

September 18, 2024

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

Delivered Via Email

RE: Q1 2024 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, 2024 ("Q1/24") water sampling was conducted by Lewis Perkins, Colorado Milling Company, on March 28, 2024.

- **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.

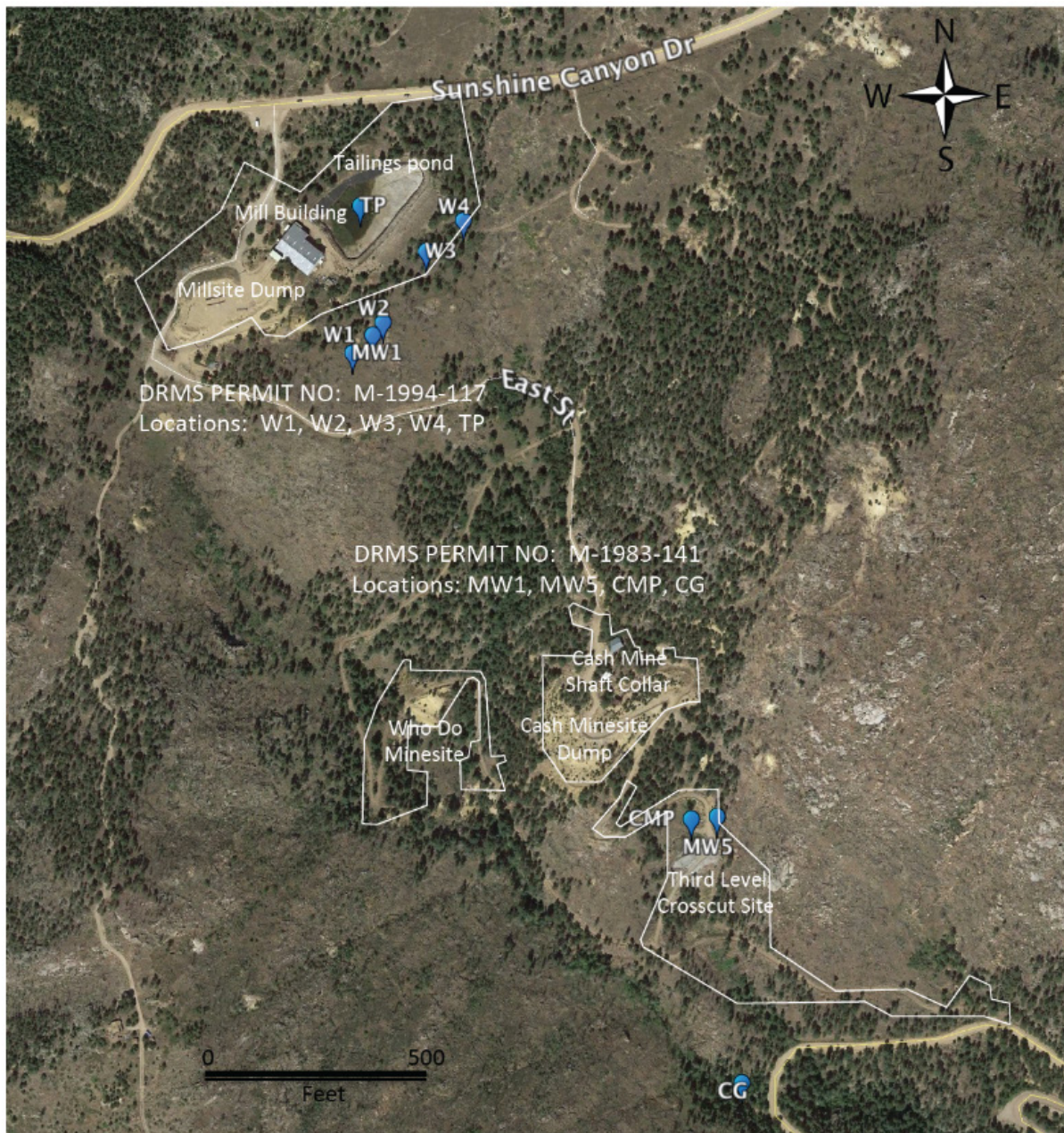
Note that zero values in the graphs represent "non-detect" results. Surface locations were frozen, and as such were unsamplable.

Please contact me with any questions.

Regards,



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

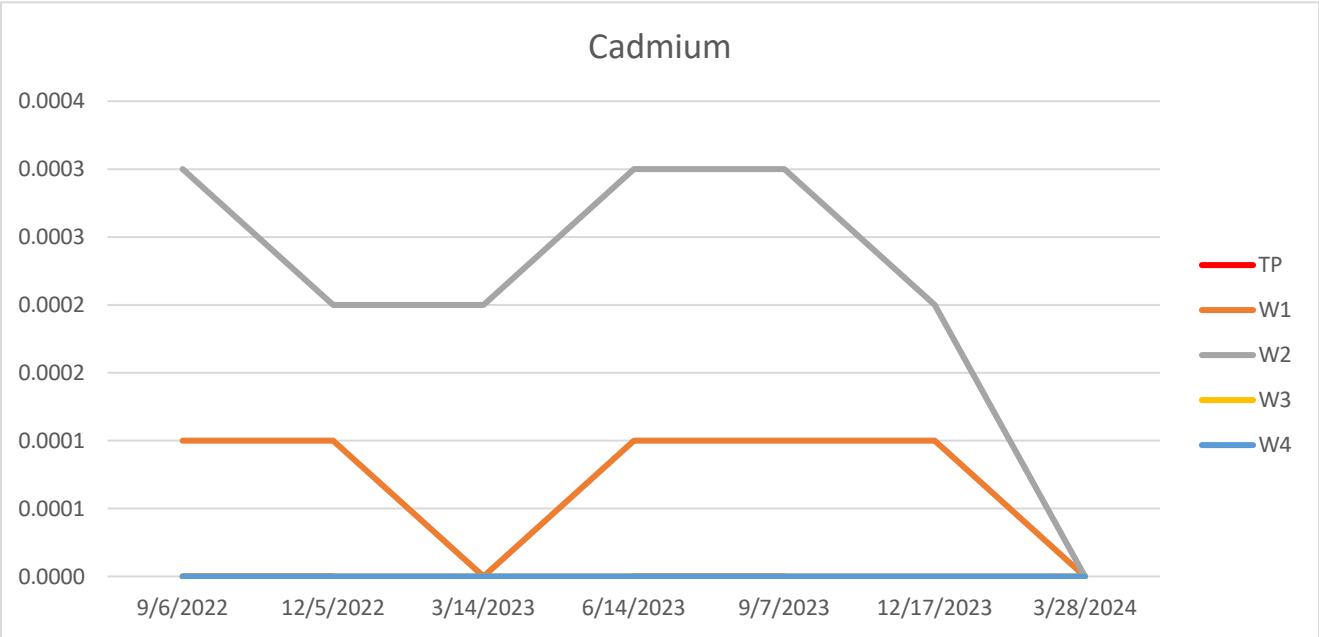
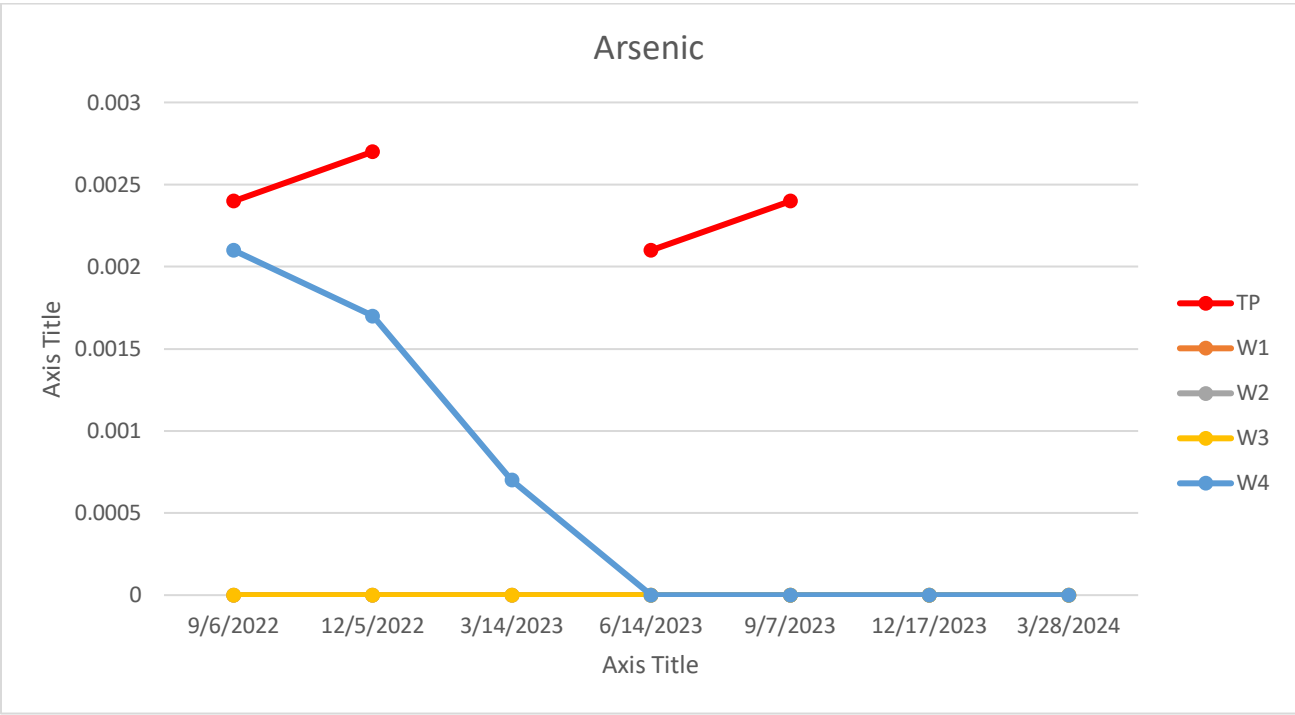


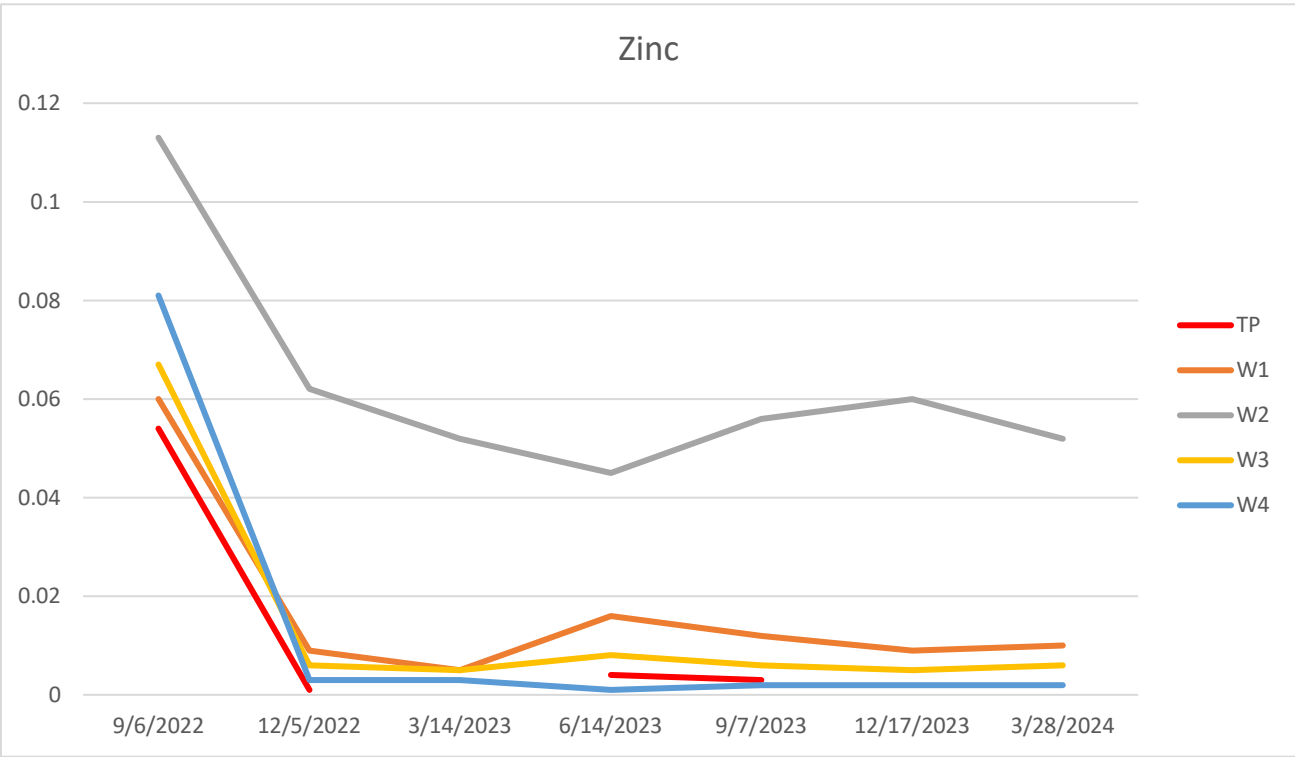
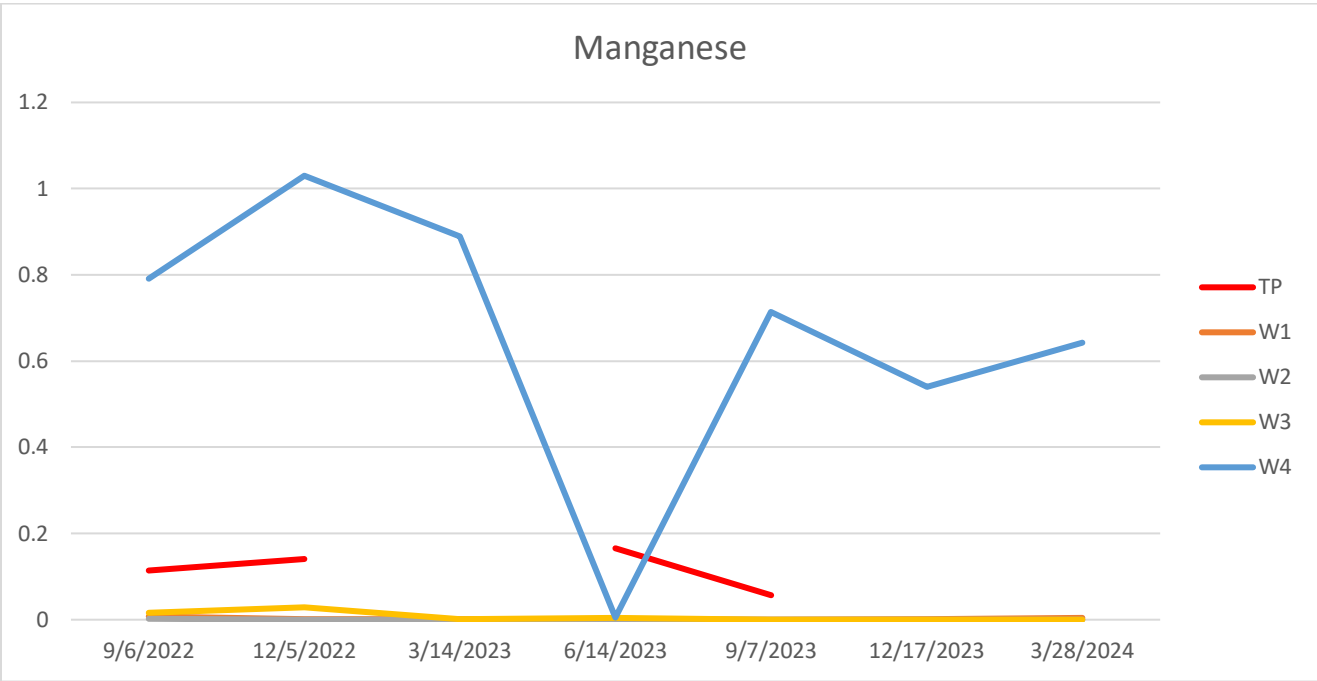
Map showing locations of water monitoring stations for permits M-1994-117 & M-1983-141

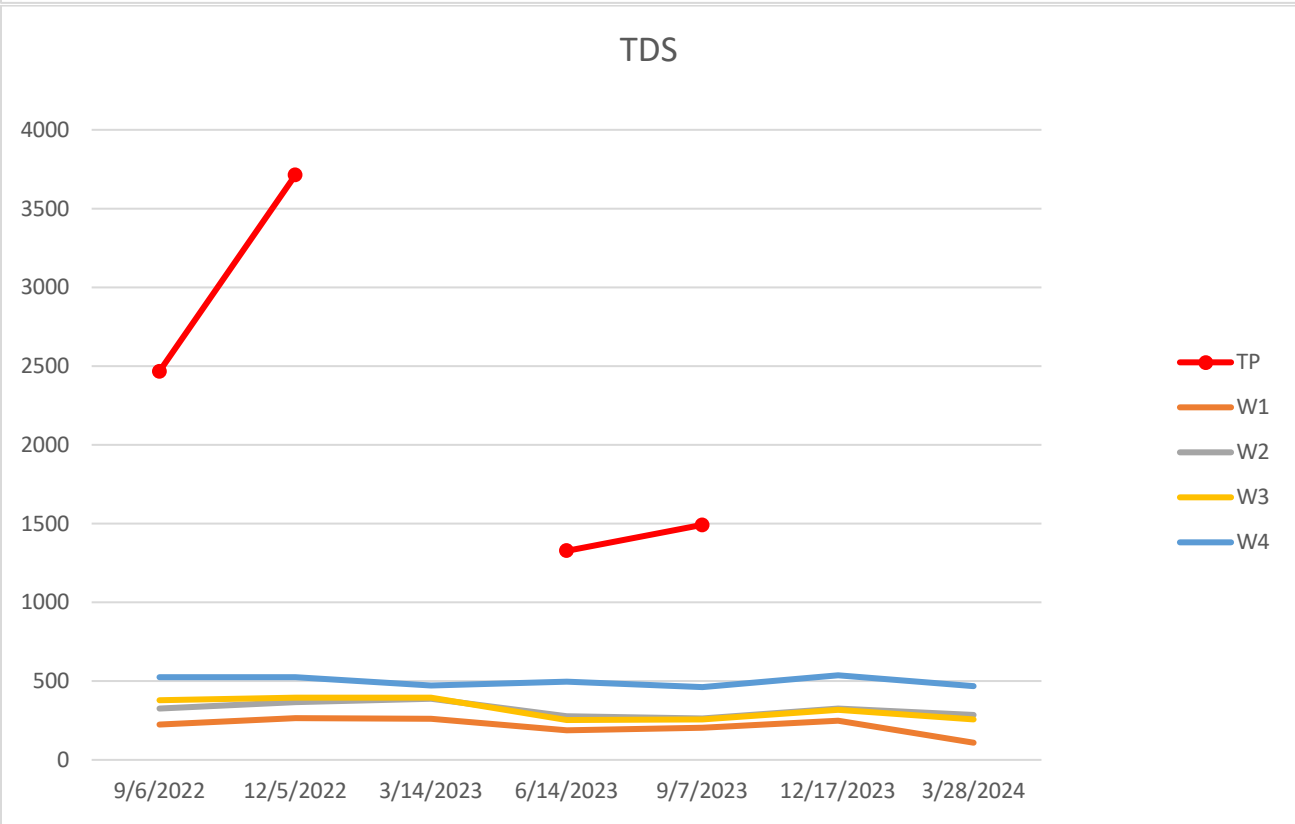
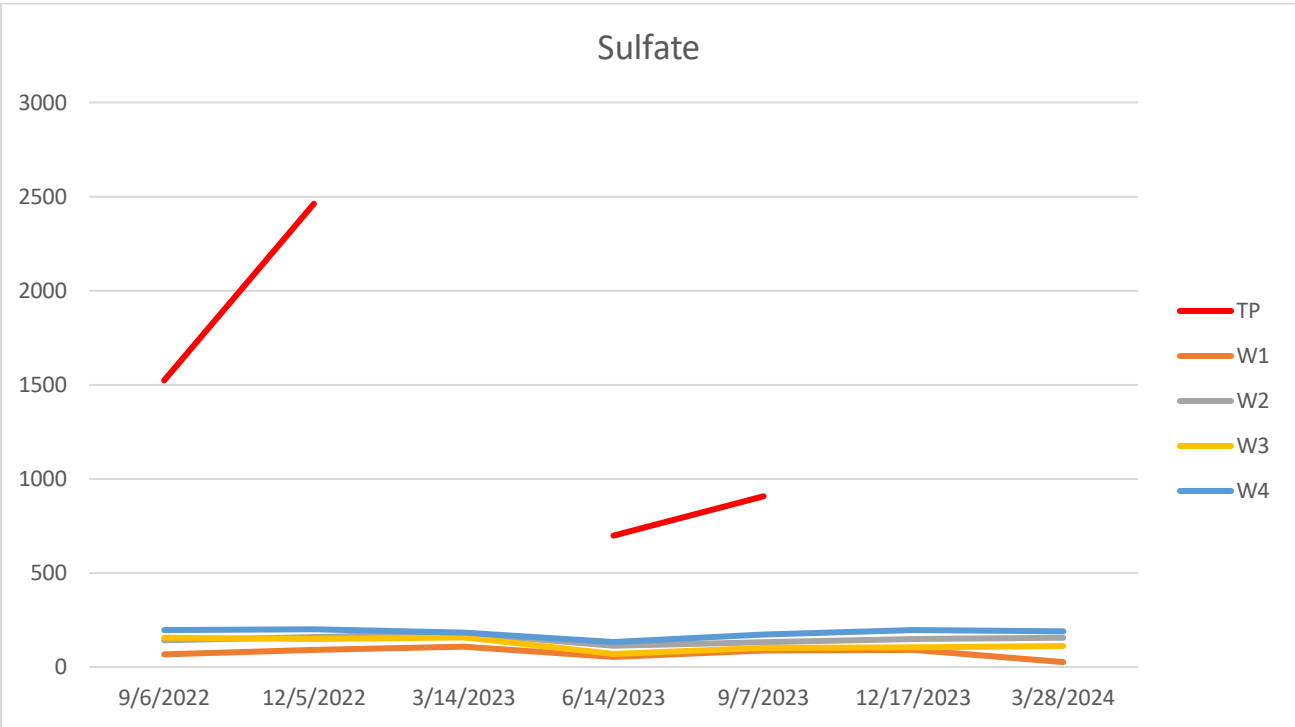
Locations		Well Measurements					Water Analyses (ppm/mg/L)							
Locations ID	Date	Time	Depth	pH	Temp (C)	Conductivity (uS/cm)	Sample ID	Date	As	Cd	Mn	Zn	Residue	Sulfate
Gold Hill Mill M-1994-117														
W-1	03/28/24	12:45	25.5	8.23	9.8	1770	240329035	03/28/24	0	0	0.0047	0.01	26.2	0
W-2	03/28/24	13:05	52.4	7.62	9.7	520	240329035	03/28/24	0	0	0	0.052	154	0
W-3	03/28/24	13:35	27.4	7.33	9.5	521	240329035	03/28/24	0	0	0	0.006	111	0
W-4	03/28/24	13:58	35.8	7.26	9.4	817	240329035	03/28/24	0	0	0.6425	0.002	191	0
TP		N/A	FROZEN											
Cash Mine M-1983-141														
MW-1	03/28/24	12:20	57.2	7.45	10.5	1517	240329035	03/28/24	0	0	0.2288	0.004	858	0
MW-5	03/28/24	14:50	11.1	7.62	10.7	924	240329035	03/28/24	0	0	0.189	0	299	0
CG		N/A	FROZEN											
CMP		N/A	FROZEN											

Analytes from lab analysis are dissolved.

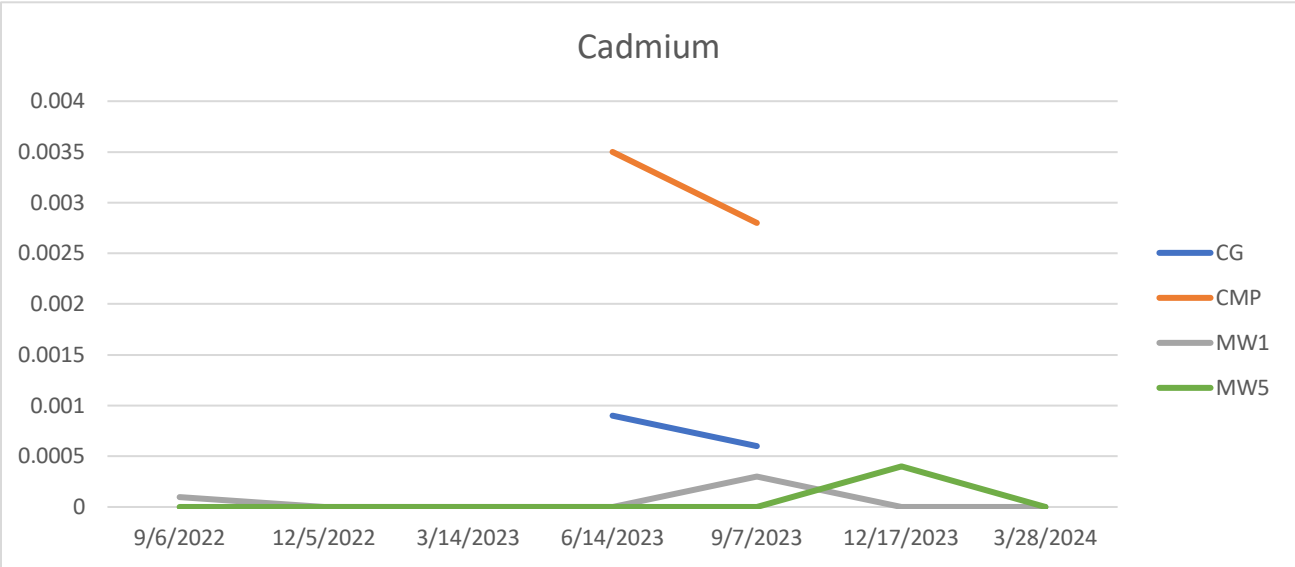
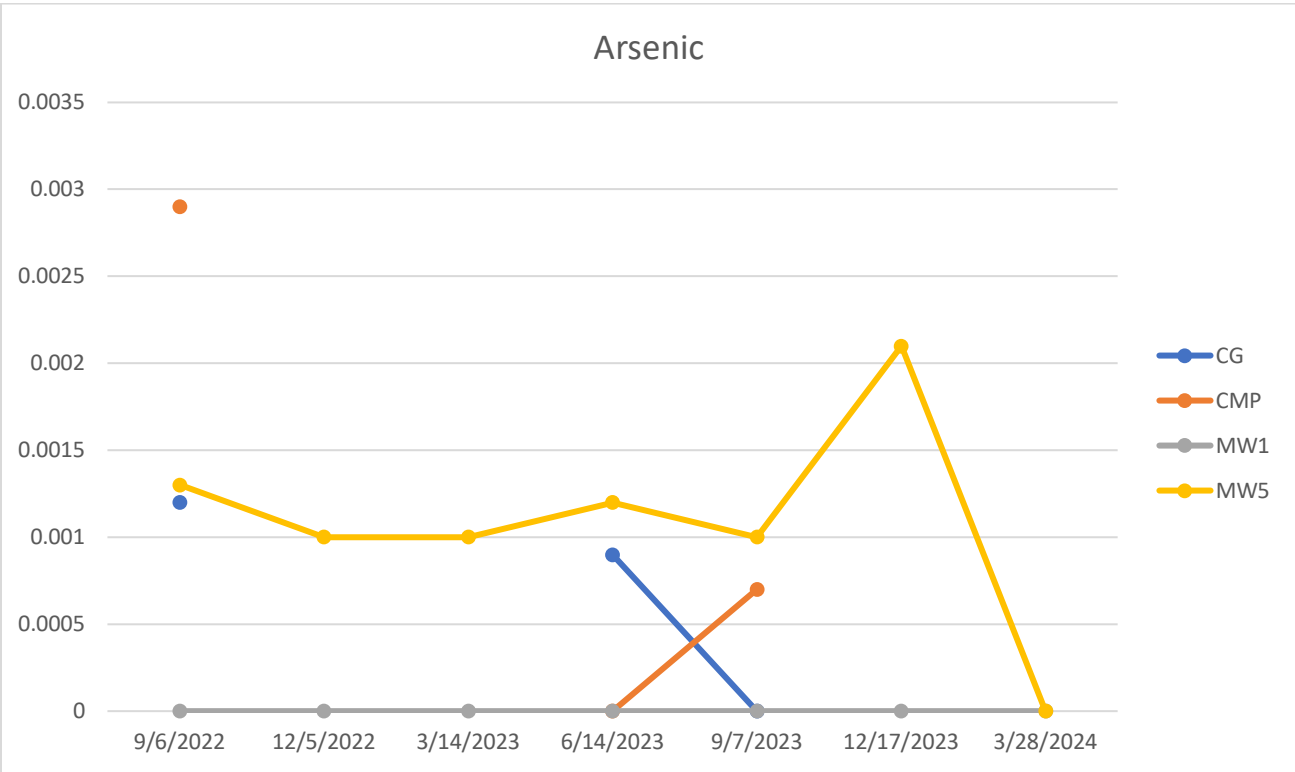
Gold Hill Mill Analyte Graphs for the Past Five Quarters

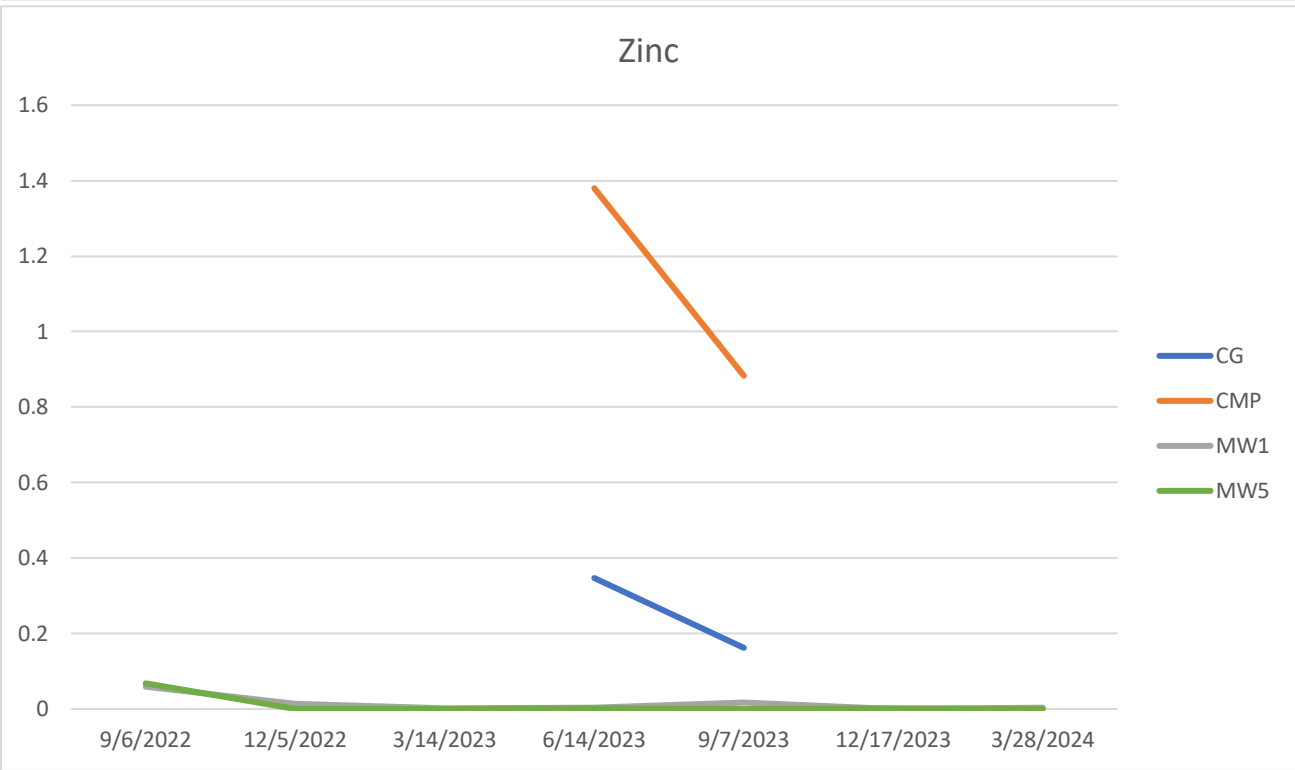
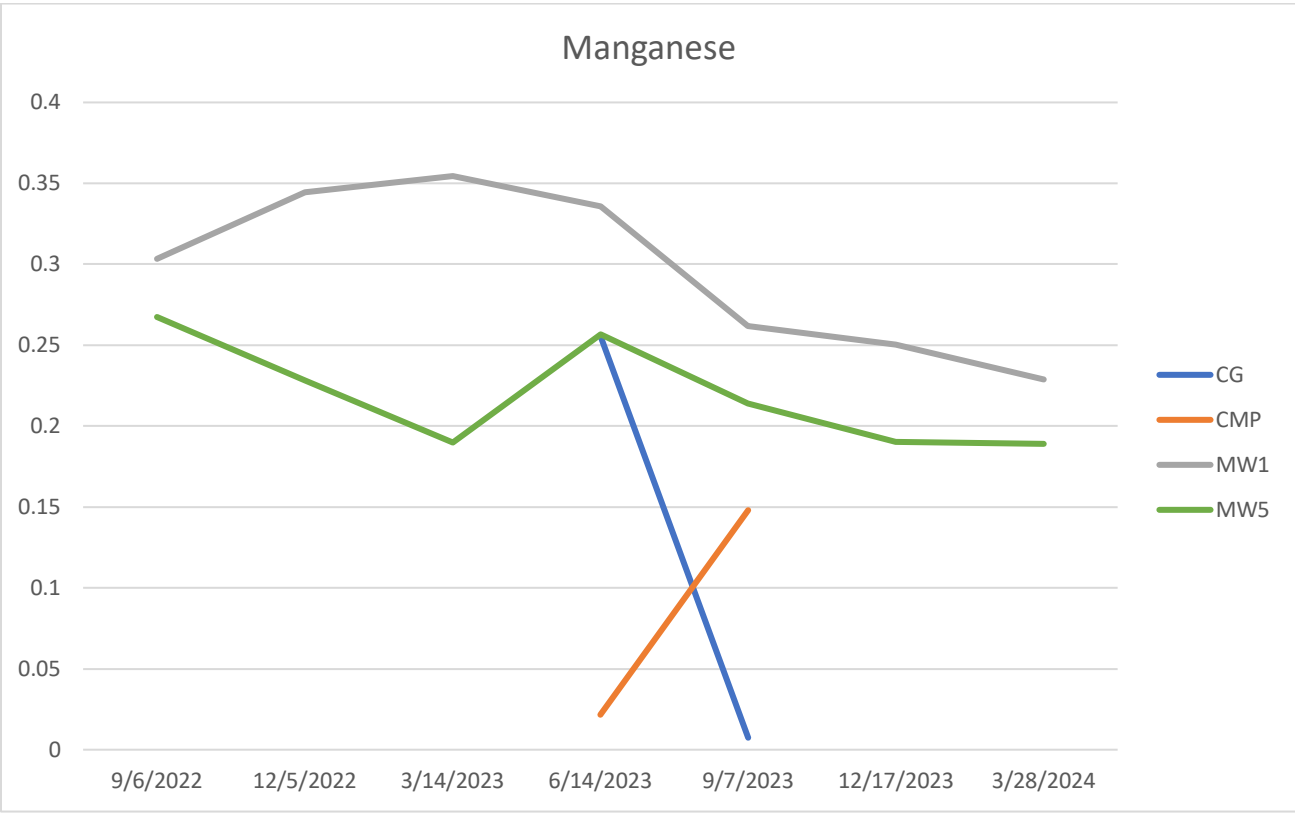


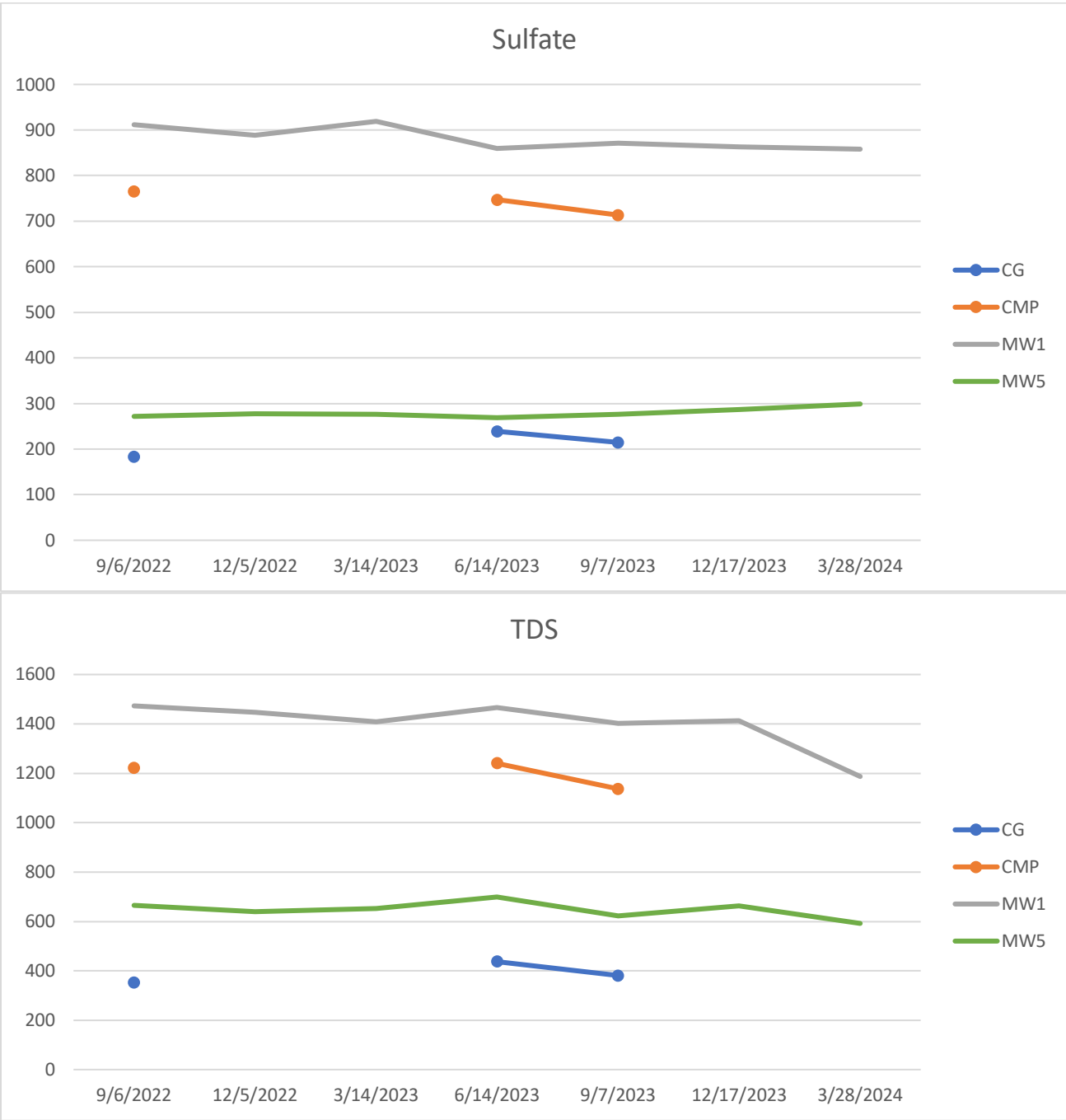




Cash Mine Analyte Graphs for the Past Five Quarters







Analytical Results

TASK NO: 240329035

Report To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 240329035
Client PO:
Client Project: Gold Hill

Date Received: 3/29/24
Date Reported: 4/4/24
Matrix: Water - Ground

Customer Sample ID MW-1
Sample Date/Time: 3/28/24 12:20 PM
Lab Number: 240329035-01

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	858 mg/L	EPA 300.0	1.00	0.012	3/29/24	QC72324	NRP
Total Dissolved Solids	1187 mg/L	SM 2540-C	5	2	4/2/24	QC72336	ISG
<i>Dissolved</i>							
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	4/3/24	QC72373	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	4/3/24	QC72373	MBN
Manganese	0.2288 mg/L	EPA 200.8	0.0008	0.00001	4/3/24	QC72373	MBN
Zinc	0.004 mg/L	EPA 200.8	0.001	0.00003	4/3/24	QC72373	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
MDL = Method Detection Limit
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.

Analytical Results

TASK NO: 240329035

Report To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 240329035
Client PO:
Client Project: Gold Hill

Date Received: 3/29/24
Date Reported: 4/4/24
Matrix: Water - Ground

Customer Sample ID W-1
Sample Date/Time: 3/28/24 12:45 PM
Lab Number: 240329035-02

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	26.2 mg/L	EPA 300.0	0.10	0.012	3/29/24	QC72324	NRP
Total Dissolved Solids	109 mg/L	SM 2540-C	5	2	4/2/24	QC72336	ISG
<u>Dissolved</u>							
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	4/3/24	QC72373	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	4/3/24	QC72373	MBN
Manganese	0.0047 mg/L	EPA 200.8	0.0008	0.00001	4/3/24	QC72373	MBN
Zinc	0.010 mg/L	EPA 200.8	0.001	0.00003	4/3/24	QC72373	MBN

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Analytical Results

TASK NO: 240329035

Report To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 240329035
Client PO:
Client Project: Gold Hill

Date Received: 3/29/24
Date Reported: 4/4/24
Matrix: Water - Ground

Customer Sample ID W-2
Sample Date/Time: 3/28/24 1:05 PM
Lab Number: 240329035-03

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	154 mg/L	EPA 300.0	1.00	0.012	3/29/24	QC72324	NRP
Total Dissolved Solids	286 mg/L	SM 2540-C	5	2	4/2/24	QC72336	ISG
<u>Dissolved</u>							
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	4/3/24	QC72373	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	4/3/24	QC72373	MBN
Manganese	ND mg/L	EPA 200.8	0.0008	0.00001	4/3/24	QC72373	MBN
Zinc	0.052 mg/L	EPA 200.8	0.001	0.00003	4/3/24	QC72373	MBN

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ug/L = Micrograms Per Liter or PPB
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Date Analyzed = Date Test Completed

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(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.

Analytical Results

TASK NO: 240329035

Report To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 240329035
Client PO:
Client Project: Gold Hill

Date Received: 3/29/24
Date Reported: 4/4/24
Matrix: Water - Ground

Customer Sample ID W-3
Sample Date/Time: 3/28/24 1:35 PM
Lab Number: 240329035-04

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	111 mg/L	EPA 300.0	1.00	0.012	3/29/24	QC72324	NRP
Total Dissolved Solids	256 mg/L	SM 2540-C	5	2	4/2/24	QC72336	ISG
<u>Dissolved</u>							
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	4/3/24	QC72373	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	4/3/24	QC72373	MBN
Manganese	ND mg/L	EPA 200.8	0.0008	0.00001	4/3/24	QC72373	MBN
Zinc	0.006 mg/L	EPA 200.8	0.001	0.00003	4/3/24	QC72373	MBN

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Date Analyzed = Date Test Completed

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(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.

Analytical Results

TASK NO: 240329035

Report To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 240329035
Client PO:
Client Project: Gold Hill

Date Received: 3/29/24
Date Reported: 4/4/24
Matrix: Water - Ground

Customer Sample ID W-4
Sample Date/Time: 3/28/24 1:58 PM
Lab Number: 240329035-05

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	191 mg/L	EPA 300.0	1.00	0.012	3/29/24	QC72324	NRP
Total Dissolved Solids	467 mg/L	SM 2540-C	5	2	4/2/24	QC72336	ISG
<u>Dissolved</u>							
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	4/3/24	QC72373	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	4/3/24	QC72373	MBN
Manganese	0.6425 mg/L	EPA 200.8	0.0008	0.00001	4/3/24	QC72373	MBN
Zinc	0.002 mg/L	EPA 200.8	0.001	0.00003	4/3/24	QC72373	MBN

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Date Analyzed = Date Test Completed

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ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 240329035

Report To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Bill To: Ben Langenfeld
Company: Colorado Milling CO
P.O. Box 99
Moab UT 84532

Task No.: 240329035
Client PO:
Client Project: Gold Hill

Date Received: 3/29/24
Date Reported: 4/4/24
Matrix: Water - Ground

Customer Sample ID MW-5
Sample Date/Time: 3/28/24 2:50 PM
Lab Number: 240329035-06

Test	Result / Units	Method	RL	MDL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	299 mg/L	EPA 300.0	1.00	0.012	3/29/24	QC72324	NRP
Total Dissolved Solids	592 mg/L	SM 2540-C	5	2	4/2/24	QC72336	ISG
<u>Dissolved</u>							
Arsenic	ND mg/L	EPA 200.8	0.0006	0.00006	4/3/24	QC72373	MBN
Cadmium	ND mg/L	EPA 200.8	0.0001	0.000006	4/3/24	QC72373	MBN
Manganese	0.1890 mg/L	EPA 200.8	0.0008	0.00001	4/3/24	QC72373	MBN
Zinc	ND mg/L	EPA 200.8	0.001	0.00003	4/3/24	QC72373	MBN

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Date Analyzed = Date Test Completed

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Analytical QC Summary

TASK NO: 240329035

Report To: Ben Langenfeld
Company: Colorado Milling CO

Receive Date: 3/29/24
Project Name: Gold Hill

Test	QC Batch ID	QC Type	Result	Method	Prep Date
Arsenic	QC72373	Method Blank	ND	EPA 200.8	3/29/24
Cadmium	QC72373	Method Blank	ND	EPA 200.8	3/29/24
Manganese	QC72373	Method Blank	ND	EPA 200.8	3/29/24
Zinc	QC72373	Method Blank	ND	EPA 200.8	3/29/24
Sulfate	QC72324	Blank	ND	EPA 300.0	3/29/24
Total Dissolved Solids	QC72336	Blank	ND	SM 2540-C	4/1/24

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Arsenic	QC72373	LCS	90 - 110	106.3	-	EPA 200.8
		MS	70 - 130	110.2	-	
		MSD	0 - 10	-	2.0	
Cadmium	QC72373	LCS	90 - 110	103.7	-	EPA 200.8
		MS	70 - 130	110.2	-	
		MSD	0 - 10	-	5.1	
Manganese	QC72373	LCS	90 - 110	100.5	-	EPA 200.8
		MS	70 - 130	106.0	-	
		MSD	0 - 10	-	0.0	
Zinc	QC72373	LCS	90 - 110	101.8	-	EPA 200.8
		MS	70 - 130	109.7	-	
		MSD	0 - 10	-	2.0	
Sulfate	QC72324	Duplicate	0 - 20	-	0.4	EPA 300.0
		LCS	90 - 110	99.7	-	
		MS	75 - 125	99.1	-	
Total Dissolved Solids	QC72336	Duplicate	0 - 10	-	3.4	SM 2540-C
		LCS	85 - 115	108.5	-	

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

Abbreviations/ References:

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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 Company</u>		Company Name: _____		_____	
Contact Name: <u>Ben Langenfeld</u>		Contact Name: _____		_____	
Address: <u>Lewicki & Associates</u>		Address: _____		Task Number (Lab Use Only)	
City	State	Zip	City	State	Zip
Phone: <u>303-460-5613</u>			City	State	Zip
Email: <u>Ben@LewickiBiz</u>			Phone: _____	CAL Task	
Sample Collector: <u>Louis Perkins</u>			Email: _____	240329035	
Sample Collector Phone: <u>303-447-8705</u>			PO No.: _____	SLM	

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)			Sample ID		Tests Requested	
Waste Water	Ground Water	Surface Water	Soil	Sludge	Drinking Water	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Date			Time		No. of Containers	
3/28/24			12:20 PM		2	
11 " "			12:45 PM		2	
11 " "			1:05 PM		2	
11 " "			1:35 PM		2	
11 " "			1:58 PM		2	
11 " "			2:50 PM		2	
11 " "			Cashmine Pond		2	
11 " "			Cash Gulch		2	
Instructions:						C/S Info:
Relinquished By: <u>Louis Perkins</u>						Deliver Via: <u>HAND</u>
Date/Time: <u>3/29/24</u>						Date/Time: _____
Received By: _____						Date/Time: _____
Relinquished By: _____						Date/Time: _____
Date/Time: _____						Date/Time: _____
Seals Present Yes <input type="checkbox"/> No <input type="checkbox"/>						Temp. <u>2</u> °C/°F
C/S Charge <input type="checkbox"/>						Sample Pres. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Date/TIME: _____						Date/TIME: _____

AS
CD
MN
24-ZN
residuals
sulfate

class per
Wishom
8/24