



COLORADO MILLING COMPANY, LLC
P.O. BOX 327, MOAB, UT 84532

September 30, 2021

Mr. Michael Cunningham & Ms. Amy Eschberger
COLORADO DIVISION OF RECLAMATION, MINING & SAFETY
Department of Natural Resources
1313 Sherman Street, Room 215
Denver, CO 80203

Subject: Third Quarter 2021 Water Sampling Results
Gold Hill Project (Cash Mine Property), Gold Hill, Colorado
Mine Land Reclamation Permit No. M-1994-117

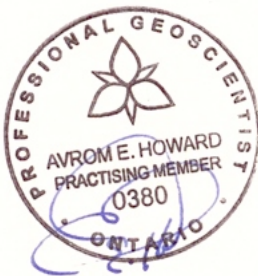
Dear Mr. Cunningham & Ms. Eschberger,

The third quarter, 2021 ("Q3/21") water sampling was conducted by Lewis Perkins, Colorado Milling Company, on September 15, 2021.

- **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 by Perkins and Howard, and recorded along with the aforementioned trace element and related data in an Excel spreadsheet, a copy of which is included in this submittal.

I trust you will find these data to your satisfaction. Please do not hesitate to contact me directly should you have any questions or concerns.

Sincerely,



Avrom E. Howard, MSc, PGeo
COLORADO MILLING COMPANY



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

LOCATION ID	DATE	TIME	DEPTH (ft)	pH	TEMP (°C)	CONDUCTIVITY (uS/cm)	SAMPLE ID	DATE	As	Cd	Mn	Zn	Residue	Sulfate
W1	09/15/21	14:05	36.58	7.73	9.4	452	210915105-03	09/17/21	ND	0.0002	0.001	0.015	288	142.07
W2	09/15/21	14:21	41.50	7.48	9.3	555	210915105-04	09/17/21	ND	0.0004	ND	0.089	369	181.33
W3	09/15/21	14:38	34.71	7.52	8.9	526	210915105-05	09/17/21	ND	ND	0.0049	0.004	349	124.55
W4	09/15/21	14:50	29.75	7.41	8.5	732	210915105-06	09/17/21	ND	ND	0.3233	0.003	419	151.49
TP	09/15/21	12:55	0.00	7.92	21.3	1,781	210915105-01	09/17/21	0.0023	ND	0.0545	0.003	1,732	968.14

Complete data set for monitoring stations associated with permit M-1994-117, Q3/2021

Analytical Results

TASK NO: 210915105

Report To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Bill To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Task No.: 210915105

Client PO:

Client Project: Gold Hill

Date Received: 9/15/21

Date Reported: 9/23/21

Matrix: Water - Ground

Customer Sample ID Tailing Pond

Sample Date/Time: 9/15/21 12:55 PM

Lab Number: 210915105-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	968.14 mg/L	EPA 300.0	0.01 mg/L	9/16/21	QC52229	MAT
Total Dissolved Solids	1732 mg/L	SM 2540-C	5 mg/L	9/20/21	QC52235	ISG
<i>Dissolved</i>						
Arsenic	0.0023 mg/L	EPA 200.8	0.0006 mg/L	9/17/21	QC52260	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	9/17/21	QC52260	MBN
Manganese	0.0545 mg/L	EPA 200.8	0.0008 mg/L	9/17/21	QC52260	MBN
Zinc	0.003 mg/L	EPA 200.8	0.001 mg/L	9/17/21	QC52260	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) Spike amount low relative to the sample amount.

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: 210915105

Report To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Bill To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Task No.: 210915105
Client PO:
Client Project: Gold Hill

Date Received: 9/15/21
Date Reported: 9/23/21
Matrix: Water - Ground

Customer Sample ID MW 1

Sample Date/Time: 9/15/21 1:50 PM

Lab Number: 210915105-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	906.09 mg/L	EPA 300.0	0.01 mg/L	9/16/21	QC52229	MAT
Total Dissolved Solids	1459 mg/L	SM 2540-C	5 mg/L	9/20/21	QC52235	ISG
<u>Dissolved</u>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	9/17/21	QC52260	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	9/17/21	QC52260	MBN
Manganese	0.4028 mg/L	EPA 200.8	0.0008 mg/L	9/17/21	QC52260	MBN
Zinc	0.002 mg/L	EPA 200.8	0.001 mg/L	9/17/21	QC52260	MBN

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Date Analyzed = Date Test Completed

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(s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 210915105

Report To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Bill To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Task No.: 210915105

Client PO:

Client Project: Gold Hill

Date Received: 9/15/21

Date Reported: 9/23/21

Matrix: Water - Ground

Customer Sample ID W 1

Sample Date/Time: 9/15/21 2:05 PM

Lab Number: 210915105-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	142.07 mg/L	EPA 300.0	0.01 mg/L	9/16/21	QC52229	MAT
Total Dissolved Solids	288 mg/L	SM 2540-C	5 mg/L	9/20/21	QC52235	ISG
<u>Dissolved</u>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	9/17/21	QC52260	MBN
Cadmium	0.0002 mg/L	EPA 200.8	0.0001 mg/L	9/17/21	QC52260	MBN
Manganese	0.0010 mg/L	EPA 200.8	0.0008 mg/L	9/17/21	QC52260	MBN
Zinc	0.015 mg/L	EPA 200.8	0.001 mg/L	9/17/21	QC52260	MBN

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Analytical Results

TASK NO: 210915105

Report To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Bill To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Task No.: 210915105
Client PO:
Client Project: Gold Hill

Date Received: 9/15/21
Date Reported: 9/23/21
Matrix: Water - Ground

Customer Sample ID W2

Sample Date/Time: 9/15/21 2:21 PM

Lab Number: 210915105-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	181.33 mg/L	EPA 300.0	0.01 mg/L	9/16/21	QC52229	MAT
Total Dissolved Solids	369 mg/L	SM 2540-C	5 mg/L	9/20/21	QC52235	ISG
<u>Dissolved</u>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	9/17/21	QC52260	MBN
Cadmium	0.0004 mg/L	EPA 200.8	0.0001 mg/L	9/17/21	QC52260	MBN
Manganese	ND	EPA 200.8	0.0008 mg/L	9/17/21	QC52260	MBN
Zinc	0.089 mg/L	EPA 200.8	0.001 mg/L	9/17/21	QC52260	MBN

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ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 210915105

Report To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Bill To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Task No.: 210915105

Client PO:

Client Project: Gold Hill

Date Received: 9/15/21

Date Reported: 9/23/21

Matrix: Water - Ground

Customer Sample ID W3

Sample Date/Time: 9/15/21 2:38 PM

Lab Number: 210915105-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	124.55 mg/L	EPA 300.0	0.01 mg/L	9/16/21	QC52229	MAT
Total Dissolved Solids	349 mg/L	SM 2540-C	5 mg/L	9/20/21	QC52235	ISG
<u>Dissolved</u>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	9/17/21	QC52260	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	9/17/21	QC52260	MBN
Manganese	0.0049 mg/L	EPA 200.8	0.0008 mg/L	9/17/21	QC52260	MBN
Zinc	0.004 mg/L	EPA 200.8	0.001 mg/L	9/17/21	QC52260	MBN

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

Date Analyzed = Date Test Completed

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(s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.

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

Analytical Results

TASK NO: 210915105

Report To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Bill To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Task No.: 210915105
Client PO:
Client Project: Gold Hill

Date Received: 9/15/21
Date Reported: 9/23/21
Matrix: Water - Ground

Customer Sample ID W4

Sample Date/Time: 9/15/21 2:50 PM

Lab Number: 210915105-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	151.49 mg/L	EPA 300.0	0.01 mg/L	9/16/21	QC52229	MAT
Total Dissolved Solids	419 mg/L	SM 2540-C	5 mg/L	9/20/21	QC52235	ISG
<i>Dissolved</i>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	9/17/21	QC52260	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	9/17/21	QC52260	MBN
Manganese	0.3233 mg/L	EPA 200.8	0.0008 mg/L	9/17/21	QC52260	MBN
Zinc	0.003 mg/L	EPA 200.8	0.001 mg/L	9/17/21	QC52260	MBN

Abbreviations/ References:

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ug/L = Micrograms Per Liter or PPB

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

Date Analyzed = Date Test Completed

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(s) Spike amount low relative to the sample amount.

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: 210915105

Report To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Bill To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Task No.: 210915105
Client PO:
Client Project: Gold Hill

Date Received: 9/15/21
Date Reported: 9/23/21
Matrix: Water - Ground

Customer Sample ID MW5

Sample Date/Time: 9/15/21 3:20 PM

Lab Number: 210915105-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	273.72 mg/L	EPA 300.0	0.01 mg/L	9/16/21	QC52229	MAT
Total Dissolved Solids	660 mg/L	SM 2540-C	5 mg/L	9/20/21	QC52235	ISG
<u>Dissolved</u>						
Arsenic	0.0019 mg/L	EPA 200.8	0.0006 mg/L	9/17/21	QC52260	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	9/17/21	QC52260	MBN
Manganese	0.2656 mg/L	EPA 200.8	0.0008 mg/L	9/17/21	QC52260	MBN
Zinc	ND	EPA 200.8	0.001 mg/L	9/17/21	QC52260	MBN

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Date Analyzed = Date Test Completed

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ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 210915105

Report To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Bill To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Task No.: 210915105
Client PO:
Client Project: Gold Hill

Date Received: 9/15/21
Date Reported: 9/23/21
Matrix: Water - Ground

Customer Sample ID Cash Mine Pond

Sample Date/Time: 9/15/21 3:35 PM

Lab Number: 210915105-08

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	666.50 mg/L	EPA 300.0	0.01 mg/L	9/16/21	QC52229	MAT
Total Dissolved Solids	1108 mg/L	SM 2540-C	5 mg/L	9/20/21	QC52235	ISG
<i>Dissolved</i>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	9/17/21	QC52260	MBN
Cadmium	0.0088 mg/L	EPA 200.8	0.0001 mg/L	9/17/21	QC52260	MBN
Manganese	3.1636 mg/L	EPA 200.8	0.0008 mg/L	9/17/21	QC52260	MBN
Zinc	3.081 mg/L	EPA 200.8	0.001 mg/L	9/17/21	QC52260	MBN

Abbreviations/ References:

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Date Analyzed = Date Test Completed

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(s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.

Analytical Results

TASK NO: 210915105

Report To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Bill To: Avrom Howard

Company: Colorado Milling CO
72 Brandywine Dr
Williamsville NY 14221

Task No.: 210915105

Client PO:

Client Project: Gold Hill

Date Received: 9/15/21

Date Reported: 9/23/21

Matrix: Water - Ground

Customer Sample ID Cash Gulch Creek

Sample Date/Time: 9/15/21 4:05 PM

Lab Number: 210915105-09

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	146.72 mg/L	EPA 300.0	0.01 mg/L	9/16/21	QC52229	MAT
Total Dissolved Solids	288 mg/L	SM 2540-C	5 mg/L	9/20/21	QC52235	ISG
<u>Dissolved</u>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	9/17/21	QC52260	MBN
Cadmium	0.0005 mg/L	EPA 200.8	0.0001 mg/L	9/17/21	QC52260	MBN
Manganese	0.0302 mg/L	EPA 200.8	0.0008 mg/L	9/17/21	QC52260	MBN
Zinc	0.136 mg/L	EPA 200.8	0.001 mg/L	9/17/21	QC52260	MBN

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Date Analyzed = Date Test Completed

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(s) Spike amount low relative to the sample amount.

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

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

Analytical QC Summary

TASK NO: 210915105

Report To: Avrom Howard
Company: Colorado Milling CO

Receive Date: 9/15/21
Project Name: Gold Hill

Test	QC Batch ID	QC Type	Result	Method
Arsenic	QC52260	Method Blank	ND	EPA 200.8
Cadmium	QC52260	Method Blank	ND	EPA 200.8
Manganese	QC52260	Method Blank	ND	EPA 200.8
Zinc	QC52260	Method Blank	ND	EPA 200.8
Sulfate	QC52229	Blank	ND	EPA 300.0
Total Dissolved Solids	QC52235	Blank	ND	SM 2540-C

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Arsenic	QC52260	LCS	90 - 110	97.1	-	EPA 200.8
		MS	70 - 130	102.3	-	
		MSD	0 - 10	-	3.4	
Cadmium	QC52260	LCS	90 - 110	95.9	-	EPA 200.8
		MS	70 - 130	95.5	-	
		MSD	0 - 10	-	1.8	
Manganese	QC52260	LCS	90 - 110	98.8	-	EPA 200.8
		MS	70 - 130	122.8	-	
		MSD	0 - 10	-	1.5	
Zinc	QC52260	LCS	90 - 110	96.7	-	EPA 200.8
		MS	70 - 130	111.9	-	
		MSD	0 - 10	-	0.5	
Sulfate	QC52229	Duplicate	0 - 20	-	0.9	EPA 300.0
		LCS	90 - 110	100.7	-	
		MS	75 - 125	99.5	-	
Total Dissolved Solids	QC52235	Duplicate	0 - 20	-	1.2	SM 2540-C
		LCS	85 - 115	100.9	-	

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

Abbreviations/ References:

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(d) RPD acceptable due to low duplicate and sample concentrations.
(s) Spike amount low relative to the sample amount.
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Chain of Custody Form



Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

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

Phone: 303-659-2313

www.coloradolab.com

Report To Information		Bill To Information (If different from report to)		Project Name / Number	
Company Name: <u>Colorado Milling Co</u>		Company Name: <u>Same</u>		Gold Hill	
Contact Name: <u>Avron Howard</u>		Contact Name:			
Address: <u>72 Brandywine Dr</u>		Address:		Task Number (Lab Use Only)	
City: <u>Williams</u> State: <u>WY</u> Zip: <u>14221</u>		City: State: Zip:		CAL Task	
Phone: <u>970-234-9757</u>		Phone:		210915105	
Email: <u>AEH@NEBVconsulting.com</u>		Email:		EMN	
Sample Collector: <u>AEH L.S.P</u>		PO No.: <u> </u>			
Sample Collector Phone: <u>970-234-9757</u>					

Lewis PERKINS 303-447-8705

Sample Matrix (Select One Only)			No. of Containers	Grab or (Check One Only) Composite	Tests Requested															
Waste Water <input type="checkbox"/>	Ground Water <input type="checkbox"/>	Surface Water <input type="checkbox"/>			Soil <input type="checkbox"/>	Sludge <input type="checkbox"/>	Drinking Water <input type="checkbox"/>	AS	CD	MN	ZH (Zinc)	Residue / PDS	Sul Fate							
Date	Time	Sample ID																		
9/15/21	12:55 PM	Tailings Pond	2	✓		X	X	X	X	X	X									
"	1:50 PM	MW 1	2	✓		X	X	X	X	X	X									
"	2:05 PM	W 1	2	✓		X	X	X	X	X	X									
"	2:21 PM	W 2	2	✓		X	X	X	X	X	X									
"	2:38 PM	W 3	2	✓		X	X	X	X	X	X									
"	2:50 PM	W 4	2	✓		X	X	X	X	X	X									
"	3:20 PM	MW 5	2	✓		X	X	X	X	X	X									
"	3:35 PM	Cash mine Pond Pond	2	✓		X	X	X	X	X	X									
"	4:05 PM	Cash Gulch	2	✓		X	X	X	X	X	X									

Instructions: <u>per project history, metals are dissolved - one</u>				C/S Info: <u>Hand</u>		Seals Present Yes <input type="checkbox"/> No <input type="checkbox"/>	
Deliver Via: <u>Hand</u>				C/S Charge <input type="checkbox"/>		Temp. <u>0.8</u> °C/Ice <u>✓</u> Sample Pres. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:
<u>Lewis Perkins</u>	<u>9/15/2021</u>	<u>C.UM</u>	<u>9/15/21</u>				