



STATE OF  
COLORADO

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

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## water reporting Q3/2020

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**Avrom Howard** <aeh@nebuconsulting.com>

Wed, Oct 21, 2020 at 2:23 PM

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

Hi Amy,

Please see the two reports for Q3/2020 attached below. Let me know if they are satisfactory.

Regards,

Avrom

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### 2 attachments



**20-10 Q3 report M1983-141.pdf**  
3814K



**20-10 Q3 report M1994-117.pdf**  
3825K



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

October 21, 2020

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 Water Sampling Results  
Gold Hill Project (Cash Mine Property), Gold Hill, Colorado  
Mine Land Reclamation Permit No. M-1983-141

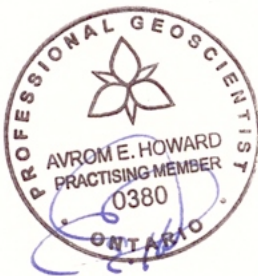
Dear Mr. Cunningham & Ms. Eschberger,

The third quarter, 2020 ("Q3/20") water sampling was conducted by Colorado Milling Company personnel – Lewis Perkins and Avrom Howard, on September 22, 2020.

- **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 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

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	09/22/20	10:05	65.15	7.7	10.2	1,675	200922120-01	09/29/20	<0.0006	<0.0001	0.505	0.002	1,449	827.88
MW5	09/22/20	11:45	26.60	7.6	12.7	900	200922120-02	09/29/20	0.0008	<0.0001	0.254	<0.001	760	270.55
CM	09/22/20	11:55	-	7.9	12.9	1,244	200922120-03	09/29/20	<0.0006	0.0049	1.876	2.423	1,225	614.28
CG	09/22/20	12:20	-	7.75	12.7	439	200922120-04	09/29/20	<0.0006	0.0005	0.012	0.124	332	136

Complete data set for monitoring stations associated with permit M-1983-141



## Analytical Results

**TASK NO: 200922120**

**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.:** 200922120  
**Client PO:**  
**Client Project:** Gold Hill

**Date Received:** 9/22/20  
**Date Reported:** 9/29/20  
**Matrix:** Water - Ground

**Customer Sample ID** MW1

**Sample Date/Time:** 9/22/20 10:05 AM

**Lab Number:** 200922120-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Sulfate	827.88 mg/L	EPA 300.0	0.01 mg/L	9/23/20	MAT
Total Dissolved Solids	1449 mg/L	SM 2540-C	5 mg/L	9/25/20	JTF
<u>Dissolved</u>					
Arsenic	< 0.0006 mg/L	EPA 200.8	0.0006 mg/L	9/25/20	IPC
Cadmium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	9/25/20	IPC
Manganese	0.5049 mg/L	EPA 200.8	0.0008 mg/L	9/25/20	IPC
Zinc	0.002 mg/L	EPA 200.8	0.001 mg/L	9/25/20	IPC

**Abbreviations/ References:**

ML = Minimum Level = LRL = RL  
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



DATA APPROVED FOR RELEASE BY

**10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313**  
**Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507**

## Analytical Results

**TASK NO:** 200922120

**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.:** 200922120  
**Client PO:**  
**Client Project:** Gold Hill

**Date Received:** 9/22/20  
**Date Reported:** 9/29/20  
**Matrix:** Water - Ground

**Customer Sample ID** MW5

**Sample Date/Time:** 9/22/20 11:45 AM

**Lab Number:** 200922120-02

Test	Result	Method	ML	Date Analyzed	Analyzed By
Sulfate	270.55 mg/L	EPA 300.0	0.01 mg/L	9/23/20	MAT
Total Dissolved Solids	760 mg/L	SM 2540-C	5 mg/L	9/25/20	JTF
<u>Dissolved</u>					
Arsenic	0.0008 mg/L	EPA 200.8	0.0006 mg/L	9/25/20	IPC
Cadmium	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	9/25/20	IPC
Manganese	0.2540 mg/L	EPA 200.8	0.0008 mg/L	9/25/20	IPC
Zinc	< 0.001 mg/L	EPA 200.8	0.001 mg/L	9/25/20	IPC

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Date Analyzed = Date Test Completed



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## Analytical Results

**TASK NO: 200922120**

**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.:** 200922120  
**Client PO:**  
**Client Project:** Gold Hill

**Date Received:** 9/22/20  
**Date Reported:** 9/29/20  
**Matrix:** Water - Ground

**Customer Sample ID** CMP

**Sample Date/Time:** 9/22/20 11:55 AM

**Lab Number:** 200922120-03

Test	Result	Method	ML	Date Analyzed	Analyzed By
Sulfate	614.28 mg/L	EPA 300.0	0.01 mg/L	9/23/20	MAT
Total Dissolved Solids	1225 mg/L	SM 2540-C	5 mg/L	9/25/20	JTF
<u>Dissolved</u>					
Arsenic	< 0.0006 mg/L	EPA 200.8	0.0006 mg/L	9/25/20	IPC
Cadmium	0.0049 mg/L	EPA 200.8	0.0001 mg/L	9/25/20	IPC
Manganese	1.8761 mg/L	EPA 200.8	0.0008 mg/L	9/25/20	IPC
Zinc	2.423 mg/L	EPA 200.8	0.001 mg/L	9/25/20	IPC

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## Analytical Results

**TASK NO: 200922120**

**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.:** 200922120  
**Client PO:**  
**Client Project:** Gold Hill

**Date Received:** 9/22/20  
**Date Reported:** 9/29/20  
**Matrix:** Water - Ground

**Customer Sample ID** CG

**Sample Date/Time:** 9/22/20 12:20 PM

**Lab Number:** 200922120-04

Test	Result	Method	ML	Date Analyzed	Analyzed By
Sulfate	136.00 mg/L	EPA 300.0	0.01 mg/L	9/23/20	MAT
Total Dissolved Solids	332 mg/L	SM 2540-C	5 mg/L	9/25/20	JTF
<u>Dissolved</u>					
Arsenic	< 0.0006 mg/L	EPA 200.8	0.0006 mg/L	9/25/20	IPC
Cadmium	0.0005 mg/L	EPA 200.8	0.0001 mg/L	9/25/20	IPC
Manganese	0.0116 mg/L	EPA 200.8	0.0008 mg/L	9/25/20	IPC
Zinc	0.124 mg/L	EPA 200.8	0.001 mg/L	9/25/20	IPC

**Abbreviations/ References:**

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