

April 04, 2023

Colorado Division of Reclamation, Mining, and Safety
1313 Sherman St, Rm 215
Denver, CO 80203

Delivered Via Email

RE: Q1 2023 Water Sampling Results
Gold Hill Mill, Permit No. M-1994-117
Cash Mine, Permit No. M-1983-141

To Whom It May Concern

The first quarter, 2023 ("Q1/23") water sampling was conducted by Lewis Perkins, Colorado Milling Company, on March 14, 2023.

- **Trace Element & Related Data:** Five monitoring stations were sampled for arsenic, cadmium, manganese, zinc, total dissolved solids ("residue") and sulfate. Analyses were performed by Colorado Analytical Laboratories Inc., based in Denver. Copies of their original laboratory analytical reports are included in this submittal.
- **Other Data:** Water depth, temperature and pH data were gathered in the field during sampling and are included in this submittal.

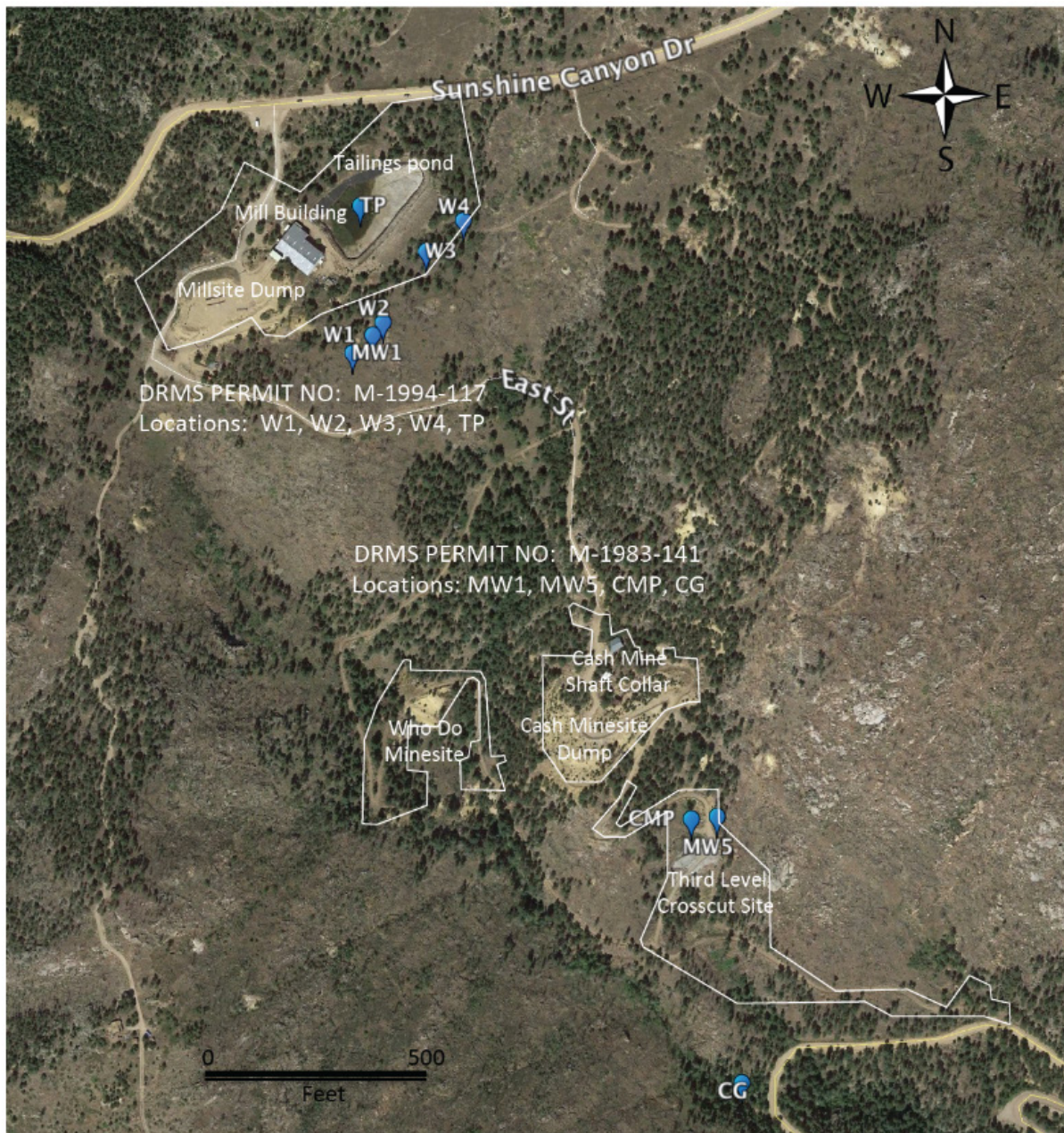
Note that zero values in the graphs represent "non-detect" results. Surface locations were frozen, and as such were unsamplable.

Please contact me with any questions.

Regards,



Ben Langenfeld, P.E.
Lewicki & Associates, PLLC
(720) 842-5321, ex. 1
benl@lewicki.biz

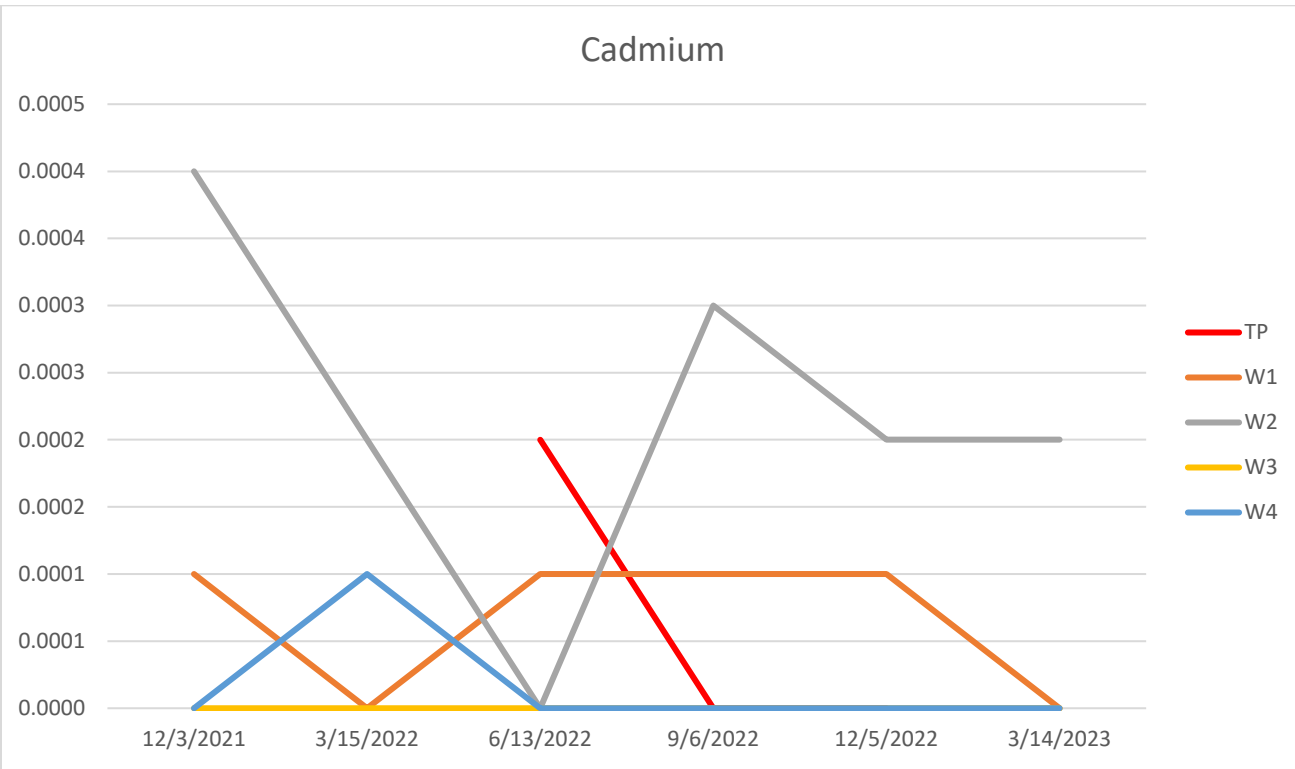
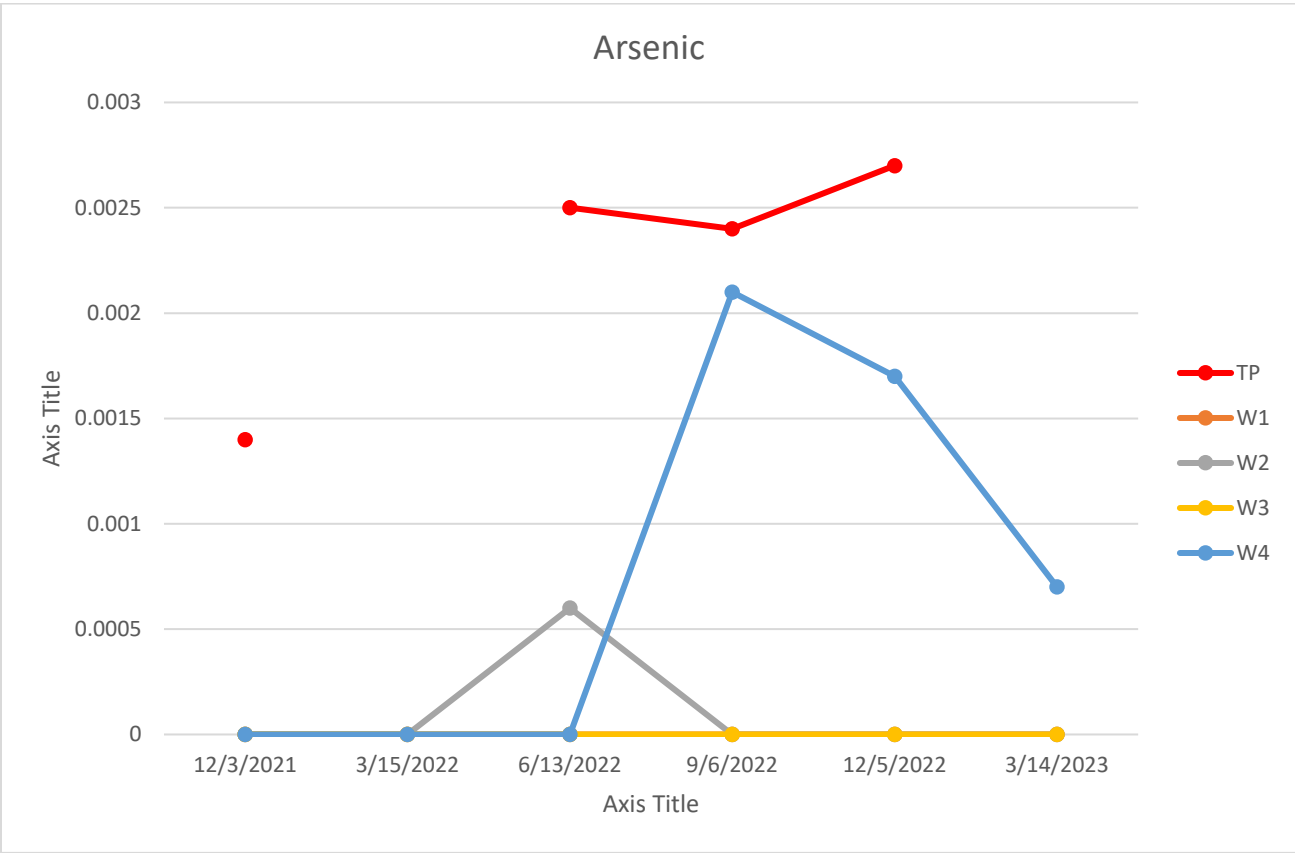


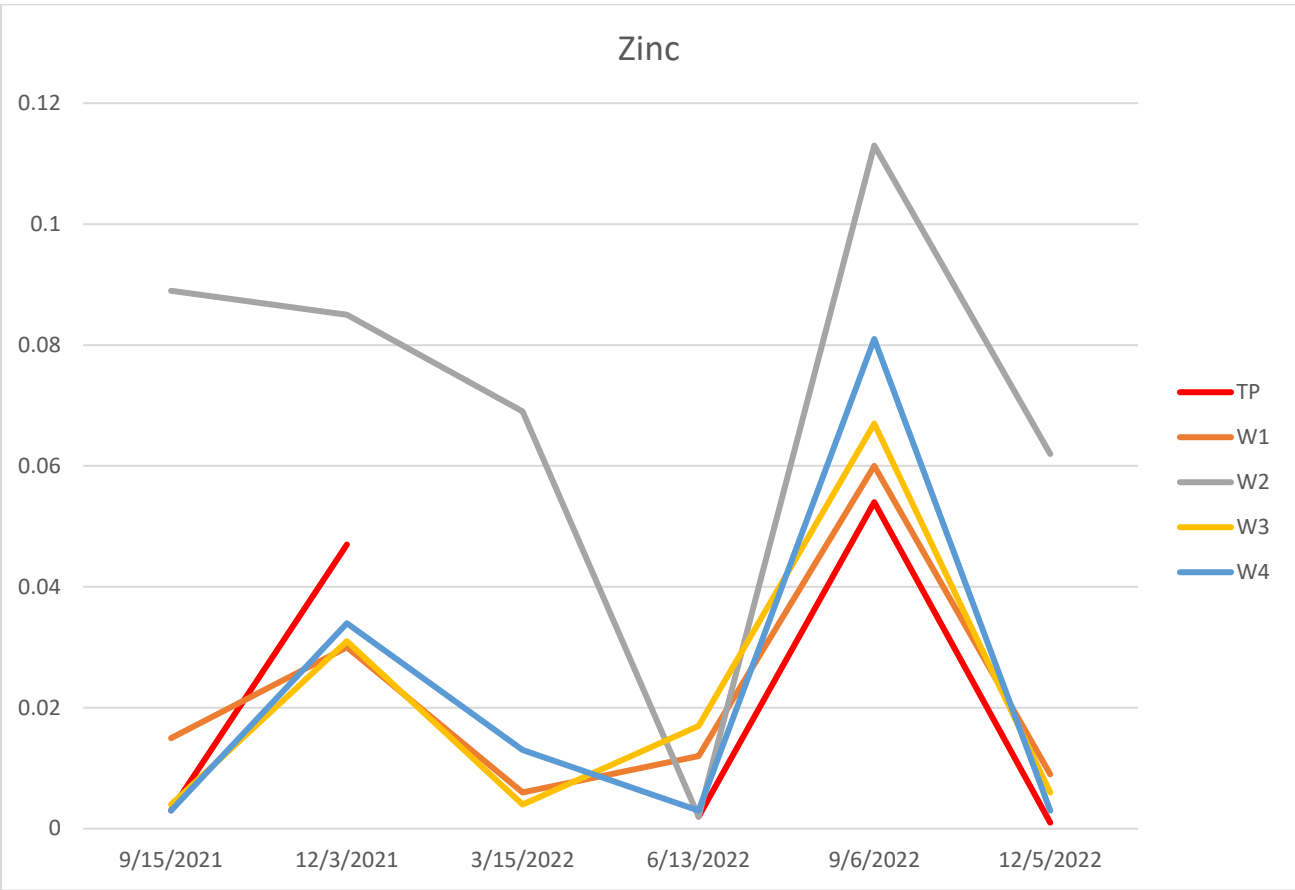
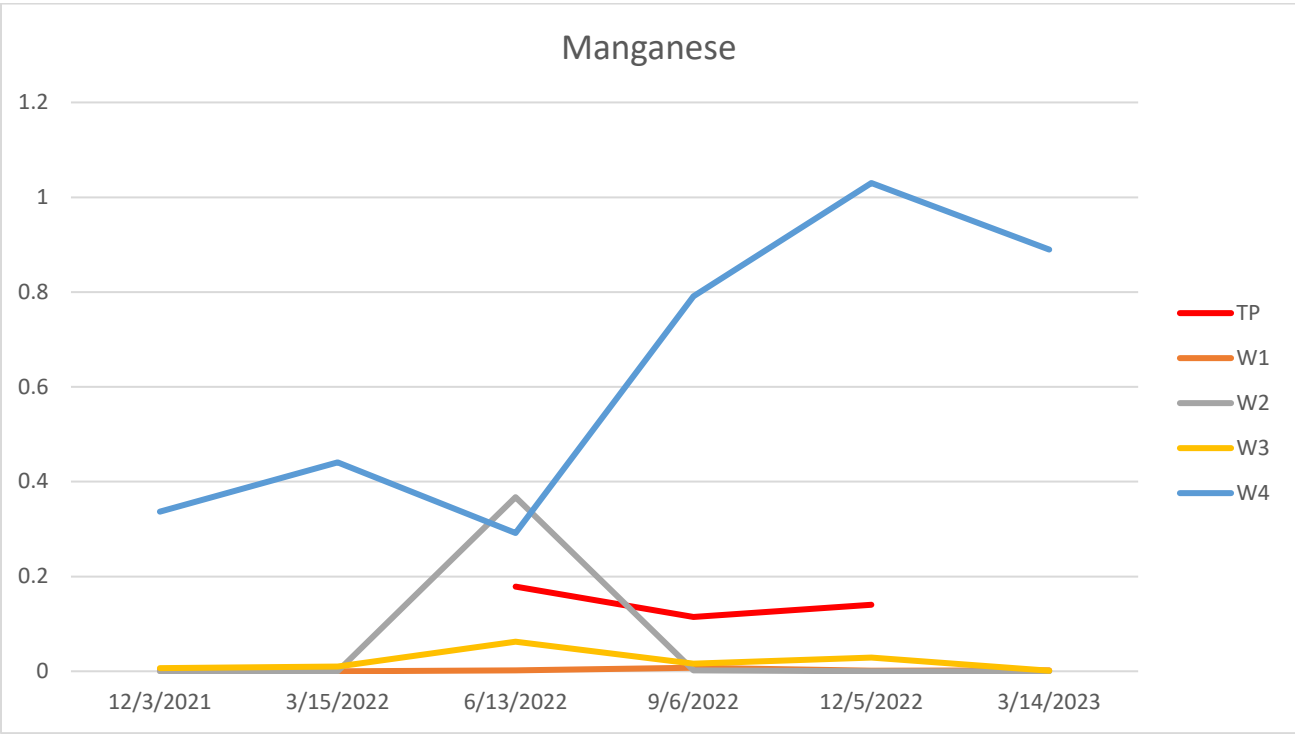
Map showing locations of water monitoring stations for permits M-1994-117 & M-1983-141

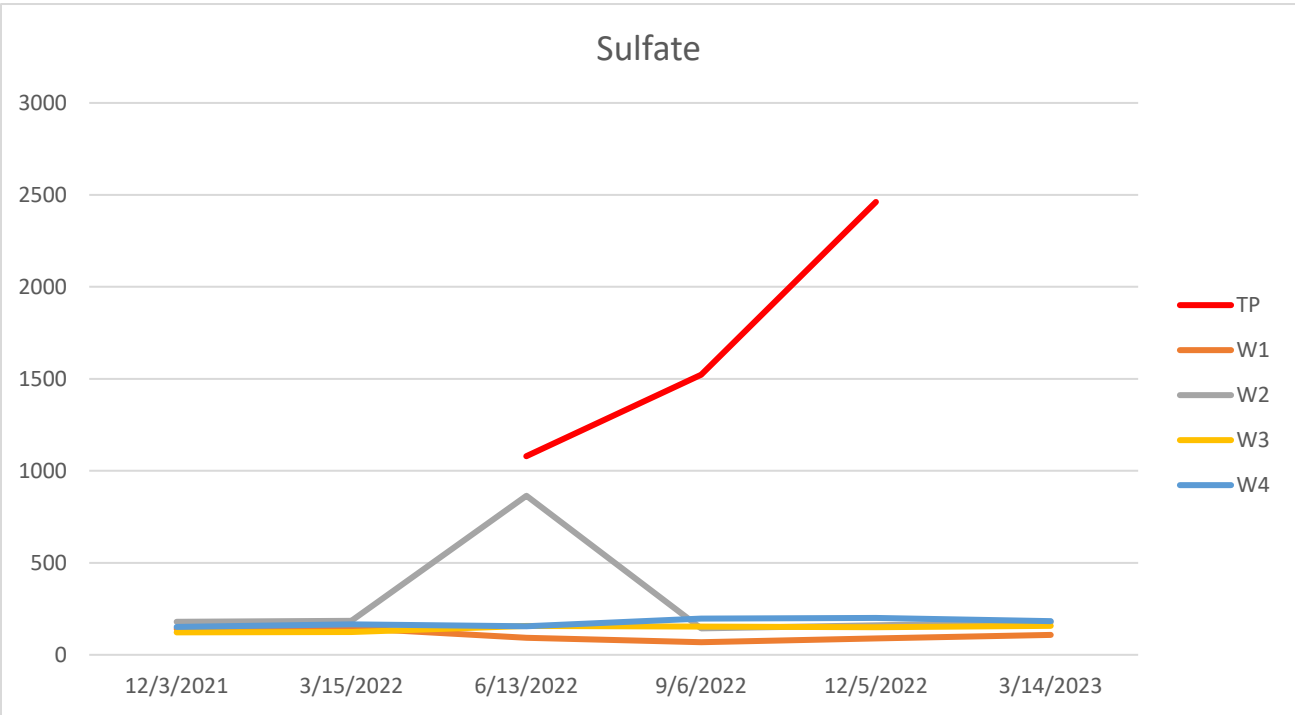
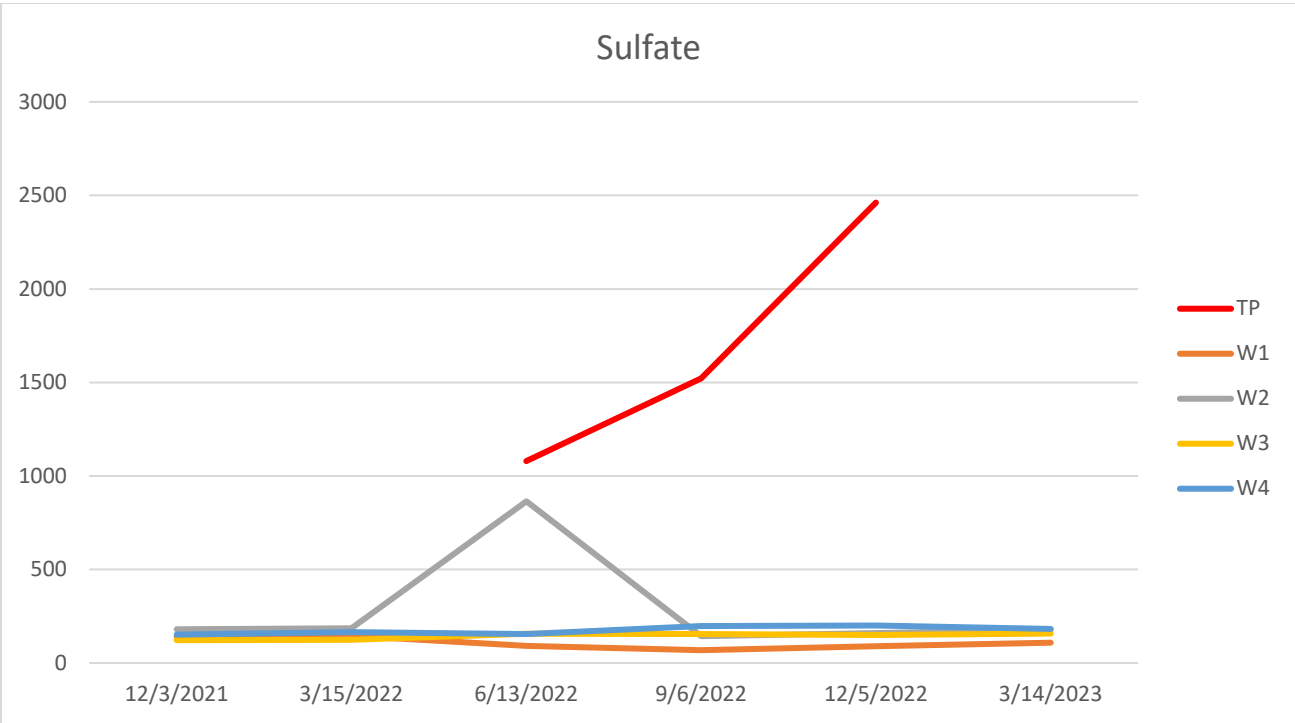
Locations		Well Measurements					Water Analyses (ppm/mg/L)							
Locations ID	Date	Time	Depth	pH	Temp (C)	Conductivity (uS/cm)	Sample ID	Date	As	Cd	Mn	Zn	Residue	Sulfate
Gold Hill Mill M-1994-117														
W-1	03/14/23	13:15	42.7	7.88	9.2	450	230315030	03/20/23	0	0	0.0016	0.005	262	108.06
W-2	03/14/23	13:20	61	7.65	9.4	593	230315030	03/20/23	0	0.0002	0	0.052	388	178.58
W-3	03/14/23	13:55	31.4	7.56	8.3	639	230315030	03/20/23	0	0	0.0012	0.005	393	157.47
W-4	03/14/23	14:15	36.6	7.42	8.1	782	230315030	03/20/23	0.0007	0	0.8898	0.003	474	183.01
TP		N/A	FROZEN											
Cash Mine M-1983-141														
MW-1	03/14/23	12:55	64.8	7.65	9.3	1667	230315030	03/20/23	0	0	0.3545	0.002	1408	918.98
MW-5	03/14/23	15:40	22.5	7.64	9.7	929	230315030	03/20/23	0.001	0	0.1898	0	652	276.58
CG		N/A	FROZEN											
CMP		N/A	FROZEN											

Analytes from lab analysis are dissolved.

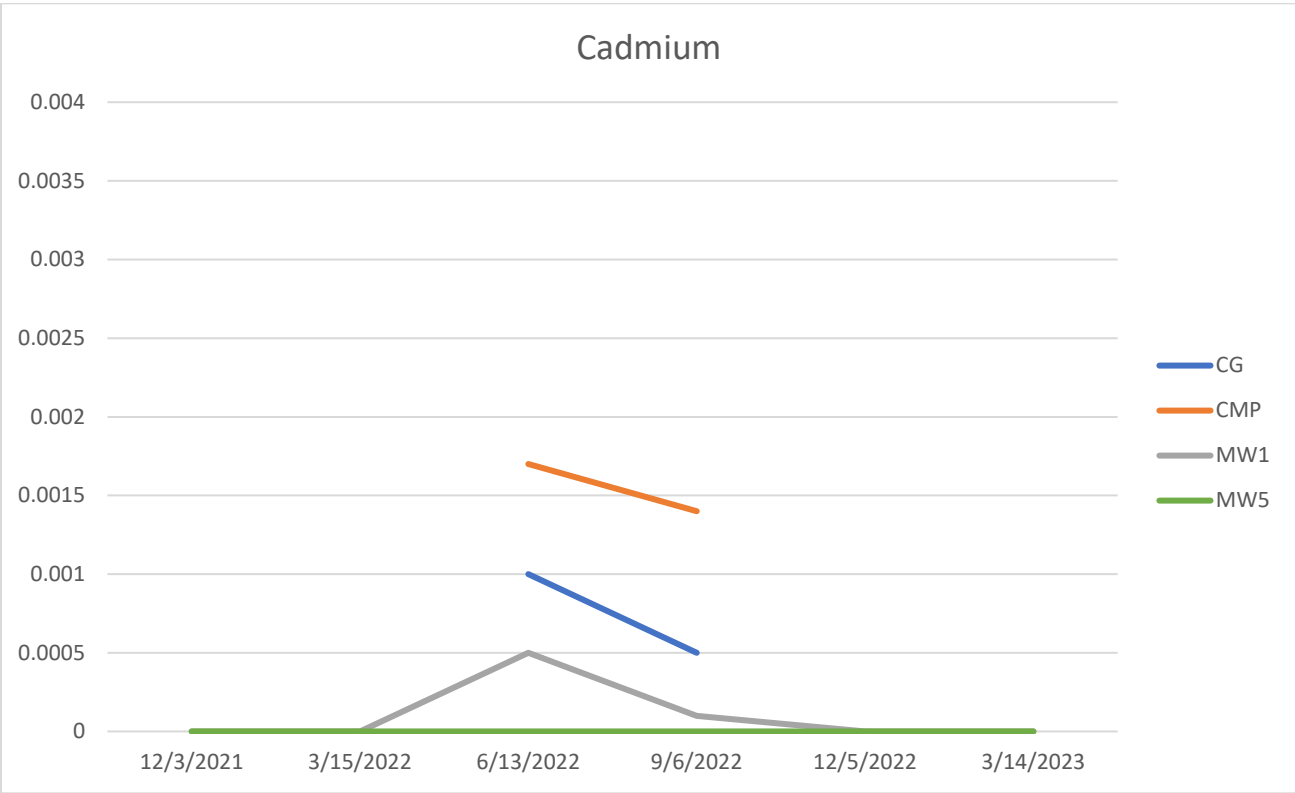
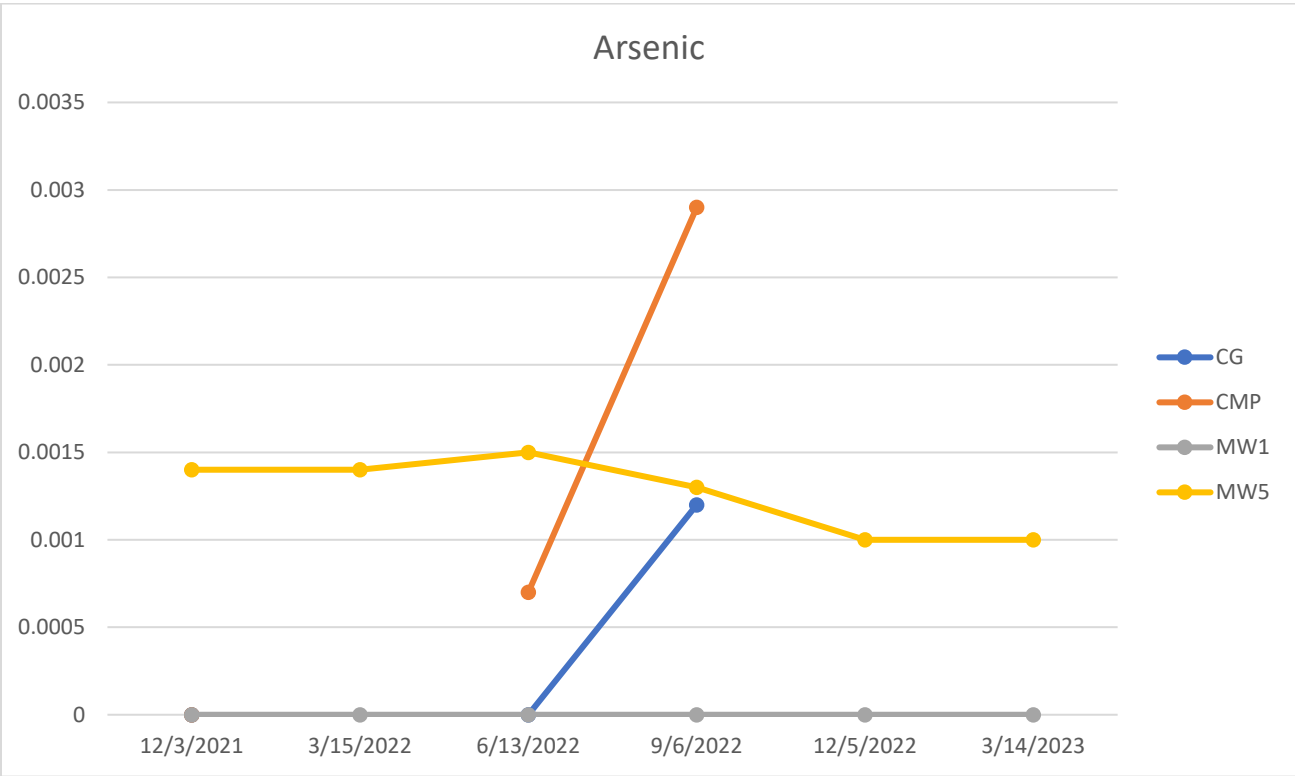
Gold Hill Mill Analyte Graphs for the Past Five Quarters

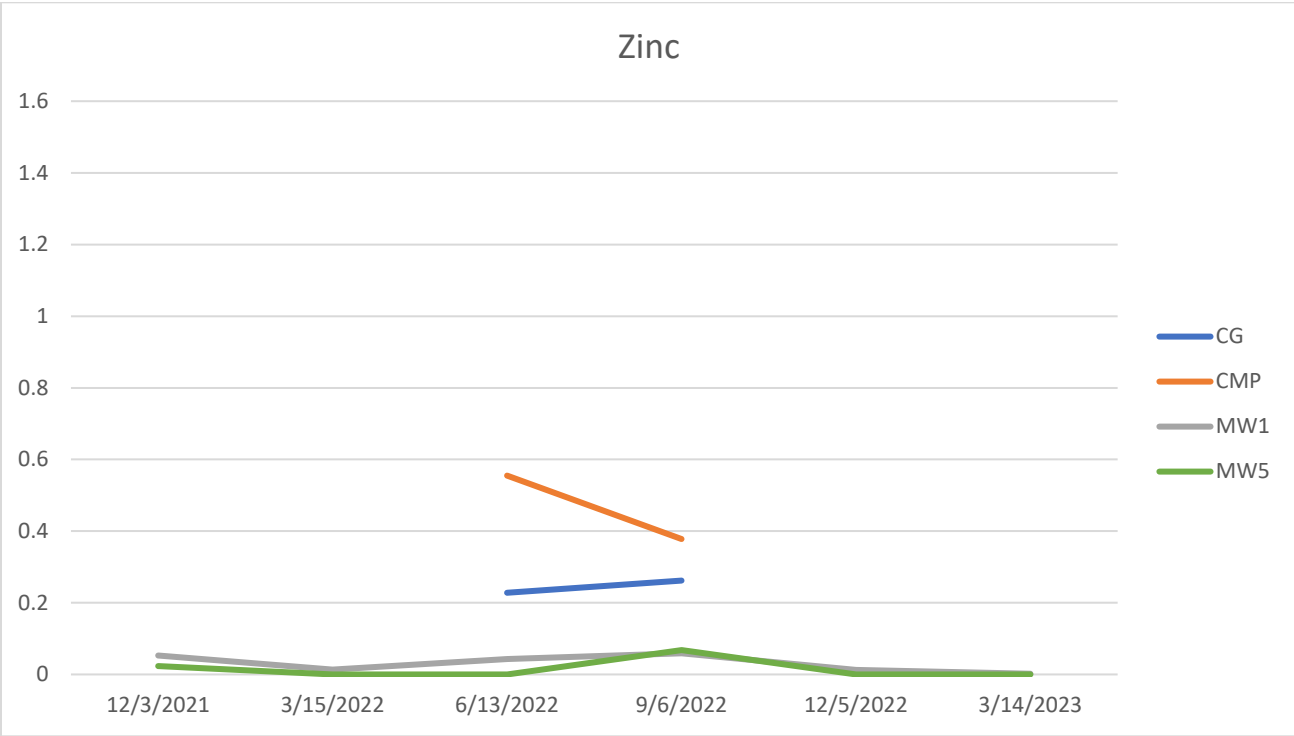
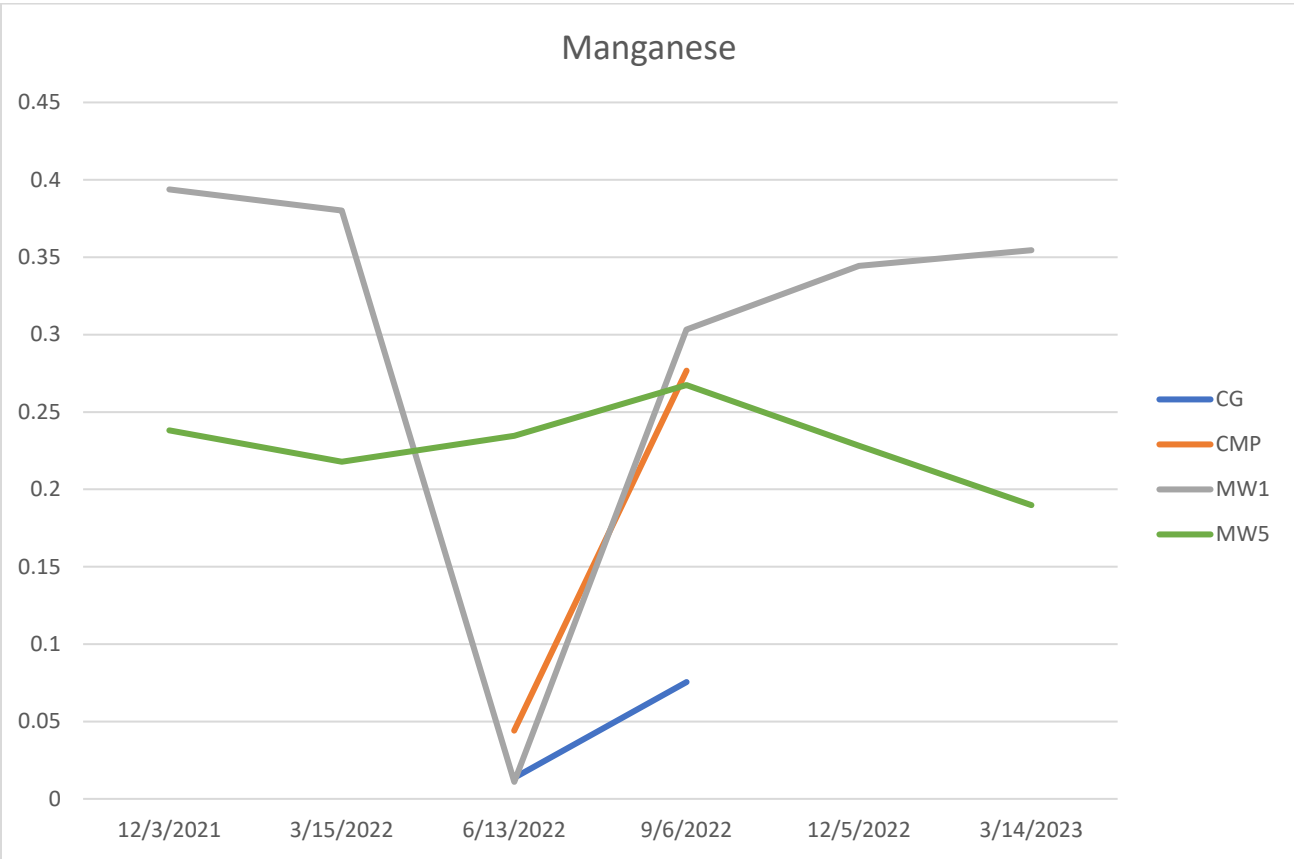


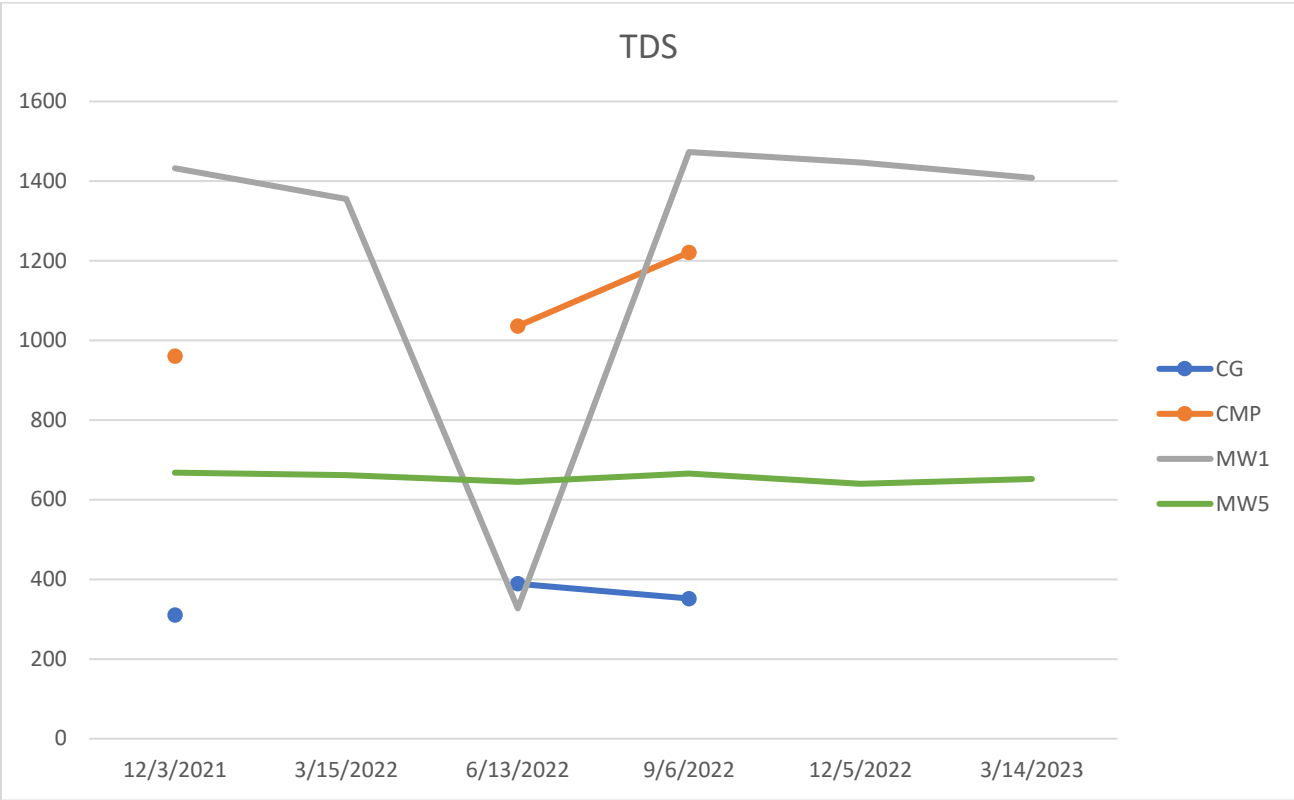
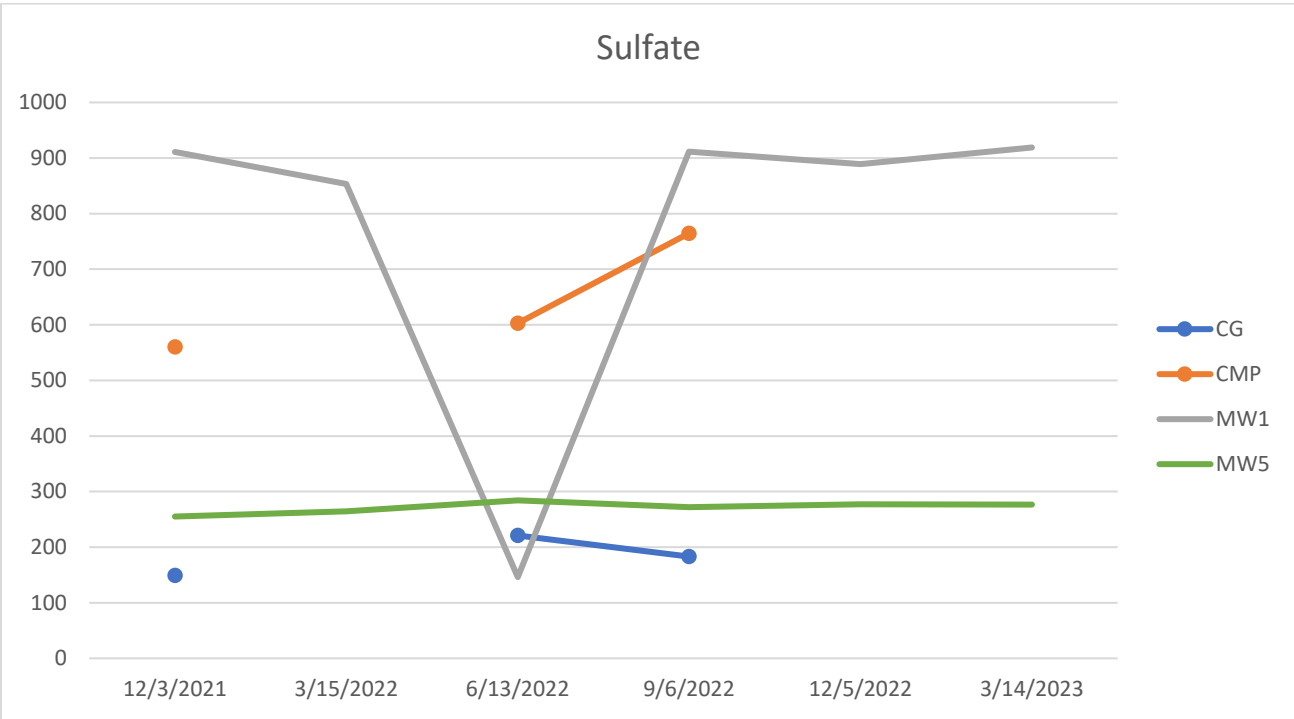




Cash Mine Analyte Graphs for the Past Five Quarters







Analytical Results

TASK NO: 230315030

Report To: Jerry Jergensen

Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Jerry Jergensen

Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 230315030
Client PO:
Client Project: Gold Hill

Date Received: 3/15/23
Date Reported: 3/23/23
Matrix: Water - Ground

Customer Sample ID MW-1

Sample Date/Time: 3/14/23 12:55 PM

Lab Number: 230315030-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	918.98 mg/L	EPA 300.0	0.10 mg/L	3/15/23	QC63606	MLT
Total Dissolved Solids	1408 mg/L	SM 2540-C	5 mg/L	3/21/23	QC63670	ISG
<i>Dissolved</i>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	3/20/23	QC63647	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	3/20/23	QC63647	MBN
Manganese	0.3545 mg/L	EPA 200.8	0.0008 mg/L	3/20/23	QC63647	MBN
Zinc	0.002 mg/L	EPA 200.8	0.001 mg/L	3/20/23	QC63647	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) The accuracy of the spike recovery value is reduced due to the analyte concentration in the sample being disproportionate to the spike level. The laboratory control sample recovery was acceptable

ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313

Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

Analytical Results

TASK NO: 230315030

Report To: Jerry Jergensen

Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Jerry Jergensen

Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 230315030
Client PO:
Client Project: Gold Hill

Date Received: 3/15/23
Date Reported: 3/23/23
Matrix: Water - Ground

Customer Sample ID W-1

Sample Date/Time: 3/14/23 1:15 PM

Lab Number: 230315030-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	108.06 mg/L	EPA 300.0	0.10 mg/L	3/15/23	QC63606	MLT
Total Dissolved Solids	262 mg/L	SM 2540-C	5 mg/L	3/21/23	QC63670	ISG
<i>Dissolved</i>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	3/20/23	QC63647	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	3/20/23	QC63647	MBN
Manganese	0.0016 mg/L	EPA 200.8	0.0008 mg/L	3/20/23	QC63647	MBN
Zinc	0.005 mg/L	EPA 200.8	0.001 mg/L	3/20/23	QC63647	MBN

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Analytical Results

TASK NO: 230315030

Report To: Jerry Jergensen

Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Jerry Jergensen

Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 230315030
Client PO:
Client Project: Gold Hill

Date Received: 3/15/23
Date Reported: 3/23/23
Matrix: Water - Ground

Customer Sample ID W-2

Sample Date/Time: 3/14/23 1:30 PM

Lab Number: 230315030-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	178.58 mg/L	EPA 300.0	0.10 mg/L	3/15/23	QC63606	MLT
Total Dissolved Solids	388 mg/L	SM 2540-C	5 mg/L	3/21/23	QC63670	ISG
<i>Dissolved</i>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	3/20/23	QC63647	MBN
Cadmium	0.0002 mg/L	EPA 200.8	0.0001 mg/L	3/20/23	QC63647	MBN
Manganese	ND	EPA 200.8	0.0008 mg/L	3/20/23	QC63647	MBN
Zinc	0.052 mg/L	EPA 200.8	0.001 mg/L	3/20/23	QC63647	MBN

Abbreviations/ References:

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Date Analyzed = Date Test Completed

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ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 230315030

Report To: Jerry Jergensen

Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Jerry Jergensen

Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 230315030
Client PO:
Client Project: Gold Hill

Date Received: 3/15/23
Date Reported: 3/23/23
Matrix: Water - Ground

Customer Sample ID W-3

Sample Date/Time: 3/14/23 1:55 PM

Lab Number: 230315030-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	157.47 mg/L	EPA 300.0	0.10 mg/L	3/15/23	QC63606	MLT
Total Dissolved Solids	393 mg/L	SM 2540-C	5 mg/L	3/21/23	QC63670	ISG
<i>Dissolved</i>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	3/20/23	QC63647	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	3/20/23	QC63647	MBN
Manganese	0.0012 mg/L	EPA 200.8	0.0008 mg/L	3/20/23	QC63647	MBN
Zinc	0.005 mg/L	EPA 200.8	0.001 mg/L	3/20/23	QC63647	MBN

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Date Analyzed = Date Test Completed

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ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 230315030

Report To: Jerry Jergensen

Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Jerry Jergensen

Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 230315030
Client PO:
Client Project: Gold Hill

Date Received: 3/15/23
Date Reported: 3/23/23
Matrix: Water - Ground

Customer Sample ID W-4

Sample Date/Time: 3/14/23 2:15 PM

Lab Number: 230315030-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	183.01 mg/L	EPA 300.0	0.10 mg/L	3/15/23	QC63606	MLT
Total Dissolved Solids	474 mg/L	SM 2540-C	5 mg/L	3/21/23	QC63670	ISG
<i>Dissolved</i>						
Arsenic	0.0007 mg/L	EPA 200.8	0.0006 mg/L	3/20/23	QC63647	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	3/20/23	QC63647	MBN
Manganese	0.8898 mg/L	EPA 200.8	0.0008 mg/L	3/20/23	QC63647	MBN
Zinc	0.003 mg/L	EPA 200.8	0.001 mg/L	3/20/23	QC63647	MBN

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mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

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ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 230315030

Report To: Jerry Jergensen
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Jerry Jergensen
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 230315030
Client PO:
Client Project: Gold Hill

Date Received: 3/15/23
Date Reported: 3/23/23
Matrix: Water - Ground

Customer Sample ID MW-5
Sample Date/Time: 3/14/23 3:40 PM
Lab Number: 230315030-08

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	276.58 mg/L	EPA 300.0	0.10 mg/L	3/15/23	QC63606	MLT
Total Dissolved Solids	652 mg/L	SM 2540-C	5 mg/L	3/21/23	QC63670	ISG
<i>Dissolved</i>						
Arsenic	0.0010 mg/L	EPA 200.8	0.0006 mg/L	3/20/23	QC63647	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	3/20/23	QC63647	MBN
Manganese	0.1898 mg/L	EPA 200.8	0.0008 mg/L	3/20/23	QC63647	MBN
Zinc	ND	EPA 200.8	0.001 mg/L	3/20/23	QC63647	MBN

Abbreviations/ References:

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Date Analyzed = Date Test Completed

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Analytical QC Summary

TASK NO: 230315030

Report To: Jerry Jergensen
Company: Colorado Milling CO

Receive Date: 3/15/23
Project Name: Gold Hill

Test	QC Batch ID	QC Type	Result	Method
Arsenic	QC63647	Method Blank	ND	EPA 200.8
Cadmium	QC63647	Method Blank	ND	EPA 200.8
Manganese	QC63647	Method Blank	ND	EPA 200.8
Zinc	QC63647	Method Blank	ND	EPA 200.8
Sulfate	QC63606	Blank	ND	EPA 300.0
Total Dissolved Solids	QC63670	Blank	ND	SM 2540-C

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Arsenic	QC63647	LCS	90 - 110	102.4	-	EPA 200.8
		MS	70 - 130	119.0	-	
		MSD	0 - 10	-	4.5	
Cadmium	QC63647	LCS	90 - 110	102.6	-	EPA 200.8
		MS	70 - 130	108.4	-	
		MSD	0 - 10	-	0.4	
Manganese	QC63647	LCS	90 - 110	104.9	-	EPA 200.8
		MS	70 - 130	99.8	-	
		MSD	0 - 10	-	0.6	
Zinc	QC63647	LCS	90 - 110	104.8	-	EPA 200.8
		MS	70 - 130	93.1	-	
		MSD	0 - 10	-	0.4	
Sulfate	QC63606	Duplicate	0 - 20	-	2.2	EPA 300.0
		LCS	90 - 110	103.2	-	
		MS	75 - 125	89.2	-	
Total Dissolved Solids	QC63670	Duplicate	0 - 20	-	3.4	SM 2540-C
		LCS	85 - 115	107.9	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.



DATA APPROVED FOR RELEASE BY

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Chain of Custody Form



Report To Information		Bill To Information (If different from report to)		Project Name / Number	
Company Name: <u>Colorado Milling Co.</u>		Company Name: _____		_____	
Contact Name: <u>Ben Langenfeld</u>		Contact Name: _____		_____	
Address: <u>Lewicki & associates</u>		Address: _____		Task Number (Lab Use Only)	
City: <u>↑</u>	State: <u>↑</u>	City: _____	State: _____	Zip: _____	CAL Task 230315030 JAK
Phone: <u>303-960-5613</u>		Phone: _____			
Email: <u>Ben1@Lewicki.Biz</u>		Email: _____			
Sample Collector: <u>Lewis Perkins</u>		PO No.: _____			
Sample Collector Phone: <u>303-447-8705</u>					

Commerce City Lab
 10411 Heinz Way
 Commerce City CO 80640

Lakewood Service Center
 12860 W. Cedar Dr, Suite 100A
 Lakewood CO 80228

Phone: 303-659-2313

www.coloradolab.com

Sample Matrix (Select One Only)			No. of Containers	Grab or (Check One Only) Composite	Tests Requested									
Waste Water <input type="checkbox"/>	Ground Water <input checked="" type="checkbox"/> <i>per history</i>	Surface Water <input type="checkbox"/>			Soil <input type="checkbox"/>	Sludge <input type="checkbox"/>	Drinking Water <input type="checkbox"/>	AS	CO	MN	Zn	Residue/Tos	Sulfate	
Date	Time	Sample ID												
3/14/23	12:55 PM	Left hand creek (Frozen)												
3/14/23	12:55 PM	tailings Pond (Frozen)												
3/14/23	12:55 PM	MW-1	2	/		X	X	X	X	X	X			
"	1:15 PM	W-1	2	/		X	X	X	X	X	X			
"	1:30 PM	W-2	2	/		X	X	X	X	X	X			
"	1:55	W-3	2	/		X	X	X	X	X	X			
"	2:15	W-4	2	/		X	X	X	X	X	X			
"	3:40	MW-5	2	/		X	X	X	X	X	X			
3/14/23	12:55 PM	Cash mine Pond (Frozen)												
3/14/23	12:55 PM	Cash Gulch (Frozen)												
Instructions:			C/S Info:				Seals Present Yes <input type="checkbox"/> No <input type="checkbox"/>							
Relinquished By: <u>Lewis Perkins</u>			Deliver Via: <u>HA</u>				C/S Charge <input type="checkbox"/> Temp. <u>2</u> °C/Ice <u>Y</u> Sample Pres. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>							
Date/Time: <u>3/14/23</u>			Received By: <u>Adama</u>				Date/Time: <u>3/15/23</u>							