

STATE OF
COLORADO

Eschberger - DNR, Amy <amy.eschberger@state.co.us>

GVMW-25 Update

Ronald Parratt <Ronald.Parratt@newmont.com>
To: Amy Eschberger - DNR <amy.eschberger@state.co.us>
Cc: Katie Blake <Katie.Blake@newmont.com>

Mon, Sep 26, 2022 at 8:48 AM

Good Morning Ms. Eschberger,

Please see the attached graphs and analytical report for Grassy Valley monitoring well GVMW-25 for the month of August, 2022.

Best Regards,
Ron

Ronald Parratt

Site Water Coordinator

Water & Energy Specialist



100 North 3rd Street

Victor, Colorado 80860

[O 719.851.4019](tel:719.851.4019)

[M 719.429.8522](tel:719.429.8522)

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

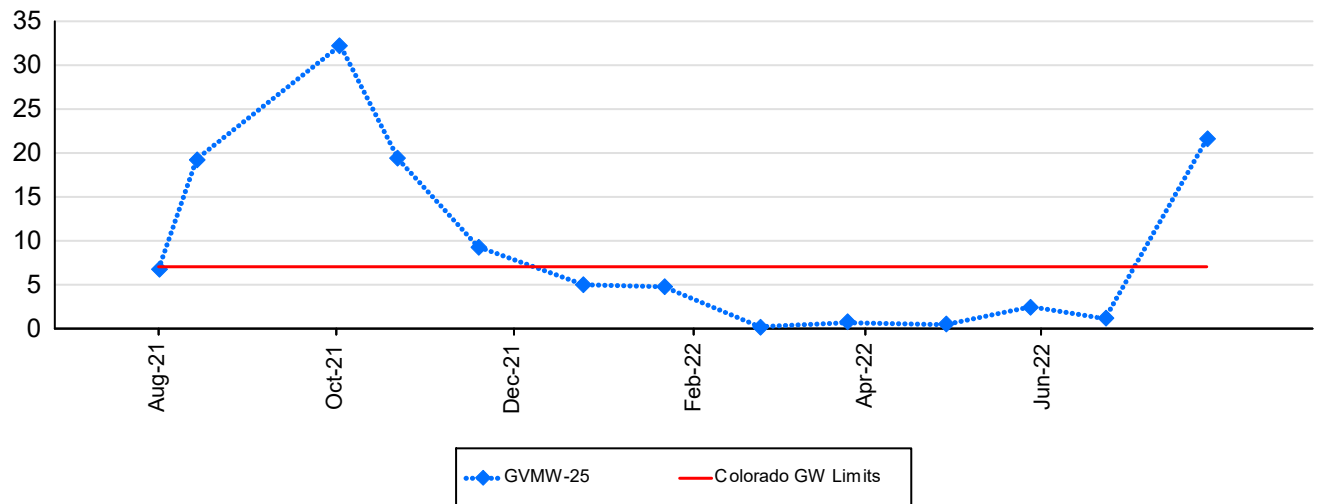
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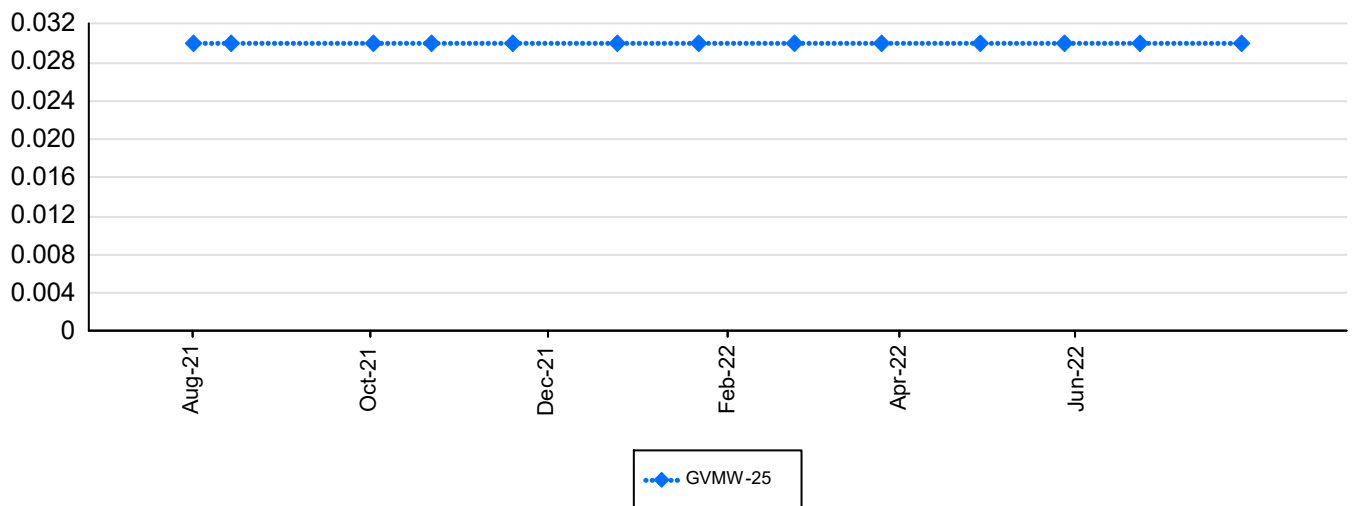
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 **GVMW-25 August_2022 Update Report.pdf**

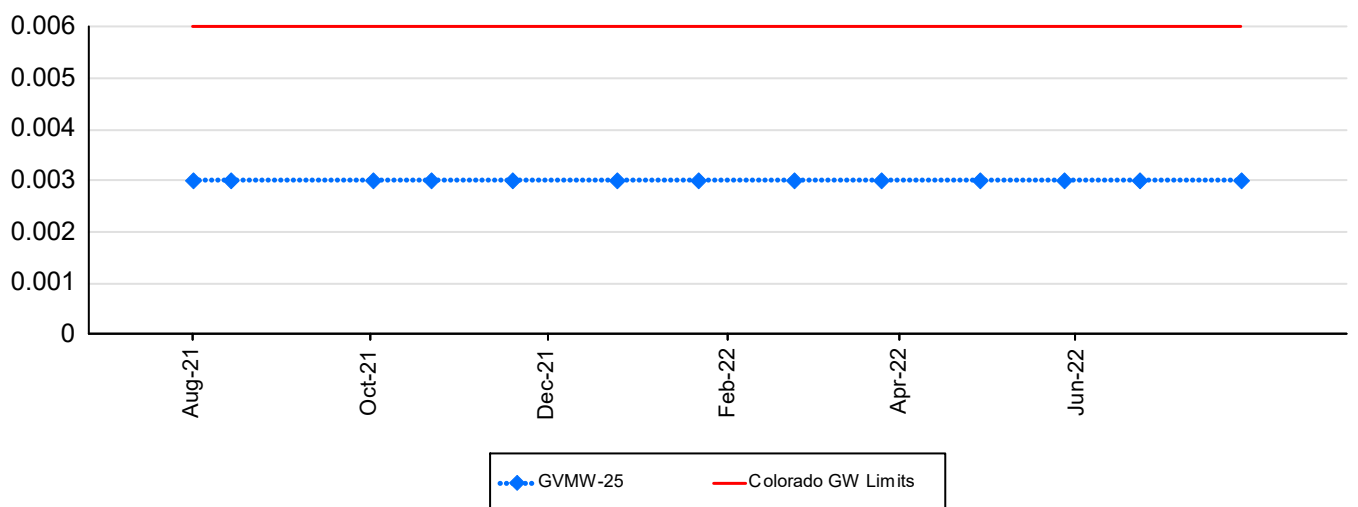
: Aluminium - Dissolved (mg/L)



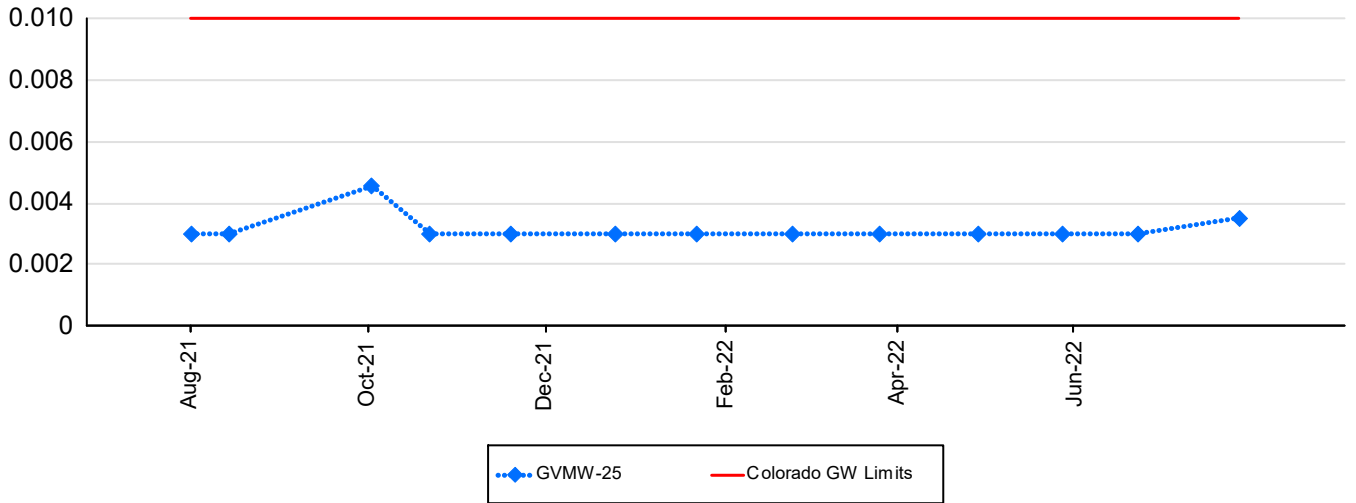
: Ammonia (mg/L)



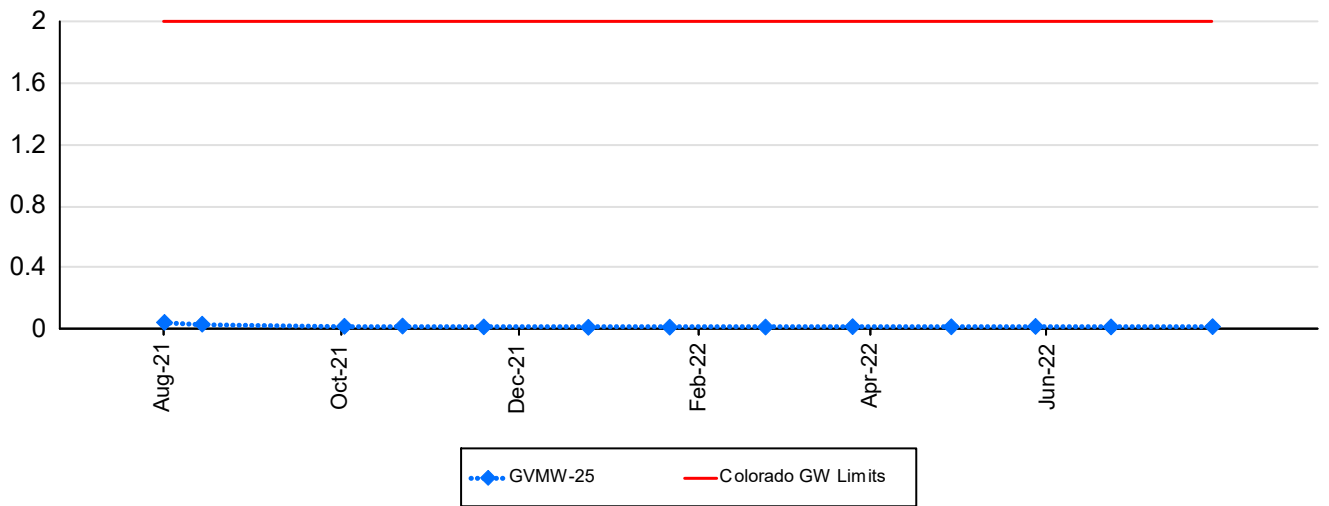
: Antimony - Dissolved (mg/L)



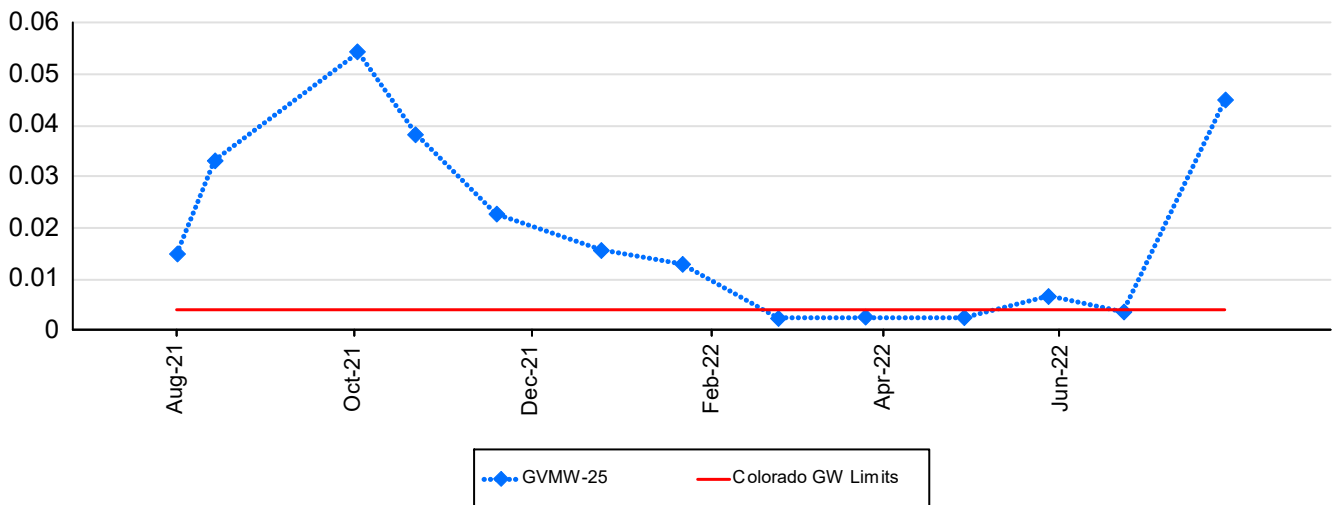
: Arsenic - Dissolved (mg/L)



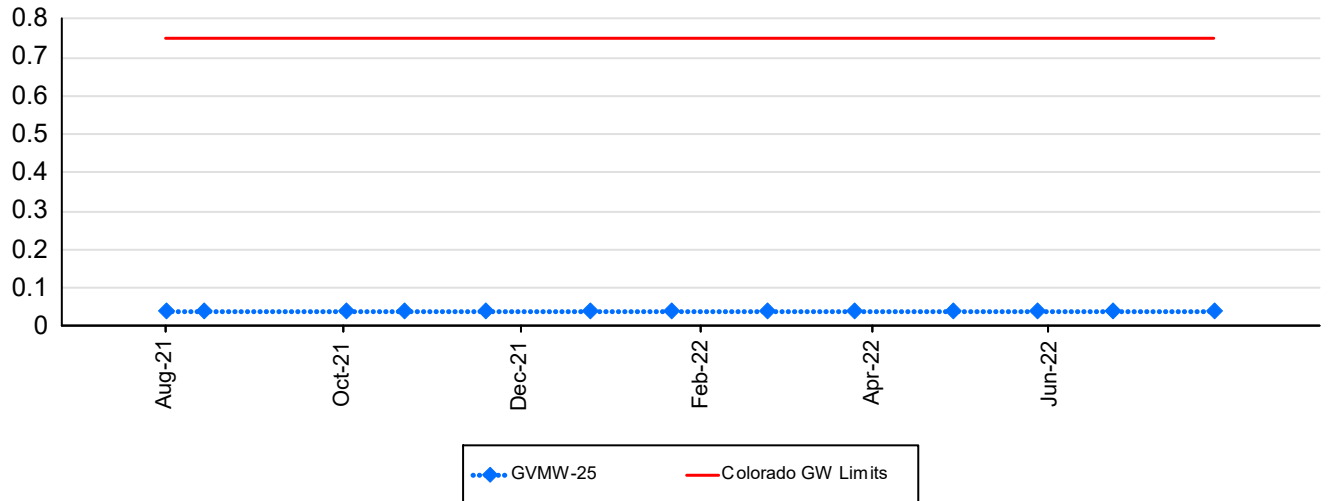
: Barium - Dissolved (mg/L)



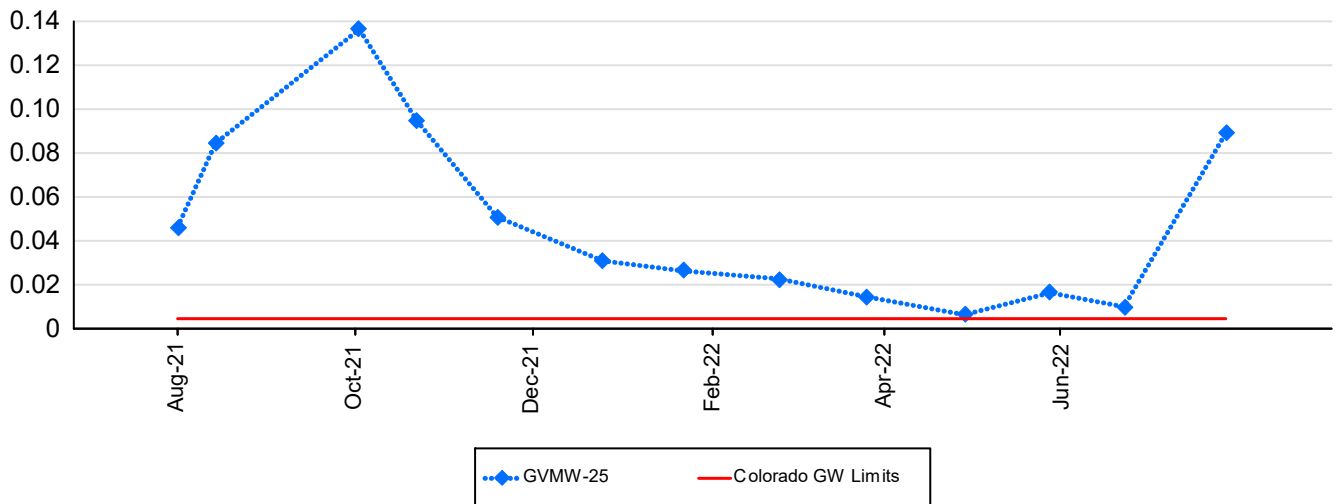
: Beryllium - Dissolved (mg/L)



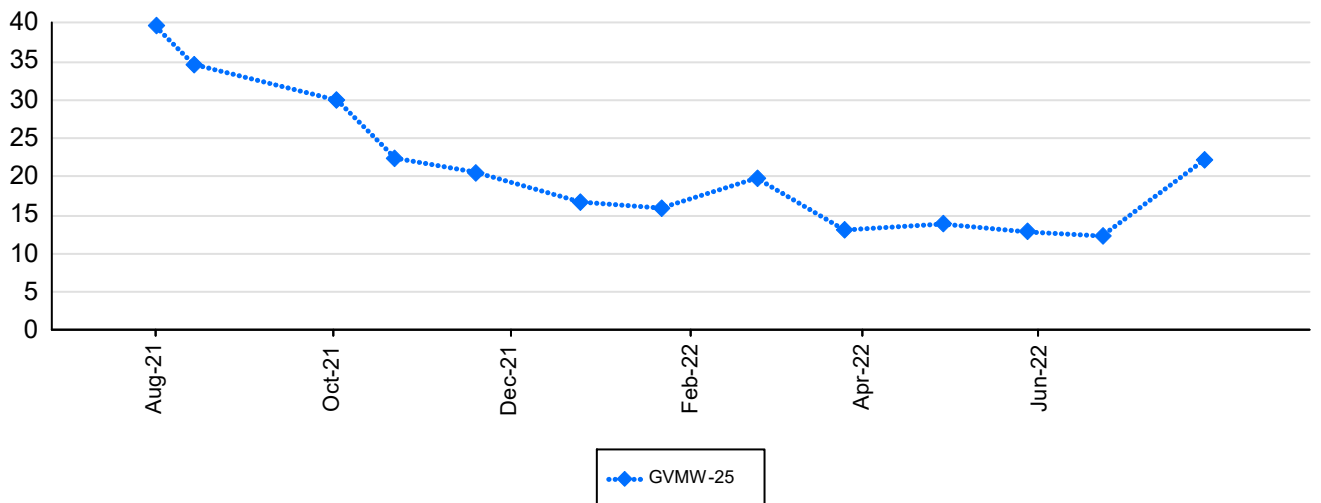
: Boron - Dissolved (mg/L)



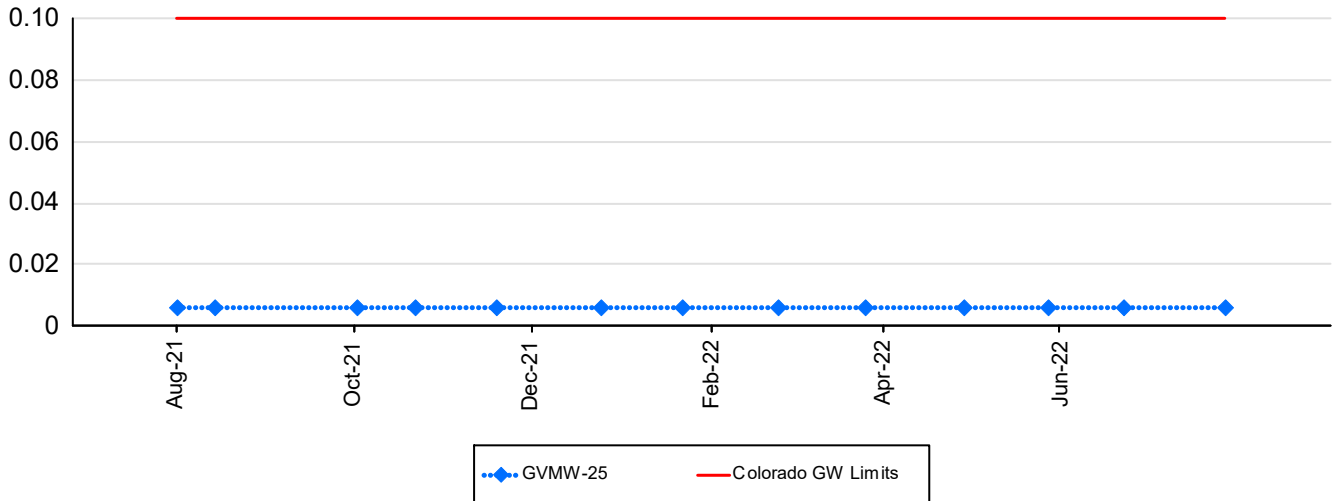
: Cadmium - Dissolved (mg/L)



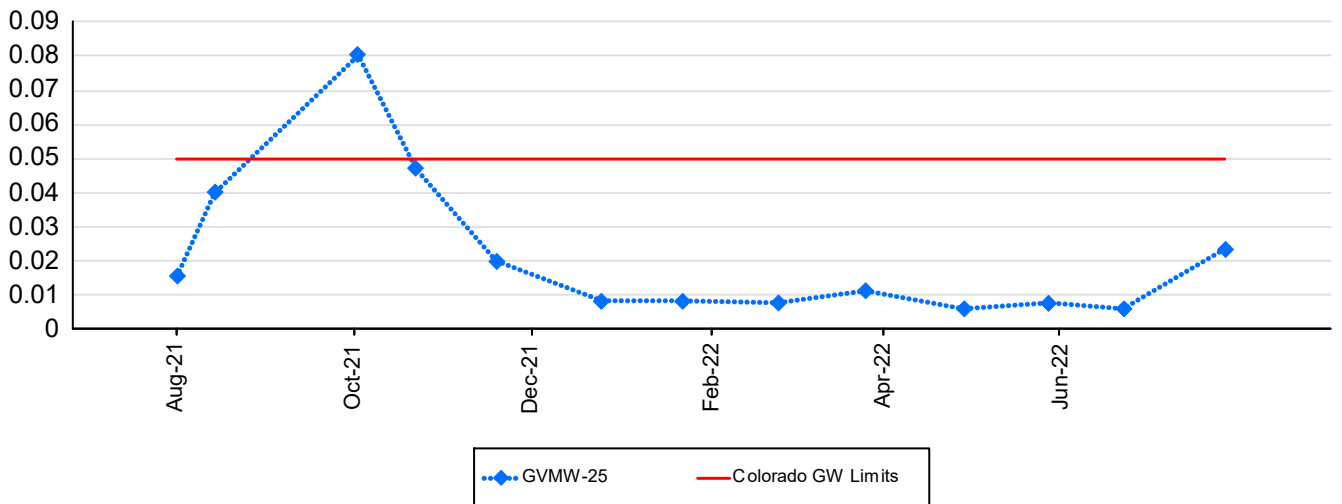
: Chloride - Total (mg/L)



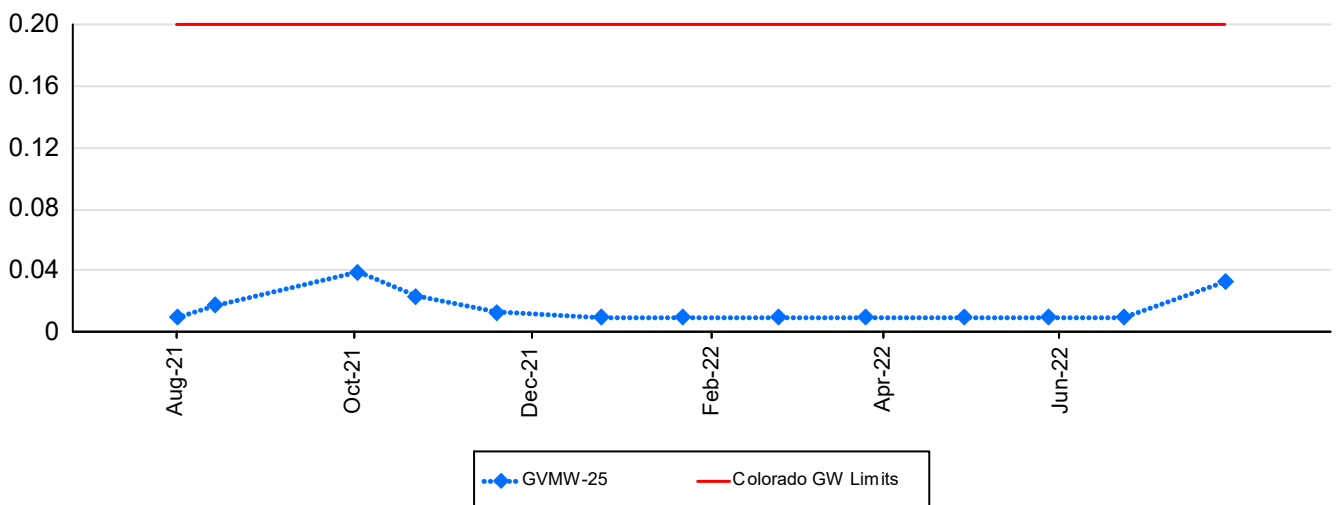
: Chromium - Dissolved (mg/L)



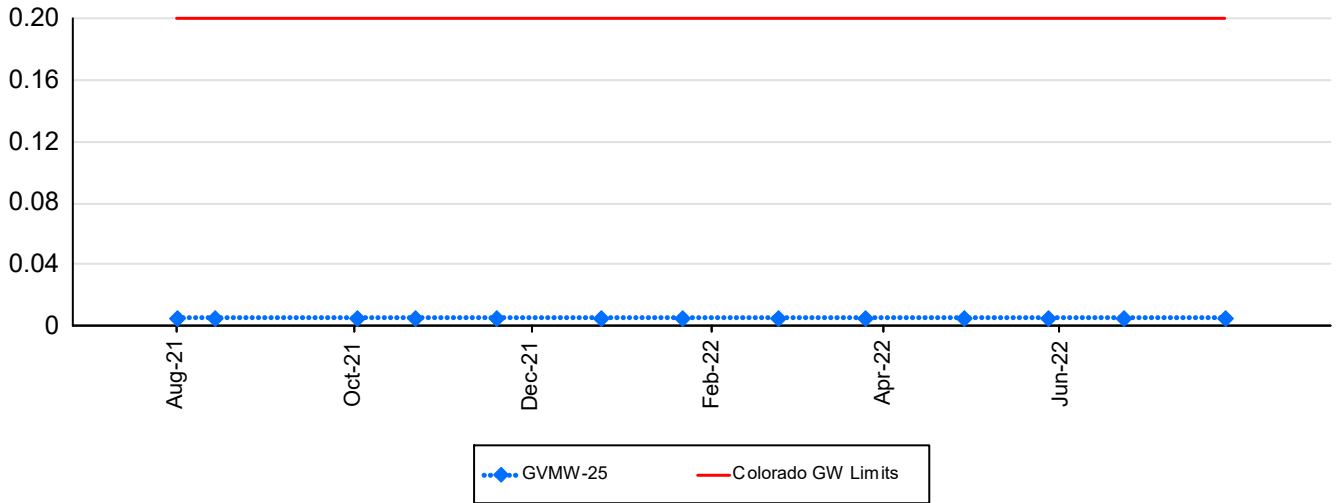
: Cobalt - Dissolved (mg/L)



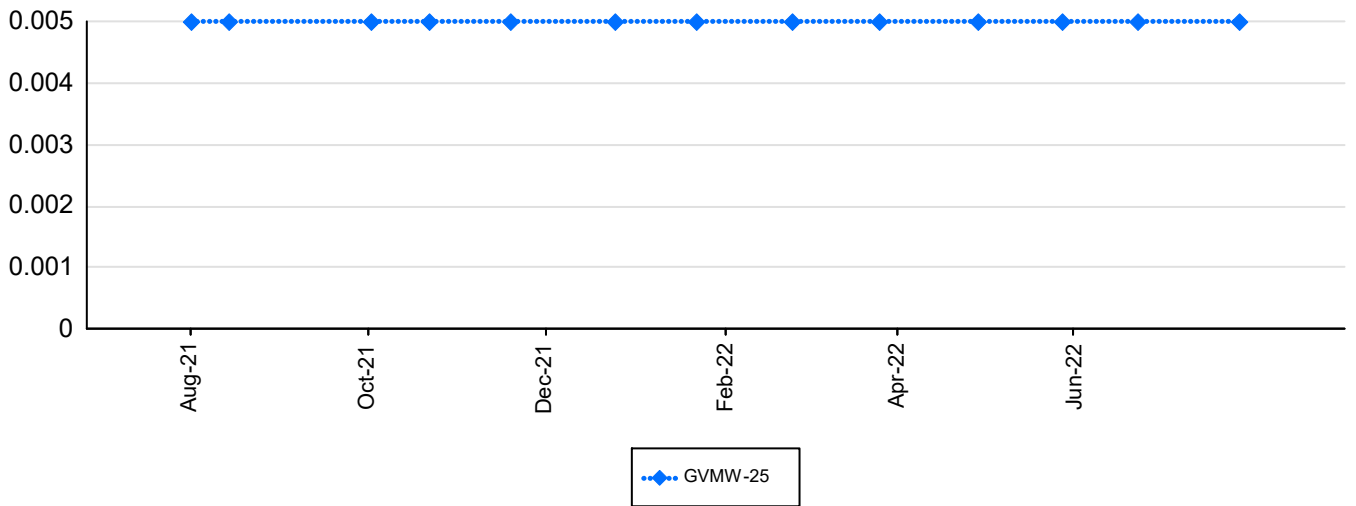
: Copper - Dissolved (mg/L)



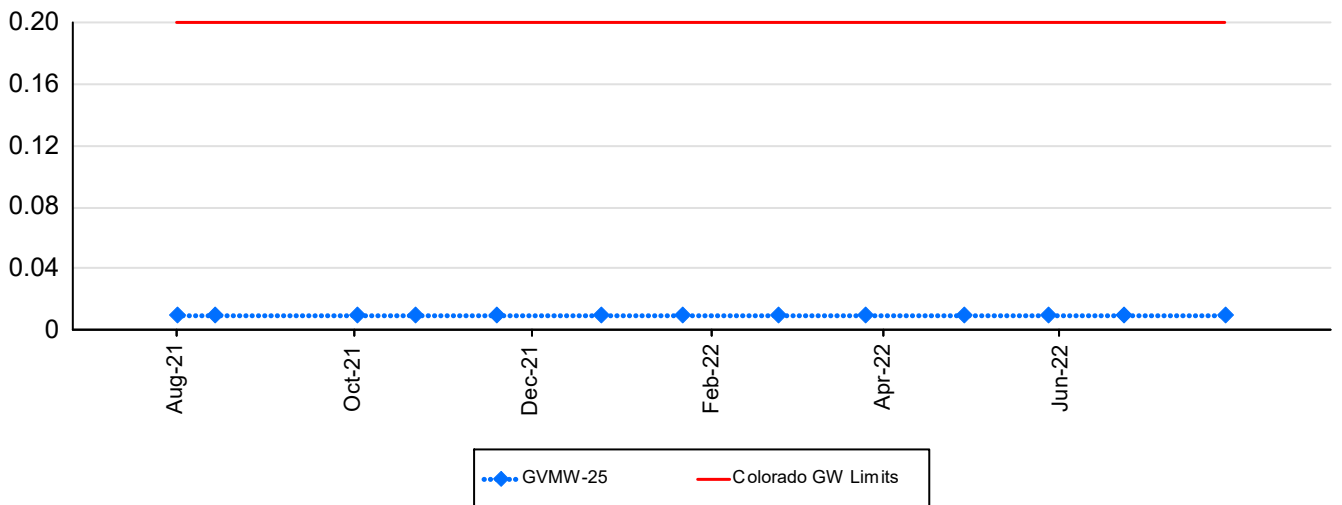
: Cyanide - Free (mg/L)



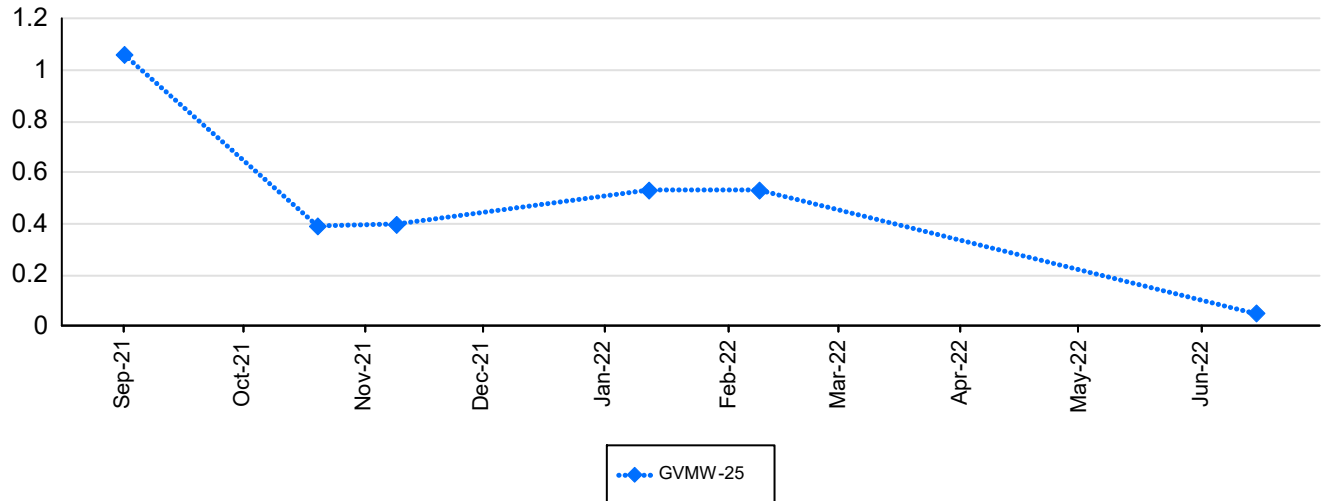
: Cyanide - Total (mg/L)



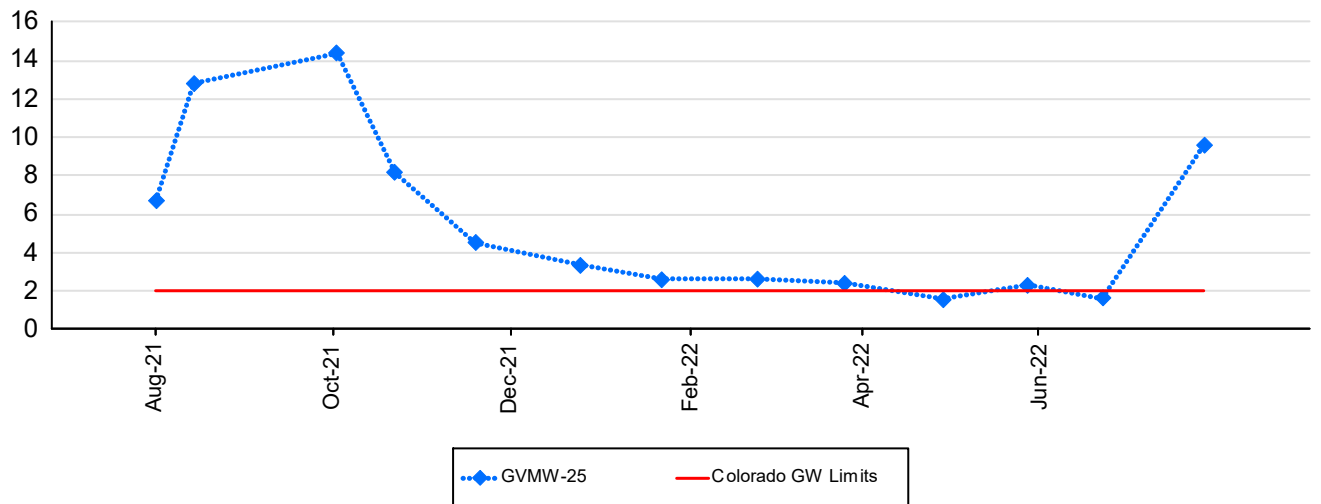
: Cyanide - WAD (mg/L)



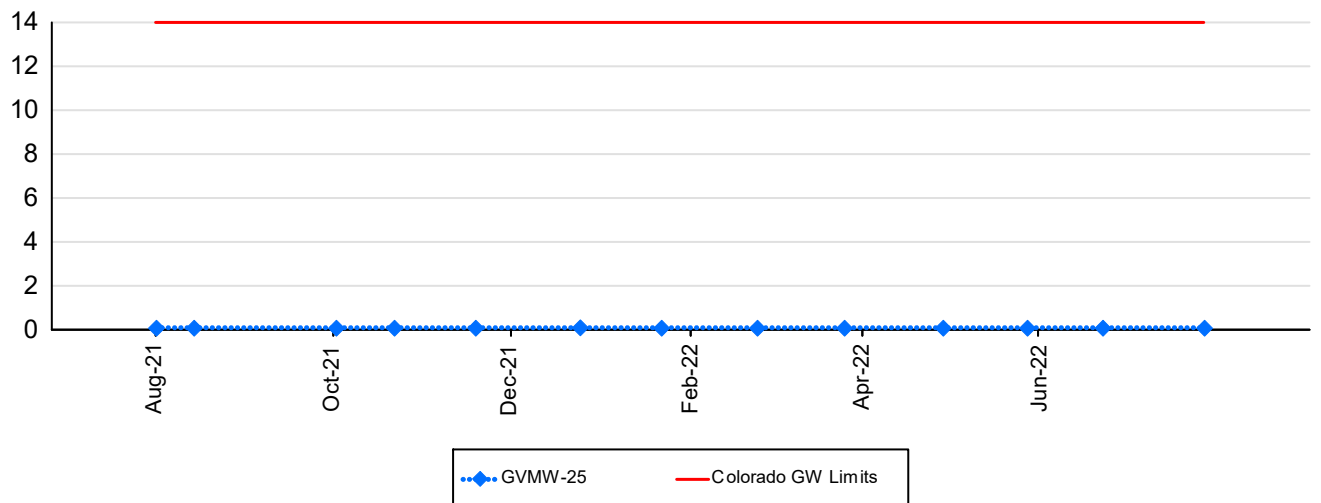
: Flow (gpm)



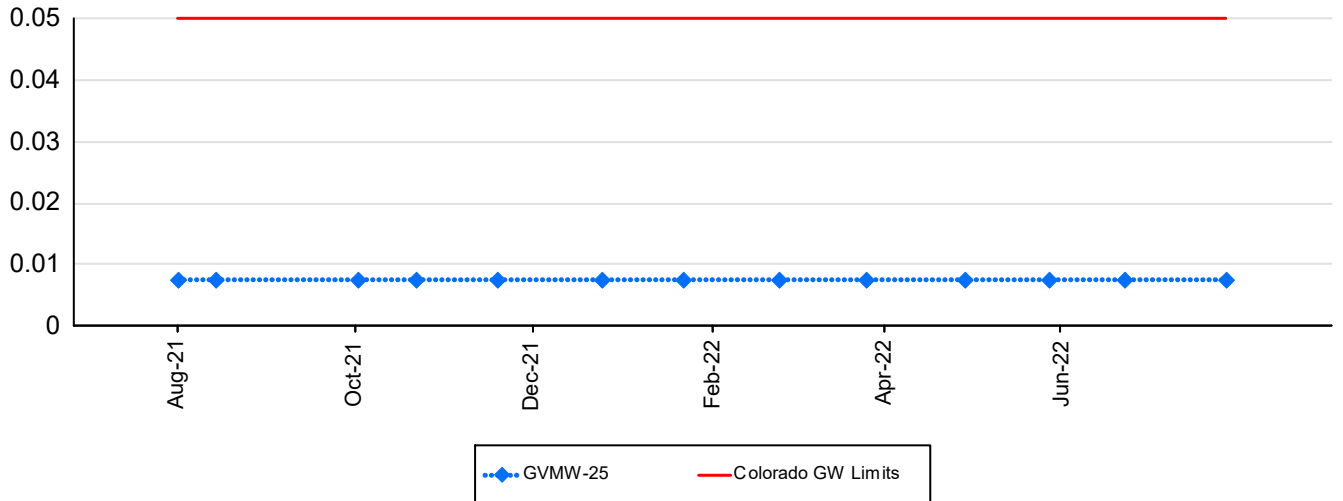
: Fluoride - Total F (mg/L)



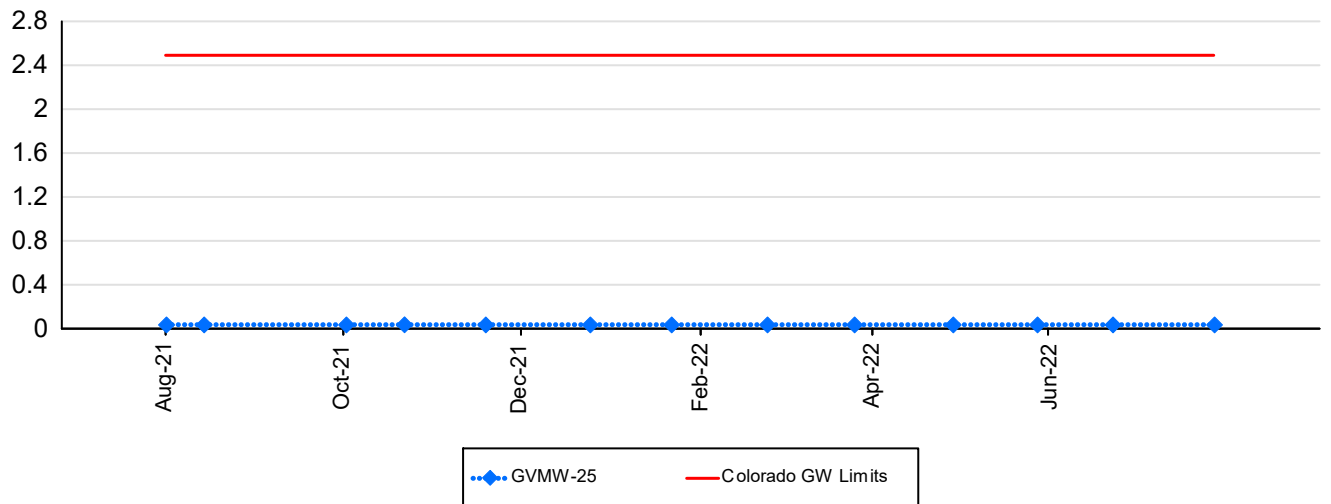
: Iron - Dissolved (mg/L)



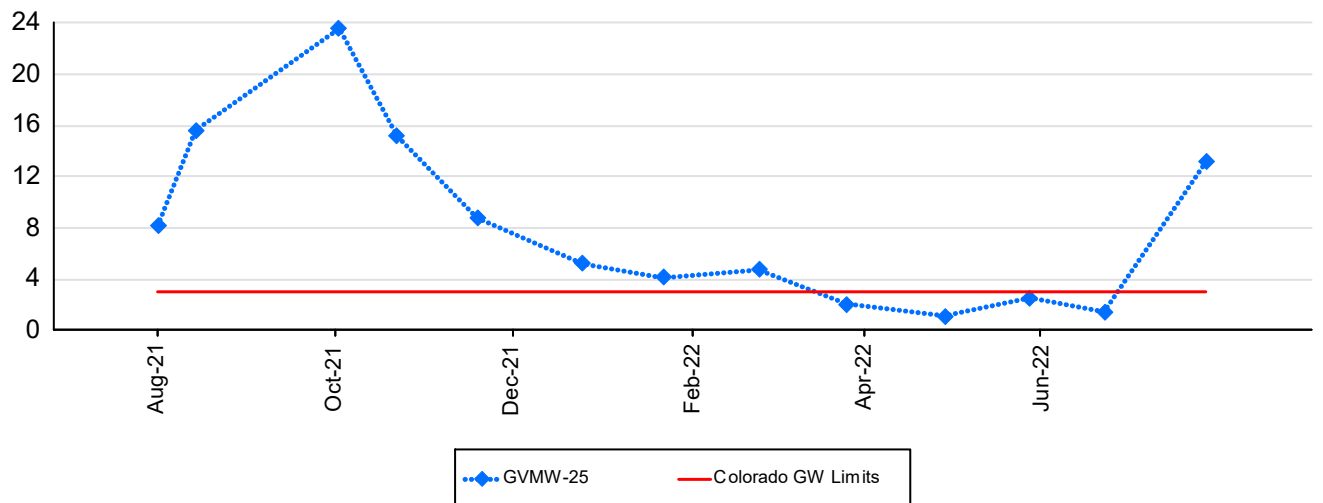
: Lead - Dissolved (mg/L)



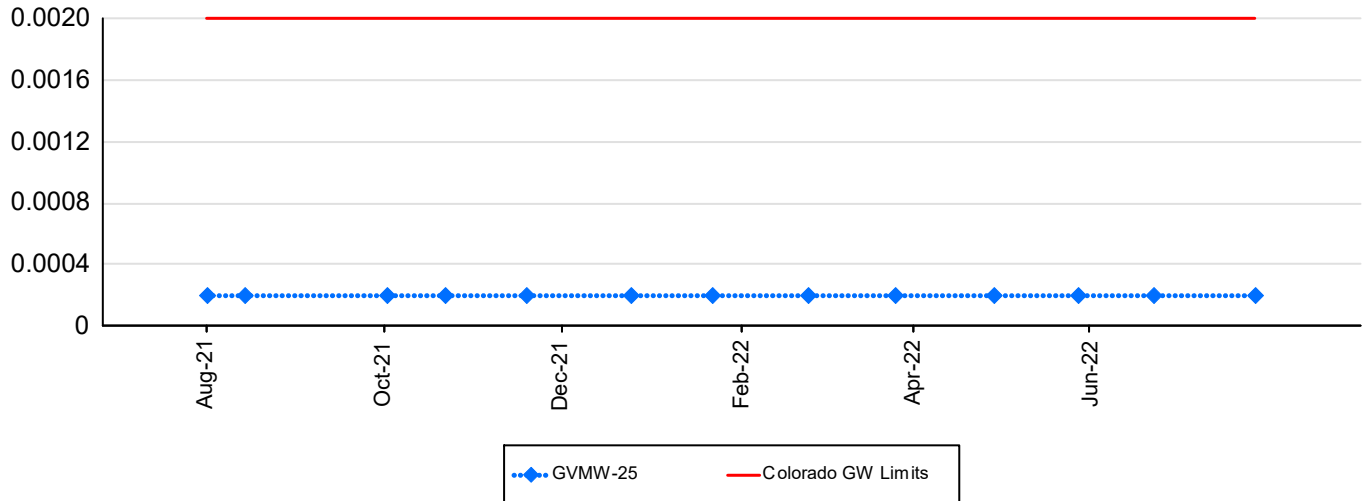
: Lithium - Dissolved (mg/L)



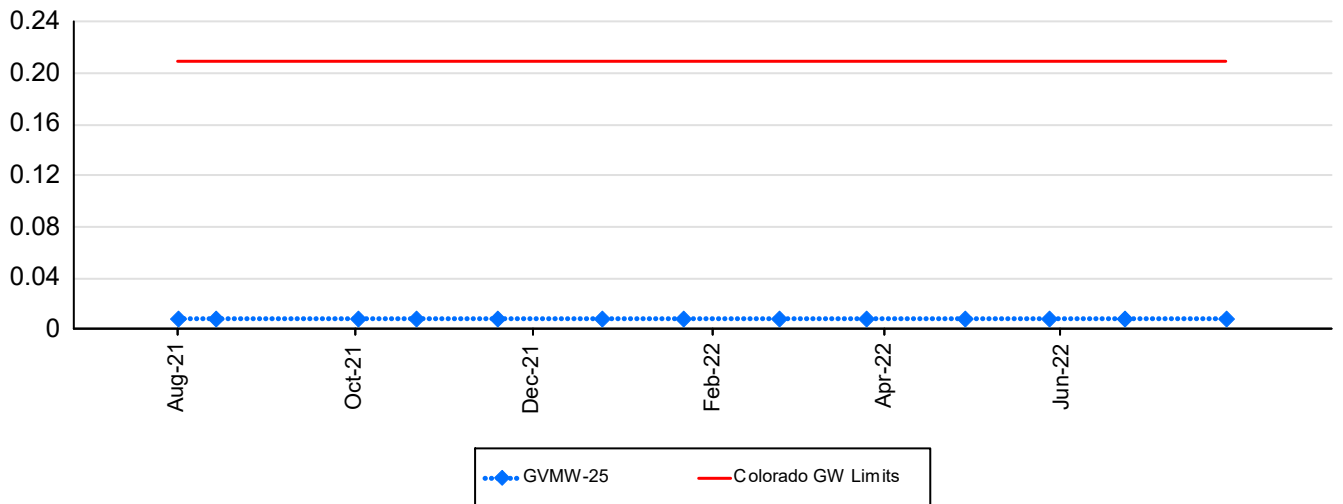
: Manganese - Dissolved (mg/L)



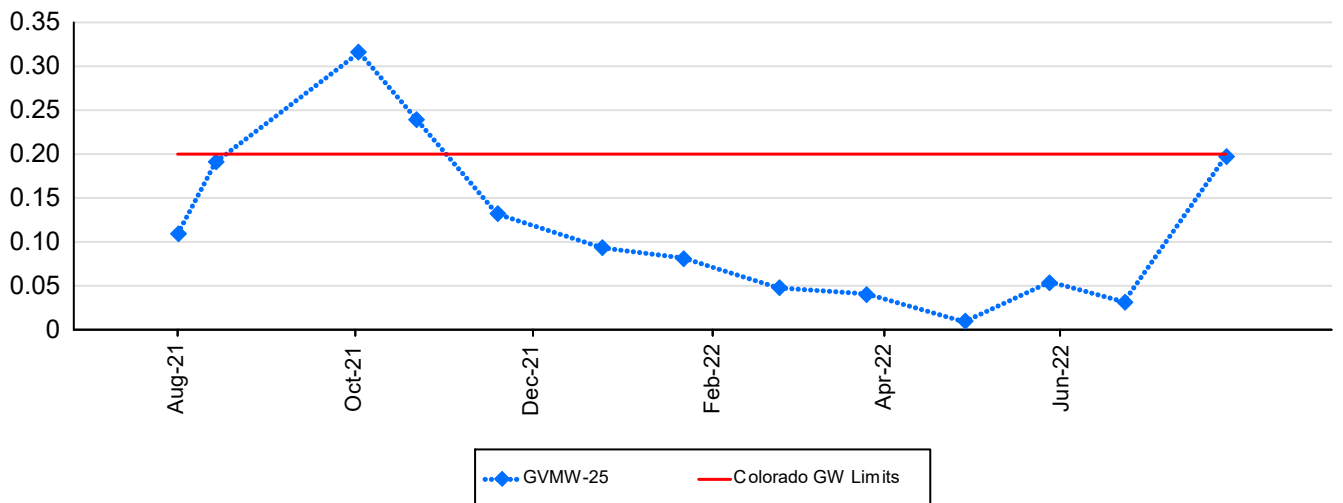
: Mercury - Dissolved (mg/L)



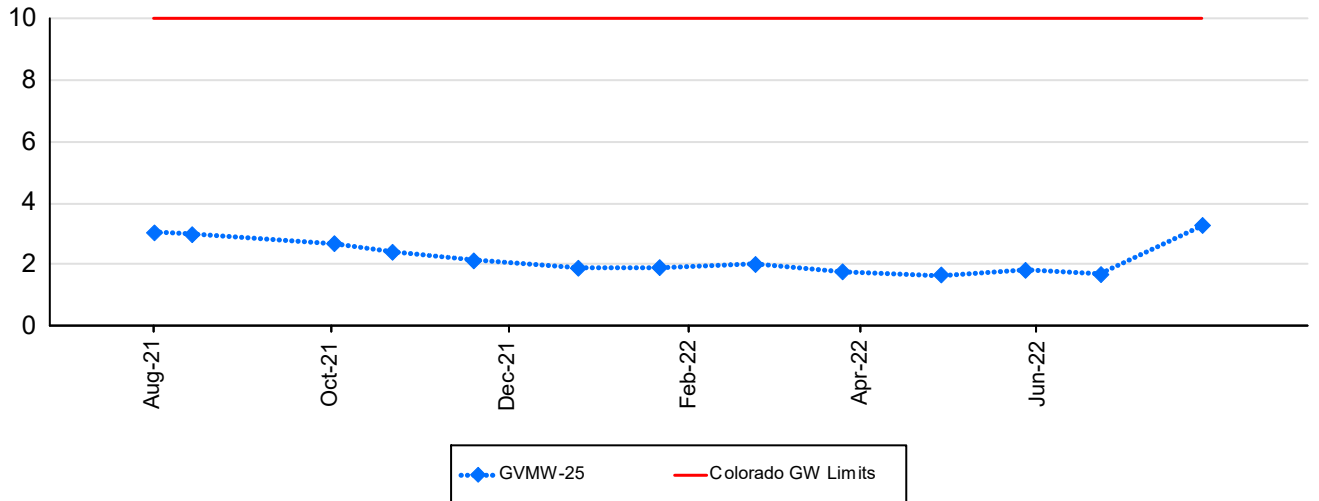
: Molybdenum - Dissolved (mg/L)



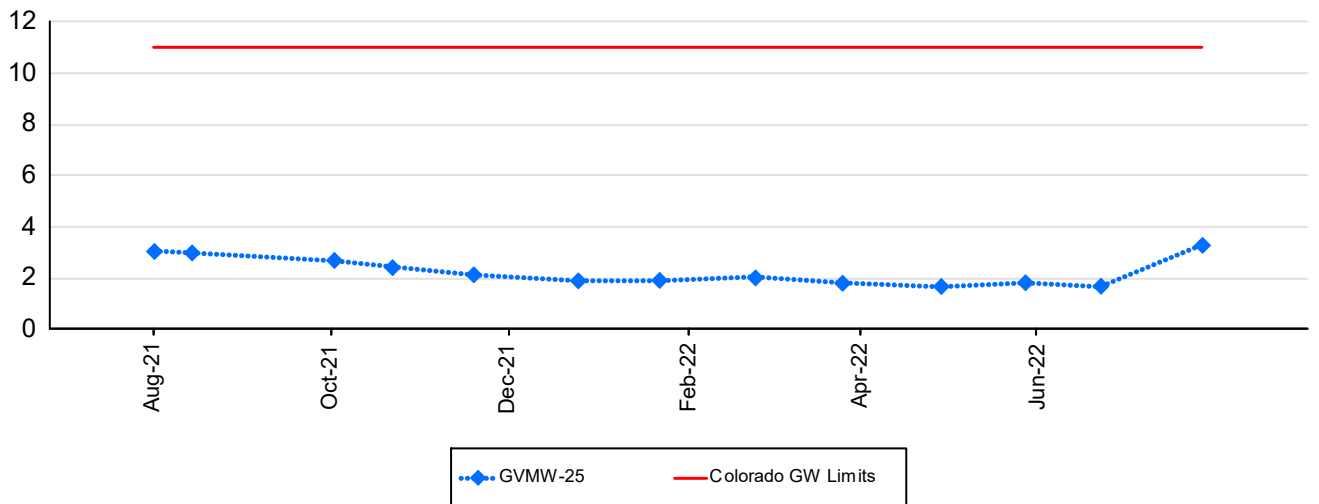
: Nickel - Dissolved (mg/L)



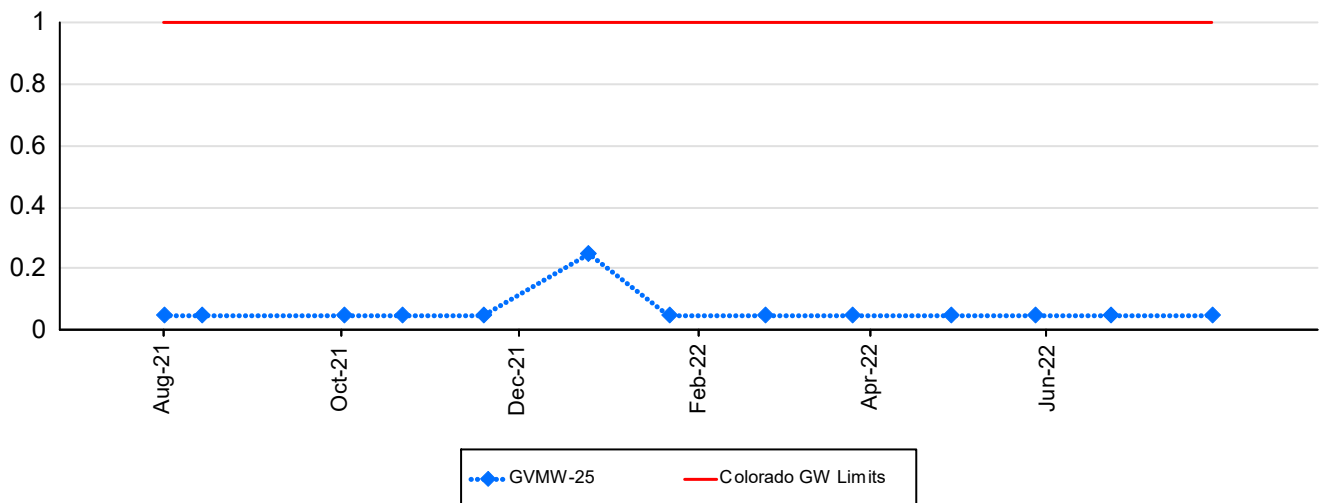
: Nitrate as Nitrogen (mg/L)



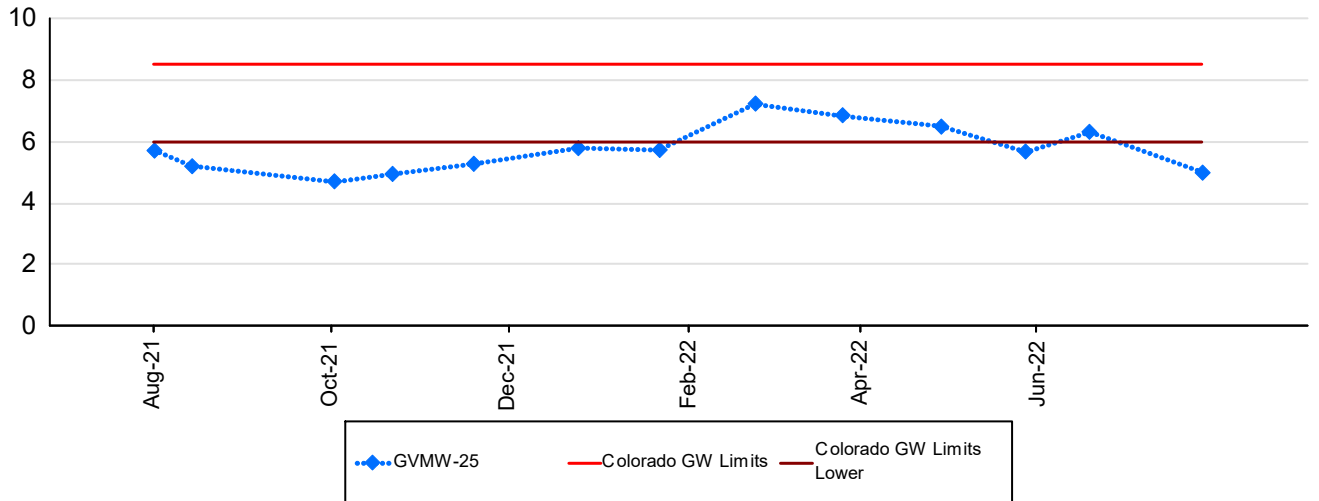
: Nitrite + Nitrate as Nitrogen (mg/L)



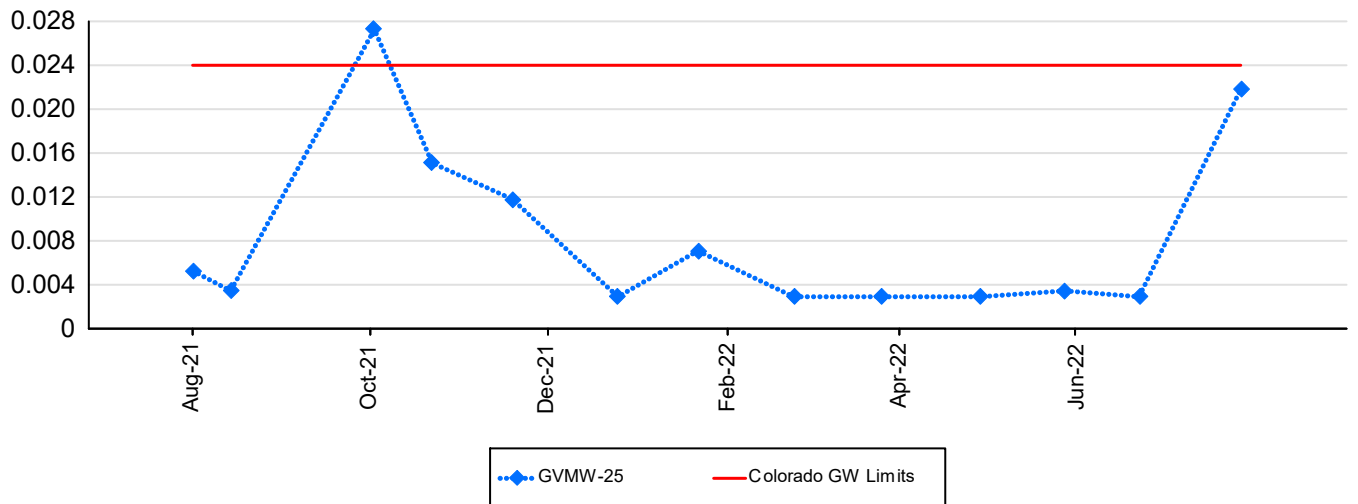
: Nitrite as Nitrogen (mg/L)



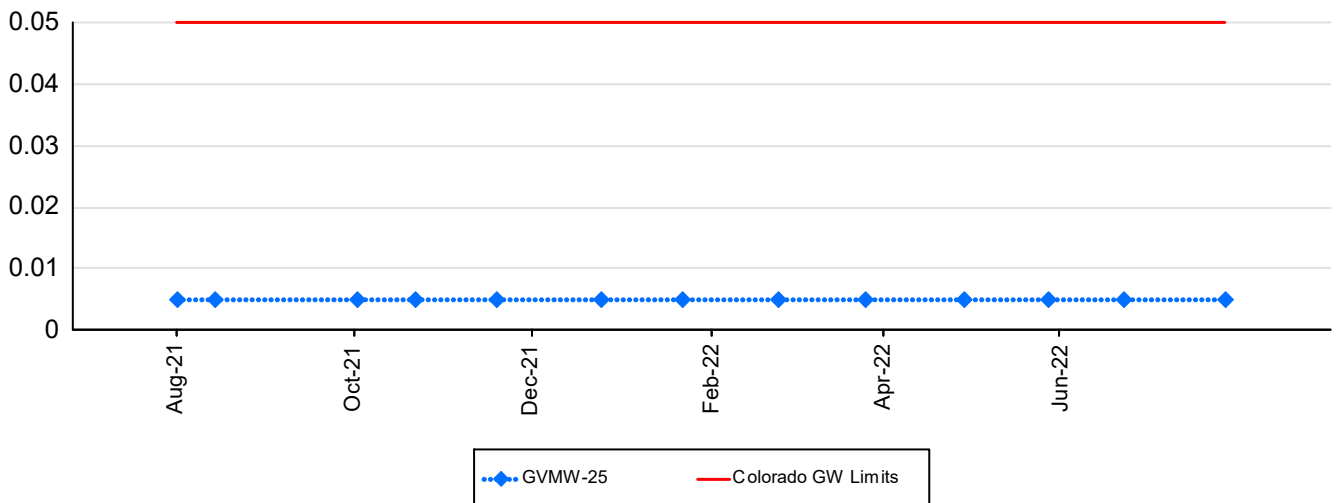
: pH Field (pH unit)



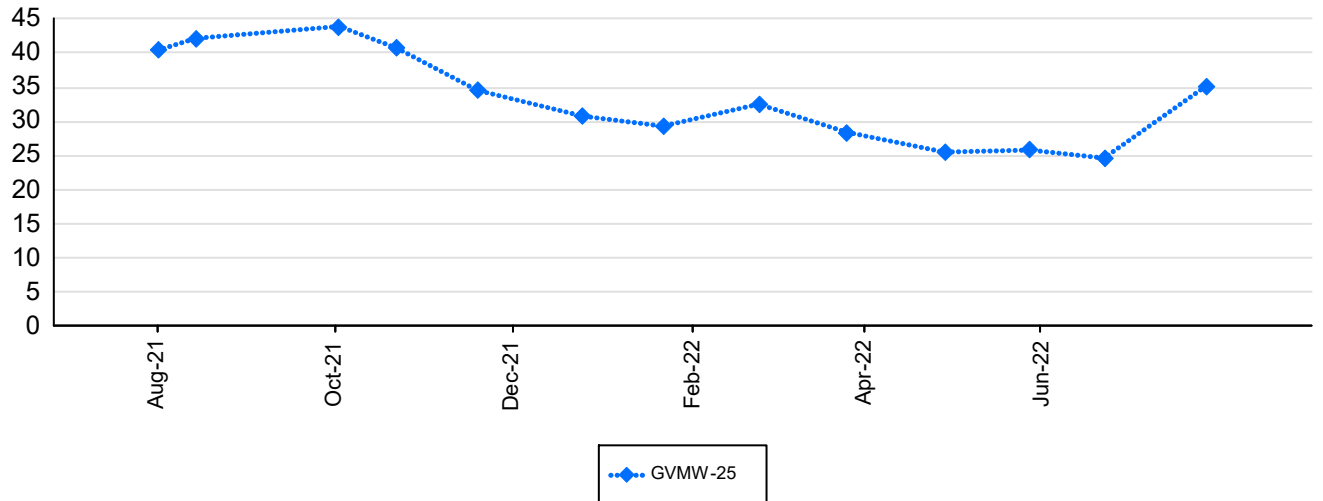
: Selenium - Dissolved (mg/L)



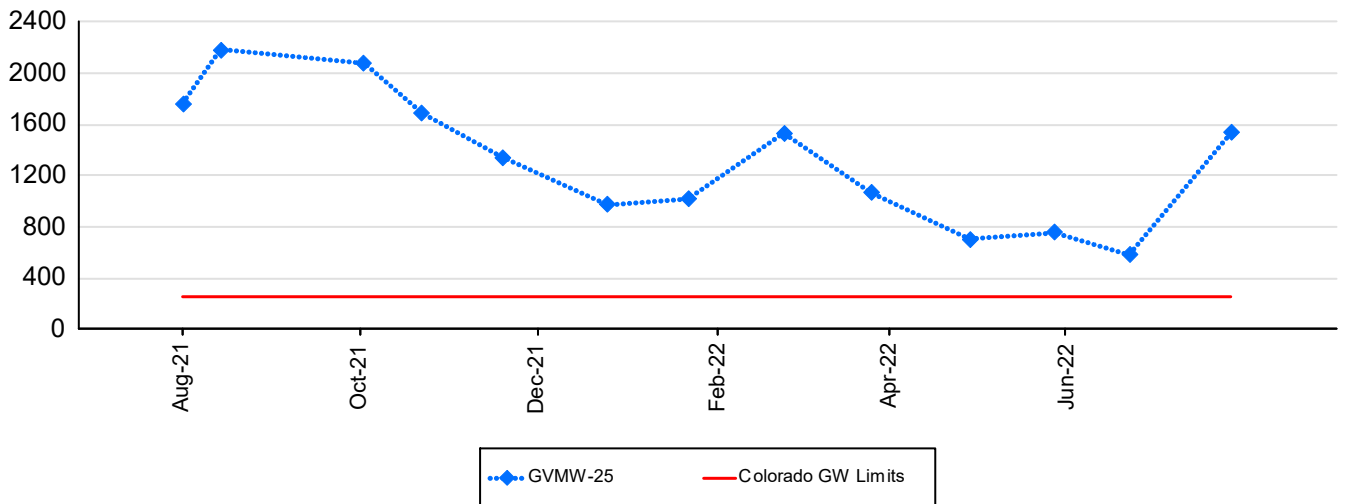
: Silver - Dissolved (mg/L)



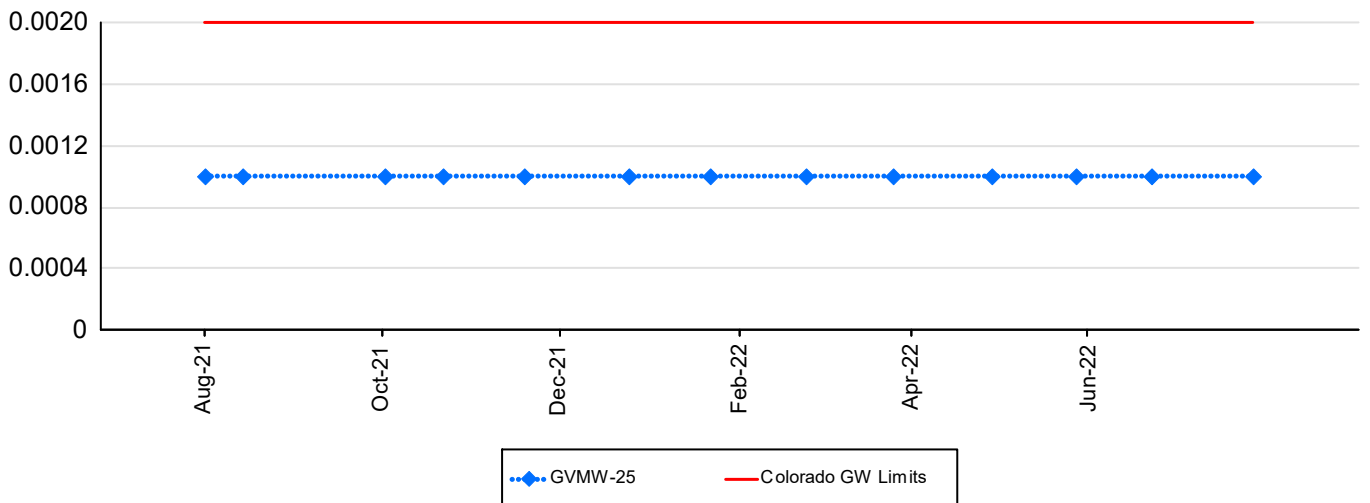
: Sodium - Dissolved (mg/L)



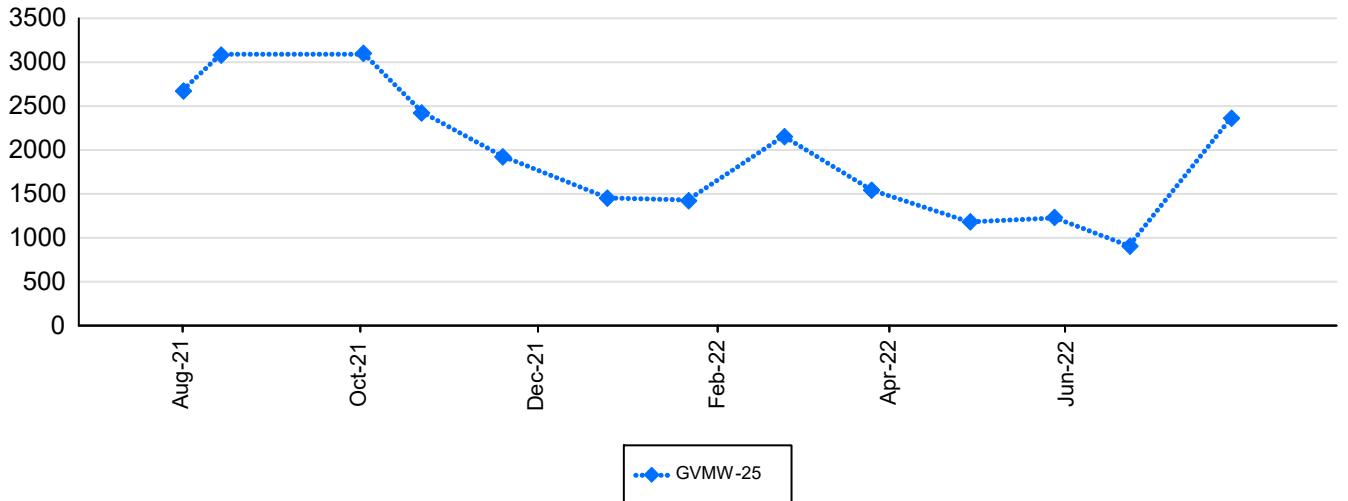
: Sulfate - Total (mg/L)



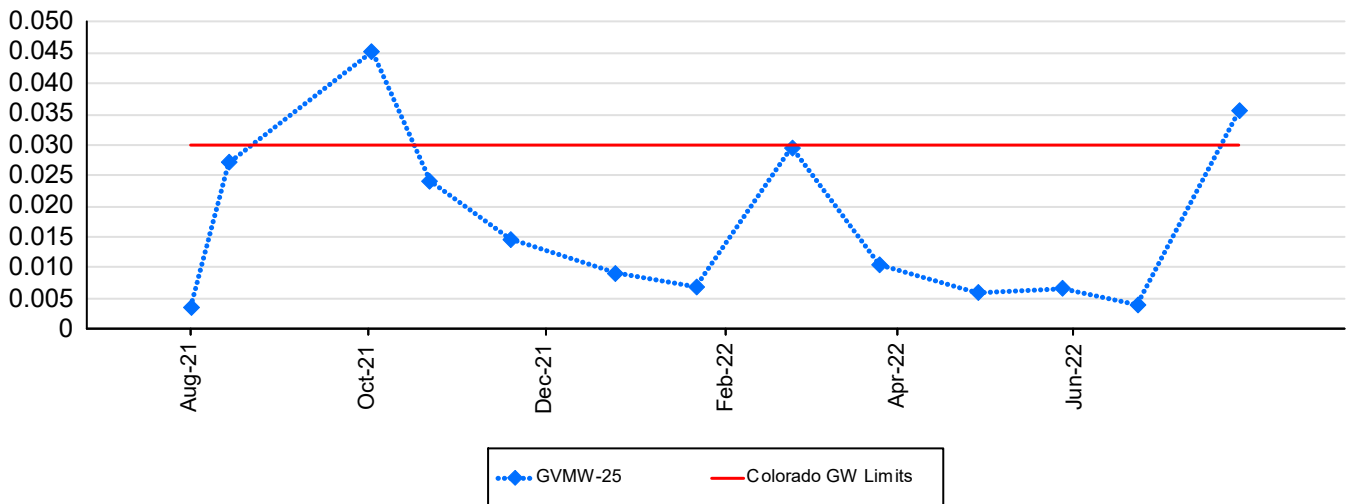
: Thallium - Dissolved (mg/L)



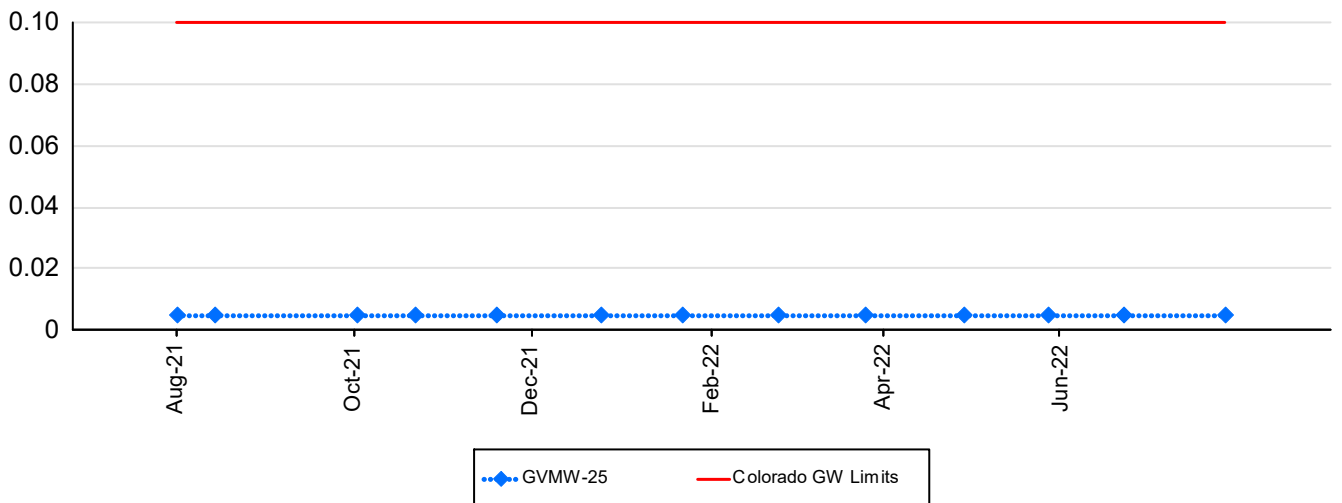
: Total Dissolved Solids (mg/L)



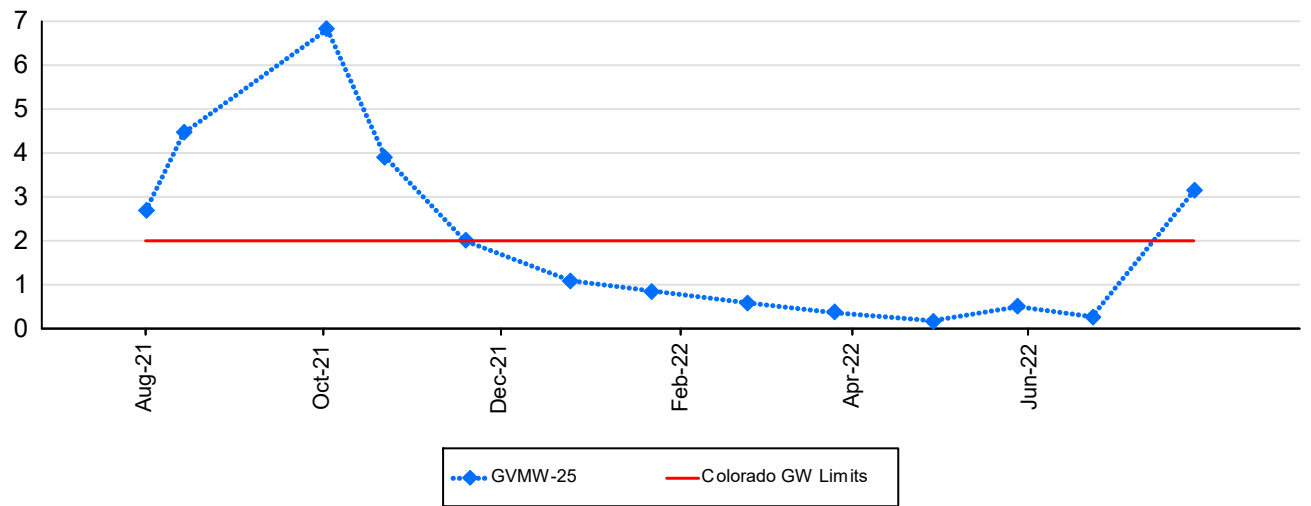
: Uranium - Dissolved (mg/L)



: Vanadium - Dissolved (mg/L)



: Zinc - Dissolved (mg/L)





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

Project Name: Cripple Creek/Victor Water and Soil 2022Work Order: **X2H0261**

Reported: 30-Aug-22 12:52

Client Sample ID: **GVMW-25**

Sampled: 15-Aug-22 13:40

Received: 16-Aug-22

Sampled By: BOD

SVL Sample ID: **X2H0261-02 (Ground Water)****Sample Report Page 1 of 2**

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

EPA 200.7	Calcium	407	mg/L	0.100	0.035		X235019	AS	08/23/22 09:13	
EPA 200.7	Magnesium	106	mg/L	0.500	0.045		X235019	AS	08/23/22 09:13	
EPA 200.7	Potassium	4.51	mg/L	0.50	0.09		X235019	AS	08/23/22 09:13	
SM 2340 B	Hardness (as CaCO3)	1410	mg/L	2.31	0.543		N/A		08/23/22 09:13	

Metals (Dissolved)

EPA 200.7	Aluminum	21.7	mg/L	0.080	0.054		X234085	AS	08/25/22 07:43	
EPA 200.7	Barium	0.0169	mg/L	0.0020	0.0019		X234085	AS	08/25/22 07:43	
EPA 200.7	Beryllium	0.0450	mg/L	0.00200	0.00080		X234085	AS	08/25/22 07:43	
EPA 200.7	Boron	< 0.0400	mg/L	0.0400	0.0078		X234085	AS	08/25/22 07:43	
EPA 200.7	Cadmium	0.0896	mg/L	0.0020	0.0016		X234085	AS	08/25/22 07:43	
EPA 200.7	Calcium	395	mg/L	0.100	0.069		X234085	AS	08/25/22 07:43	
EPA 200.7	Chromium	< 0.0060	mg/L	0.0060	0.0020		X234085	AS	08/25/22 07:43	
EPA 200.7	Cobalt	0.0234	mg/L	0.0060	0.0046		X234085	AS	08/25/22 07:43	
EPA 200.7	Copper	0.0331	mg/L	0.0100	0.0027		X234085	AS	08/25/22 07:43	
EPA 200.7	Iron	< 0.100	mg/L	0.100	0.056		X234085	AS	08/25/22 07:43	
EPA 200.7	Lead	< 0.0075	mg/L	0.0075	0.0049		X234085	AS	08/25/22 07:43	
EPA 200.7	Lithium	0.040	mg/L	0.040	0.025		X234085	AS	08/25/22 07:43	
EPA 200.7	Magnesium	103	mg/L	0.500	0.090		X234085	AS	08/25/22 07:43	
EPA 200.7	Manganese	13.2	mg/L	0.0080	0.0034		X234085	AS	08/25/22 07:43	
EPA 200.7	Molybdenum	< 0.0080	mg/L	0.0080	0.0034		X234085	AS	08/25/22 07:43	
EPA 200.7	Nickel	0.198	mg/L	0.0100	0.0048		X234085	AS	08/25/22 07:43	
EPA 200.7	Potassium	4.37	mg/L	0.50	0.18		X234085	AS	08/25/22 07:43	
EPA 200.7	Silver	< 0.0050	mg/L	0.0050	0.0019		X234085	AS	08/25/22 07:43	
EPA 200.7	Sodium	35.1	mg/L	0.50	0.12		X234085	AS	08/25/22 07:43	
EPA 200.7	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X234085	AS	08/25/22 07:43	
EPA 200.7	Zinc	3.17	mg/L	0.0100	0.0054		X234085	AS	08/25/22 07:43	
EPA 200.8	Antimony	< 0.00300	mg/L	0.00300	0.00072		X234113	JFB	08/23/22 18:35	
EPA 200.8	Arsenic	0.00351	mg/L	0.00300	0.00021		X234113	JFB	08/22/22 22:11	
EPA 200.8	Selenium	0.0219	mg/L	0.00300	0.00024		X234113	JFB	08/22/22 22:11	
EPA 200.8	Thallium	< 0.00100	mg/L	0.00100	0.00008		X234113	JFB	08/22/22 22:11	
EPA 200.8	Uranium	0.0356	mg/L	0.00100	0.000052		X234113	JFB	08/22/22 22:11	

Metals (Filtered)

EPA 245.1	Mercury	< 0.000200	mg/L	0.000200	0.000093		X235132	MWD	08/26/22 11:34	
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Classical Chemistry Parameters

ASTM D7237	Cyanide (free) @ pH 6 @19.0°C	< 0.0050	mg/L	0.0050	0.0048		X234005	HJL	08/18/22 13:19	
EPA 335.4	Cyanide (total)	< 0.0050	mg/L	0.0050	0.0038		X234093	KJR	08/18/22 14:45	
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X235027	KJR	08/24/22 14:28	
OIA 1677	Cyanide (WAD)	< 0.0100	mg/L	0.0100	0.0010		X234006	HJL	08/18/22 10:23	
SM 2310 B	Acidity to pH 8.3	129	mg/L as CaCO3	10.0			X235057	MWD	08/22/22 11:08	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X234209	MWD	08/20/22 13:19	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X234209	MWD	08/20/22 13:19	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X234209	MWD	08/20/22 13:19	
SM 2320 B	Hydroxide	< 1.0	mg/L as CaCO3	1.0			X234209	MWD	08/20/22 13:19	
SM 2540 C	Total Diss. Solids	2370	mg/L	10			X234184	TJL	08/19/22 13:40	
SM 2540 D	Total Susp. Solids	7.0	mg/L	5.0			X234185	TJL	08/19/22 13:40	
SM 4500 H B	pH @23.9°C	4.6	pH Units				X234209	MWD	08/20/22 13:19	H5

SVL holds the following certifications:

AZ:0538, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, SC:58004001, UT(TNI):ID000192015-1, WA:C573

Work order Report Page 4 of 15



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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: **X2H0261**

Reported: 30-Aug-22 12:52

Client Sample ID: **GVMW-25**

Sampled: 15-Aug-22 13:40

Received: 16-Aug-22

Sampled By: BOD

SVL Sample ID: **X2H0261-02 (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	22.2	mg/L	10.0	1.10	50	X234063	SMU	08/16/22 13:22	D2
EPA 300.0	Fluoride	9.59	mg/L	5.00	0.850	50	X234063	SMU	08/16/22 13:22	D2
EPA 300.0	Nitrate as N	3.28	mg/L	0.050	0.013		X234063	SMU	08/16/22 13:05	
EPA 300.0	Nitrate+Nitrite as N	3.28	mg/L	0.100	0.044		X234063	RS	08/16/22 13:05	
EPA 300.0	Nitrite as N	< 0.050	mg/L	0.050	0.031		X234063	RS	08/16/22 13:05	
EPA 300.0	Sulfate as SO4	1540	mg/L	15.0	9.00	50	X234063	SMU	08/16/22 13:22	D2

Cation/Anion Balance and TDS Ratios

Cation Sum: 32.8 meq/L Anion Sum: 33.4 meq/L C/A Balance: -0.94 % Calculated TDS: 2131 TDS/cTDS: 1.11

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

Herman J. Haring
Project Manager