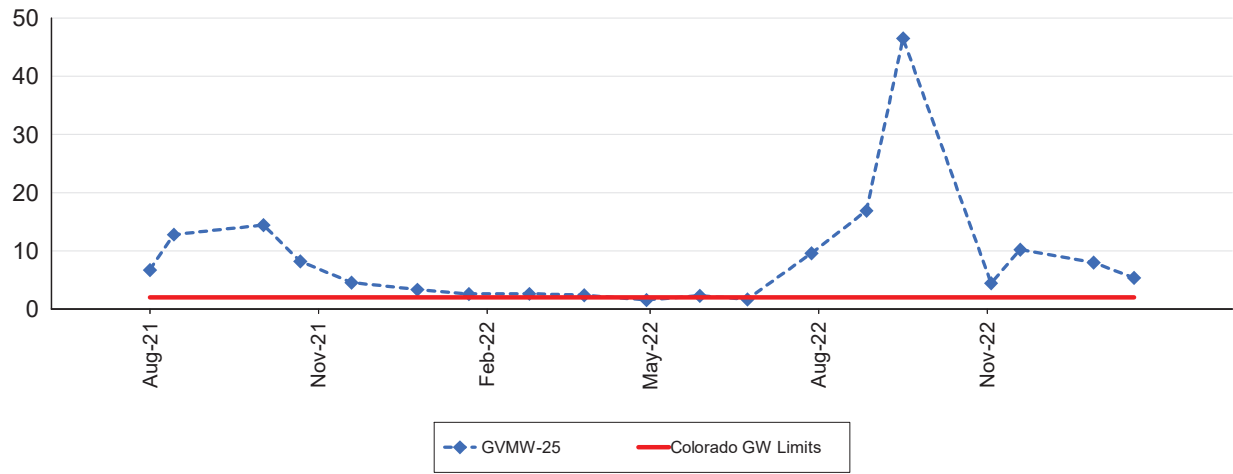


: Copper - Dissolved (mg/L)

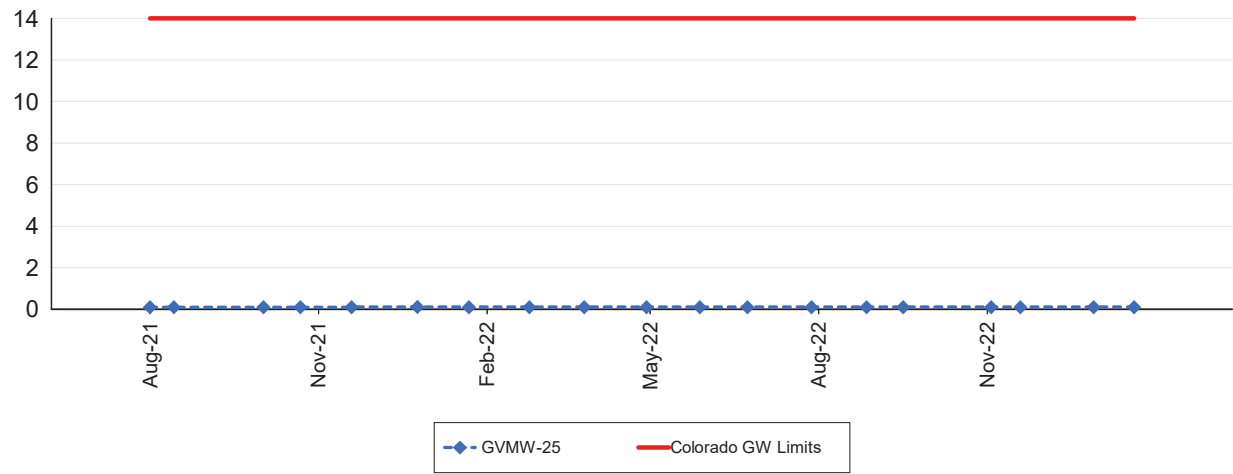




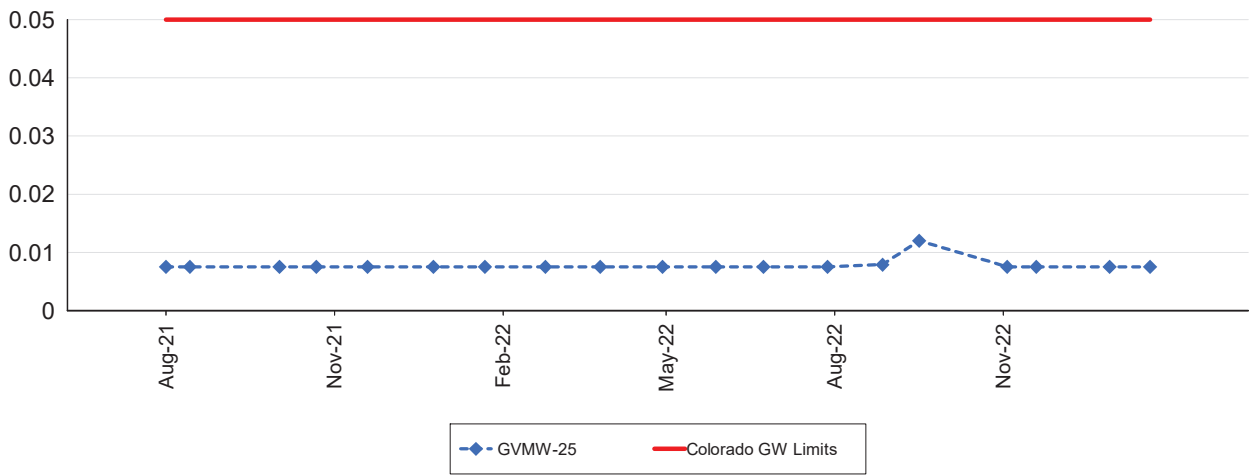
: Fluoride - Total F (mg/L)



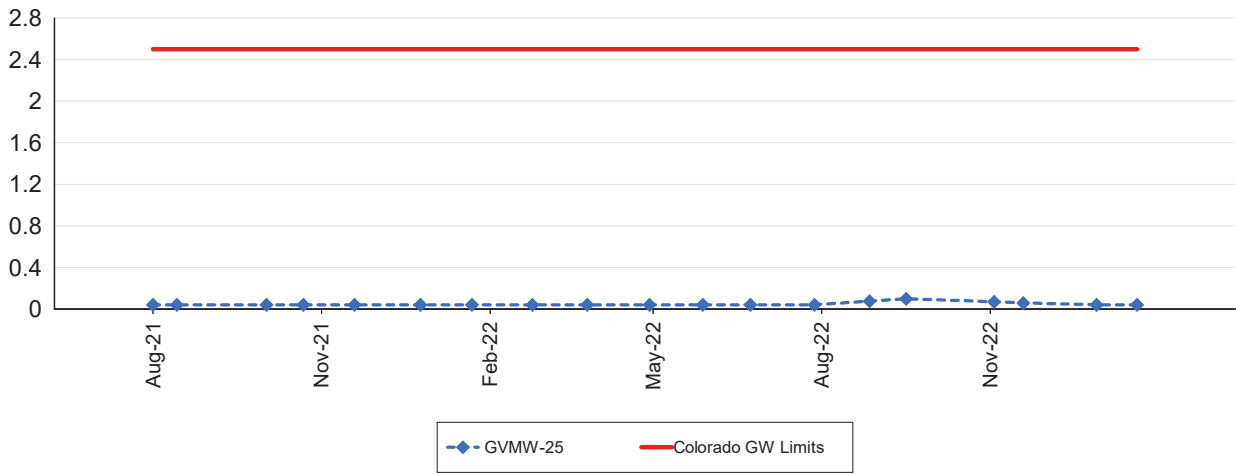
: Iron - Dissolved (mg/L)



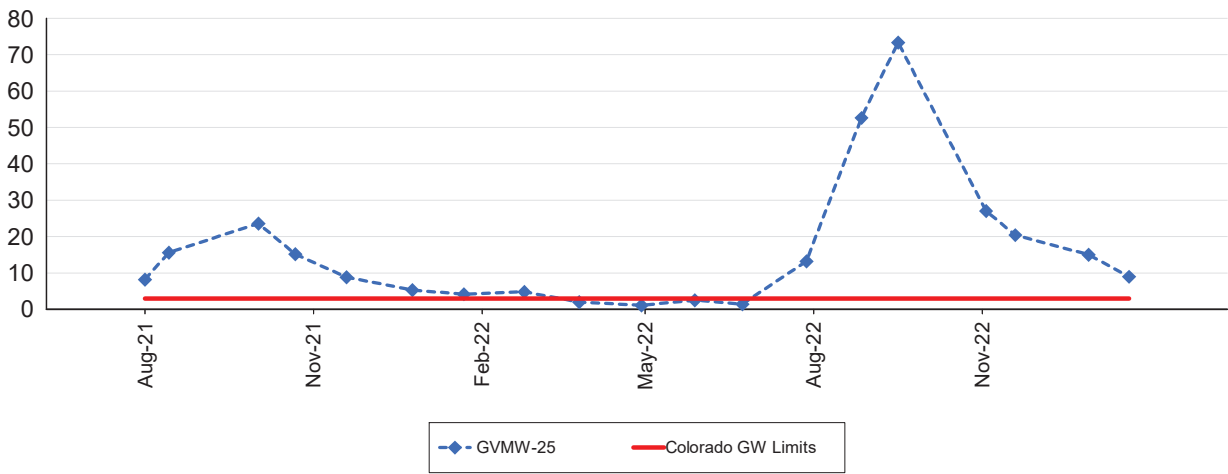
: Lead - Dissolved (mg/L)



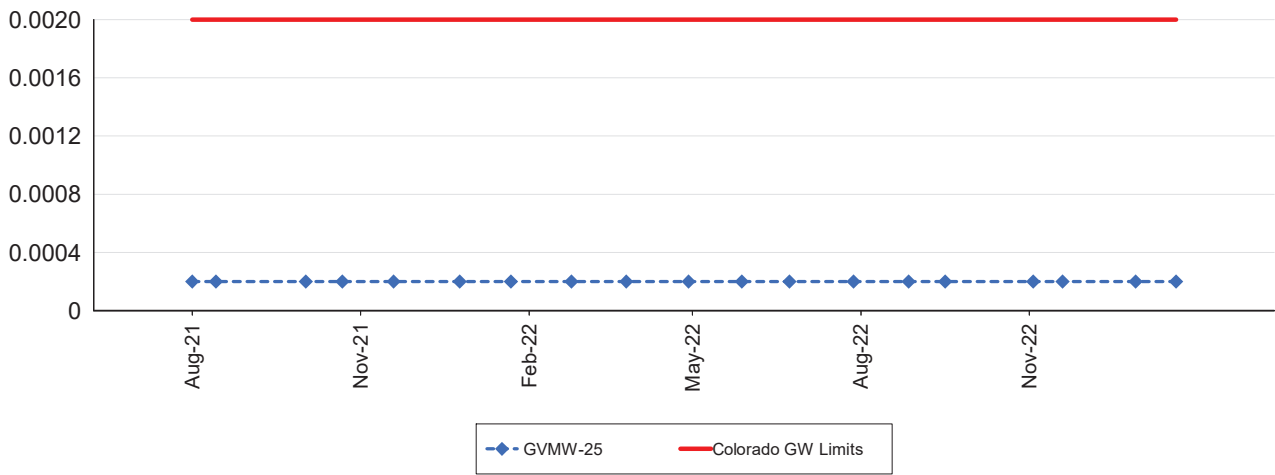
: Lithium - Dissolved (mg/L)



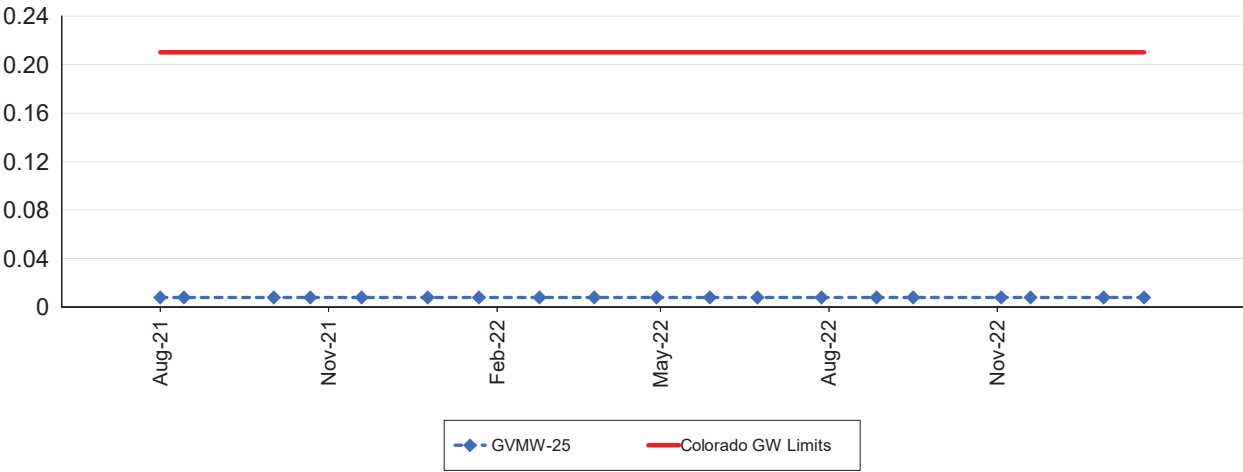
: Manganese - Dissolved (mg/L)



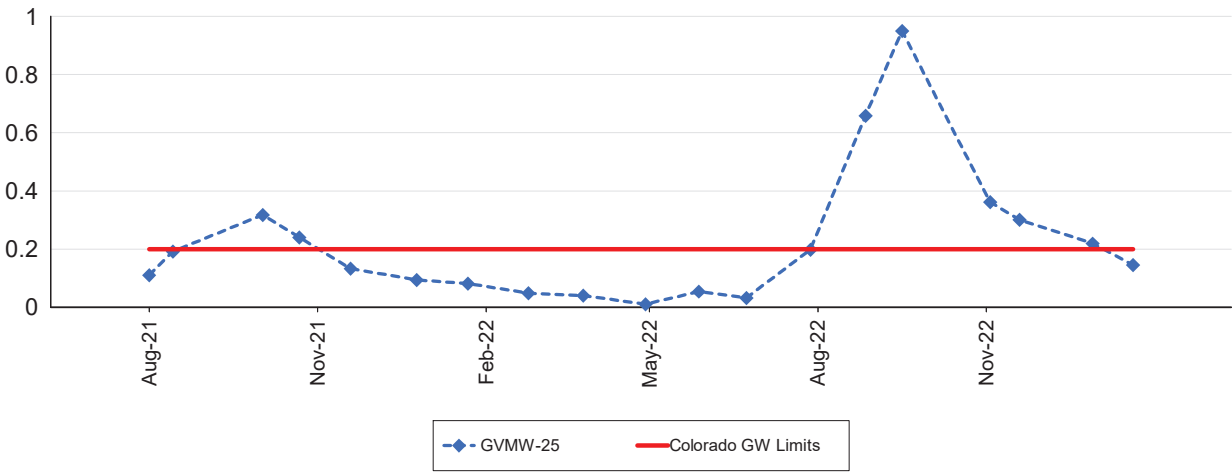
: Mercury - Dissolved (mg/L)



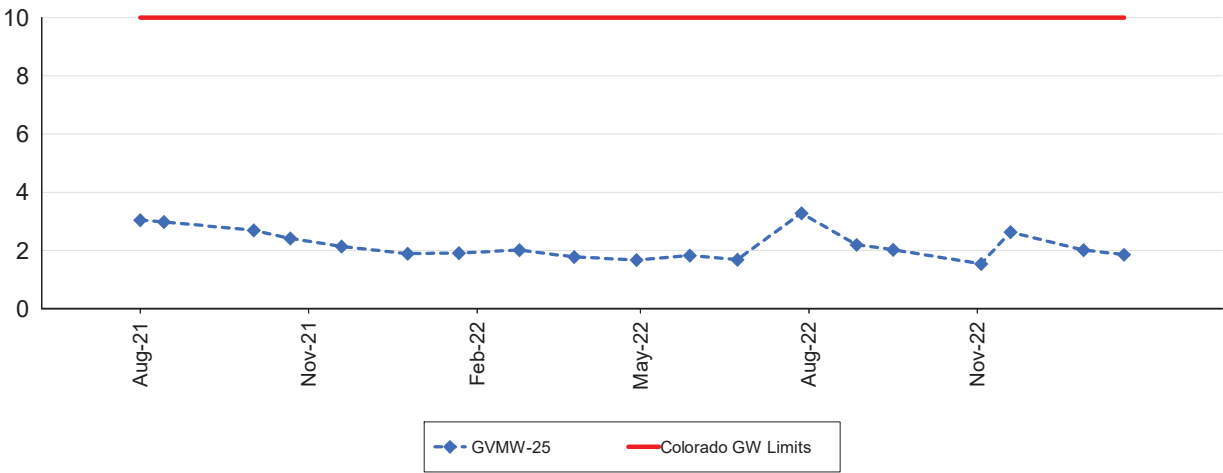
: Molybdenum - Dissolved (mg/L)



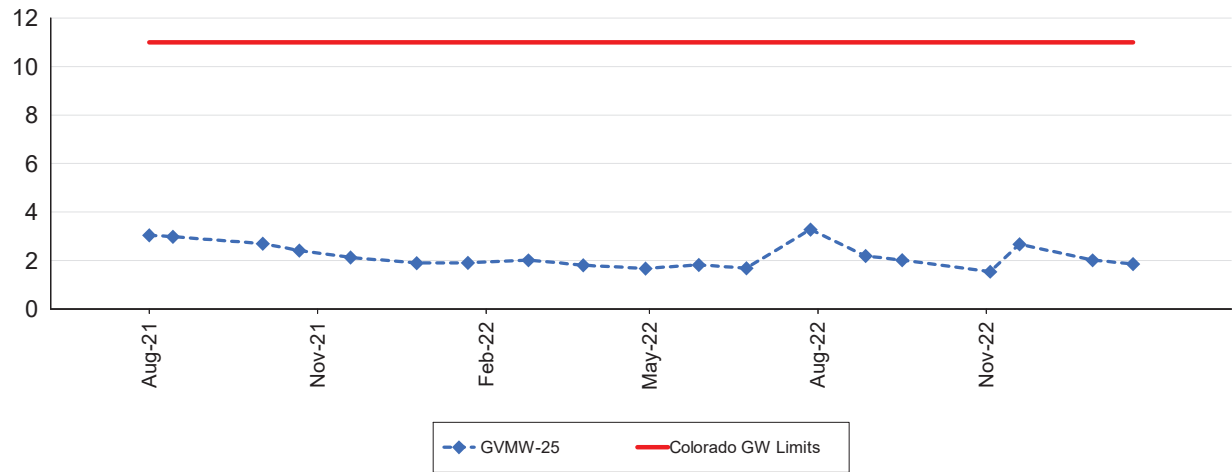
: Nickel - Dissolved (mg/L)



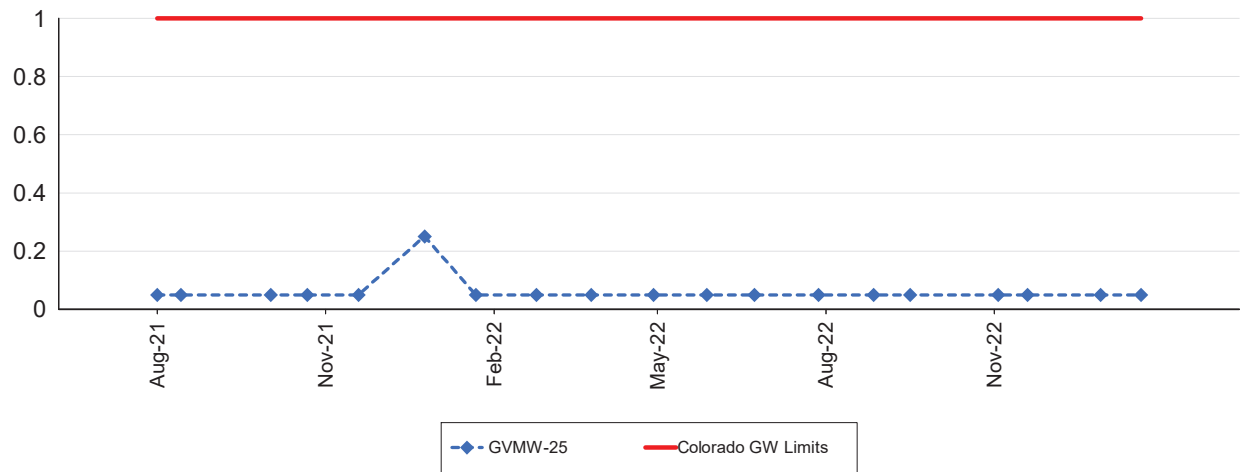
: Nitrate as Nitrogen (mg/L)



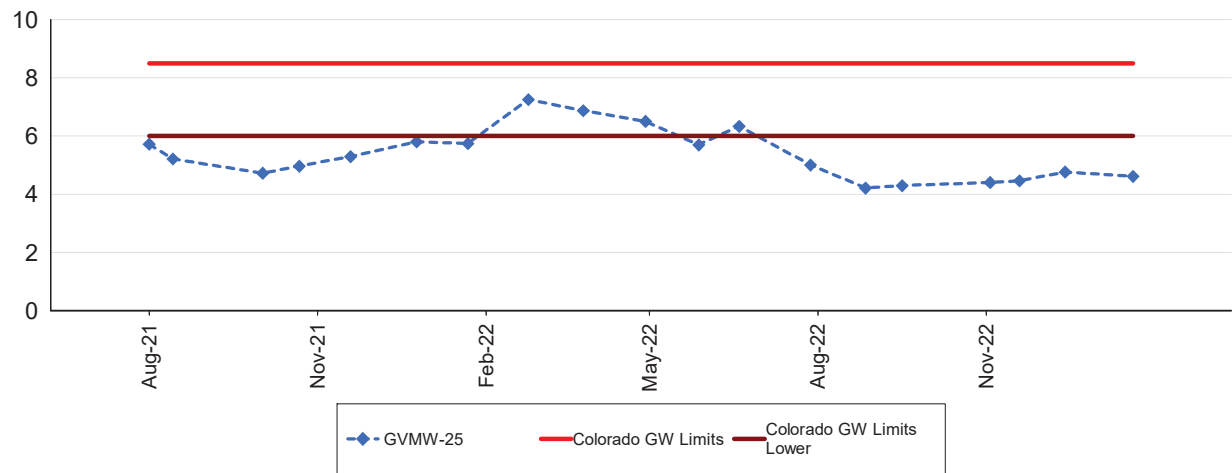
: Nitrite + Nitrate as Nitrogen (mg/L)



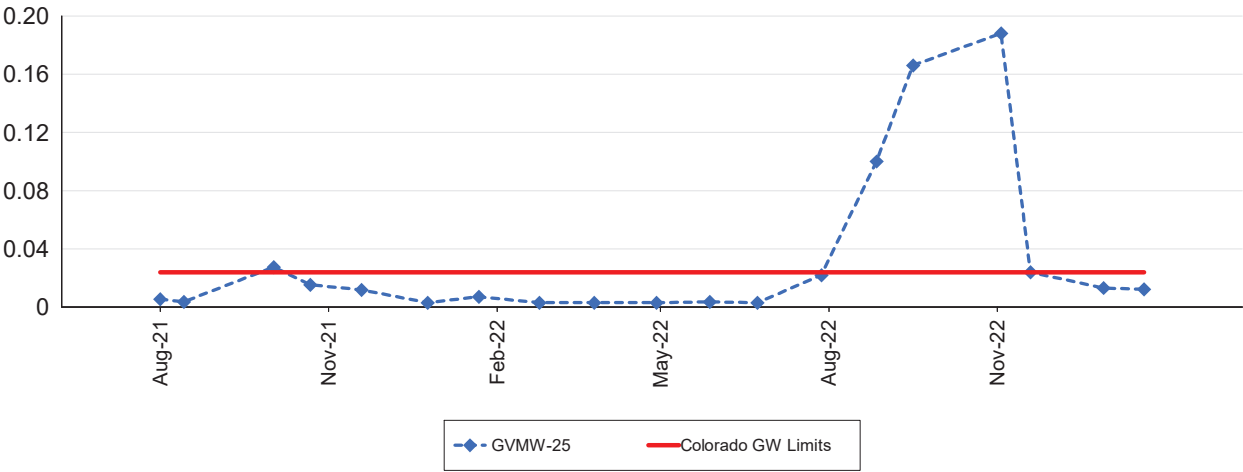
: Nitrite as Nitrogen (mg/L)



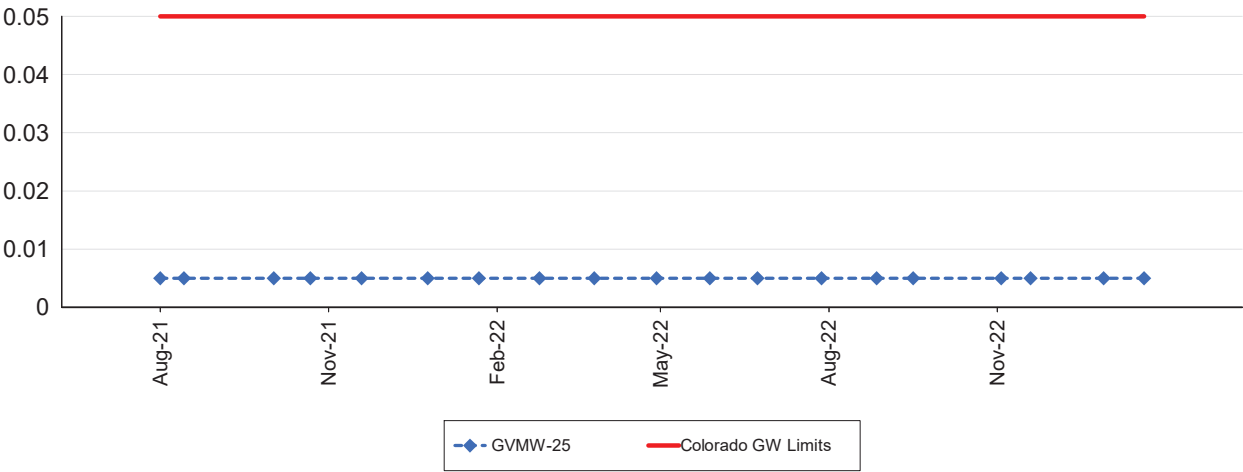
: pH Field (pH unit)



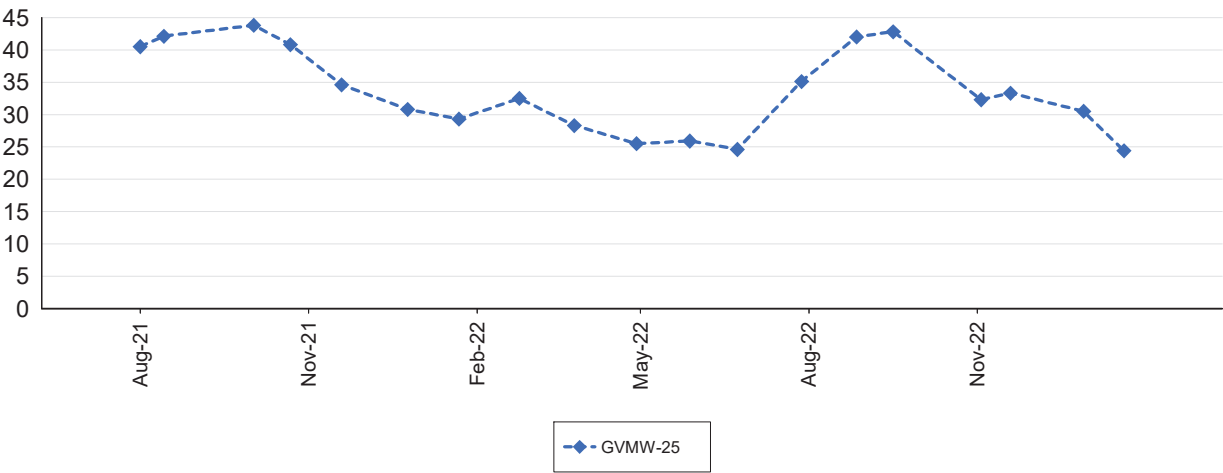
: Selenium - Dissolved (mg/L)



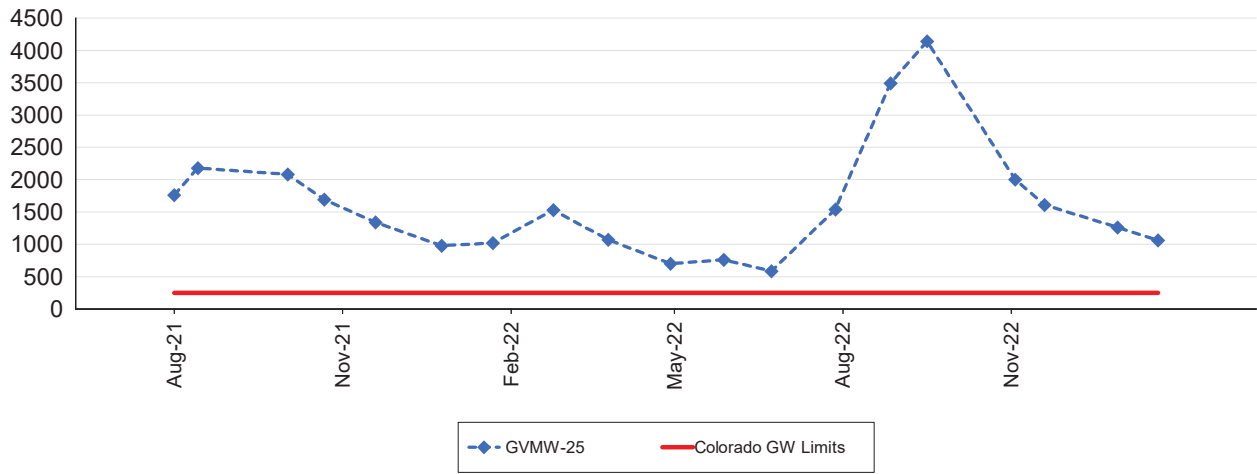
: Silver - Dissolved (mg/L)



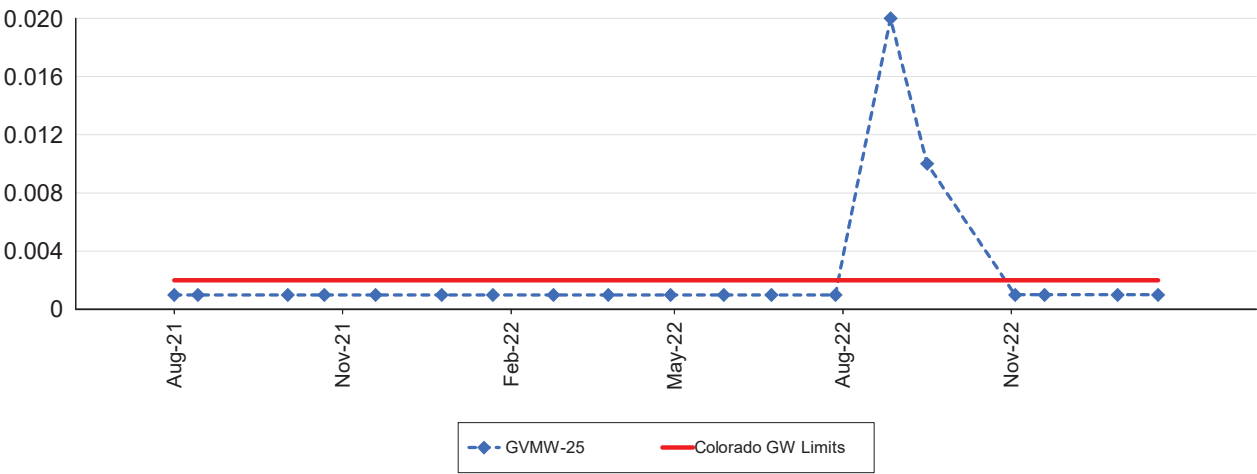
: Sodium - Dissolved (mg/L)



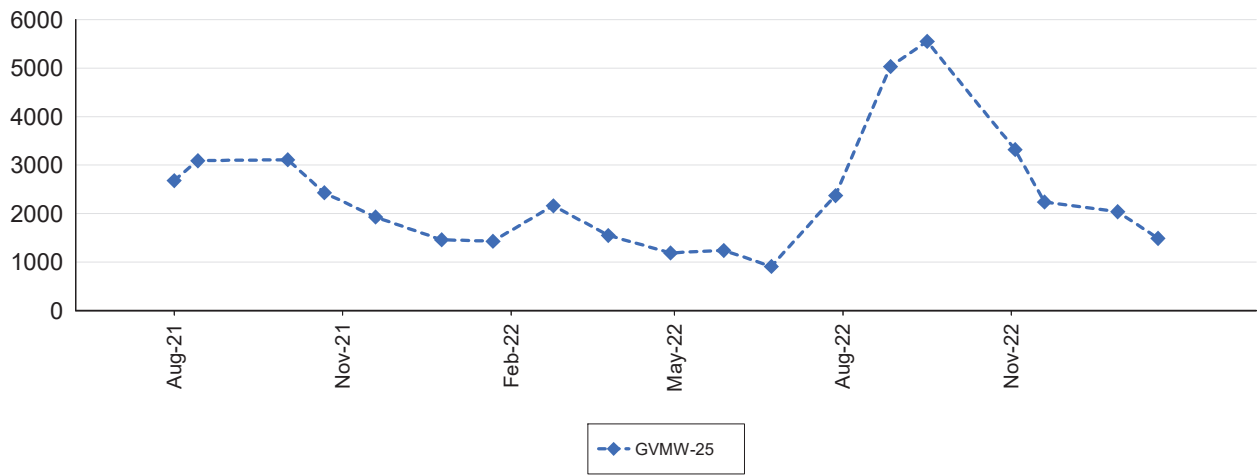
: Sulfate - Total (mg/L)



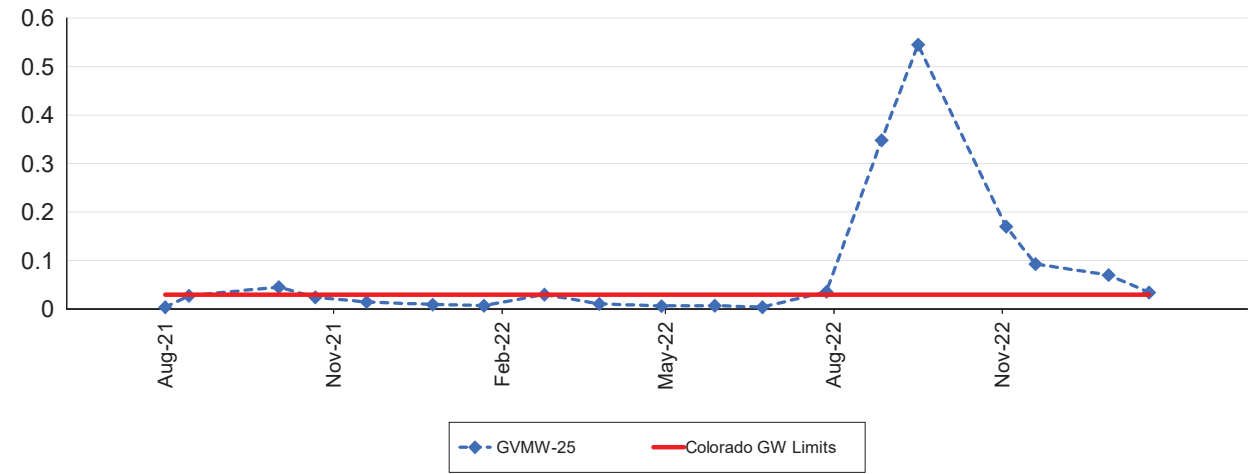
: Thallium - Dissolved (mg/L)



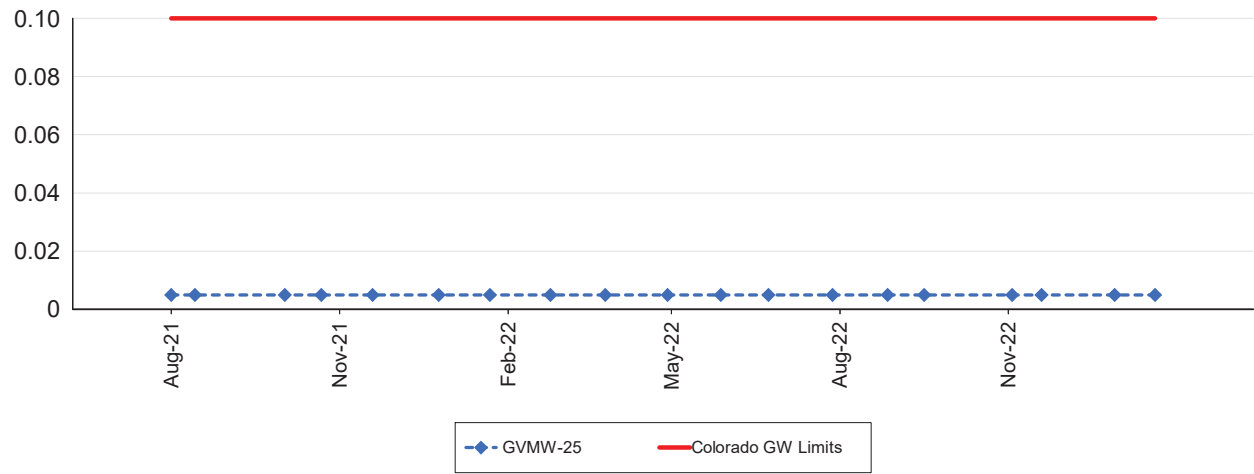
: Total Dissolved Solids (mg/L)



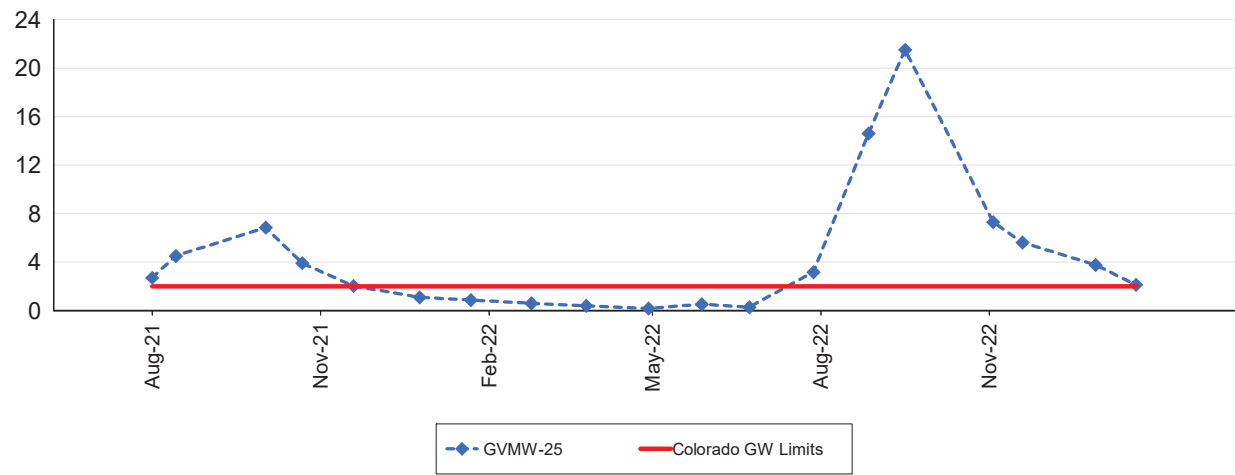
: Uranium - Dissolved (mg/L)



: Vanadium - Dissolved (mg/L)



: Zinc - Dissolved (mg/L)



Analytical Reports



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: **X3B0099**

Reported: 20-Feb-23 13:15

Client Sample ID: **GVMW-25**SVL Sample ID: **X3B0099-02 (Ground Water)**

Sampled: 07-Feb-23 12:05

Received: 08-Feb-23

Sampled By: ROD

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	247	mg/L	0.100	0.035		X306134	AS	02/14/23 09:36	
EPA 200.7	Magnesium	66.6	mg/L	0.500	0.045		X306134	AS	02/14/23 09:36	
EPA 200.7	Potassium	4.44	mg/L	0.50	0.09		X306134	AS	02/14/23 09:36	
SM 2340 B	Hardness (as CaCO3)	892	mg/L	2.31	0.271		N/A		02/17/23 09:37	

Metals (Dissolved)

EPA 200.7	Aluminum	15.2	mg/L	0.080	0.054		X307144	AS	02/17/23 09:37	
EPA 200.7	Barium	0.0087	mg/L	0.0020	0.0019		X307144	AS	02/17/23 09:37	
EPA 200.7	Beryllium	0.0298	mg/L	0.00200	0.00080		X307144	AS	02/17/23 09:37	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X307144	AS	02/17/23 09:37	
EPA 200.7	Cadmium	0.0646	mg/L	0.0020	0.0016		X307144	AS	02/17/23 09:37	
EPA 200.7	Calcium	229	mg/L	0.100	0.069		X307144	AS	02/17/23 10:32	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X307144	AS	02/17/23 09:37	
EPA 200.7	Cobalt	0.0361	mg/L	0.0060	0.0046		X307144	AS	02/17/23 09:37	
EPA 200.7	Copper	0.0546	mg/L	0.0100	0.0027		X307144	AS	02/17/23 09:37	
EPA 200.7	Iron	0.101	mg/L	0.100	0.056		X307144	AS	02/17/23 09:37	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X307144	AS	02/17/23 09:37	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X307144	AS	02/17/23 09:37	
EPA 200.7	Magnesium	61.1	mg/L	0.500	0.090		X307144	AS	02/17/23 09:37	
EPA 200.7	Manganese	8.95	mg/L	0.0080	0.0034		X307144	AS	02/17/23 09:37	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X307144	AS	02/17/23 09:37	
EPA 200.7	Nickel	0.145	mg/L	0.0100	0.0048		X307144	AS	02/17/23 09:37	
EPA 200.7	Potassium	3.71	mg/L	0.50	0.18		X307144	AS	02/17/23 09:37	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X307144	AS	02/17/23 09:37	
EPA 200.7	Sodium	24.4	mg/L	0.50	0.12		X307144	AS	02/17/23 09:37	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X307144	AS	02/17/23 09:37	
EPA 200.7	Zinc	2.13	mg/L	0.0100	0.0054		X307144	AS	02/17/23 09:37	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X306161	SMU	02/13/23 17:13	
EPA 200.8	Arsenic	0.00190	mg/L	0.00100	0.00021		X306161	SMU	02/13/23 17:13	
EPA 200.8	Selenium	0.0121	mg/L	0.00100	0.00024		X306161	SMU	02/13/23 17:13	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X306161	SMU	02/13/23 17:13	
EPA 200.8	Uranium	0.0343	mg/L	0.000100	0.000052		X306161	SMU	02/13/23 17:13	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X306199	RCA	02/13/23 13:28	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @21.0°C	< 0.0050	mg/L	0.0050	0.0048		X306002	HJL	02/15/23 10:52	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X306176	KAG	02/14/23 17:20	
EPA 350.1	Ammonia as N	0.068	mg/L	0.030	0.013		X306239	KAG	02/15/23 17:07	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X306158	HJL	02/14/23 16:12	
SM 2310 B	Acidity to pH 8.3	97.0	mg/L as CaCO3	10.0			X307018	MWD	02/13/23 11:10	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X306105	MWD	02/09/23 15:25	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X306105	MWD	02/09/23 15:25	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X306105	MWD	02/09/23 15:25	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X306105	MWD	02/09/23 15:25	
SM 2540 C	Total Diss. Solids	1490	mg/L	10			X306215	TJL	02/10/23 15:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X306217	TJL	02/10/23 15:50	R2B
SM 4500 H B	pH @21.0°C	4.6	pH Units				X306105	MWD	02/09/23 15:25	H5

SVL holds the following certifications:

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

Work order Report Page 4 of 13



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: **X3B0099**

Reported: 20-Feb-23 13:15

Client Sample ID: **GVMW-25**

Sampled: 07-Feb-23 12:05

SVL Sample ID: **X3B0099-02 (Ground Water)**

Received: 08-Feb-23

Sampled By: ROD

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	14.9	mg/L	10.0	1.10	50	X306082	RS	02/08/23 13:44	D2
EPA 300.0	Fluoride	5.36	mg/L	0.100	0.017		X306082	RS	02/08/23 13:26	
EPA 300.0	Nitrate as N	1.85	mg/L	0.050	0.013		X306082	RS	02/08/23 13:26	
EPA 300.0	Nitrate+Nitrite as N	1.85	mg/L	0.100	0.044		X306082	RS	02/08/23 13:26	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X306082	RS	02/08/23 13:26	
EPA 300.0	Sulfate as SO4	1060	mg/L	15.0	9.00	50	X306082	RS	02/08/23 13:44	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 19.7 meq/L

Anion Sum: 22.9 meq/L

C/A Balance: -7.54 %

Calculated TDS: 1419

TDS/cTDS: 1.05

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

Connor Williams

Project Manager

Field Sheets

Newmont Mining Co
Cripple Creek & Victor Gold Mining Co

Groundwater Sampling Log

Location : Grassy Valley

Date: 2-7-2023

Technician: Doering

Quarter: 1st

Static Water Level (DTW): 66.65

Well ID: GUMW-25

Is well Dry? No

If so Dry at: feet

67.5
67.7
68
68.05

Time	Drawdown (ft)	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
11:40	23.67 .85	4.81	2367	6.8	3L/m
11:50	1.05	4.58	2082	6.9	
12:00	1.35	4.62	1679	7.0	
12:05	1.4	4.61	1678	6.9	

Sample Method: Low Flow Stabilization Rate (gpm): .8 Time Start: 11:40 Time End: 12:05

Final Parameters	Stabilization Guidance	Met?	Comment
pH	4.61	0.1	Y/N
Conductivity	1678	3%	Y/N
Temp@	6.9	10%	Y/N
Final H2O level	68.05	feet	

O/G visible: Y/N

Turbid? Y/N

Equipment Decontaminated: Y/N

Decontamination procedure used: Rinsed with Ligumox and collected

Signature: [Signature]

Weather: Sunny Windy Cold

Duplicate
Collected

GUMW-125

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: GV-06 grassy valleyDate: 2-7-2023Technician: DoeringQuarter: 1st

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
10:49 AM	/	/	/	Frozen

Sample
Method:No Sample

Oil/Gas visible

[Y/N]

Turbid

[Y/N]

Clear

[Y/N]

Weather:

clear / cold / windy

Signature:

Reddy

Comments:

Valley frozen, Sample Location frozen solid.No flow to sample

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: Ecosia SeepDate: 2-7-2023Technician: DoeringQuarter: 1st

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
7:56 AM	—	—	—	Nothing to Sample

Sample
Method:No SampleDry / Snow

Oil/Gas visible

~~[Y/N]~~

Turbid

~~[Y/N]~~

Clear

~~[Y/N]~~

Weather:

Cold / clear

Signature:



Comments:

No flow, Snow present, Frozen

Newmont Mining Co

Cripple Creek & Victor Gold Mining Co

Surface Water Sampling Log

Location: Ecosi Seep 2Date: 2-7-2023Technician: D. CraigQuarter: 1st

Time	pH (S.U.)	Cond. (uS/cm)	Temp. (°C)	Notes
8:01 AM	/	/	/	Nothing to Sample

Sample Method: No SampleOil/Gas visible [Y/N]Turbid [Y/N]Clear [Y/N]Weather: Cold / clear / windySignature: 

Comments:

No flow, frozen, some snow

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: **X3B0099**

Reported: 20-Feb-23 13:15

Client Sample ID: **RB0207**

Sampled: 07-Feb-23 11:10

Received: 08-Feb-23

Sampled By: ROD

SVL Sample ID: **X3B0099-01 (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	0.985	mg/L	0.100	0.035		X306134	AS	02/14/23 08:26	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.045		X306134	AS	02/14/23 08:26	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.09		X306134	AS	02/14/23 08:26	
SM 2340 B	Hardness (as CaCO3)	2.46	mg/L	2.31	0.271		N/A		02/17/23 09:28	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X307144	AS	02/17/23 09:28	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X307144	AS	02/17/23 09:28	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X307144	AS	02/17/23 09:28	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X307144	AS	02/17/23 09:28	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X307144	AS	02/17/23 09:28	
EPA 200.7	Calcium	0.776	mg/L	0.100	0.069		X307144	AS	02/17/23 11:04	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X307144	AS	02/17/23 09:28	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X307144	AS	02/17/23 09:28	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X307144	AS	02/17/23 09:28	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X307144	AS	02/17/23 09:28	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X307144	AS	02/17/23 09:28	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X307144	AS	02/17/23 09:28	
EPA 200.7	Magnesium	< 0.500	mg/L	0.500	0.090		X307144	AS	02/17/23 09:28	
EPA 200.7	Manganese	0.0474	mg/L	0.0080	0.0034		X307144	AS	02/17/23 09:28	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X307144	AS	02/17/23 09:28	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X307144	AS	02/17/23 09:28	
EPA 200.7	Potassium	< 0.50	mg/L	0.50	0.18		X307144	AS	02/17/23 09:28	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X307144	AS	02/17/23 09:28	
EPA 200.7	Sodium	< 0.50	mg/L	0.50	0.12		X307144	AS	02/17/23 09:28	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X307144	AS	02/17/23 09:28	
EPA 200.7	Zinc	0.0114	mg/L	0.0100	0.0054		X307144	AS	02/17/23 09:28	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X306161	SMU	02/13/23 17:05	
EPA 200.8	Arsenic	< 0.00100	mg/L	0.00100	0.00021		X306161	SMU	02/13/23 17:05	
EPA 200.8	Selenium	< 0.00100	mg/L	0.00100	0.00024		X306161	SMU	02/13/23 17:05	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X306161	SMU	02/13/23 17:05	
EPA 200.8	Uranium	0.000303	mg/L	0.000100	0.000052		X306161	SMU	02/13/23 17:05	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X306199	RCA	02/13/23 13:22	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @21.0°C	< 0.0050	mg/L	0.0050	0.0048		X306002	HJL	02/15/23 10:51	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X306176	KAG	02/14/23 17:17	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X306239	KAG	02/15/23 17:05	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X306158	HJL	02/14/23 16:10	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X307018	MWD	02/13/23 11:10	
SM 2320 B	Total Alkalinity	3.6	mg/L as CaCO3	1.0			X306105	MWD	02/09/23 15:19	
SM 2320 B	Bicarbonate	3.6	mg/L as CaCO3	1.0			X306105	MWD	02/09/23 15:19	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X306105	MWD	02/09/23 15:19	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X306105	MWD	02/09/23 15:19	
SM 2540 C	Total Diss. Solids	32	mg/L	10			X306215	TJL	02/10/23 15:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X306217	TJL	02/10/23 15:50	
SM 4500 H B	pH @21.2°C	6.8	pH Units				X306105	MWD	02/09/23 15:19	H5

SVL holds the following certifications:

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

Work order Report Page 2 of 13



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: **X3B0099**

Reported: 20-Feb-23 13:15

Client Sample ID: **RB0207**SVL Sample ID: **X3B0099-01 (Ground Water)**

Sampled: 07-Feb-23 11:10

Received: 08-Feb-23

Sampled By: ROD

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		X306082	RS	02/08/23 12:50	
EPA 300.0	Fluoride	< 0.100	mg/L	0.100	0.017		X306082	RS	02/08/23 12:50	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.013		X306082	RS	02/08/23 12:50	
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.044		X306082	RS	02/08/23 12:50	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X306082	RS	02/08/23 12:50	
EPA 300.0	Sulfate as SO ₄	7.34	mg/L	0.30	0.18		X306082	RS	02/08/23 12:50	

Cation/Anion Balance and TDS Ratios

Cation Sum: 0.06 meq/L

Anion Sum: 0.23 meq/L

C/A Balance: -55.97 %

Calculated TDS: 10

TDS/cTDS: 3.08

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

Connor Williams

Project Manager

**Newmont - Cripple Creek & Victor**

Post Office Box 191

Victor, CO 80860

Work Order: **X3B0099**

Reported: 20-Feb-23 13:15

Client Sample ID: **GVMW-125**

Sampled: 07-Feb-23 12:05

Received: 08-Feb-23

Sampled By: ROD

SVL Sample ID: **X3B0099-03 (Ground Water)****Sample Report Page 1 of 2**

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	261	mg/L	0.100	0.035		X306134	AS	02/14/23 09:39	
EPA 200.7	Magnesium	70.6	mg/L	0.500	0.045		X306134	AS	02/14/23 09:39	
EPA 200.7	Potassium	4.69	mg/L	0.50	0.09		X306134	AS	02/14/23 09:39	
SM 2340 B	Hardness (as CaCO3)	942	mg/L	2.31	0.271		N/A		02/17/23 09:41	

Metals (Dissolved)

EPA 200.7	Aluminum	17.5	mg/L	0.080	0.054		X307144	AS	02/17/23 09:41	
EPA 200.7	Barium	0.0097	mg/L	0.0020	0.0019		X307144	AS	02/17/23 09:41	
EPA 200.7	Beryllium	0.0333	mg/L	0.00200	0.00080		X307144	AS	02/17/23 09:41	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X307144	AS	02/17/23 09:41	
EPA 200.7	Cadmium	0.0742	mg/L	0.0020	0.0016		X307144	AS	02/17/23 09:41	
EPA 200.7	Calcium	268	mg/L	0.100	0.069		X307144	AS	02/17/23 10:36	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X307144	AS	02/17/23 09:41	
EPA 200.7	Cobalt	0.0414	mg/L	0.0060	0.0046		X307144	AS	02/17/23 09:41	
EPA 200.7	Copper	0.0611	mg/L	0.0100	0.0027		X307144	AS	02/17/23 09:41	
EPA 200.7	Iron	0.103	mg/L	0.100	0.056		X307144	AS	02/17/23 09:41	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X307144	AS	02/17/23 09:41	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X307144	AS	02/17/23 09:41	
EPA 200.7	Magnesium	70.5	mg/L	0.500	0.090		X307144	AS	02/17/23 09:41	
EPA 200.7	Manganese	10.3	mg/L	0.0080	0.0034		X307144	AS	02/17/23 09:41	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X307144	AS	02/17/23 09:41	
EPA 200.7	Nickel	0.167	mg/L	0.0100	0.0048		X307144	AS	02/17/23 09:41	
EPA 200.7	Potassium	4.29	mg/L	0.50	0.18		X307144	AS	02/17/23 09:41	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X307144	AS	02/17/23 09:41	
EPA 200.7	Sodium	28.3	mg/L	0.50	0.12		X307144	AS	02/17/23 09:41	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X307144	AS	02/17/23 09:41	
EPA 200.7	Zinc	2.47	mg/L	0.0100	0.0054		X307144	AS	02/17/23 09:41	
EPA 200.8	Antimony	< 0.00100	mg/L	0.00100	0.00072		X306161	SMU	02/13/23 17:15	
EPA 200.8	Arsenic	0.00213	mg/L	0.00100	0.00021		X306161	SMU	02/13/23 17:15	
EPA 200.8	Selenium	0.0127	mg/L	0.00100	0.00024		X306161	SMU	02/13/23 17:15	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X306161	SMU	02/13/23 17:15	
EPA 200.8	Uranium	0.0383	mg/L	0.000100	0.000052		X306161	SMU	02/13/23 17:15	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X306199	RCA	02/13/23 13:30	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @21.0°C	< 0.0050	mg/L	0.0050	0.0048		X306002	HJL	02/15/23 10:58	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X306176	KAG	02/14/23 17:22	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X306239	KAG	02/15/23 17:10	
OIA 1677	Cyanide (WAD)	< 0.0050	mg/L	0.0050	0.0010		X306158	HJL	02/14/23 16:13	
SM 2310 B	Acidity to pH 8.3	97.0	mg/L as CaCO3	10.0			X307018	MWD	02/13/23 11:10	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X306105	MWD	02/09/23 15:40	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X306105	MWD	02/09/23 15:40	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X306105	MWD	02/09/23 15:40	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X306105	MWD	02/09/23 15:40	
SM 2540 C	Total Diss. Solids	1490	mg/L	10			X306215	TJL	02/10/23 15:50	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X306217	TJL	02/10/23 15:50	
SM 4500 H B	pH @21.2°C	4.5	pH Units				X306105	MWD	02/09/23 15:40	H5

SVL holds the following certifications:

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

Work order Report Page 6 of 13



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: **X3B0099**

Reported: 20-Feb-23 13:15

Client Sample ID: **GVMW-125**

Sampled: 07-Feb-23 12:05

SVL Sample ID: **X3B0099-03 (Ground Water)**

Received: 08-Feb-23

Sampled By: ROD

Sample Report Page 2 of 2

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	14.6	mg/L	10.0	1.10	50	X306082	RS	02/08/23 14:21	D2
EPA 300.0	Fluoride	5.05	mg/L	0.100	0.017		X306082	RS	02/08/23 14:03	
EPA 300.0	Nitrate as N	1.81	mg/L	0.050	0.013		X306082	RS	02/08/23 14:03	
EPA 300.0	Nitrate+Nitrite as N	1.81	mg/L	0.100	0.044		X306082	RS	02/08/23 14:03	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X306082	RS	02/08/23 14:03	
EPA 300.0	Sulfate as SO4	1050	mg/L	15.0	9.00	50	X306082	RS	02/08/23 14:21	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 22.6 meq/L

Anion Sum: 22.7 meq/L

C/A Balance: -0.25 %

Calculated TDS: 1446

TDS/cTDS: 1.03

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

Connor Williams

Project Manager

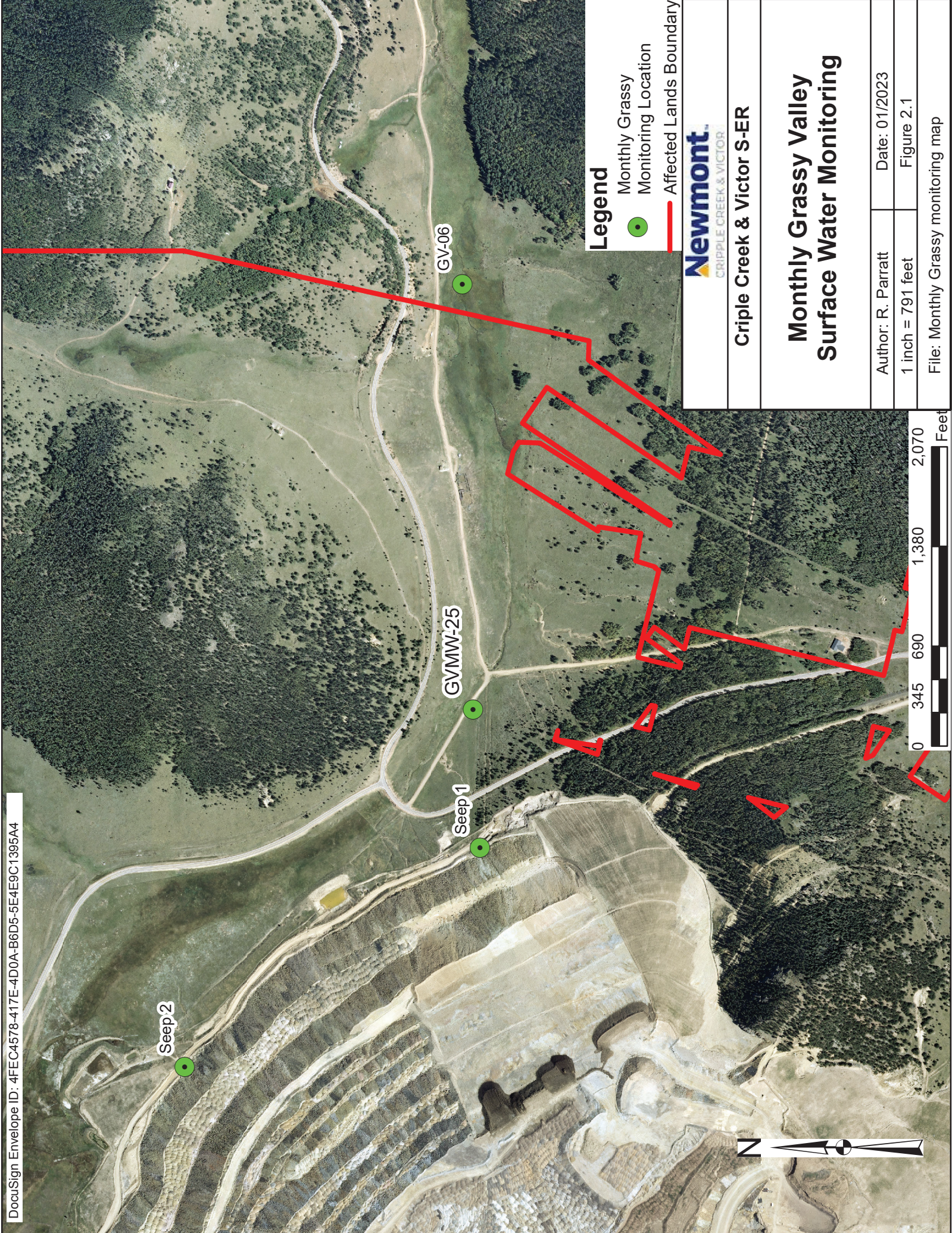
Surface Water Photos







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	

