



M-1980-244 - Grassy Valley Monthly Data - December 2021

Ronald Parratt <Ronald.Parratt@newmont.com>
To: "elliott.russell@state.co.us" <elliott.russell@state.co.us>
Cc: Justin Raglin <Justin.Raglin@newmont.com>

Tue, Jan 4, 2022 at 4:28 PM

Good afternoon Mr. Russell,

Please see the attached file containing the requested monthly data for Grassy Valley (graphs and analytical reports).

Best Regards,

Ron

Ronald Parratt

Site Water Coordinator

Water & Energy Specialist



100 North 3rd Street

Victor, Colorado 80860

[719.851.4019](tel:719.851.4019)

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[NEWMONT.COM](http://newmont.com)

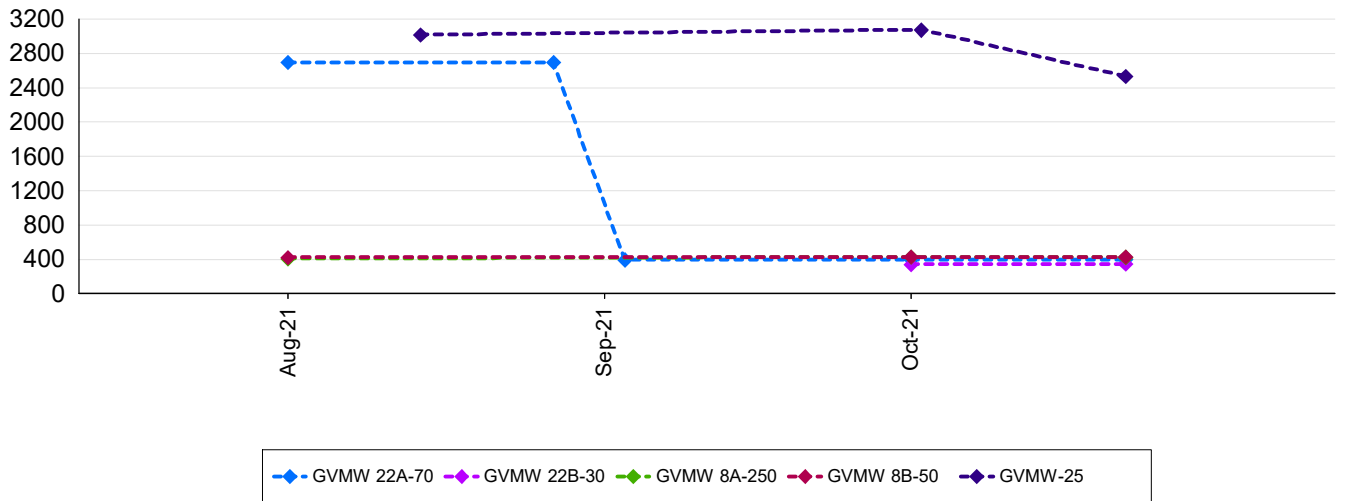
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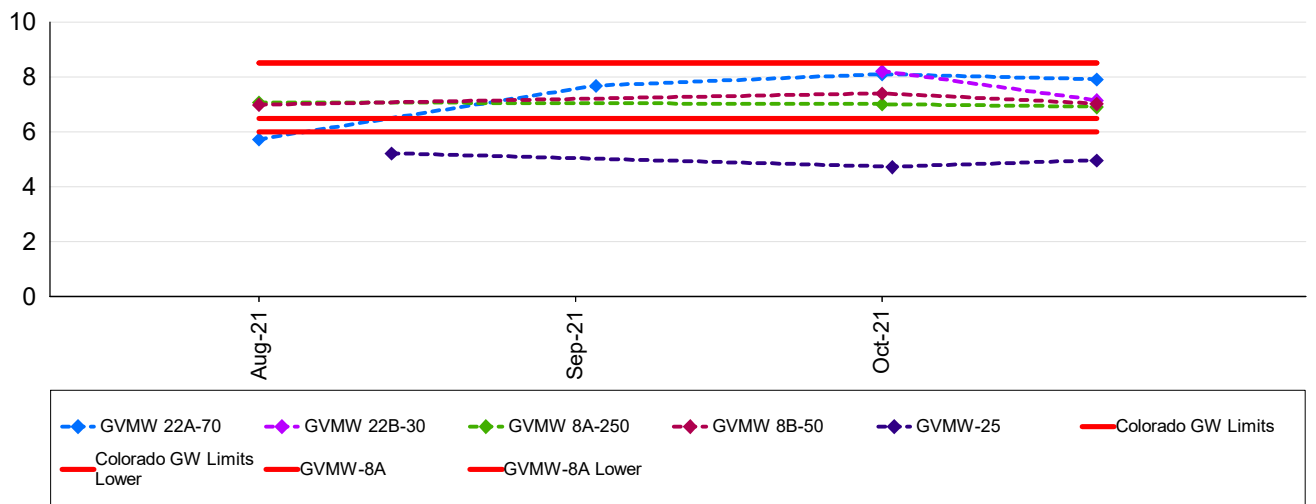
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 **Grassy_Monthly_December_2021.pdf**
435K

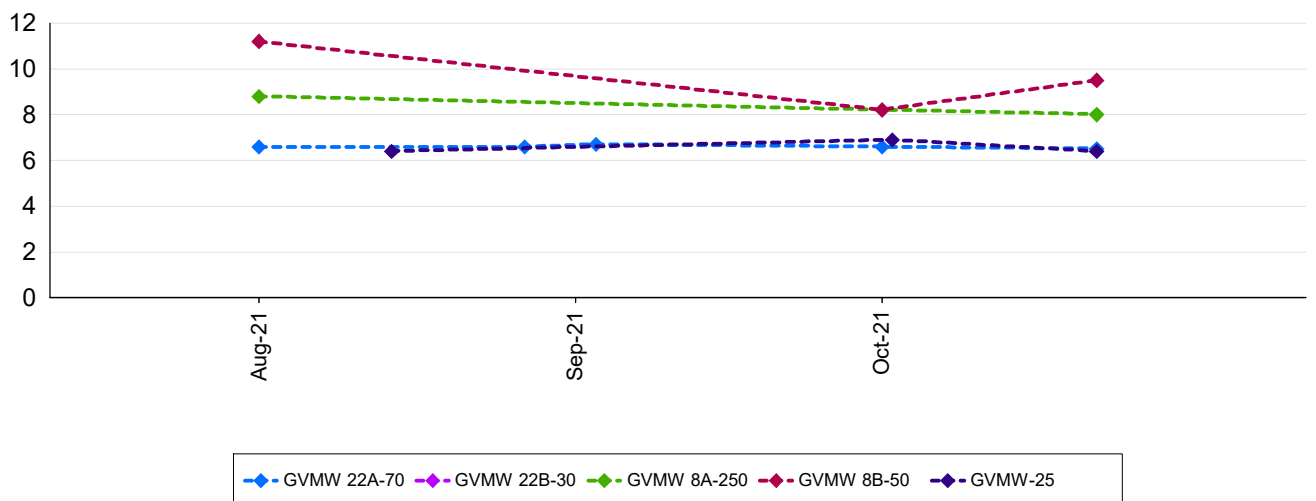
: Conductivity ($\mu\text{S}/\text{cm}$)



: pH Field (pH unit)



: Water Temperature ($^{\circ}\text{C}$)



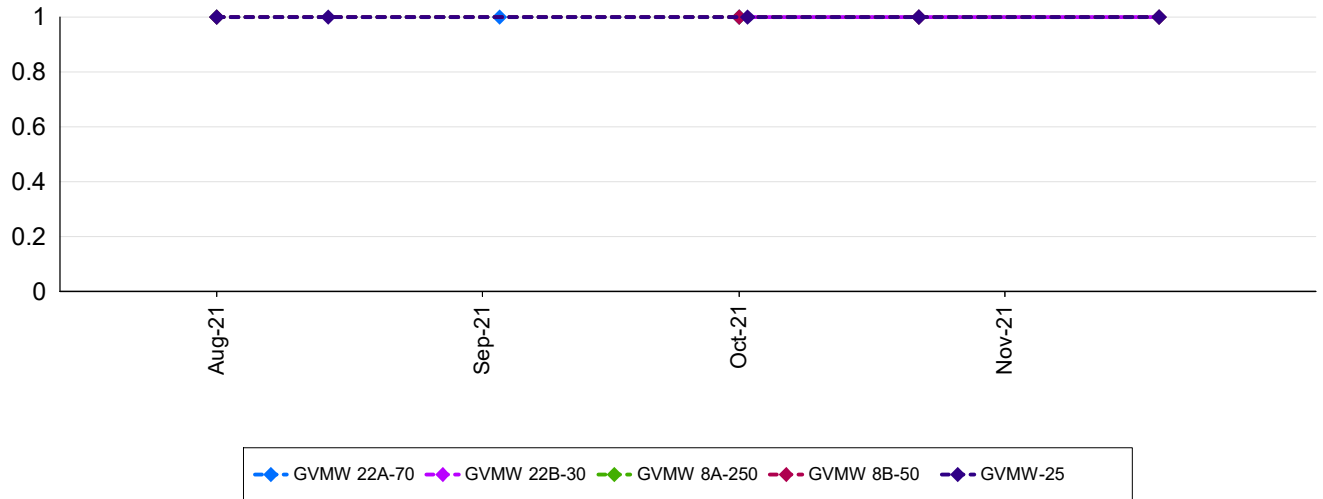
The graph displays the number of COVID-19 cases for five GVMW locations over time. The Y-axis represents the number of cases, ranging from 0 to 160 in increments of 20. The X-axis shows dates from August 21 to November 21, 2020. The locations are represented by different colored lines and markers: GVMW 22A-70 (blue dashed line with diamond markers), GVMW 22B-30 (magenta dashed line with diamond markers), GVMW 8A-250 (green dashed line with diamond markers), GVMW 8B-50 (red dashed line with diamond markers), and GVMW-25 (purple dashed line with diamond markers). GVMW-25 shows a significant peak in late October, reaching approximately 145 cases. The other four locations remain relatively flat, with values mostly below 20 cases.

Date	GVMW 22A-70	GVMW 22B-30	GVMW 8A-250	GVMW 8B-50	GVMW-25
Aug-21	0	0	0	10	55
Aug-28	0	0	0	10	10
Sep-04	0	0	0	10	10
Sep-11	0	0	0	10	10
Sep-18	0	0	0	10	10
Sep-25	10	0	0	10	15
Oct-02	0	0	0	10	20
Oct-09	0	0	0	10	20
Oct-16	0	0	0	10	20
Oct-23	0	0	0	10	145
Oct-30	0	0	0	10	100
Nov-06	0	0	0	10	50
Nov-13	0	0	0	10	10
Nov-20	0	0	0	10	10

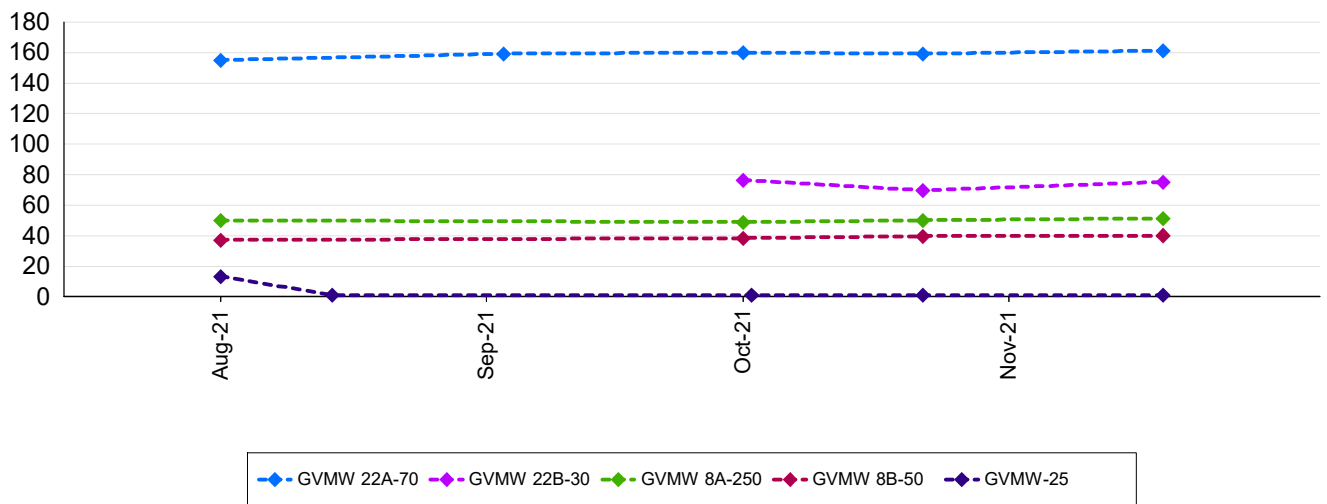
Model	Aug-21	Sep-21	Oct-21	Nov-21
GVMW 22A-70	155	158	158	158
GVMW 22B-30	0	0	75	78
GVMW 8A-250	48	48	48	50
GVMW 8B-50	38	38	38	40
GVMW-25	15	0	0	0

Date	GVMW 22A-70	GVMW 22B-30	GVMW 8A-250	GVMW 8B-50	GVMW-25
Aug-21	1.0	1.0	1.0	1.0	1.0
Sep-21	1.0	1.0	1.0	1.0	1.0
Oct-21	1.0	1.0	1.0	1.0	1.0
Nov-21	1.0	1.0	1.0	1.0	1.0

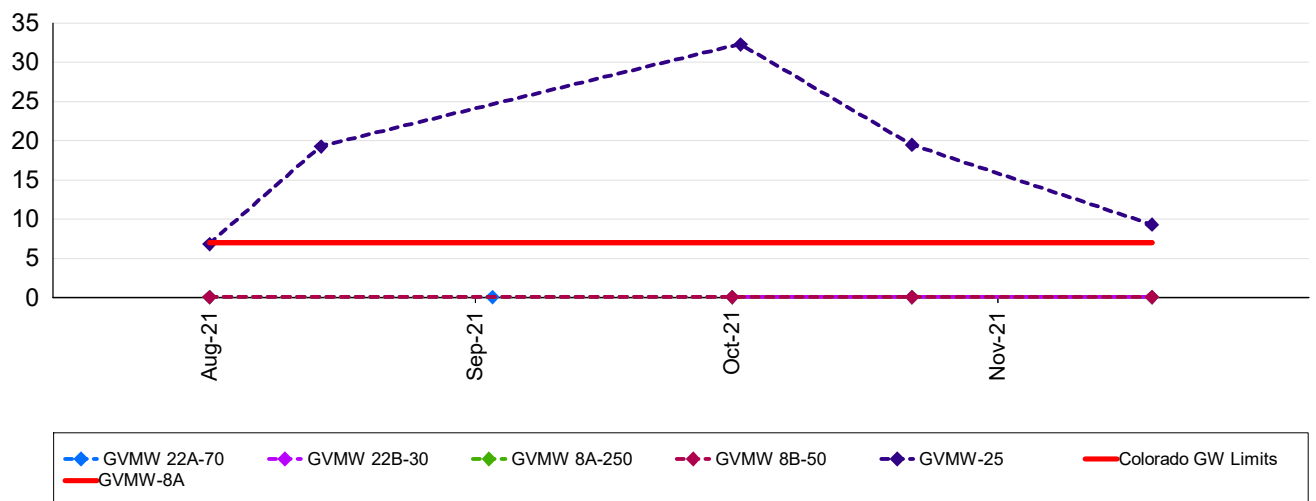
: Alkalinity - Hydroxide as CaCO3 (mg/L)



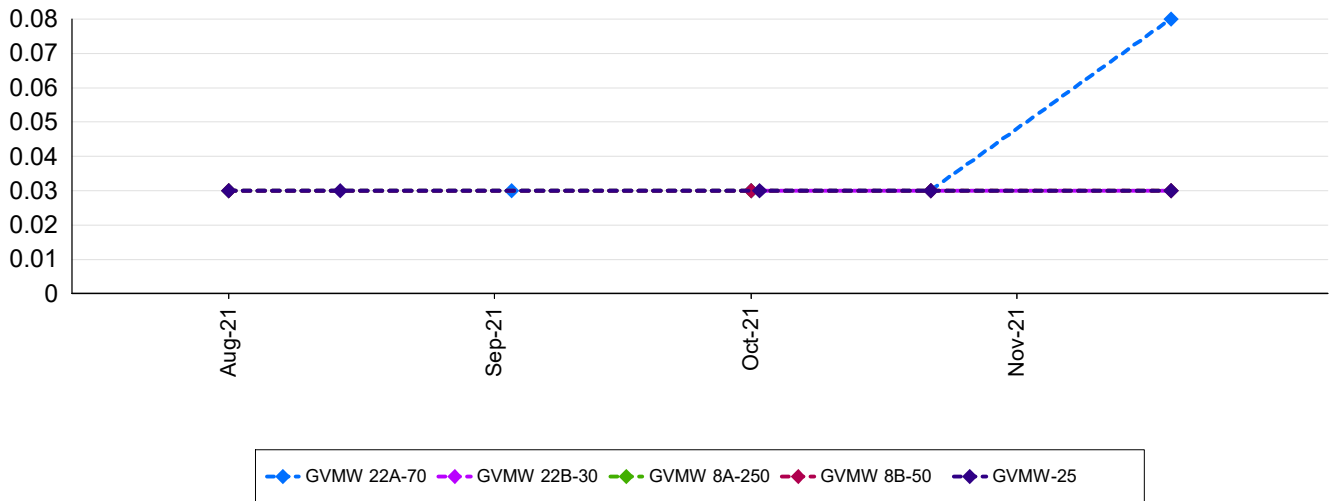
: Alkalinity - Total as CaCO3 (mg/L)



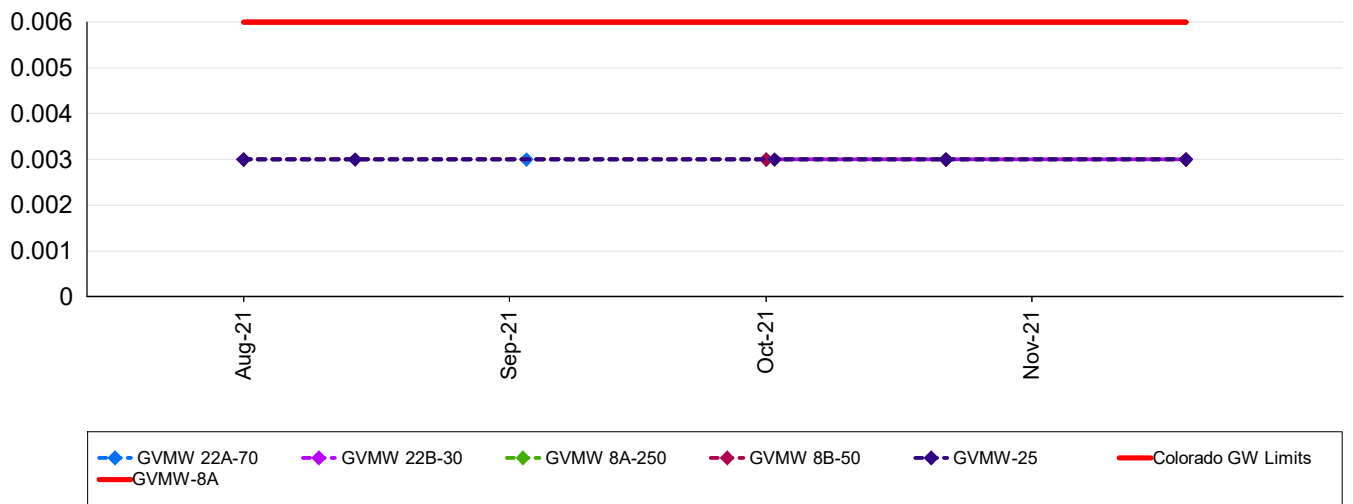
: Aluminium - Dissolved (mg/L)



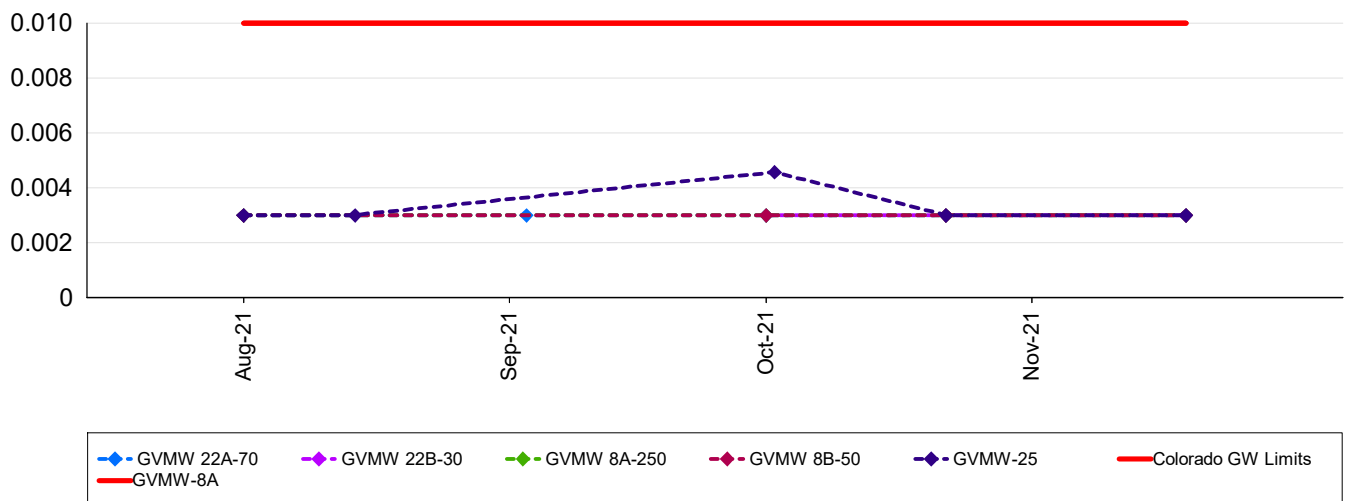
: Ammonia (mg/L)



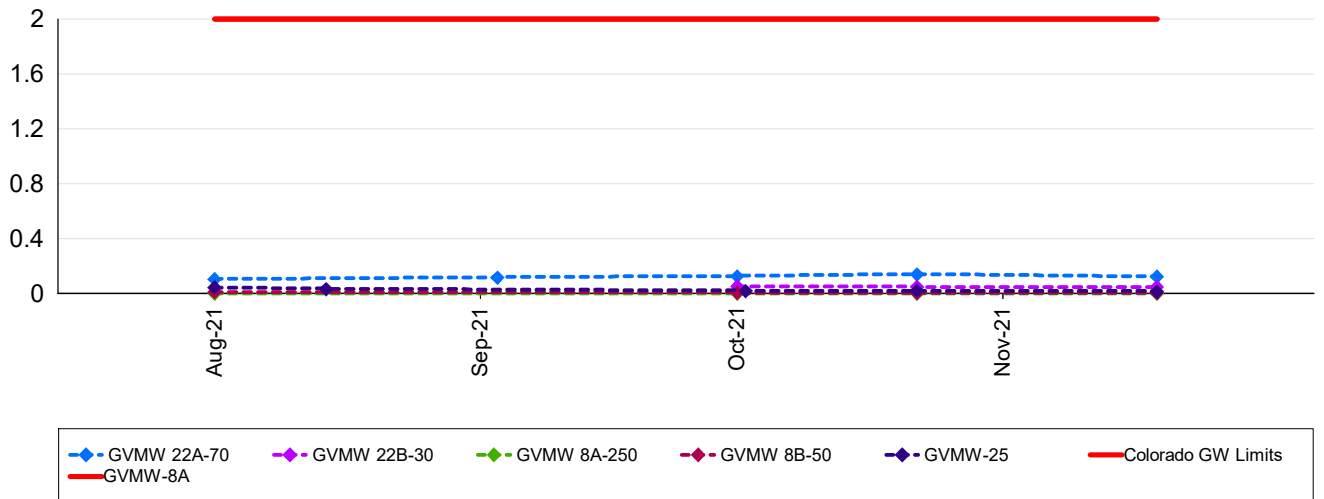
: Antimony - Dissolved (mg/L)



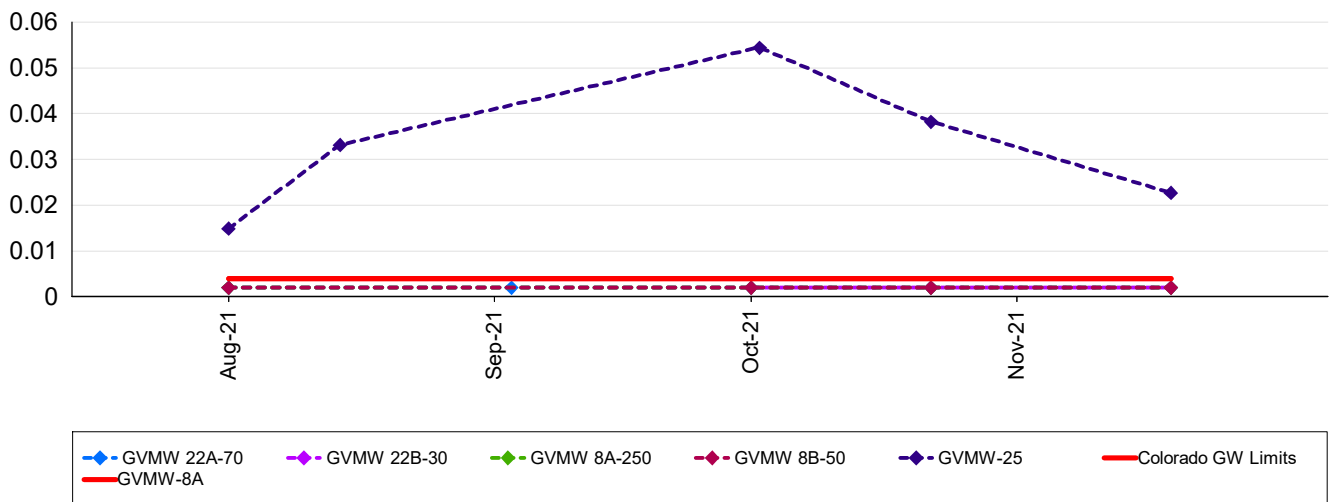
: Arsenic - Dissolved (mg/L)



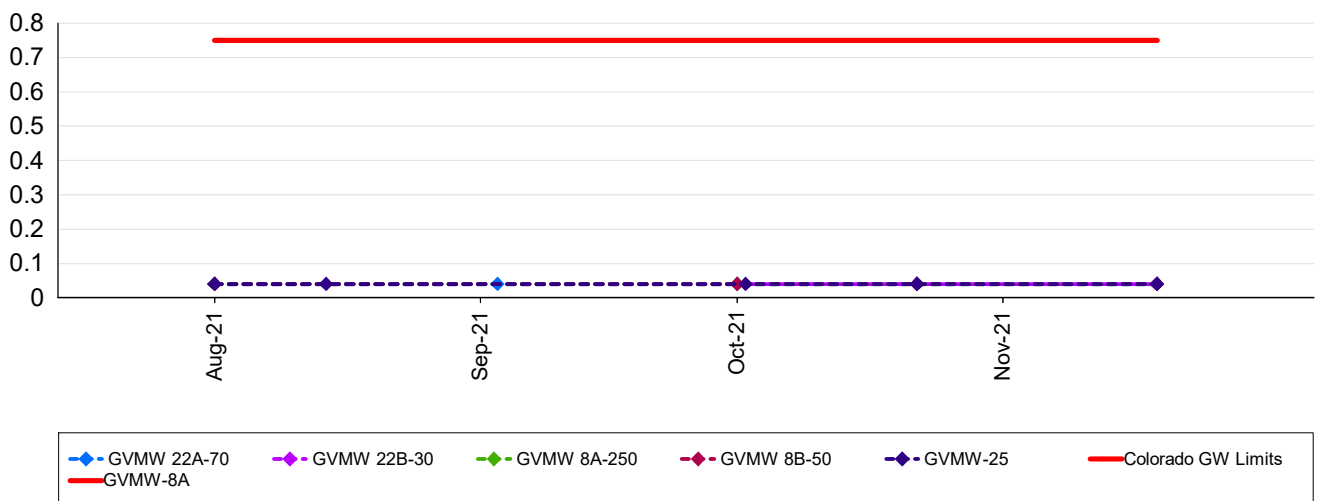
: Barium - Dissolved (mg/L)



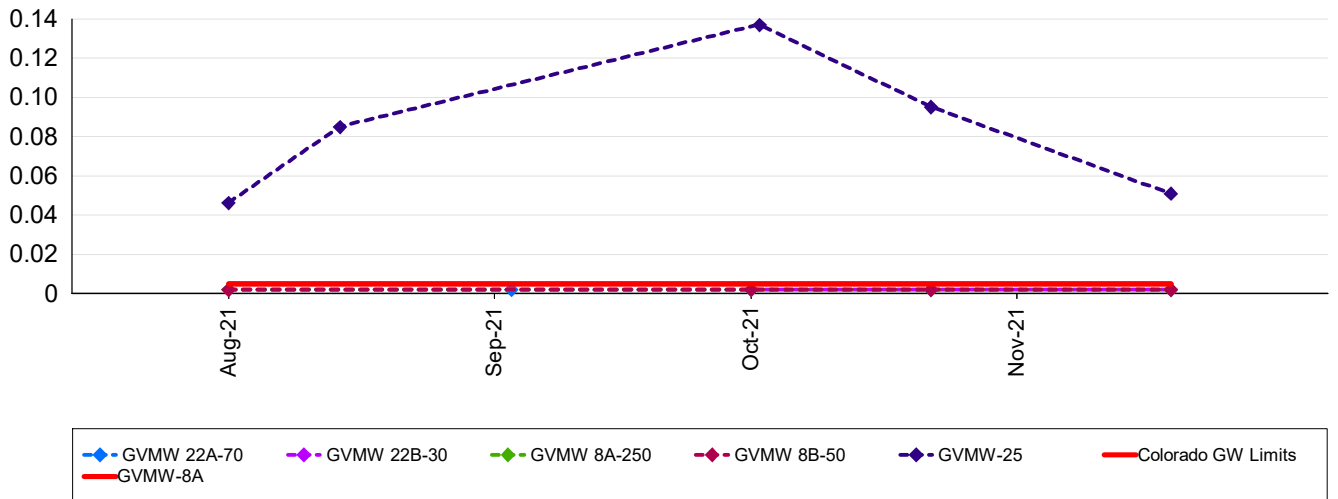
: Beryllium - Dissolved (mg/L)



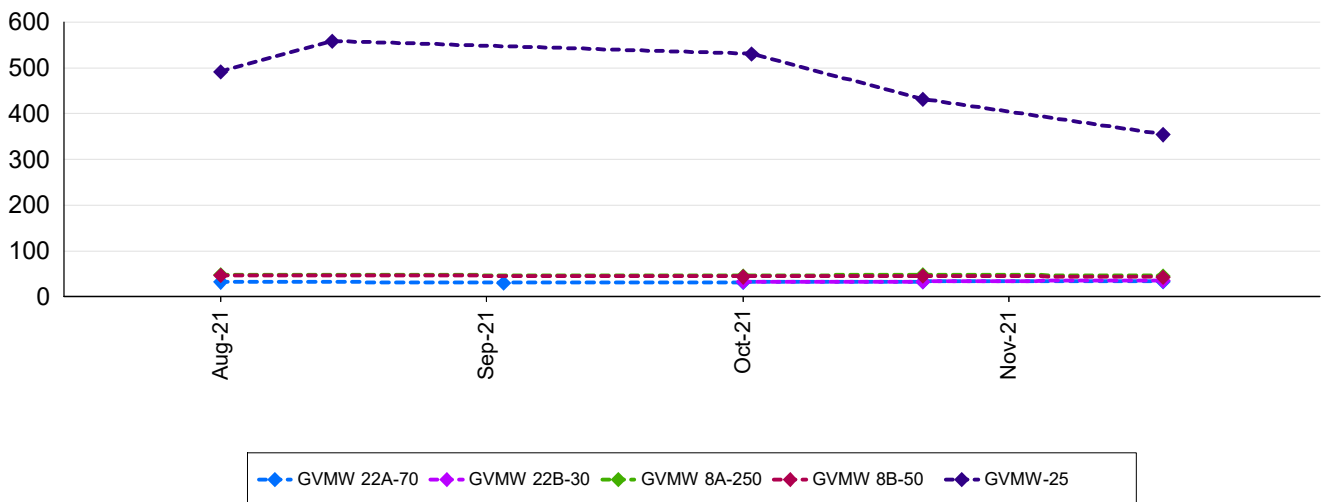
: Boron - Dissolved (mg/L)



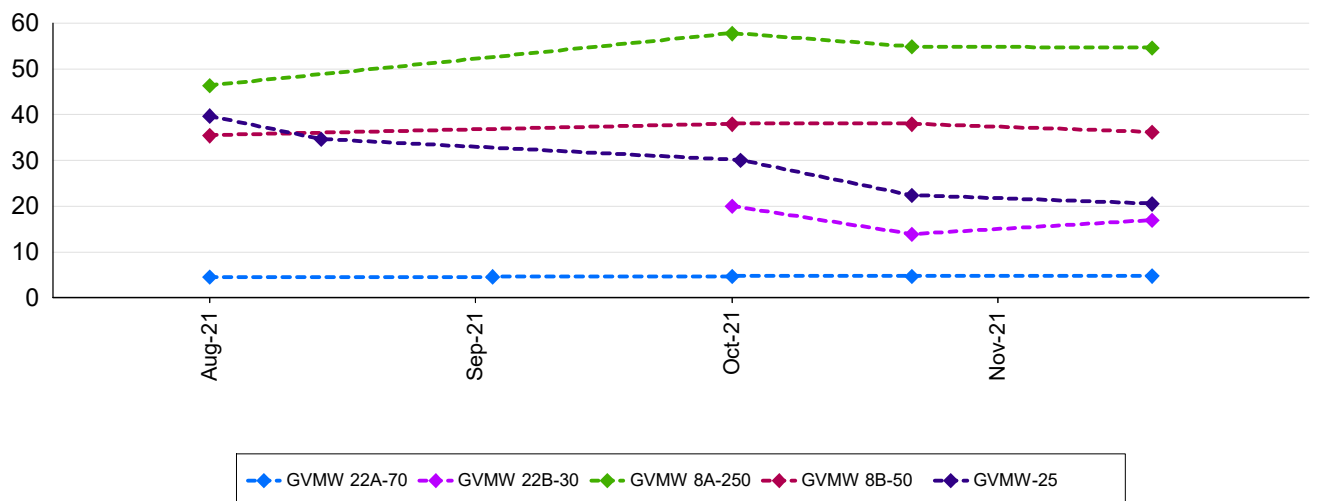
: Cadmium - Dissolved (mg/L)



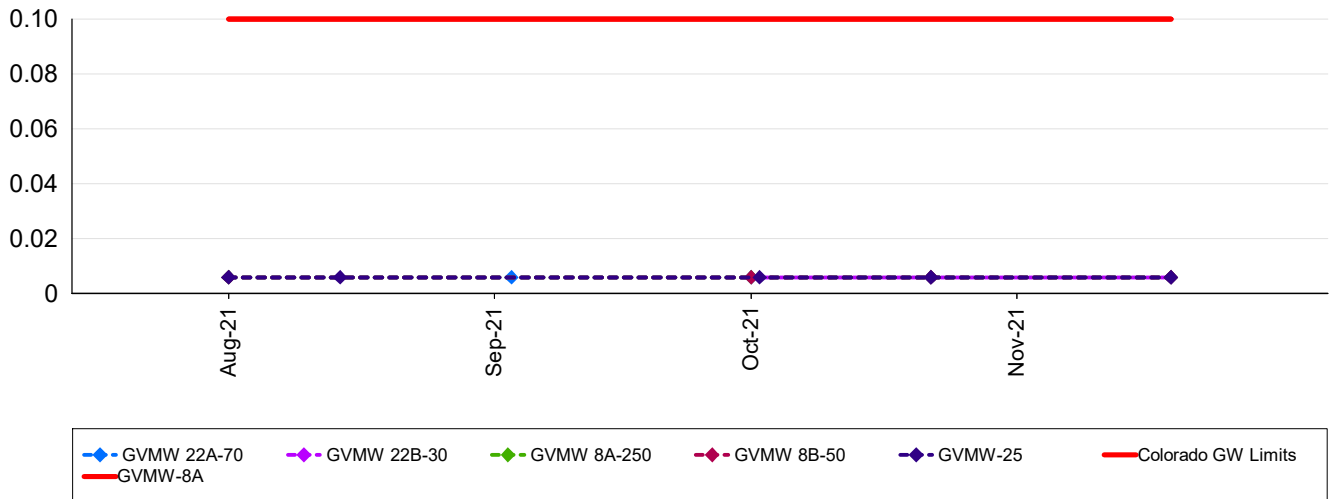
: Calcium - Total Recoverable (mg/L)



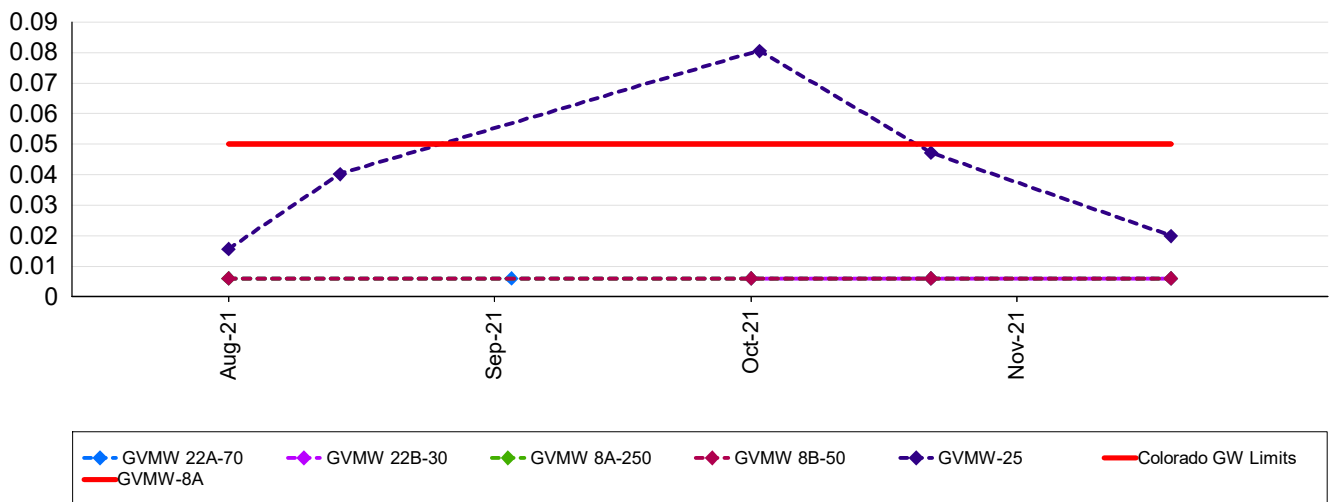
: Chloride - Total (mg/L)



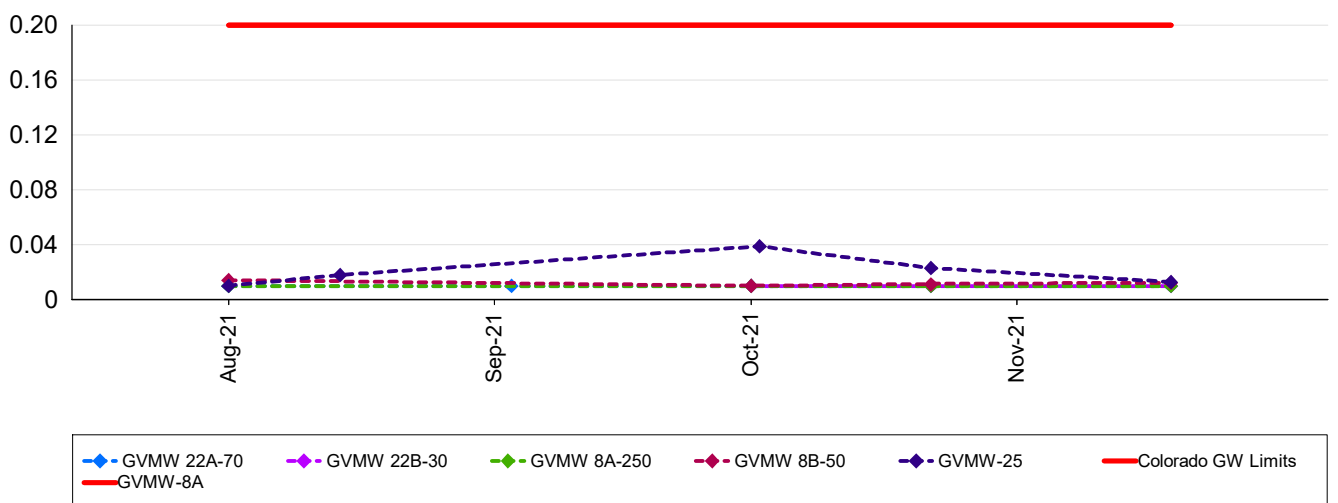
: Chromium - Dissolved (mg/L)



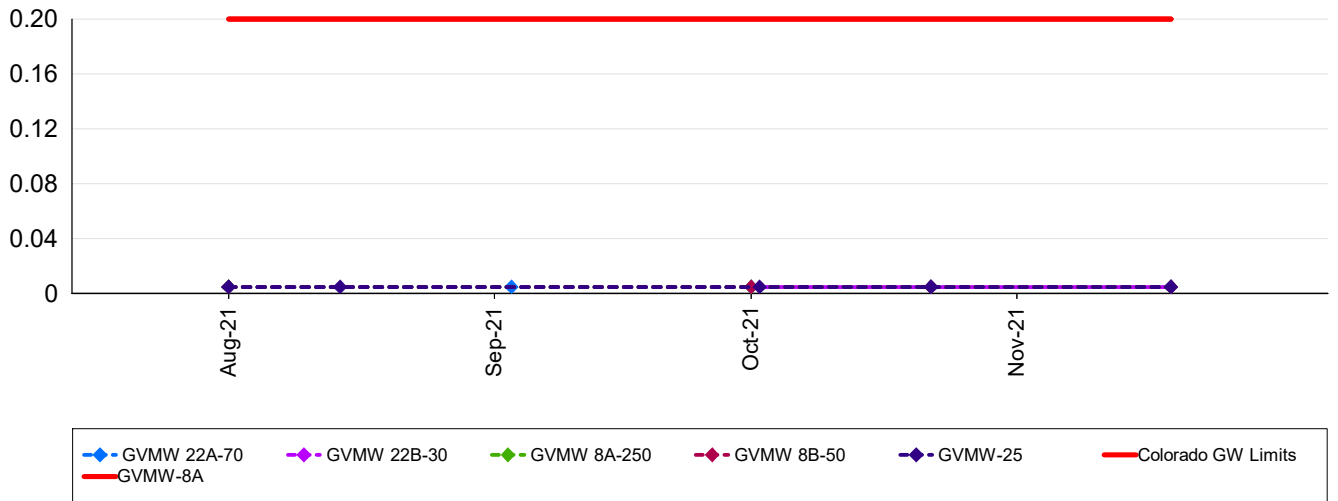
: Cobalt - Dissolved (mg/L)



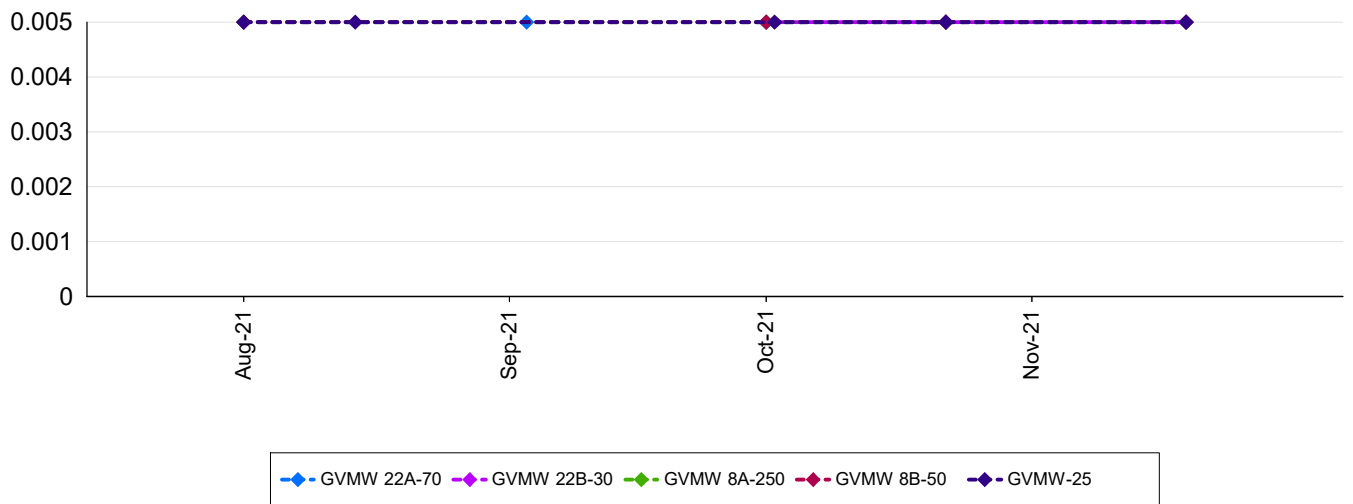
: Copper - Dissolved (mg/L)



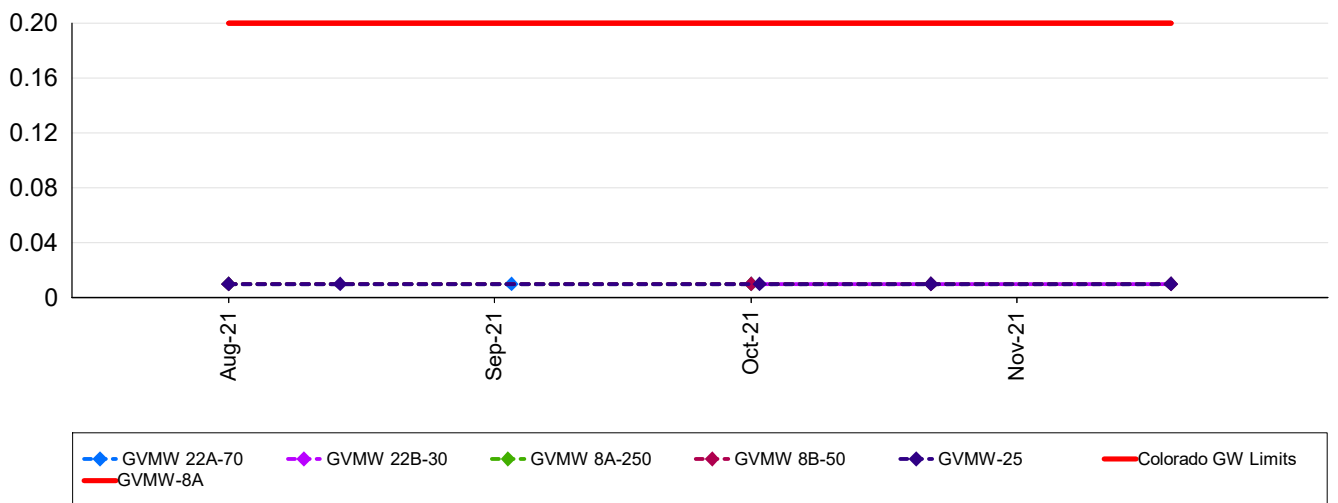
: Cyanide - Free (mg/L)



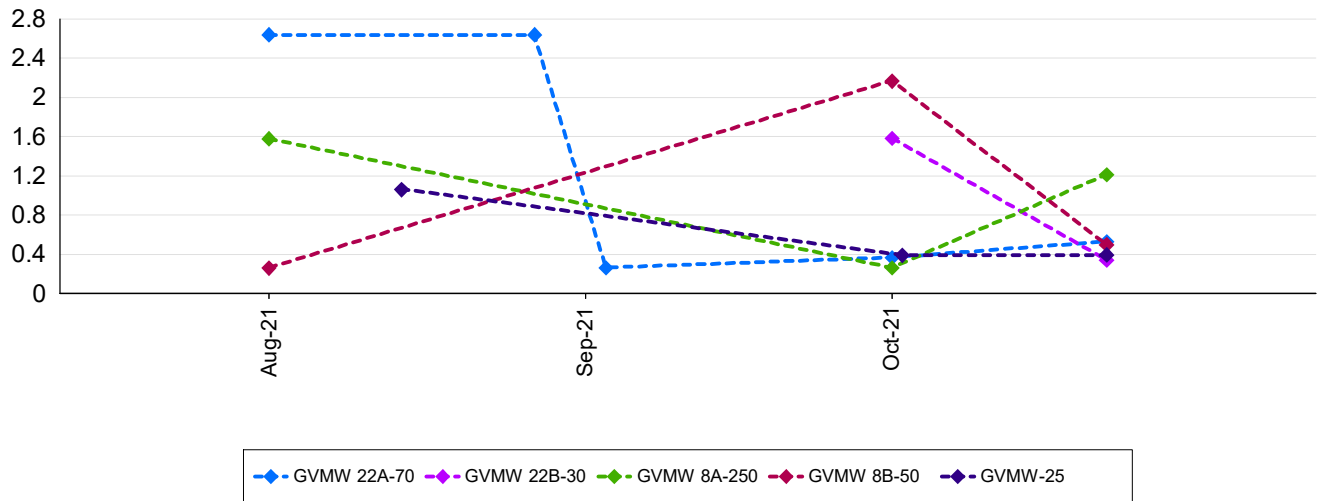
: Cyanide - Total (mg/L)



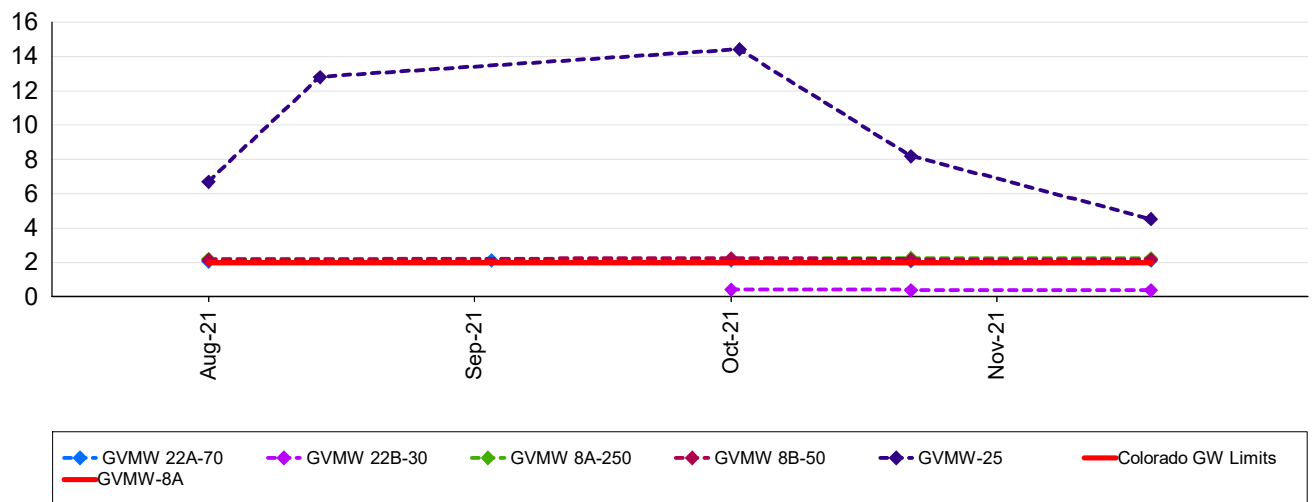
: Cyanide - WAD (mg/L)



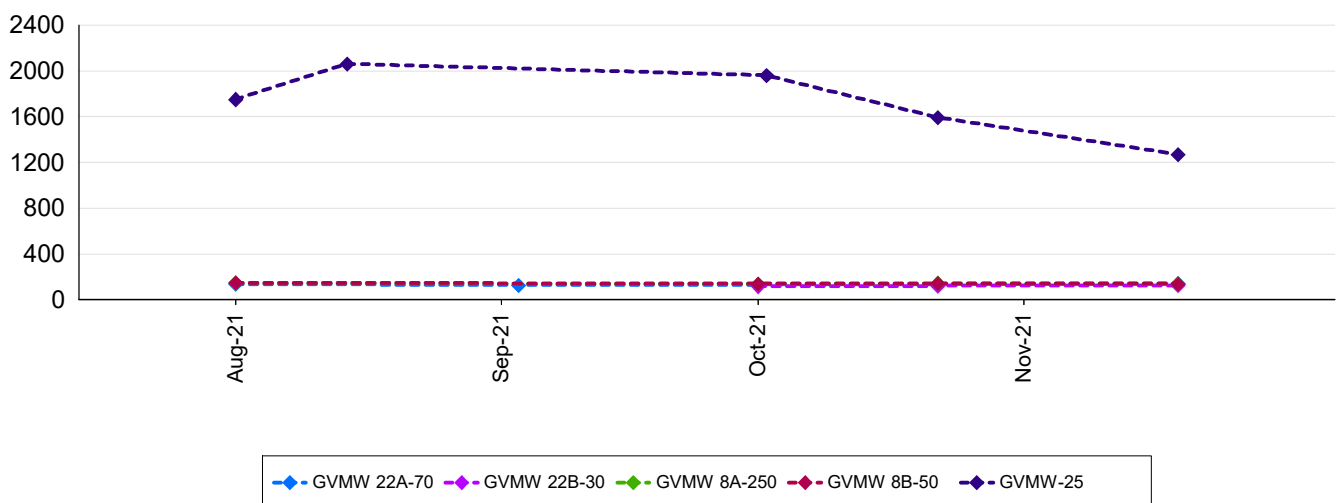
: Flow (gpm)



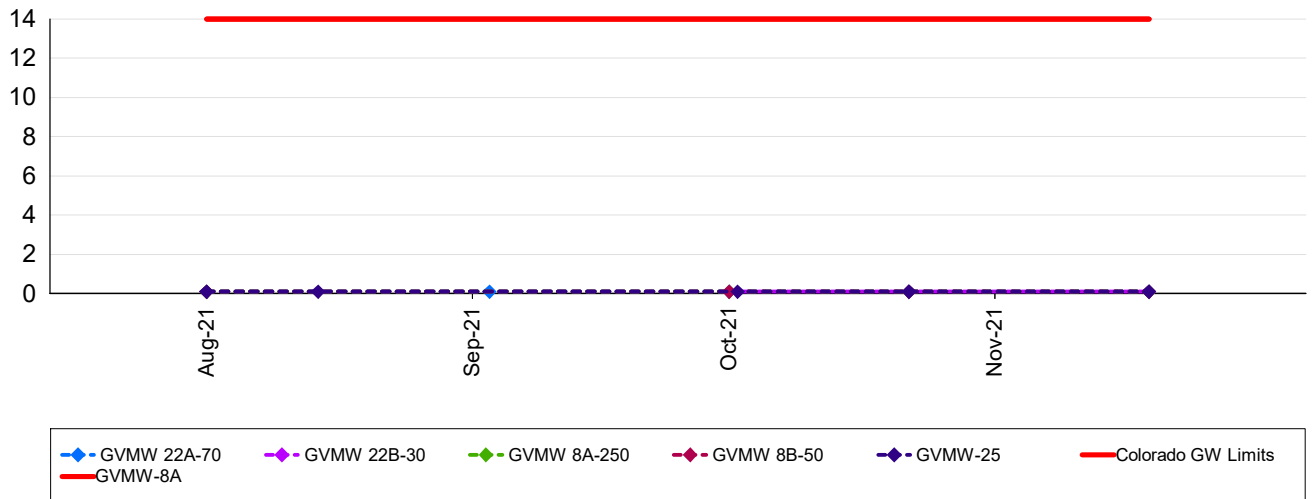
: Fluoride - Total F (mg/L)



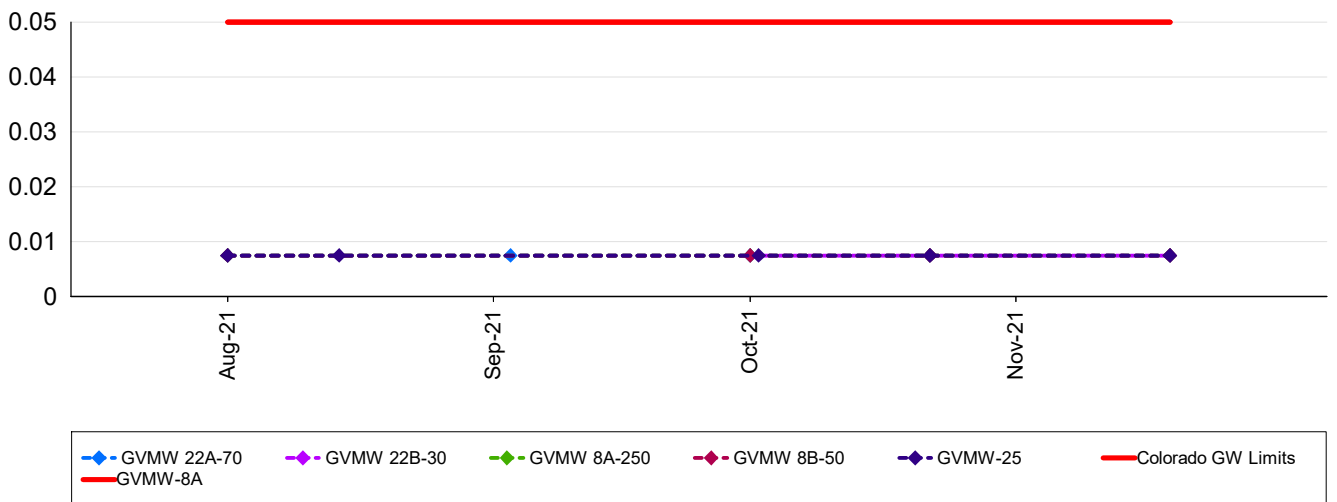
: Hardness - Total as CaCO3 (mg/L)



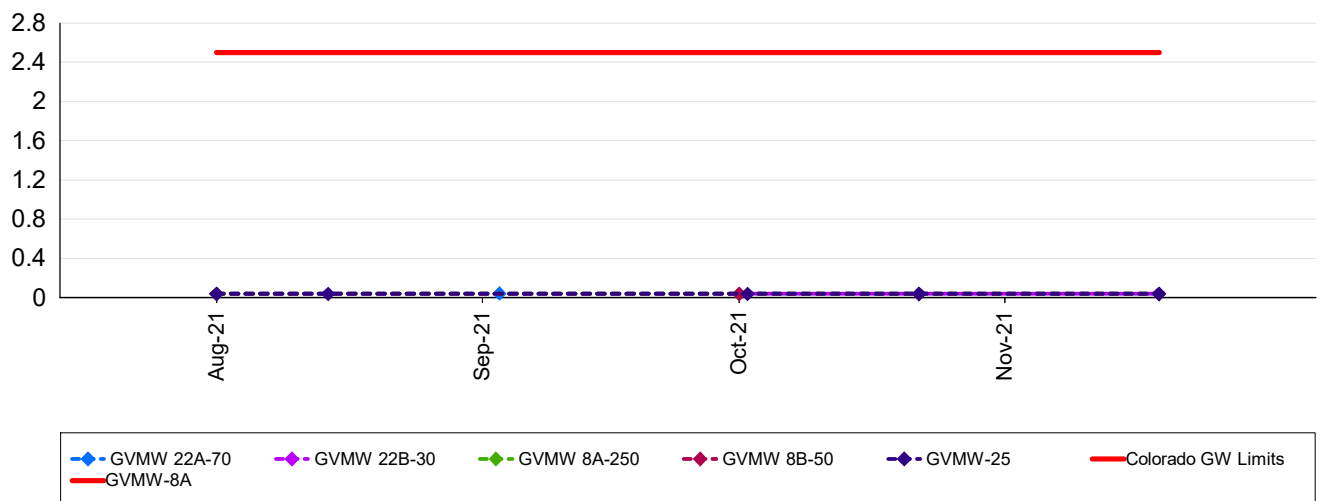
: Iron - Dissolved (mg/L)



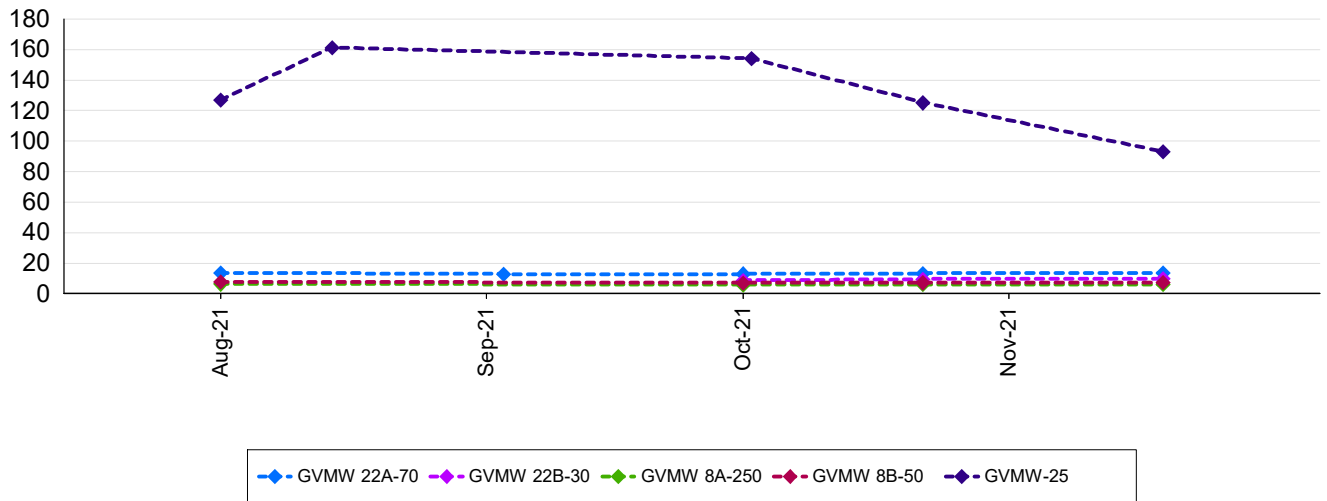
: Lead - Dissolved (mg/L)



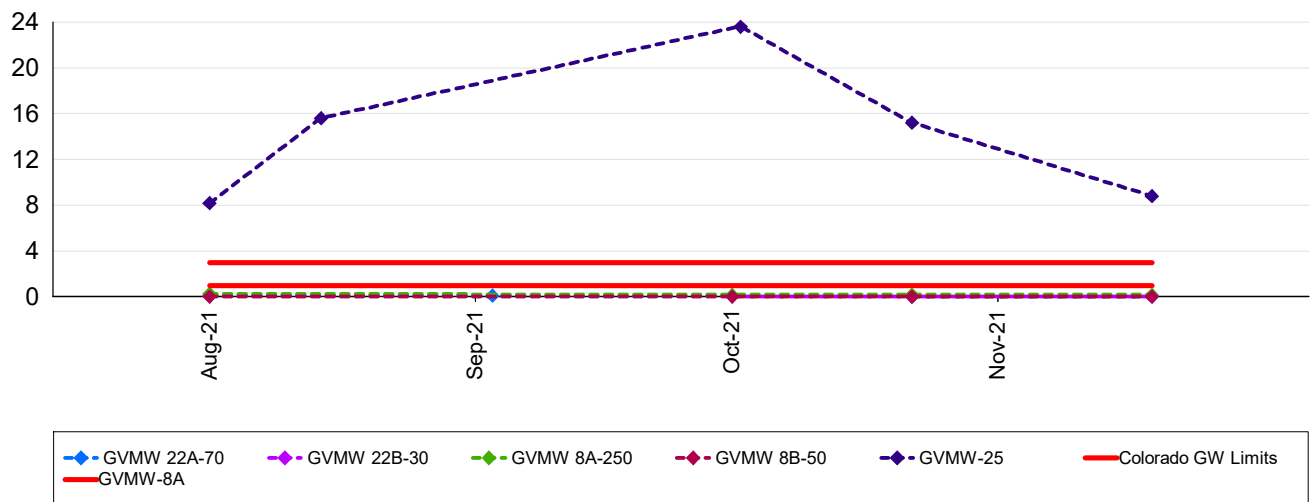
: Lithium - Dissolved (mg/L)



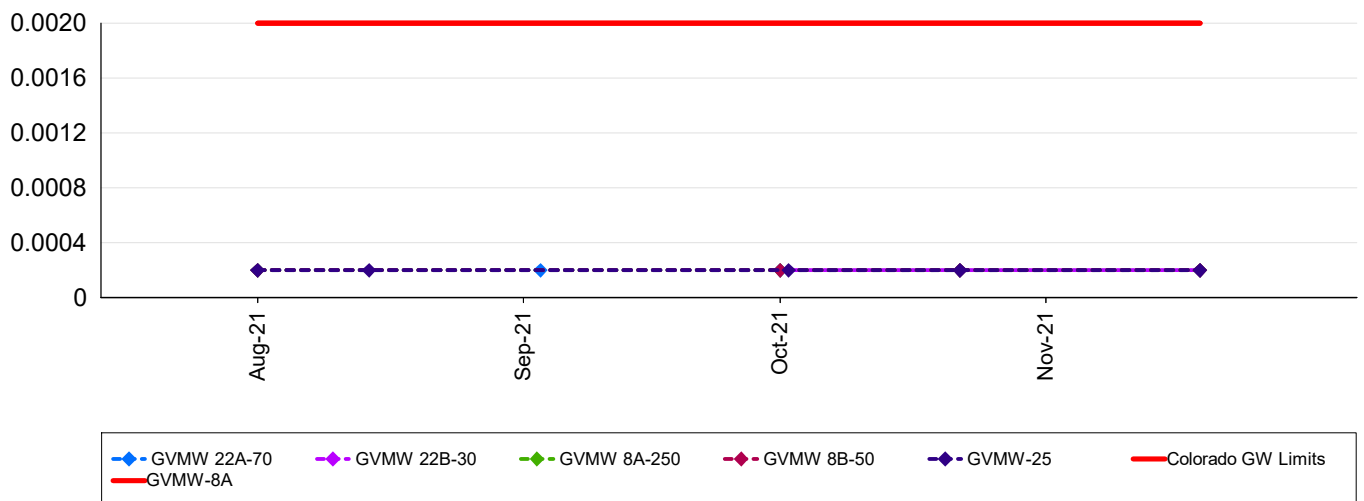
: Magnesium - Total Recoverable (mg/L)



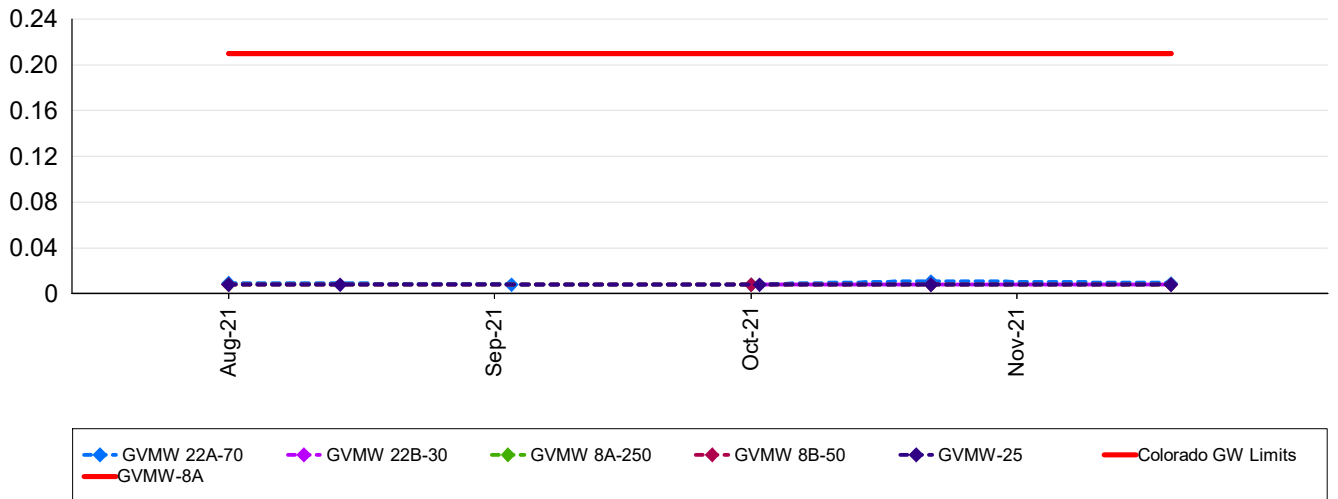
: Manganese - Dissolved (mg/L)



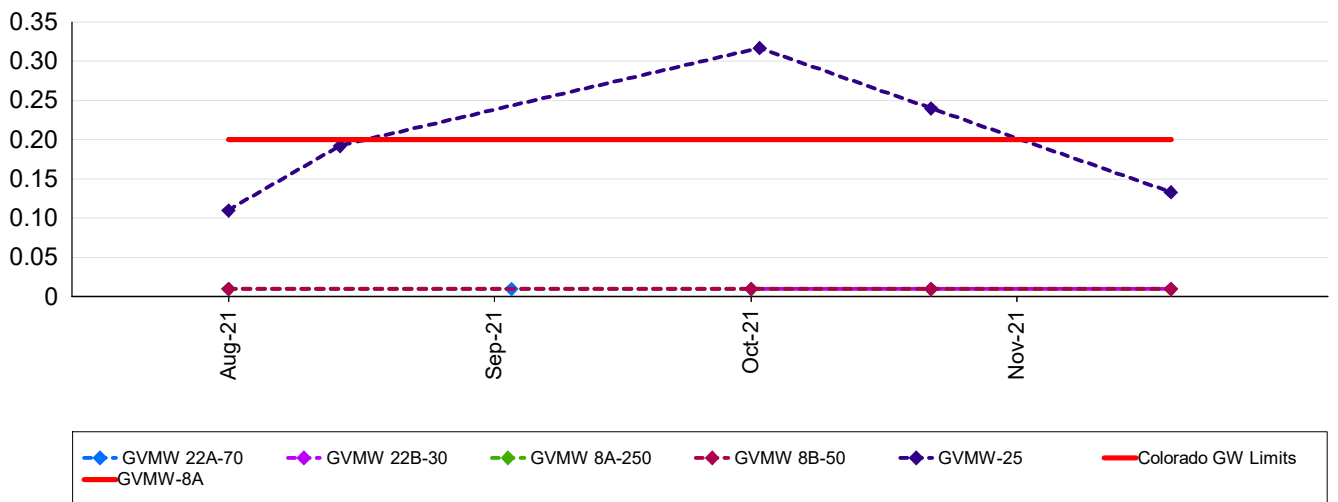
: Mercury - Dissolved (mg/L)



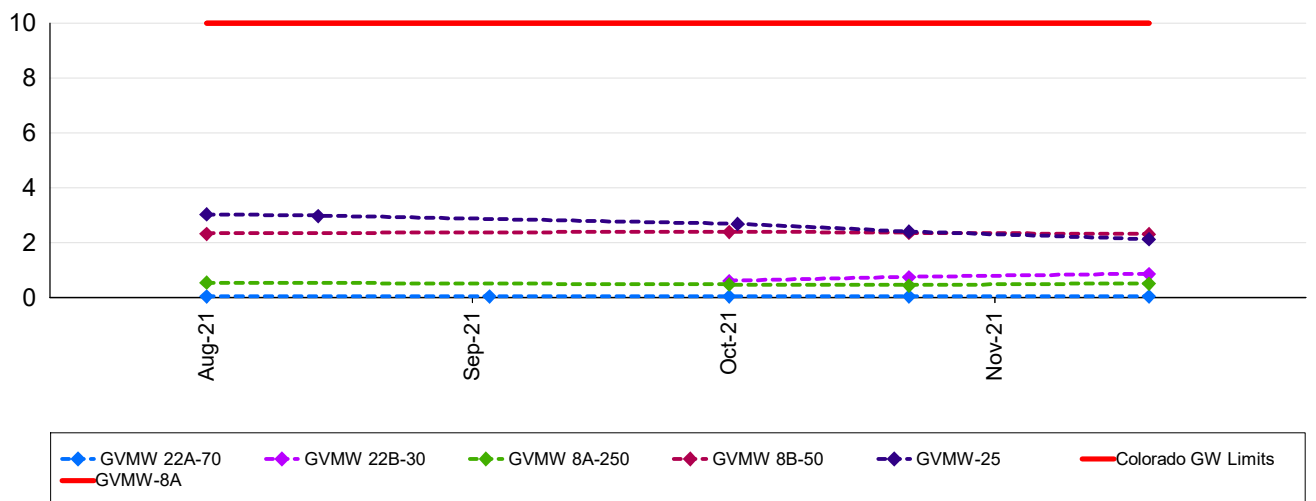
: Molybdenum - Dissolved (mg/L)



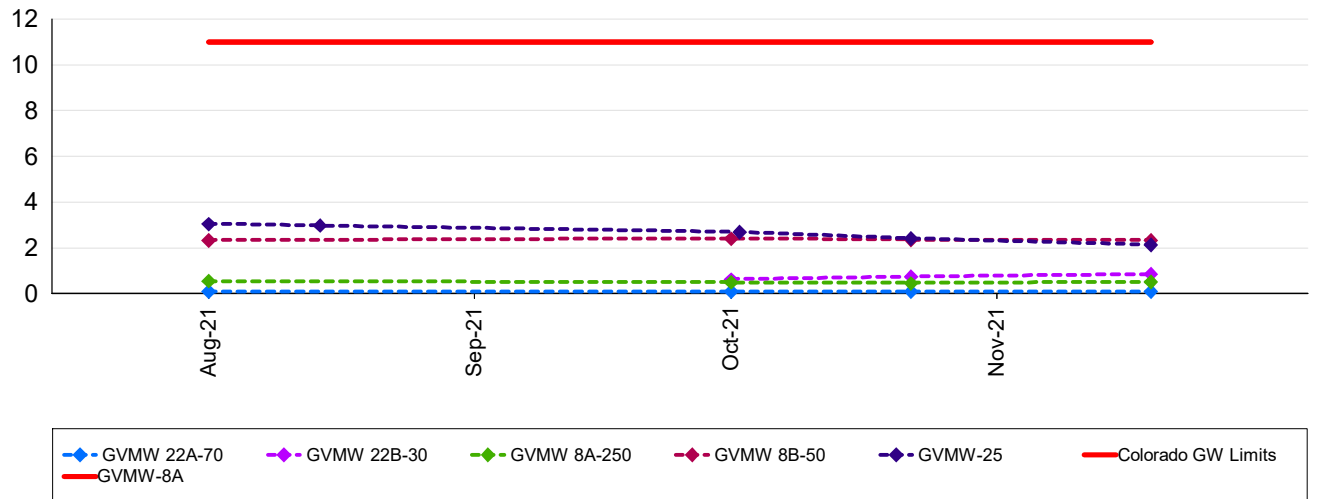
: Nickel - Dissolved (mg/L)



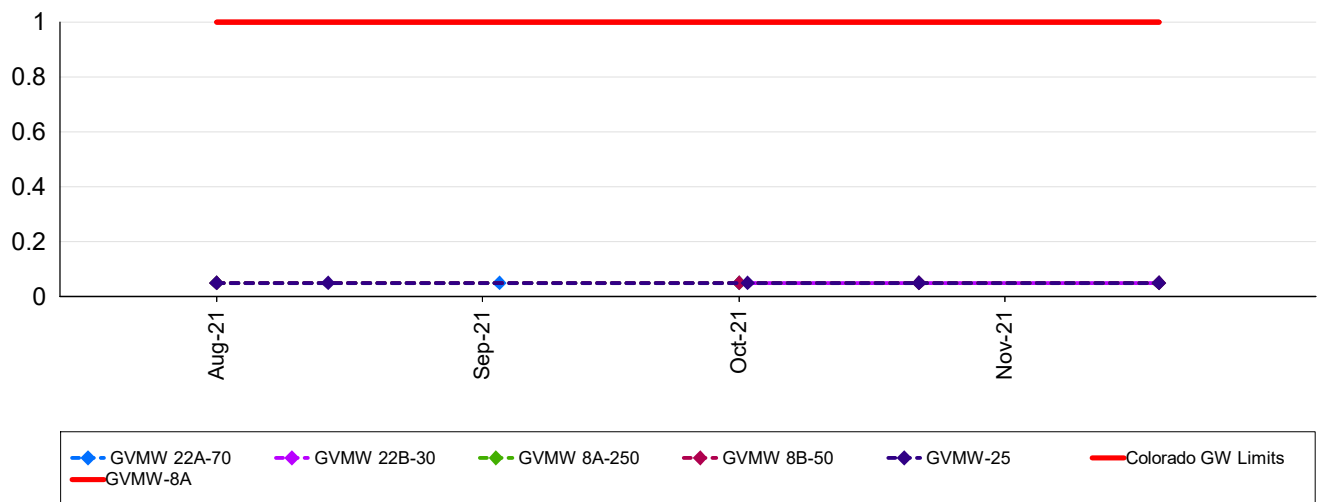
: Nitrate as Nitrogen (mg/L)



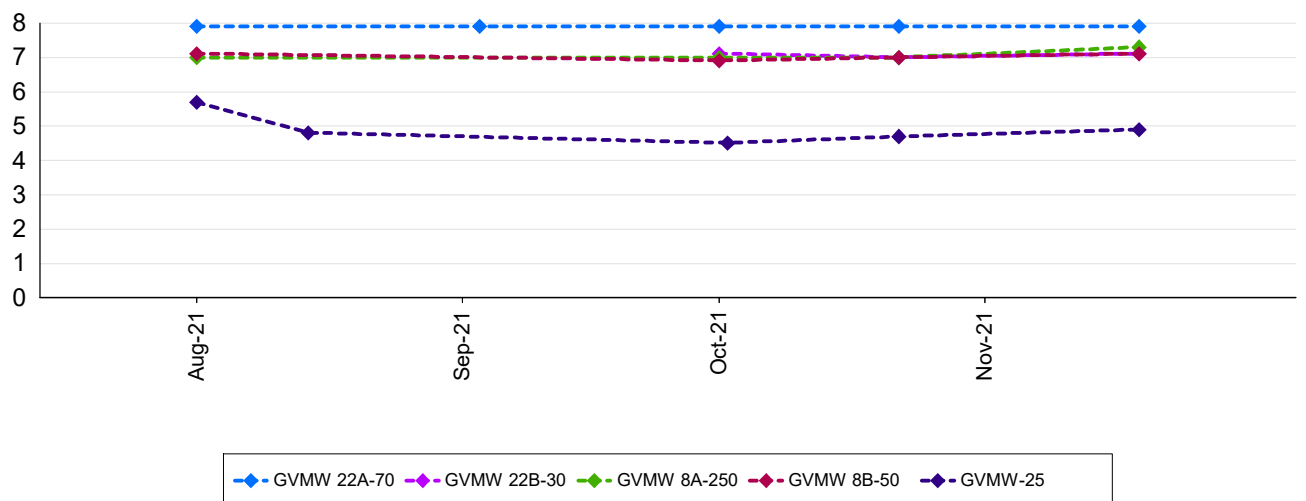
: Nitrite + Nitrate as Nitrogen (mg/L)



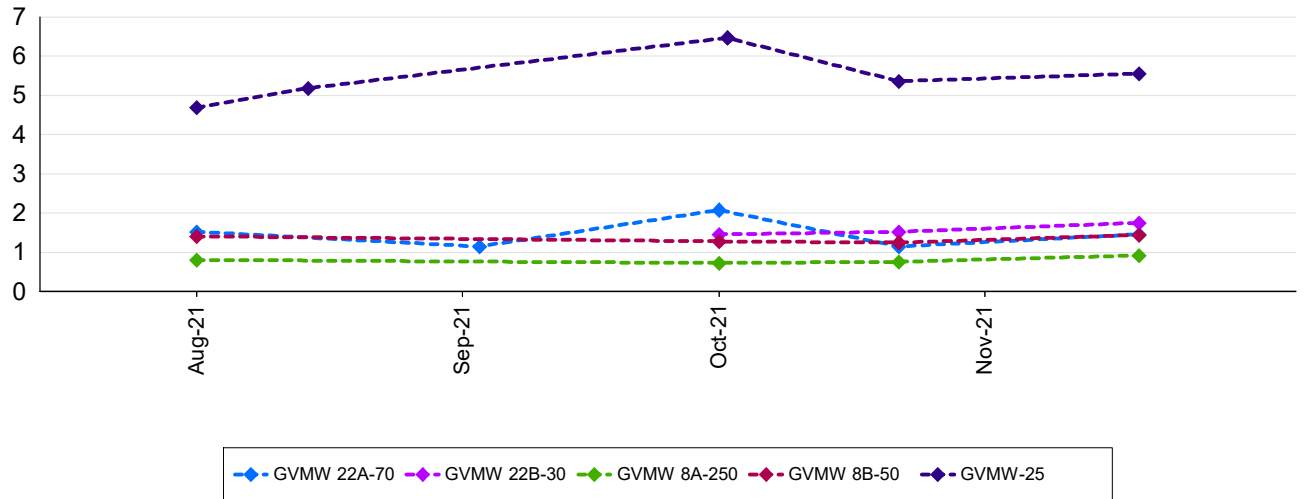
: Nitrite as Nitrogen (mg/L)



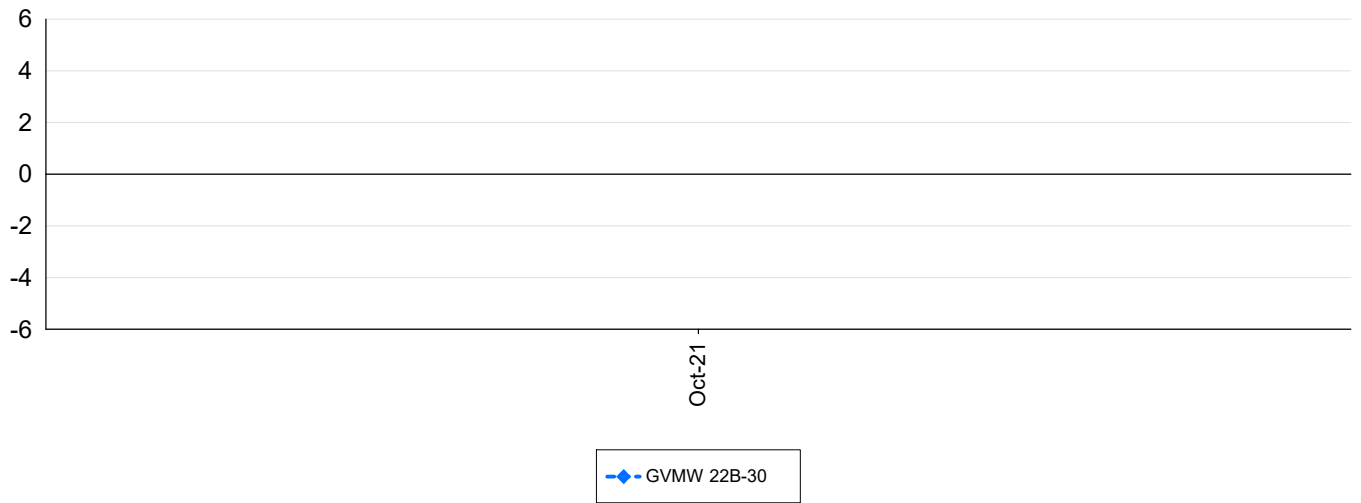
: pH Lab (pH unit)



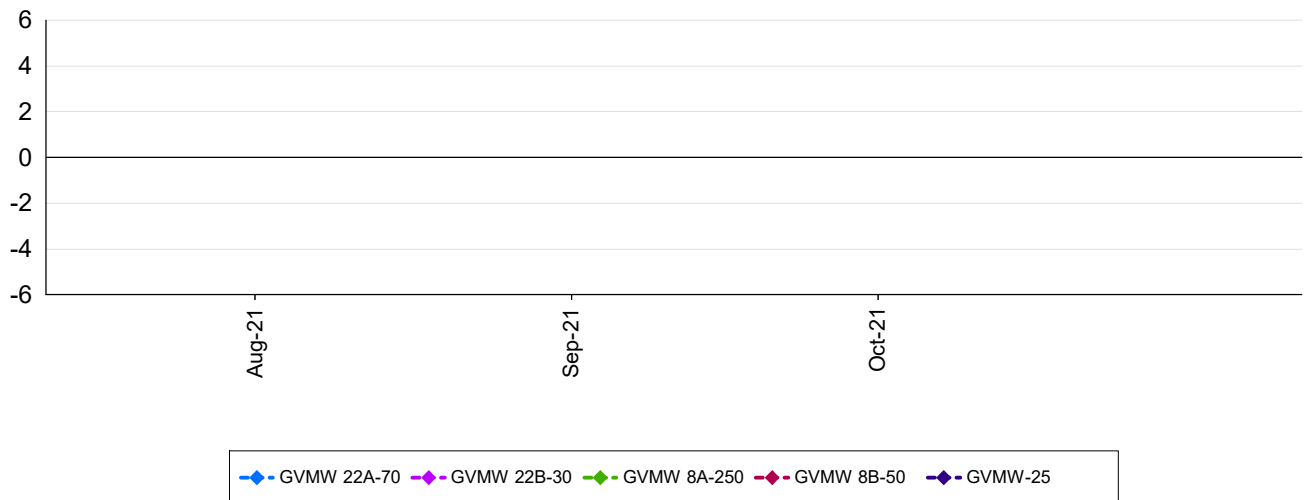
: Potassium - Total Recoverable in Water (mg/L)



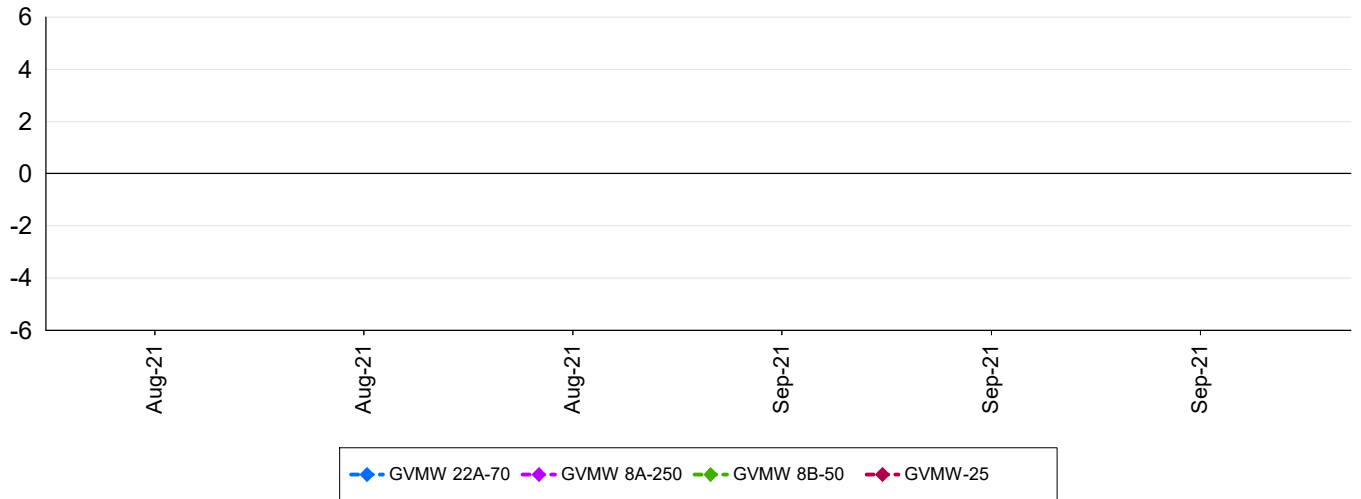
: Sample Comment



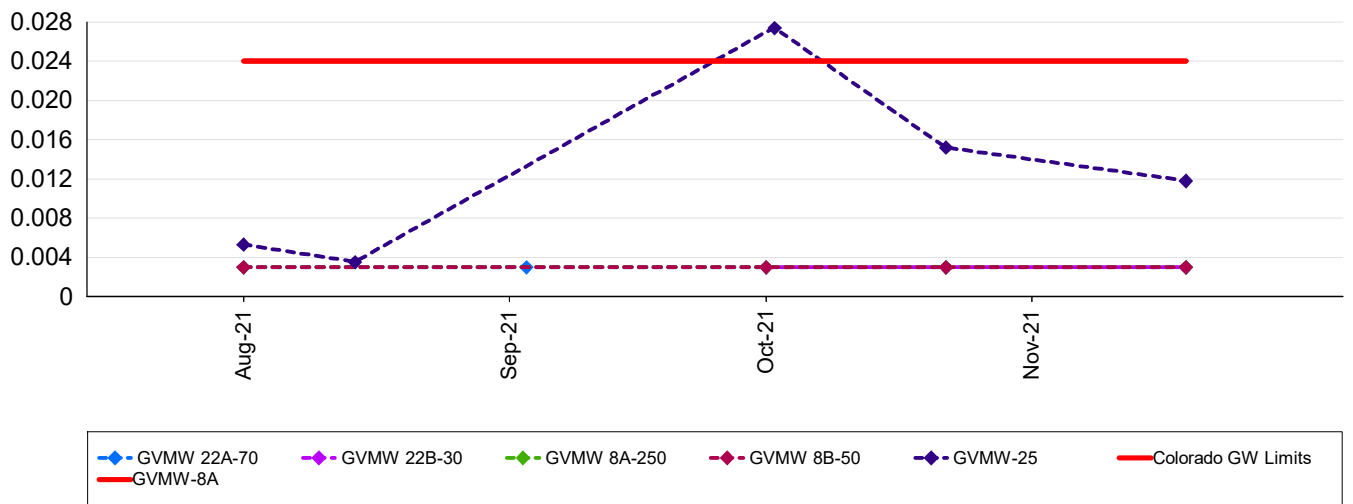
: Sample Taken



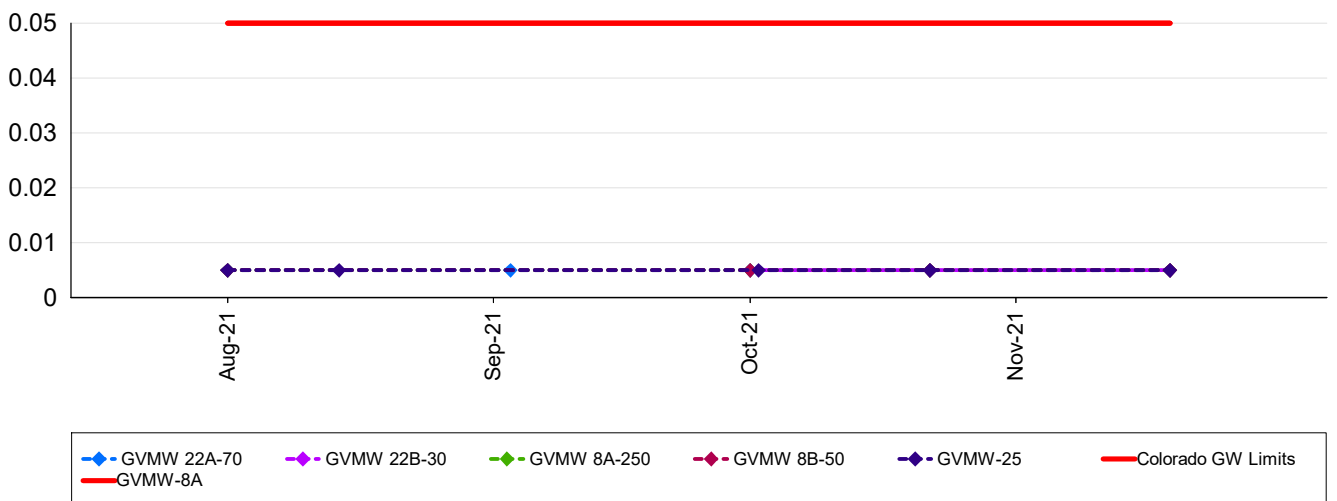
: Sampling Method



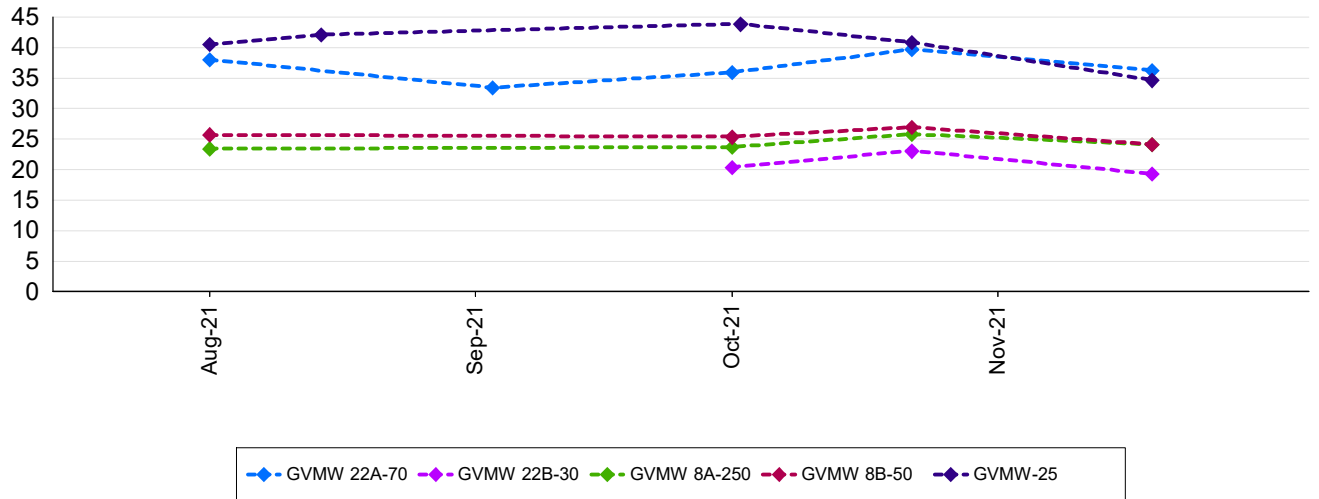
: Selenium - Dissolved (mg/L)



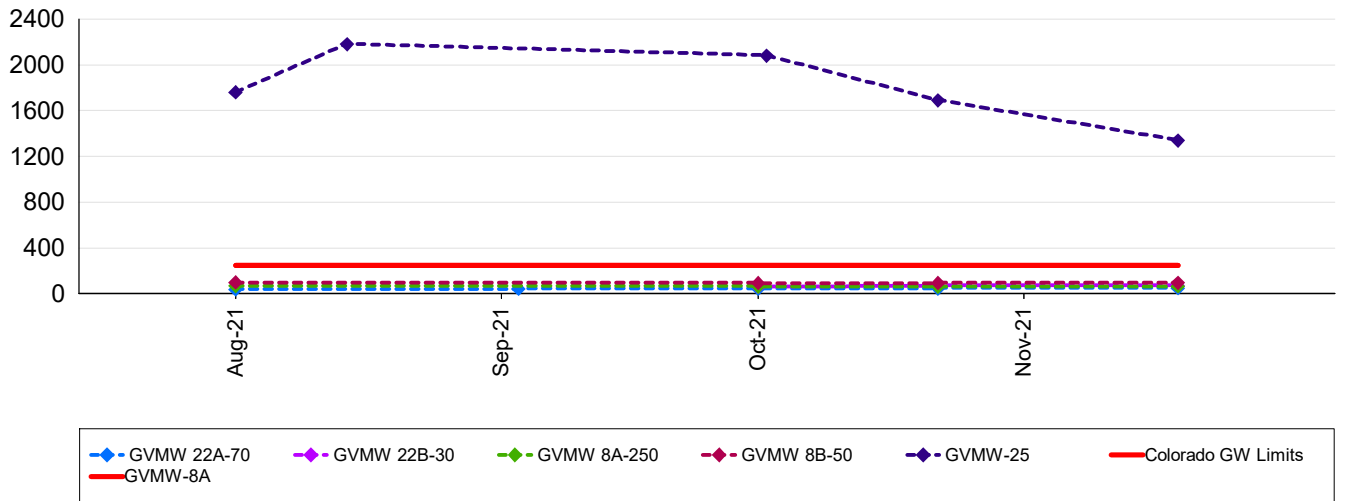
: Silver - Dissolved (mg/L)



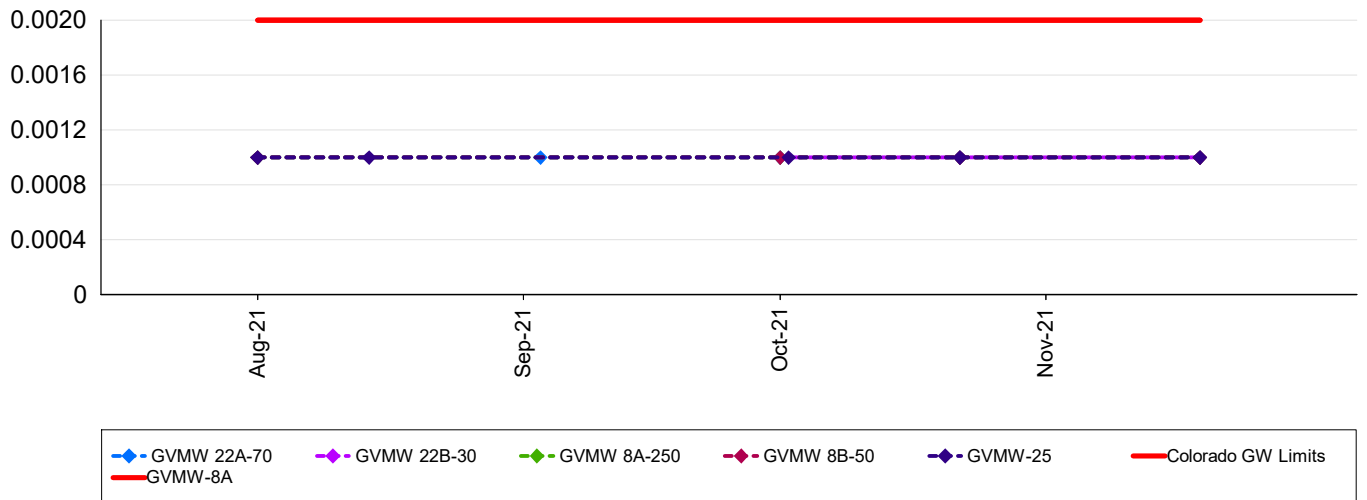
: Sodium - Dissolved (mg/L)



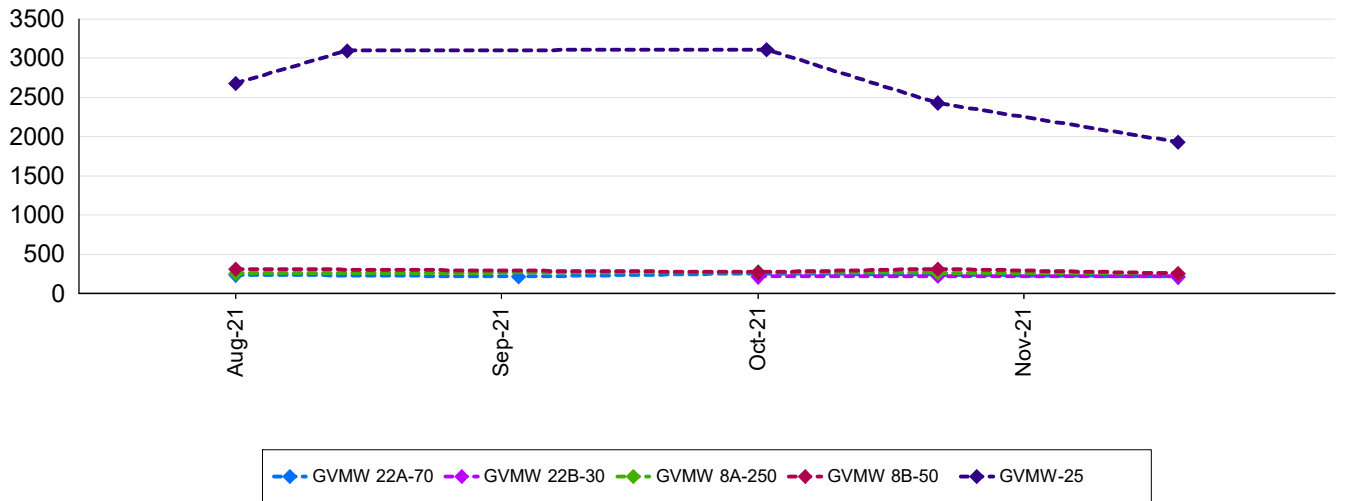
: Sulfate - Total (mg/L)



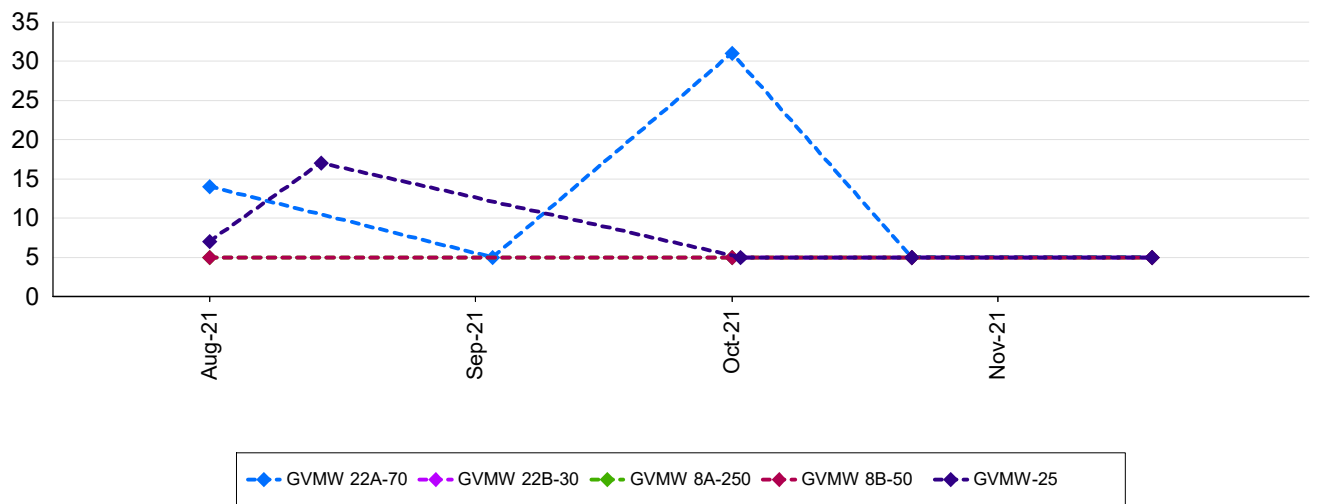
: Thallium - Dissolved (mg/L)



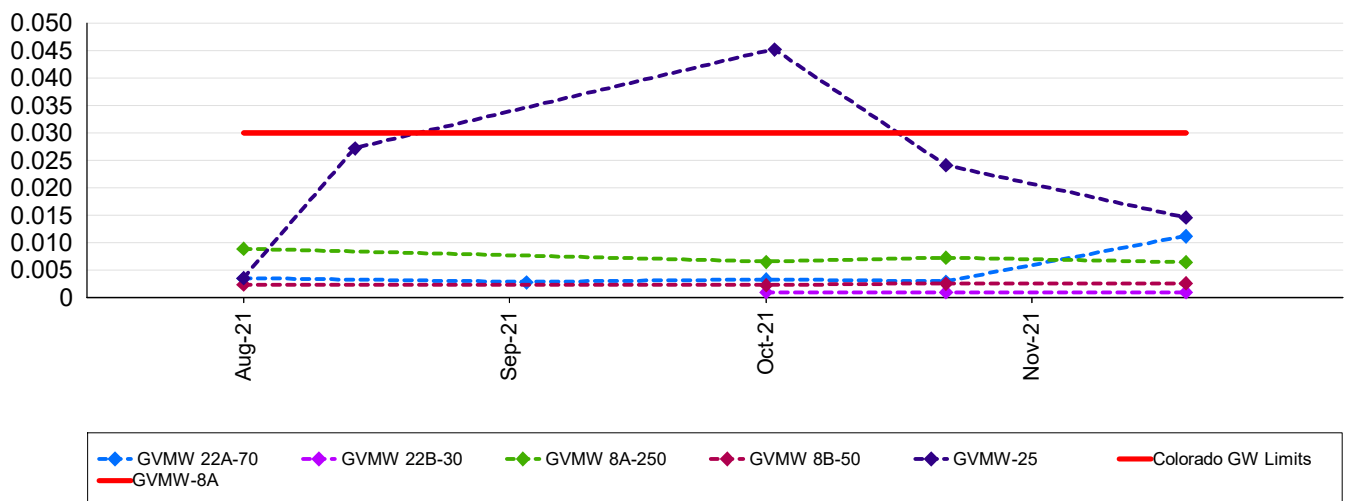
: Total Dissolved Solids (mg/L)



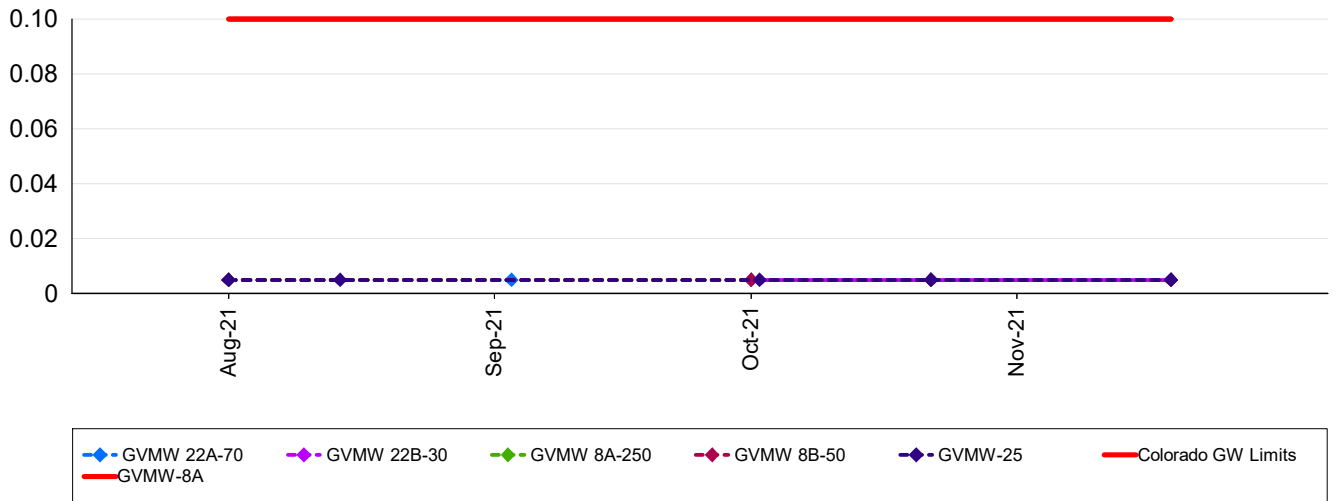
: Total Suspended Solids (mg/L)



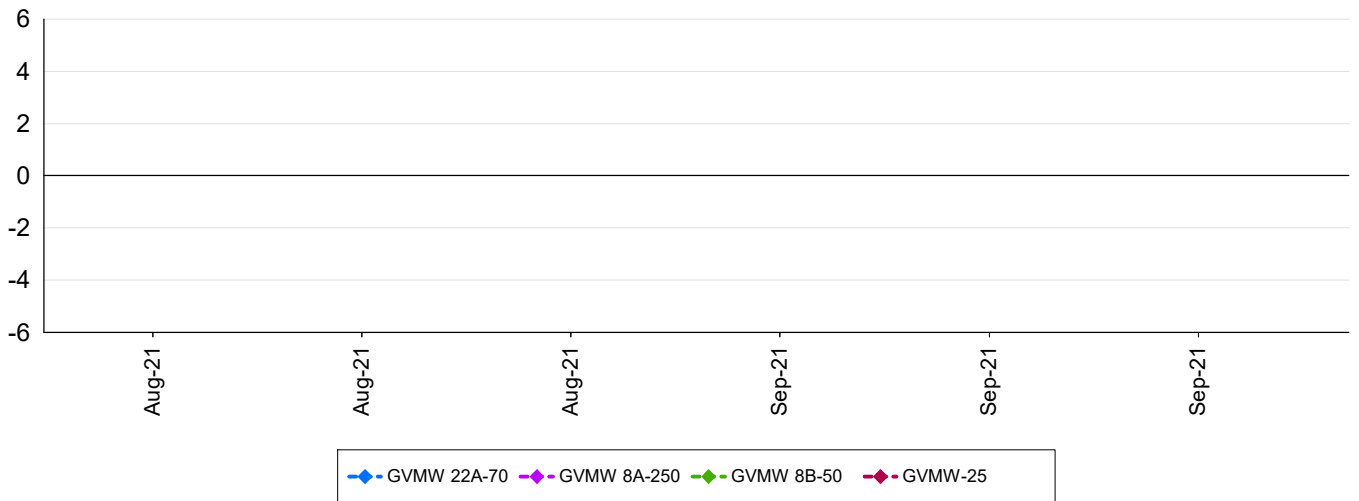
: Uranium - Dissolved (mg/L)



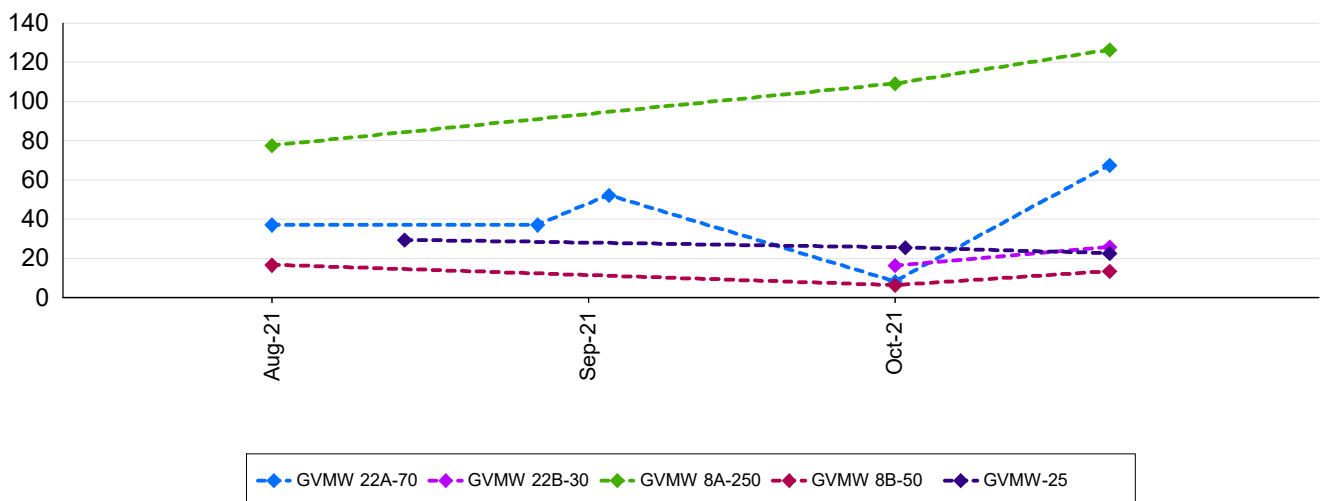
: Vanadium - Dissolved (mg/L)



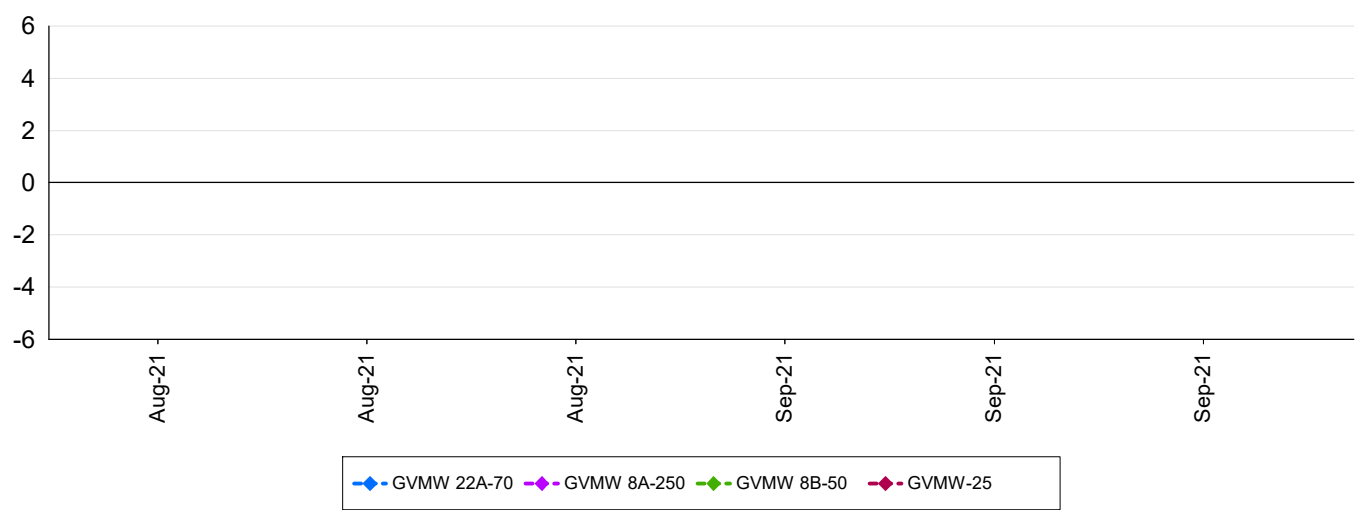
: Water Appearance



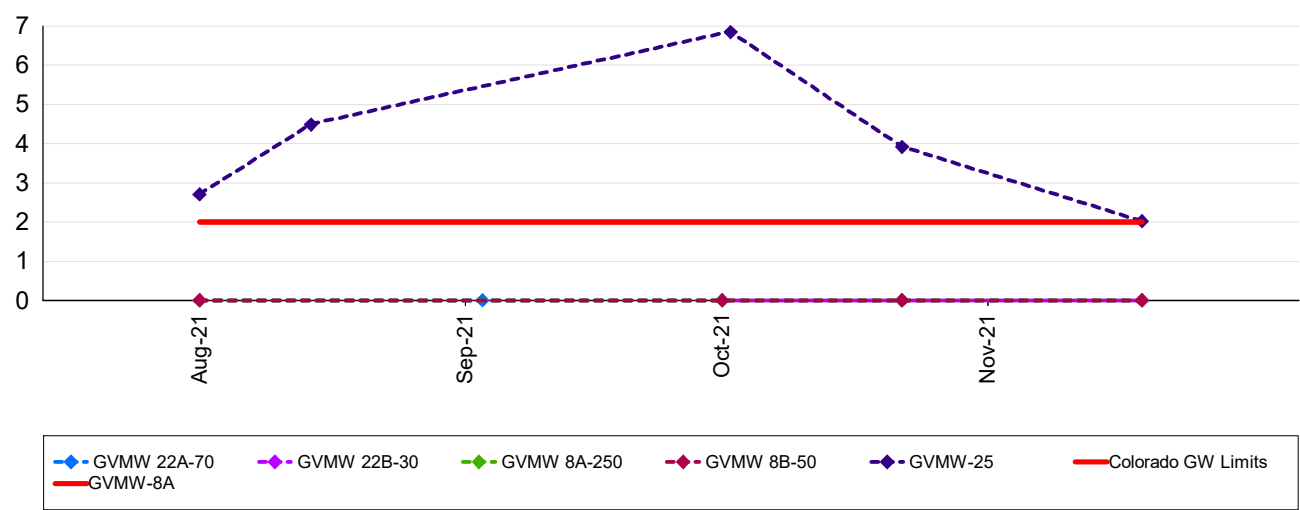
: Water Level Distance From Measuring Point (ft)



: Weather Conditions



: Zinc - Dissolved (mg/L)





One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

www.svl.net

Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022

Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GVMW-25	X1L0163-01	Ground Water	07-Dec-21 13:35	BOD	09-Dec-2021	
GVMW-22B	X1L0163-02	Ground Water	07-Dec-21 12:20	BOD	09-Dec-2021	
GVMW-22A	X1L0163-03	Ground Water	07-Dec-21 11:20	BOD	09-Dec-2021	
GVMW-8B	X1L0163-04	Ground Water	07-Dec-21 10:15	BOD	09-Dec-2021	
GVMW-8A	X1L0163-05	Ground Water	07-Dec-21 07:50	BOD	09-Dec-2021	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.

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

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

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

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

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Case Narrative: X1L0163

The state of origin only accredits for drinking water analyses.

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



Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

Client Sample ID: **GVMW-25**

Sampled: 07-Dec-21 13:35

Received: 09-Dec-21

Sampled By: BOD

SVL Sample ID: **X1L0163-01 (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	354	mg/L	0.100	0.035		X150187	AS	12/27/21 13:25	
EPA 200.7	Magnesium	92.9	mg/L	0.500	0.045		X150187	AS	12/28/21 11:48	
EPA 200.7	Potassium	5.55	mg/L	0.50	0.09		X150187	AS	12/27/21 13:25	
SM 2340 B	Hardness (as CaCO3)	1270	mg/L	2.31	0.271		N/A		12/28/21 11:48	

Metals (Dissolved)

EPA 200.7	Aluminum	9.34	mg/L	0.080	0.054		X150184	AS	12/28/21 13:00	
EPA 200.7	Barium	0.0159	mg/L	0.0020	0.0019		X150184	AS	12/28/21 13:00	
EPA 200.7	Beryllium	0.0227	mg/L	0.00200	0.00080		X150184	AS	12/28/21 13:00	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X150184	AS	12/28/21 13:00	
EPA 200.7	Cadmium	0.0510	mg/L	0.0020	0.0016		X150184	AS	12/28/21 13:00	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X150184	AS	12/28/21 13:00	
EPA 200.7	Cobalt	0.0199	mg/L	0.0060	0.0046		X150184	AS	12/28/21 13:00	
EPA 200.7	Copper	0.0128	mg/L	0.0100	0.0027		X150184	AS	12/28/21 13:00	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X150184	AS	12/28/21 13:00	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X150184	AS	12/28/21 13:00	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X150184	AS	12/28/21 13:00	
EPA 200.7	Manganese	8.79	mg/L	0.0080	0.0034		X150184	AS	12/28/21 13:00	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X150184	AS	12/28/21 13:00	
EPA 200.7	Nickel	0.133	mg/L	0.0100	0.0048		X150184	AS	12/28/21 13:00	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X150184	AS	12/28/21 13:00	
EPA 200.7	Sodium	34.6	mg/L	0.50	0.12		X150184	AS	12/28/21 13:00	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X150184	AS	12/28/21 13:00	
EPA 200.7	Zinc	2.03	mg/L	0.0100	0.0054		X150184	AS	12/28/21 13:00	
EPA 200.8	Antimony	< 0.00300	mg/L	0.00300	0.00072		X150193	KAH	12/30/21 15:53	
EPA 200.8	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X150193	KAH	12/30/21 15:53	
EPA 200.8	Selenium	0.0118	mg/L	0.00300	0.00024		X150193	KAH	12/30/21 15:53	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X150193	KAH	12/30/21 15:53	
EPA 200.8	Uranium	0.0146	mg/L	0.00100	0.000052		X150193	KAH	12/31/21 15:09	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X150216	ATM	12/15/21 08:30	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X150239	HJL	12/14/21 11:43	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X151030	KJR	12/17/21 17:35	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X152045	KJR	12/21/21 21:58	
OIA 1677	Cyanide (WAD)	< 0.0100	mg/L	0.0100	0.0010		X150241	HJL	12/15/21 10:50	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X202007	EKE	01/03/22 11:30	H1
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:05	H1
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:05	H1
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:05	H1
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:05	H1
SM 2540 C	Total Diss. Solids	1930	mg/L	40			X150174	TJL	12/10/21 15:30	D2
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X150175	TJL	12/10/21 15:30	
SM 4500 H B	pH @21.0°C	4.9	pH Units				X153091	EKE	12/30/21 12:05	H5



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Kellogg, ID 83837-0929

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022

Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

Client Sample ID: **GVMW-25**

Sampled: 07-Dec-21 13:35

SVL Sample ID: **X1L0163-01 (Ground Water)**

Received: 09-Dec-21

Sample Report Page 2 of 2

Sampled By: BOD

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	20.5	mg/L	10.0	7.00	50	X150177	RS	12/09/21 15:59	D2
EPA 300.0	Fluoride	4.52	mg/L	0.100	0.062		X150177	RS	12/09/21 15:43	
EPA 300.0	Nitrate as N	2.13	mg/L	0.050	0.043		X150177	RS	12/09/21 15:43	H3
EPA 300.0	Nitrate+Nitrite as N	2.13	mg/L	0.100	0.074		X150177	RS	12/09/21 14:00	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X150177	RS	12/09/21 15:43	H3
EPA 300.0	Sulfate as SO4	1340	mg/L	15.0	9.00	50	X150177	RS	12/09/21 15:59	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 28.4 meq/L Anion Sum: 29.0 meq/L C/A Balance: -1.14 % Calculated TDS: 1871 TDS/cTDS: 1.03

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

Dave Tryon
Project Manager



Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

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

Sampled: 07-Dec-21 12:20

Received: 09-Dec-21

Sampled By: BOD

SVL Sample ID: **X1L0163-02 (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	34.8	mg/L	0.100	0.035		X150187	AS	12/27/21 13:36	
EPA 200.7	Magnesium	9.70	mg/L	0.500	0.045		X150187	AS	12/28/21 11:58	
EPA 200.7	Potassium	1.75	mg/L	0.50	0.09		X150187	AS	12/27/21 13:36	
SM 2340 B	Hardness (as CaCO3)	127	mg/L	2.31	0.271		N/A		12/28/21 11:58	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X150184	AS	12/28/21 13:10	
EPA 200.7	Barium	0.0509	mg/L	0.0020	0.0019		X150184	AS	12/28/21 13:10	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X150184	AS	12/28/21 13:10	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X150184	AS	12/28/21 13:10	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X150184	AS	12/28/21 13:10	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X150184	AS	12/28/21 13:10	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X150184	AS	12/28/21 13:10	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X150184	AS	12/28/21 13:10	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X150184	AS	12/28/21 13:10	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X150184	AS	12/28/21 13:10	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X150184	AS	12/28/21 13:10	
EPA 200.7	Manganese	0.0398	mg/L	0.0080	0.0034		X150184	AS	12/28/21 13:10	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X150184	AS	12/28/21 13:10	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X150184	AS	12/28/21 13:10	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X150184	AS	12/28/21 13:10	
EPA 200.7	Sodium	19.3	mg/L	0.50	0.12		X150184	AS	12/28/21 13:10	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X150184	AS	12/28/21 13:10	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X150184	AS	12/28/21 13:10	
EPA 200.8	Antimony	< 0.00300	mg/L	0.00300	0.00072		X150193	KAH	12/30/21 15:56	
EPA 200.8	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X150193	KAH	12/30/21 15:56	
EPA 200.8	Selenium	< 0.00300	mg/L	0.00300	0.00024		X150193	KAH	12/30/21 15:56	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X150193	KAH	12/30/21 15:56	
EPA 200.8	Uranium	< 0.00100	mg/L	0.00100	0.000052		X150193	KAH	12/31/21 15:12	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X150216	ATM	12/15/21 08:32	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X150239	HJL	12/14/21 11:44	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X151030	KJR	12/17/21 17:37	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X152045	KJR	12/21/21 22:00	
OIA 1677	Cyanide (WAD)	< 0.0100	mg/L	0.0100	0.0010		X150241	HJL	12/15/21 10:52	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X202007	EKE	01/03/22 11:30	H1
SM 2320 B	Total Alkalinity	74.9	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:11	H1
SM 2320 B	Bicarbonate	74.9	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:11	H1
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:11	H1
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:11	H1
SM 2540 C	Total Diss. Solids	211	mg/L	10			X150174	TJL	12/10/21 15:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X150175	TJL	12/10/21 15:30	
SM 4500 H B	pH @21.0°C	7.1	pH Units				X153091	EKE	12/30/21 12:11	H5



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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022

Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

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

Sampled: 07-Dec-21 12:20

SVL Sample ID: **X1L0163-02 (Ground Water)**

Received: 09-Dec-21

Sample Report Page 2 of 2

Sampled By: BOD

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	16.9	mg/L	2.00	1.40	10	X150177	RS	12/09/21 16:29	D2
EPA 300.0	Fluoride	0.388	mg/L	0.100	0.062		X150177	RS	12/09/21 16:14	
EPA 300.0	Nitrate as N	0.863	mg/L	0.050	0.043		X150177	RS	12/09/21 16:14	H3
EPA 300.0	Nitrate+Nitrite as N	0.863	mg/L	0.100	0.074		X150177	RS	12/09/21 14:00	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X150177	RS	12/09/21 16:14	H3
EPA 300.0	Sulfate as SO4	67.1	mg/L	3.00	1.80	10	X150177	RS	12/09/21 16:29	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.43 meq/L Anion Sum: 3.52 meq/L C/A Balance: -1.18 % Calculated TDS: 203 TDS/cTDS: 1.04

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

Dave Tryon
Project Manager



Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

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

Sampled: 07-Dec-21 11:20

Received: 09-Dec-21

Sampled By: BOD

SVL Sample ID: **X1L0163-03 (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	33.4	mg/L	0.100	0.035		X150187	AS	12/27/21 13:40	
EPA 200.7	Magnesium	13.7	mg/L	0.500	0.045		X150187	AS	12/28/21 12:02	
EPA 200.7	Potassium	1.45	mg/L	0.50	0.09		X150187	AS	12/27/21 13:40	
SM 2340 B	Hardness (as CaCO3)	140	mg/L	2.31	0.271		N/A		12/28/21 12:02	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X150184	AS	12/28/21 13:14	
EPA 200.7	Barium	0.124	mg/L	0.0020	0.0019		X150184	AS	12/28/21 13:14	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X150184	AS	12/28/21 13:14	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X150184	AS	12/28/21 13:14	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X150184	AS	12/28/21 13:14	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X150184	AS	12/28/21 13:14	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X150184	AS	12/28/21 13:14	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X150184	AS	12/28/21 13:14	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X150184	AS	12/28/21 13:14	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X150184	AS	12/28/21 13:14	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X150184	AS	12/28/21 13:14	
EPA 200.7	Manganese	0.0281	mg/L	0.0080	0.0034		X150184	AS	12/28/21 13:14	
EPA 200.7	Molybdenum	0.0090	mg/L	0.0080	0.0034		X150184	AS	12/28/21 13:14	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X150184	AS	12/28/21 13:14	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X150184	AS	12/28/21 13:14	
EPA 200.7	Sodium	36.2	mg/L	0.50	0.12		X150184	AS	12/28/21 13:14	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X150184	AS	12/28/21 13:14	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X150184	AS	12/28/21 13:14	
EPA 200.8	Antimony	< 0.00300	mg/L	0.00300	0.00072		X150193	KAH	12/30/21 15:58	
EPA 200.8	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X150193	KAH	12/30/21 15:58	
EPA 200.8	Selenium	< 0.00300	mg/L	0.00300	0.00024		X150193	KAH	12/30/21 15:58	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X150193	KAH	12/30/21 15:58	
EPA 200.8	Uranium	0.0112	mg/L	0.00100	0.000052		X150193	KAH	12/31/21 15:15	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X150216	ATM	12/15/21 08:34	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X150239	HJL	12/14/21 11:46	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X151030	KJR	12/17/21 17:40	
EPA 350.1	Ammonia as N	0.080	mg/L	0.030	0.013		X152045	KJR	12/21/21 22:03	
OIA 1677	Cyanide (WAD)	< 0.0100	mg/L	0.0100	0.0010		X150241	HJL	12/15/21 10:53	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X202007	EKE	01/03/22 11:30	H1
SM 2320 B	Total Alkalinity	161	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:18	H1
SM 2320 B	Bicarbonate	161	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:18	H1
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:18	H1
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:18	H1
SM 2540 C	Total Diss. Solids	211	mg/L	10			X150174	TJL	12/10/21 15:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X150175	TJL	12/10/21 15:30	
SM 4500 H B	pH @21.0°C	7.9	pH Units				X153091	EKE	12/30/21 12:18	H5



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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022

Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

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

Sampled: 07-Dec-21 11:20

SVL Sample ID: **X1L0163-03 (Ground Water)**

Received: 09-Dec-21

Sample Report Page 2 of 2

Sampled By: BOD

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	4.75	mg/L	0.20	0.14		X150177	RS	12/09/21 16:45	
EPA 300.0	Fluoride	2.11	mg/L	0.100	0.062		X150177	RS	12/09/21 16:45	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X150177	RS	12/09/21 16:45	H3
EPA 300.0	Nitrate+Nitrite as N	< 0.100	mg/L	0.100	0.074		X150177	RS	12/09/21 14:00	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X150177	RS	12/09/21 16:45	H3
EPA 300.0	Sulfate as SO4	48.0	mg/L	3.00	1.80	10	X150177	RS	12/09/21 17:00	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 4.43 meq/L Anion Sum: 4.47 meq/L C/A Balance: -0.51 % Calculated TDS: 236 TDS/cTDS: 0.89

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

Dave Tryon
Project Manager



Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

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

Sampled: 07-Dec-21 10:15

Received: 09-Dec-21

Sampled By: BOD

SVL Sample ID: **X1L0163-04 (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	42.8	mg/L	0.100	0.035		X150187	AS	12/27/21 13:44	
EPA 200.7	Magnesium	7.45	mg/L	0.500	0.045		X150187	AS	12/28/21 12:05	
EPA 200.7	Potassium	1.44	mg/L	0.50	0.09		X150187	AS	12/27/21 13:44	
SM 2340 B	Hardness (as CaCO3)	137	mg/L	2.31	0.271		N/A		12/28/21 12:05	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X150184	AS	12/28/21 13:17	
EPA 200.7	Barium	0.0056	mg/L	0.0020	0.0019		X150184	AS	12/28/21 13:17	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X150184	AS	12/28/21 13:17	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X150184	AS	12/28/21 13:17	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X150184	AS	12/28/21 13:17	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X150184	AS	12/28/21 13:17	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X150184	AS	12/28/21 13:17	
EPA 200.7	Copper	0.0124	mg/L	0.0100	0.0027		X150184	AS	12/28/21 13:17	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X150184	AS	12/28/21 13:17	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X150184	AS	12/28/21 13:17	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X150184	AS	12/28/21 13:17	
EPA 200.7	Manganese	< 0.0080	mg/L	0.0080	0.0034		X150184	AS	12/28/21 13:17	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X150184	AS	12/28/21 13:17	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X150184	AS	12/28/21 13:17	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X150184	AS	12/28/21 13:17	
EPA 200.7	Sodium	24.1	mg/L	0.50	0.12		X150184	AS	12/28/21 13:17	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X150184	AS	12/28/21 13:17	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X150184	AS	12/28/21 13:17	
EPA 200.8	Antimony	< 0.00300	mg/L	0.00300	0.00072		X150193	KAH	12/30/21 16:01	
EPA 200.8	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X150193	KAH	12/30/21 16:01	
EPA 200.8	Selenium	< 0.00300	mg/L	0.00300	0.00024		X150193	KAH	12/30/21 16:01	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X150193	KAH	12/30/21 16:01	
EPA 200.8	Uranium	0.00263	mg/L	0.00100	0.000052		X150193	KAH	12/31/21 15:17	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X150216	ATM	12/15/21 08:39	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X150239	HJL	12/14/21 11:47	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X151030	KJR	12/17/21 17:43	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X152045	KJR	12/21/21 22:05	
OIA 1677	Cyanide (WAD)	< 0.0100	mg/L	0.0100	0.0010		X150241	HJL	12/15/21 10:55	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X202007	EKE	01/03/22 11:30	H1
SM 2320 B	Total Alkalinity	40.1	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:34	H1
SM 2320 B	Bicarbonate	40.1	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:34	H1
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:34	H1
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:34	H1
SM 2540 C	Total Diss. Solids	257	mg/L	10			X150174	TJL	12/10/21 15:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X150175	TJL	12/10/21 15:30	
SM 4500 H B	pH @21.0°C	7.1	pH Units				X153091	EKE	12/30/21 12:34	H5



One Government Gulch - PO Box 929

Kellogg, ID 83837-0929

(208) 784-1258

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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022

Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

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

Sampled: 07-Dec-21 10:15

SVL Sample ID: **X1L0163-04 (Ground Water)**

Received: 09-Dec-21

Sample Report Page 2 of 2

Sampled By: BOD

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Anions by Ion Chromatography										
EPA 300.0	Chloride	36.2	mg/L	2.00	1.40	10	X150177	RS	12/09/21 19:03	D2
EPA 300.0	Fluoride	2.17	mg/L	0.100	0.062		X150177	RS	12/09/21 18:48	
EPA 300.0	Nitrate as N	2.32	mg/L	0.050	0.043		X150177	RS	12/09/21 18:48	H3
EPA 300.0	Nitrate+Nitrite as N	2.32	mg/L	0.100	0.074		X150177	RS	12/09/21 14:00	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X150177	RS	12/09/21 18:48	H3
EPA 300.0	Sulfate as SO4	95.8	mg/L	3.00	1.80	10	X150177	RS	12/09/21 19:03	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.85 meq/L Anion Sum: 4.26 meq/L C/A Balance: -5.15 % Calculated TDS: 255 TDS/cTDS: 1.01

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

Dave Tryon
Project Manager



Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

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

Sampled: 07-Dec-21 07:50

Received: 09-Dec-21

Sampled By: BOD

SVL Sample ID: **X1L0163-05 (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	45.5	mg/L	0.100	0.035		X150187	AS	12/27/21 13:49	
EPA 200.7	Magnesium	6.21	mg/L	0.500	0.045		X150187	AS	12/28/21 12:08	
EPA 200.7	Potassium	0.92	mg/L	0.50	0.09		X150187	AS	12/27/21 13:49	
SM 2340 B	Hardness (as CaCO3)	139	mg/L	2.31	0.271		N/A		12/28/21 12:08	

Metals (Dissolved)

EPA 200.7	Aluminum	< 0.080	mg/L	0.080	0.054		X150184	AS	12/28/21 13:21	
EPA 200.7	Barium	< 0.0020	mg/L	0.0020	0.0019		X150184	AS	12/28/21 13:21	
EPA 200.7	Beryllium	< 0.00200	mg/L	0.00200	0.00080		X150184	AS	12/28/21 13:21	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X150184	AS	12/28/21 13:21	
EPA 200.7	Cadmium	< 0.0020	mg/L	0.0020	0.0016		X150184	AS	12/28/21 13:21	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X150184	AS	12/28/21 13:21	
EPA 200.7	Cobalt	< 0.0060	mg/L	0.0060	0.0046		X150184	AS	12/28/21 13:21	
EPA 200.7	Copper	< 0.0100	mg/L	0.0100	0.0027		X150184	AS	12/28/21 13:21	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X150184	AS	12/28/21 13:21	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X150184	AS	12/28/21 13:21	
EPA 200.7	Lithium	< 0.040	mg/L	0.040	0.025		X150184	AS	12/28/21 13:21	
EPA 200.7	Manganese	0.154	mg/L	0.0080	0.0034		X150184	AS	12/28/21 13:21	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X150184	AS	12/28/21 13:21	
EPA 200.7	Nickel	< 0.0100	mg/L	0.0100	0.0048		X150184	AS	12/28/21 13:21	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X150184	AS	12/28/21 13:21	
EPA 200.7	Sodium	24.1	mg/L	0.50	0.12		X150184	AS	12/28/21 13:21	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X150184	AS	12/28/21 13:21	
EPA 200.7	Zinc	< 0.0100	mg/L	0.0100	0.0054		X150184	AS	12/28/21 13:21	
EPA 200.8	Antimony	< 0.00300	mg/L	0.00300	0.00072		X150193	KAH	12/30/21 16:04	
EPA 200.8	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X150193	KAH	12/30/21 16:04	
EPA 200.8	Selenium	< 0.00300	mg/L	0.00300	0.00024		X150193	KAH	12/30/21 16:04	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X150193	KAH	12/30/21 16:04	
EPA 200.8	Uranium	0.00649	mg/L	0.00100	0.000052		X150193	KAH	12/31/21 15:20	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X150216	ATM	12/15/21 08:41	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @20.0°C	< 0.0050	mg/L	0.0050	0.0048		X150239	HJL	12/14/21 11:49	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X151030	KJR	12/17/21 17:45	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X152045	KJR	12/21/21 22:08	
OIA 1677	Cyanide (WAD)	< 0.0100	mg/L	0.0100	0.0010		X150241	HJL	12/15/21 10:56	
SM 2310 B	Acidity to pH 8.3	< 10.0	mg/L as CaCO3	10.0			X202007	EKE	01/03/22 11:30	H1
SM 2320 B	Total Alkalinity	51.1	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:41	H1
SM 2320 B	Bicarbonate	51.1	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:41	H1
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:41	H1
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X153091	EKE	12/30/21 12:41	H1
SM 2540 C	Total Diss. Solids	255	mg/L	10			X150174	TJL	12/10/21 15:30	
SM 2540 D	Total Susp. Solids	< 5.0	mg/L	5.0			X150175	TJL	12/10/21 15:30	
SM 4500 H B	pH @21.0°C	7.3	pH Units				X153091	EKE	12/30/21 12:41	H5



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Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022

Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

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

Sampled: 07-Dec-21 07:50

Received: 09-Dec-21

Sampled By: BOD

SVL Sample ID: **X1L0163-05 (Ground Water)**

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	54.6	mg/L	2.00	1.40	10	X150177	RS	12/09/21 19:34	D2
EPA 300.0	Fluoride	2.24	mg/L	0.100	0.062		X150177	RS	12/09/21 19:18	
EPA 300.0	Nitrate as N	0.518	mg/L	0.050	0.043		X150177	RS	12/09/21 19:18	H3
EPA 300.0	Nitrate+Nitrite as N	0.518	mg/L	0.100	0.074		X150177	RS	12/09/21 14:00	H3
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X150177	RS	12/09/21 19:18	H3
EPA 300.0	Sulfate as SO4	65.3	mg/L	3.00	1.80	10	X150177	RS	12/09/21 19:34	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 3.87 meq/L Anion Sum: 4.12 meq/L C/A Balance: -3.04 % Calculated TDS: 234 TDS/cTDS: 1.09

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

Dave Tryon
Project Manager



Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

Quality Control - BLANK Data

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

EPA 200.7	Calcium	mg/L	<0.100	0.035	0.100	X150187	27-Dec-21	
EPA 200.7	Magnesium	mg/L	<0.500	0.045	0.500	X150187	28-Dec-21	
EPA 200.7	Potassium	mg/L	<0.50	0.09	0.50	X150187	27-Dec-21	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	<0.080	0.054	0.080	X150184	28-Dec-21	
EPA 200.7	Barium	mg/L	<0.0020	0.0019	0.0020	X150184	28-Dec-21	
EPA 200.7	Beryllium	mg/L	<0.00200	0.00080	0.00200	X150184	28-Dec-21	
EPA 200.7	Boron	mg/L	<0.0400	0.0078	0.0400	X150184	28-Dec-21	
EPA 200.7	Cadmium	mg/L	<0.0020	0.0016	0.0020	X150184	28-Dec-21	
EPA 200.7	Chromium	mg/L	<0.0060	0.0020	0.0060	X150184	28-Dec-21	
EPA 200.7	Cobalt	mg/L	<0.0060	0.0046	0.0060	X150184	28-Dec-21	
EPA 200.7	Copper	mg/L	<0.0100	0.0027	0.0100	X150184	28-Dec-21	
EPA 200.7	Iron	mg/L	<0.100	0.056	0.100	X150184	28-Dec-21	
EPA 200.7	Lead	mg/L	<0.0075	0.0049	0.0075	X150184	28-Dec-21	
EPA 200.7	Lithium	mg/L	<0.040	0.025	0.040	X150184	28-Dec-21	
EPA 200.7	Manganese	mg/L	<0.0080	0.0034	0.0080	X150184	28-Dec-21	
EPA 200.7	Molybdenum	mg/L	<0.0080	0.0034	0.0080	X150184	28-Dec-21	
EPA 200.7	Nickel	mg/L	<0.0100	0.0048	0.0100	X150184	28-Dec-21	
EPA 200.7	Silver	mg/L	<0.0050	0.0019	0.0050	X150184	28-Dec-21	
EPA 200.7	Sodium	mg/L	<0.50	0.12	0.50	X150184	28-Dec-21	
EPA 200.7	Vanadium	mg/L	<0.0050	0.0019	0.0050	X150184	28-Dec-21	
EPA 200.7	Zinc	mg/L	<0.0100	0.0054	0.0100	X150184	28-Dec-21	
EPA 200.8	Antimony	mg/L	<0.00300	0.00072	0.00300	X150193	30-Dec-21	
EPA 200.8	Arsenic	mg/L	<0.00300	0.00021	0.00300	X150193	30-Dec-21	
EPA 200.8	Selenium	mg/L	<0.00300	0.00024	0.00300	X150193	30-Dec-21	
EPA 200.8	Thallium	mg/L	<0.00100	0.00008	0.00100	X150193	30-Dec-21	
EPA 200.8	Uranium	mg/L	<0.00100	0.000052	0.00100	X150193	31-Dec-21	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	<0.000200	0.000093	0.000200	X150216	15-Dec-21	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	<0.0050	0.0048	0.0050	X150239	14-Dec-21	
EPA 335.4	Cyanide (total)	mg/L	<0.0050	0.0038	0.0050	X151030	17-Dec-21	
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X152045	21-Dec-21	
OIA 1677	Cyanide (WAD)	mg/L	<0.0100	0.0010	0.0100	X150241	15-Dec-21	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X151255	20-Dec-21	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	<10.0		10.0	X202007	03-Jan-22	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X153091	30-Dec-21	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X153091	30-Dec-21	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X153091	30-Dec-21	
SM 2320 B	Hydroxide	mg/L as CaCO3	<1.0		1.0	X153091	30-Dec-21	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X150174	10-Dec-21	
SM 2540 D	Total Susp. Solids	mg/L	<5.0		5.0	X150175	10-Dec-21	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	<0.20	0.14	0.20	X150177	09-Dec-21	
EPA 300.0	Fluoride	mg/L	<0.100	0.062	0.100	X150177	09-Dec-21	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.043	0.050	X150177	09-Dec-21	
EPA 300.0	Nitrate+Nitrite as N	mg/L	<0.100	0.074	0.100	X150177	09-Dec-21	
EPA 300.0	Nitrite as N	mg/L	<0.050	0.031	0.050	X150177	09-Dec-21	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X150177	09-Dec-21	



Newmont - Cripple Creek & Victor
Post Office Box 191
Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

Quality Control - LABORATORY CONTROL SAMPLE Data

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

EPA 200.7	Calcium	mg/L	20.0	20.0	100	85 - 115	X150187	27-Dec-21	
EPA 200.7	Magnesium	mg/L	20.6	20.0	103	85 - 115	X150187	28-Dec-21	
EPA 200.7	Potassium	mg/L	22.8	20.0	114	85 - 115	X150187	27-Dec-21	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	0.929	1.00	92.9	85 - 115	X150184	28-Dec-21	
EPA 200.7	Barium	mg/L	0.953	1.00	95.3	85 - 115	X150184	28-Dec-21	
EPA 200.7	Beryllium	mg/L	1.02	1.00	102	85 - 115	X150184	28-Dec-21	
EPA 200.7	Boron	mg/L	0.955	1.00	95.5	85 - 115	X150184	28-Dec-21	
EPA 200.7	Cadmium	mg/L	1.04	1.00	104	85 - 115	X150184	28-Dec-21	
EPA 200.7	Chromium	mg/L	1.02	1.00	102	85 - 115	X150184	28-Dec-21	
EPA 200.7	Cobalt	mg/L	1.01	1.00	101	85 - 115	X150184	28-Dec-21	
EPA 200.7	Copper	mg/L	1.01	1.00	101	85 - 115	X150184	28-Dec-21	
EPA 200.7	Iron	mg/L	10.2	10.0	102	85 - 115	X150184	28-Dec-21	
EPA 200.7	Lead	mg/L	1.03	1.00	103	85 - 115	X150184	28-Dec-21	
EPA 200.7	Lithium	mg/L	0.938	1.00	93.8	85 - 115	X150184	28-Dec-21	
EPA 200.7	Manganese	mg/L	1.02	1.00	102	85 - 115	X150184	28-Dec-21	
EPA 200.7	Molybdenum	mg/L	1.05	1.00	105	85 - 115	X150184	28-Dec-21	
EPA 200.7	Nickel	mg/L	1.00	1.00	100	85 - 115	X150184	28-Dec-21	
EPA 200.7	Silver	mg/L	0.0468	0.0500	93.6	85 - 115	X150184	28-Dec-21	
EPA 200.7	Sodium	mg/L	19.4	19.0	102	85 - 115	X150184	28-Dec-21	
EPA 200.7	Vanadium	mg/L	1.03	1.00	103	85 - 115	X150184	28-Dec-21	
EPA 200.7	Zinc	mg/L	1.03	1.00	103	85 - 115	X150184	28-Dec-21	
EPA 200.8	Antimony	mg/L	0.0258	0.0250	103	85 - 115	X150193	30-Dec-21	
EPA 200.8	Arsenic	mg/L	0.0263	0.0250	105	85 - 115	X150193	30-Dec-21	
EPA 200.8	Selenium	mg/L	0.0257	0.0250	103	85 - 115	X150193	30-Dec-21	
EPA 200.8	Thallium	mg/L	0.0272	0.0250	109	85 - 115	X150193	30-Dec-21	
EPA 200.8	Uranium	mg/L	0.0255	0.0250	102	85 - 115	X150193	31-Dec-21	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00498	0.00500	99.6	85 - 115	X150216	15-Dec-21	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.105	0.100	105	90 - 110	X150239	14-Dec-21	
EPA 335.4	Cyanide (total)	mg/L	0.105	0.100	105	90 - 110	X151030	17-Dec-21	
EPA 350.1	Ammonia as N	mg/L	0.967	1.00	96.7	90 - 110	X152045	21-Dec-21	
OIA 1677	Cyanide (WAD)	mg/L	0.108	0.100	108	82 - 118	X150241	15-Dec-21	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	722	739	97.8	95.4 - 104	X202007	03-Jan-22	
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO3	738	739	99.9	95.4 - 104	X151255	20-Dec-21	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.60	9.93	96.7	94.3 - 106	X153091	30-Dec-21	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	102	99.3	103	94.3 - 106	X153091	30-Dec-21	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	401	397	101	94.3 - 106	X153091	30-Dec-21	
SM 2320 B	Bicarbonate	mg/L as CaCO3	9.60	9.93	96.7	95.1 - 106	X153091	30-Dec-21	
SM 2320 B	Bicarbonate	mg/L as CaCO3	102	99.3	103	95.1 - 106	X153091	30-Dec-21	
SM 2320 B	Bicarbonate	mg/L as CaCO3	391	397	98.5	95.1 - 106	X153091	30-Dec-21	
SM 2540 D	Total Susp. Solids	mg/L	9.0	10.0	90.0	85 - 115	X150175	10-Dec-21	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	3.23	3.00	108	90 - 110	X150177	09-Dec-21	
EPA 300.0	Fluoride	mg/L	2.17	2.00	108	90 - 110	X150177	09-Dec-21	
EPA 300.0	Nitrate as N	mg/L	2.15	2.00	107	90 - 110	X150177	09-Dec-21	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.72	4.50	105	90 - 110	X150177	09-Dec-21	
EPA 300.0	Nitrite as N	mg/L	2.58	2.50	103	90 - 110	X150177	09-Dec-21	
EPA 300.0	Sulfate as SO4	mg/L	10.9	10.0	109	90 - 110	X150177	09-Dec-21	



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Victor, CO 80860

Project Name: Cripple Creek/Victor Water and Soil 2022

Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch and Source ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2310 B	Acidity to pH 8.3	mg/L as CaCO ₃	<10.0	<10.0	UDL	20	X202007 - X1L0163-01	03-Jan-22	
SM 2320 B	Total Alkalinity	mg/L as CaCO ₃	130	131	0.3	20	X153091 - X1L0192-01	30-Dec-21	
SM 2320 B	Bicarbonate	mg/L as CaCO ₃	130	131	0.3	20	X153091 - X1L0192-01	30-Dec-21	
SM 2320 B	Carbonate	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X153091 - X1L0192-01	30-Dec-21	
SM 2320 B	Hydroxide	mg/L as CaCO ₃	<1.0	<1.0	UDL	20	X153091 - X1L0192-01	30-Dec-21	
SM 2540 C	Total Diss. Solids	mg/L	192	198	3.1	10	X150174 - X1L0187-02	10-Dec-21	
SM 2540 C	Total Diss. Solids	mg/L	208	211	1.4	10	X150174 - X1L0163-02	10-Dec-21	
SM 2540 D	Total Susp. Solids	mg/L	43.0	42.0	2.4	10	X150175 - X1L0187-02	10-Dec-21	
SM 2540 D	Total Susp. Solids	mg/L	<5.0	<5.0	UDL	10	X150175 - X1L0163-02	10-Dec-21	
SM 4500 H B	pH @20.0°C	pH Units	8.1	8.1	0.0	20	X153091 - X1L0192-01	30-Dec-21	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch and Source ID	Analyzed	Notes
Metals (Total Recoverable--reportable as Total per 40 CFR 136)										
EPA 200.7	Calcium	mg/L	378	354	20.0	118	70 - 130	X150187 - X1L0163-01	27-Dec-21	
EPA 200.7	Magnesium	mg/L	118	92.9	20.0	123	70 - 130	X150187 - X1L0163-01	28-Dec-21	
EPA 200.7	Potassium	mg/L	31.2	5.55	20.0	128	70 - 130	X150187 - X1L0163-01	27-Dec-21	
Metals (Dissolved)										
EPA 200.7	Aluminum	mg/L	10.1	9.34	1.00	80.1	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Barium	mg/L	1.01	0.0159	1.00	99.1	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Beryllium	mg/L	1.00	0.0227	1.00	97.9	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Boron	mg/L	1.04	<0.0400	1.00	102	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Cadmium	mg/L	1.05	0.0510	1.00	100	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Chromium	mg/L	1.00	<0.0060	1.00	100	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Cobalt	mg/L	1.00	0.0199	1.00	98.1	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Copper	mg/L	1.06	0.0128	1.00	105	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Iron	mg/L	10.1	<0.100	10.0	101	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Lead	mg/L	0.996	<0.0075	1.00	99.6	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Lithium	mg/L	0.867	<0.040	1.00	86.7	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Manganese	mg/L	9.73	8.79	1.00	94.7	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Molybdenum	mg/L	1.02	<0.0080	1.00	102	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Nickel	mg/L	1.11	0.133	1.00	97.4	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Silver	mg/L	0.0484	<0.0050	0.0500	96.8	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Sodium	mg/L	53.9	34.6	19.0	102	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Vanadium	mg/L	1.03	<0.0050	1.00	103	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.7	Zinc	mg/L	2.95	2.03	1.00	91.9	70 - 130	X150184 - X1L0163-01	28-Dec-21	
EPA 200.8	Antimony	mg/L	0.0250	<0.00300	0.0250	99.8	70 - 130	X150193 - X1L0100-01	30-Dec-21	
EPA 200.8	Arsenic	mg/L	0.0463	0.0325	0.0250	55.3	70 - 130	X150193 - X1L0100-01	30-Dec-21	M2
EPA 200.8	Selenium	mg/L	0.218	0.202	0.0250	0.30R>S	70 - 130	X150193 - X1L0100-01	30-Dec-21	M3
EPA 200.8	Thallium	mg/L	0.0209	<0.00100	0.0250	83.4	70 - 130	X150193 - X1L0100-01	30-Dec-21	
EPA 200.8	Uranium	mg/L	2.17	2.14	0.0250	123	70 - 130	X150193 - X1L0100-01	31-Dec-21	

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00107	<0.000200	0.00100	107	70 - 130	X150216 - X1L0163-03	15-Dec-21	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.104	<0.0050	0.100	104	79 - 121	X150239 - X1L0163-01	14-Dec-21	
EPA 335.4	Cyanide (total)	mg/L	0.102	<0.0050	0.100	102	90 - 110	X151030 - X1L0254-01	17-Dec-21	
EPA 335.4	Cyanide (total)	mg/L	0.336	0.245	0.100	90.6	90 - 110	X151030 - X1L0178-01	17-Dec-21	D2,H1
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X152045 - X1L0163-01	21-Dec-21	



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Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

Quality Control - MATRIX SPIKE Data (Continued)

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

EPA 350.1	Ammonia as N	mg/L	0.980	<0.030	1.00	98.0	90 - 110	X152045 - X1L0227-01	21-Dec-21	
OIA 1677	Cyanide (WAD)	mg/L	0.114	<0.0100	0.100	114	82 - 118	X150241 - X1L0163-01	15-Dec-21	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	7.85	4.75	3.00	103	90 - 110	X150177 - X1L0163-03	09-Dec-21	
EPA 300.0	Chloride	mg/L	26.7	23.7	3.00	102	90 - 110	X150177 - X1L0167-01	09-Dec-21	D2
EPA 300.0	Fluoride	mg/L	4.20	2.11	2.00	105	90 - 110	X150177 - X1L0163-03	09-Dec-21	
EPA 300.0	Fluoride	mg/L	2.21	0.320	2.00	94.3	90 - 110	X150177 - X1L0167-01	09-Dec-21	
EPA 300.0	Nitrate as N	mg/L	2.06	<0.050	2.00	103	90 - 110	X150177 - X1L0163-03	09-Dec-21	
EPA 300.0	Nitrate as N	mg/L	3.70	1.66	2.00	102	90 - 110	X150177 - X1L0167-01	09-Dec-21	
EPA 300.0	Nitrate+Nitrite as N	mg/L	5.69	1.66	4.00	101	90 - 110	X150177 - X1L0167-01	09-Dec-21	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.09	<0.100	4.00	102	90 - 110	X150177 - X1L0163-03	09-Dec-21	
EPA 300.0	Nitrite as N	mg/L	2.03	<0.050	2.00	102	90 - 110	X150177 - X1L0163-03	09-Dec-21	
EPA 300.0	Nitrite as N	mg/L	1.99	<0.050	2.00	99.3	90 - 110	X150177 - X1L0167-01	09-Dec-21	
EPA 300.0	Sulfate as SO4	mg/L	58.9	48.0	10.0	108	90 - 110	X150177 - X1L0163-03	09-Dec-21	D2
EPA 300.0	Sulfate as SO4	mg/L	217	207	10.0	97.2	90 - 110	X150177 - X1L0167-01	09-Dec-21	D2

Quality Control - MATRIX SPIKE DUPLICATE Data

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

EPA 200.7	Calcium	mg/L	377	378	20.0	0.1	20	117	X150187 - X1L0163-01	
EPA 200.7	Magnesium	mg/L	117	118	20.0	0.4	20	121	X150187 - X1L0163-01	
EPA 200.7	Potassium	mg/L	31.4	31.2	20.0	0.6	20	129	X150187 - X1L0163-01	

Metals (Dissolved)

EPA 200.7	Aluminum	mg/L	10.3	10.1	1.00	2.1	20	101	X150184 - X1L0163-01	
EPA 200.7	Barium	mg/L	0.986	1.01	1.00	2.1	20	97.0	X150184 - X1L0163-01	
EPA 200.7	Beryllium	mg/L	0.974	1.00	1.00	2.8	20	95.1	X150184 - X1L0163-01	
EPA 200.7	Boron	mg/L	1.02	1.04	1.00	2.3	20	99.7	X150184 - X1L0163-01	
EPA 200.7	Cadmium	mg/L	1.03	1.05	1.00	2.0	20	97.9	X150184 - X1L0163-01	
EPA 200.7	Chromium	mg/L	0.974	1.00	1.00	2.7	20	97.4	X150184 - X1L0163-01	
EPA 200.7	Cobalt	mg/L	0.981	1.00	1.00	2.0	20	96.1	X150184 - X1L0163-01	
EPA 200.7	Copper	mg/L	1.04	1.06	1.00	1.7	20	103	X150184 - X1L0163-01	
EPA 200.7	Iron	mg/L	9.83	10.1	10.0	3.2	20	97.7	X150184 - X1L0163-01	
EPA 200.7	Lead	mg/L	0.967	0.996	1.00	2.9	20	96.7	X150184 - X1L0163-01	
EPA 200.7	Lithium	mg/L	0.843	0.867	1.00	2.8	20	84.3	X150184 - X1L0163-01	
EPA 200.7	Manganese	mg/L	9.89	9.73	1.00	1.6	20	111	X150184 - X1L0163-01	
EPA 200.7	Molybdenum	mg/L	1.00	1.02	1.00	2.0	20	99.8	X150184 - X1L0163-01	
EPA 200.7	Nickel	mg/L	1.09	1.11	1.00	1.7	20	95.6	X150184 - X1L0163-01	
EPA 200.7	Silver	mg/L	0.0477	0.0484	0.0500	1.5	20	95.3	X150184 - X1L0163-01	
EPA 200.7	Sodium	mg/L	54.3	53.9	19.0	0.7	20	104	X150184 - X1L0163-01	
EPA 200.7	Vanadium	mg/L	1.01	1.03	1.00	2.7	20	101	X150184 - X1L0163-01	
EPA 200.7	Zinc	mg/L	2.97	2.95	1.00	0.8	20	94.2	X150184 - X1L0163-01	
EPA 200.8	Antimony	mg/L	0.0251	0.0250	0.0250	0.6	20	100	X150193 - X1L0100-01	
EPA 200.8	Arsenic	mg/L	0.0464	0.0463	0.0250	0.1	20	55.5	X150193 - X1L0100-01	M2
EPA 200.8	Selenium	mg/L	0.218	0.218	0.0250	0.3	20	0.30R>S	X150193 - X1L0100-01	M3
EPA 200.8	Thallium	mg/L	0.0209	0.0209	0.0250	0.1	20	83.5	X150193 - X1L0100-01	
EPA 200.8	Uranium	mg/L	2.18	2.17	0.0250	0.3	20	0.30R>S	X150193 - X1L0100-01	M3

Metals (Filtered)

EPA 245.1	Mercury	mg/L	0.00110	0.00107	0.00100	2.8	20	110	X150216 - X1L0163-03	
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Project Name: Cripple Creek/Victor Water and Soil 2022

Work Order: **X1L0163**

Reported: 03-Jan-22 17:02

Quality Control - MATRIX SPIKE DUPLICATE Data (Continued)

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	RPD	RPD Limit	% Recovery	Batch and Source ID	Notes
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6	mg/L	0.106	0.104	0.100	1.9	11	106	X150239 - X1L0163-01	
EPA 335.4	Cyanide (total)	mg/L	0.361	0.336	0.100	7.2	20	116	X151030 - X1L0178-01	D2,H1,M4
EPA 350.1	Ammonia as N	mg/L	1.01	1.01	1.00	0.2	20	101	X152045 - X1L0163-01	
OIA 1677	Cyanide (WAD)	mg/L	0.115	0.114	0.100	0.9	11	115	X150241 - X1L0163-01	

Anions by Ion Chromatography

EPA 300.0	Chloride	mg/L	7.85	7.85	3.00	0.0	20	103	X150177 - X1L0163-03	
EPA 300.0	Fluoride	mg/L	4.20	4.20	2.00	0.1	20	104	X150177 - X1L0163-03	
EPA 300.0	Nitrate as N	mg/L	2.06	2.06	2.00	0.1	20	103	X150177 - X1L0163-03	
EPA 300.0	Nitrate+Nitrite as N	mg/L	4.08	4.09	4.00	0.3	20	102	X150177 - X1L0163-03	
EPA 300.0	Nitrite as N	mg/L	2.02	2.03	2.00	0.4	20	101	X150177 - X1L0163-03	
EPA 300.0	Sulfate as SO4	mg/L	59.0	58.9	10.0	0.3	20	110	X150177 - X1L0163-03	D2



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Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
H1	Sample analysis performed past holding time.
H3	Sample was received and/or analysis requested past holding time.
H5	This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The LCS was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable
