



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

December 14, 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: Fourth Quarter 2021 Water Sampling Results
Gold Hill Project (Cash Mine Property), Gold Hill, Colorado
Mine Land Reclamation Permit No. M-1983-141

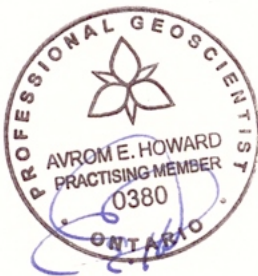
Dear Mr. Cunningham & Ms. Eschberger,

The fourth quarter 2021 ("Q4/2021") water sampling was conducted by Lewis Perkins, Colorado Milling Company on December 3, 2021.

- **Trace Element & Related Data:** Four 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 Mr. Perkins, 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

LOCATIONS		WELL MEASUREMENTS					WATER ANALYSES (ppm)							
LOCATION ID	DATE	TIME	DEPTH (ft)	pH	TEMP (°C)	CONDUCTIVITY (uS/cm)	SAMPLE ID	DATE	As	Cd	Mn	Zn	Residue	Sulfate
MW1	12/03/21	12:00	-	8.63	8.6	2.82	211203062-02	12/07/21	ND	ND	0.3938	0.053	1,432	910.68
MW5	12/03/21	15:00	21.63	7.56	12.3	917.00	211203062-07	12/07/21	0.0014	ND	0.238	0.023	668	255.1
CMP	12/03/21	15:10	-	7.8	8.5	1,264.00	211203062-08	12/07/21	ND	0.0034	0.231	1.395	961	560.29
CG	12/03/21	15:40	-	7.99	6.3	457.00	211203062-09	12/07/21	MD	/0005	0.014	0.157	311	149.62

Complete data set for monitoring stations associated with permit M-1983-141, Q4/2021

Analytical Results

TASK NO: 211203062

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.: 211203062
Client PO:
Client Project: Gold Hill

Date Received: 12/3/21
Date Reported: 12/10/21
Matrix: Water - Ground

Customer Sample ID Tailings Pond
Sample Date/Time: 12/3/21 12:00 PM
Lab Number: 211203062-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	1206.79 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	2106 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
<u>Dissolved</u>						
Arsenic	0.0014 mg/L	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	0.0001 mg/L	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	0.1249 mg/L	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.047 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	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.

Analytical Results

TASK NO: 211203062

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.: 211203062
Client PO:
Client Project: Gold Hill

Date Received: 12/3/21
Date Reported: 12/10/21
Matrix: Water - Ground

Customer Sample ID MW1

Sample Date/Time: 12/3/21 1:10 PM

Lab Number: 211203062-02

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	910.68 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	1432 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
<u>Dissolved</u>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	0.3938 mg/L	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.053 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	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: 211203062

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.: 211203062
Client PO:
Client Project: Gold Hill

Date Received: 12/3/21
Date Reported: 12/10/21
Matrix: Water - Ground

Customer Sample ID W-1

Sample Date/Time: 12/3/21 1:35 PM

Lab Number: 211203062-03

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	140.73 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	340 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
<u>Dissolved</u>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	0.0001 mg/L	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	0.0019 mg/L	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.030 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	MBN

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(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: 211203062

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.: 211203062
Client PO:
Client Project: Gold Hill

Date Received: 12/3/21
Date Reported: 12/10/21
Matrix: Water - Ground

Customer Sample ID W-2

Sample Date/Time: 12/3/21 1:50 PM

Lab Number: 211203062-04

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	179.95 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	368 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
<u>Dissolved</u>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	0.0004 mg/L	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	ND	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.085 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	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.

Analytical Results

TASK NO: 211203062

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.: 211203062
Client PO:
Client Project: Gold Hill

Date Received: 12/3/21
Date Reported: 12/10/21
Matrix: Water - Ground

Customer Sample ID W-3

Sample Date/Time: 12/3/21 2:15 PM

Lab Number: 211203062-05

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	122.06 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	330 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
<u>Dissolved</u>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	0.0068 mg/L	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.031 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	MBN

Abbreviations/ References:

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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.

Analytical Results

TASK NO: 211203062

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.: 211203062
Client PO:
Client Project: Gold Hill

Date Received: 12/3/21
Date Reported: 12/10/21
Matrix: Water - Ground

Customer Sample ID W-4

Sample Date/Time: 12/3/21 2:30 PM

Lab Number: 211203062-06

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	151.66 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	431 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
<u>Dissolved</u>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	0.3366 mg/L	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.034 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	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

(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.

Analytical Results

TASK NO: 211203062

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.: 211203062
Client PO:
Client Project: Gold Hill

Date Received: 12/3/21
Date Reported: 12/10/21
Matrix: Water - Ground

Customer Sample ID MW-5

Sample Date/Time: 12/3/21 3:00 PM

Lab Number: 211203062-07

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	255.10 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	668 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
<u>Dissolved</u>						
Arsenic	0.0014 mg/L	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	0.2381 mg/L	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.023 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	MBN

Abbreviations/ References:

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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: 211203062

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.: 211203062
Client PO:
Client Project: Gold Hill

Date Received: 12/3/21
Date Reported: 12/10/21
Matrix: Water - Ground

Customer Sample ID Cash Mine Pond
Sample Date/Time: 12/3/21 3:10 PM
Lab Number: 211203062-08

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	560.29 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	961 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
<u>Dissolved</u>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	0.0034 mg/L	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	0.2306 mg/L	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	1.395 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	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

(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.

Analytical Results

TASK NO: 211203062

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.: 211203062
Client PO:
Client Project: Gold Hill

Date Received: 12/3/21
Date Reported: 12/10/21
Matrix: Water - Ground

Customer Sample ID Cash Gulch
Sample Date/Time: 12/3/21 3:40 PM
Lab Number: 211203062-09

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Sulfate	149.62 mg/L	EPA 300.0	0.01 mg/L	12/3/21	QC53731	AMJ
Total Dissolved Solids	311 mg/L	SM 2540-C	5 mg/L	12/7/21	QC53742	ISG
<u>Dissolved</u>						
Arsenic	ND	EPA 200.8	0.0006 mg/L	12/7/21	QC53756	MBN
Cadmium	0.0005 mg/L	EPA 200.8	0.0001 mg/L	12/7/21	QC53756	MBN
Manganese	0.0136 mg/L	EPA 200.8	0.0008 mg/L	12/7/21	QC53756	MBN
Zinc	0.157 mg/L	EPA 200.8	0.001 mg/L	12/7/21	QC53756	MBN

Abbreviations/ References:

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ND = Not Detected at Reporting Limit.

Analytical QC Summary

TASK NO: 211203062

Report To: Avrom Howard
Company: Colorado Milling CO

Receive Date: 12/3/21
Project Name: Gold Hill

Test	QC Batch ID	QC Type	Result	Method
Arsenic	QC53756	Method Blank	ND	EPA 200.8
Cadmium	QC53756	Method Blank	ND	EPA 200.8
Manganese	QC53756	Method Blank	ND	EPA 200.8
Zinc	QC53756	Method Blank	ND	EPA 200.8
Sulfate	QC53731	Blank	ND	EPA 300.0
Total Dissolved Solids	QC53742	Blank	ND	SM 2540-C

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Arsenic	QC53756	LCS	90 - 110	97.0	-	EPA 200.8
		MS	70 - 130	122.2	-	
		MSD	0 - 10	-	0.7	
Cadmium	QC53756	LCS	90 - 110	94.0	-	EPA 200.8
		MS	70 - 130	111.0	-	
		MSD	0 - 10	-	0.1	
Manganese	QC53756	LCS	90 - 110	101.4	-	EPA 200.8
		MS	70 - 130	99.6	-	
		MSD	0 - 10	-	0.5	
Zinc	QC53756	LCS	90 - 110	97.1	-	EPA 200.8
		MS	70 - 130	128.3	-	
		MSD	0 - 10	-	3.4	
Sulfate	QC53731	Duplicate	0 - 20	-	6.3	EPA 300.0
		LCS	90 - 110	98.2	-	
		MS	75 - 125	97.1	-	
Total Dissolved Solids	QC53742	Duplicate	0 - 20	-	7.7	SM 2540-C
		LCS	85 - 115	100.7	-	

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:

RL = Reporting Limit = Minimum Level
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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 100A
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>	<u>Gold Hill</u>
Contact Name: <u>Wren Howard</u>	Contact Name: _____	
Address: <u>72 Brandy wine drive</u>	Address: _____	Task Number (Lab Use Only)
City <u>Williams</u> State <u>NY</u> Zip <u>14221</u>	City _____ State _____ Zip _____	CAL Task
Phone: <u>970-234-9757</u>	Phone: _____	<u>211203062</u>
Email: <u>A.E.H@NEBVconsulting.com</u>	Email: _____	JML
Sample Collector: <u>A.E.H L.S.P</u>		
Sample Collector Phone: <u>970-234-9757</u>	PO No.: _____	

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	H-Z in Z	Residue/TS	Sulfate						
Date	Time	Sample ID																	
12/3/21	12:00	tailings Pond	2	/			X	X	X	X	X	X							
"	1:10 PM	MW 1	2	/			X	X	X	X	X	X							
"	1:35 PM	W-1	2	/			X	X	X	X	X	X							
"	1:50 PM	W-2	2	/			X	X	X	X	X	X							
"	2:15 PM	W-3	2	/			X	X	X	X	X	X							
"	2:30 PM	W-4	2	/			X	X	X	X	X	X							
"	3:00 PM	MW-5	2	/			X	X	X	X	X	X							
"	3:10 PM	Cash mine Pond	2	/			X	X	X	X	X	X							
"	3:40 PM	Cash Gulch	2	/			X	X	X	X	X	X							
			(18)																

Instructions:

Diss metals per history - W

C/S Info:

by hand

Deliver Via:

C/S Charge ☐

Seals Present Yes ☐ No ☐

Temp. 3 °C/Ice Y

Sample Pres. Yes ☐ No ☒

Relinquished By:

Date/Time:

Received By:

Date/Time:

Relinquished By:

Date/Time:

Received By:

Date/Time:

Lewis Perkins 12/3/2021

Adams

12/3/21

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