Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

March 22, 2022

Mr. Lucas West
State of Colorado
Division of Reclamation, Mining and Safety
Room 215
1001 E 62nd Avenue, Denver, CO 80216

Re: Battle Mountain Resources, Inc.
San Luis Project - San Luis, Colorado
Annual Report and Fee 2021
CMLRB Permit No. M-1988-112

Dear Mr. West:

Please find included the Battle Mountain Resources, Inc. (BMRI) "San Luis Project" (Permit No. M-1988-112) Annual Report and a site map as requested in the February 21, 2022 email from the Colorado Division of Reclamation, Mining, and Safety (CDRMS) to Julio Madrid of BMRI/Newmont. The following summarizes the operation, reclamation, permitted area, dam inspections, and site monitoring activities performed, as well as any technical revisions and permit amendments made for the San Luis Project during 2021.

General Reclamation Activities

Reclamation activities and technical revisions during 2021 included:

- Continued stormwater management on and adjacent to reclaimed and unreclaimed mine land. Stormwater inspections were performed on May 13, 2021 and September 21 2021, and any issues noted were corrected;
- Treatment of water from the West Pit and Rito Seco alluvial groundwater systems;
- Tailing facility storage pond, underdrain, and leak detection system management;
- Surface and ground water management.

Reclamation Areas

BMRI did not perform any additional reclamation in 2021. There are 78.7 acres of reclamation remaining, as summarized in Table 1.

Table 1 - Summary of San Luis Project Reclamation

Area	Actual Disturbance (Acres)	Reclamation Completed Through 2020 (Acres)	Reclamation Completed In 2021 (Acres)	Remaining Reclamation (Acres)
East Pit	20	20	0	0
West Pit	100	71.3	0	28.7
Waste Rock A	0	0	0	0
Waste Rock B	18	18	0	0
Waste Rock C	28	28	0	0
Waste Rock D	42	42	0	0
South Waste Rock	35	35	0	0
Mill Area	25.6	25.6	0	0
ESI Leach Pad	10	10	0	0
Borrow Area	5.5	0	0	5.5
Road Around Tailing Facility and Collection Pond	4	0	0	4
Tailing Facility Perimeter Road	12.9	0	0	12.9
Waste Rock C Access Road	3.7	3.7	0	0
Pink Gneiss Pit Haul Road	3.8	3.8	0	0
Tailing Facility	192	169.4	0	22.6
Tailing Collection Pond	5	0	0	5
Admin. Office Complex – Deeded lands to Costilla County Soil Conservation District (CCSCD)	3	3	0	0
Total Area	508.5	429.8	0	78.7

Permitted Areas

The current unreleased Permit Areas consist of both reclaimed and unreclaimed land and disturbed and undisturbed land. BMRI requested and received a land release of 308.7 acres in 2021, therefore the 2021 Permit Area remaining is 428.22 acres. The 2021 disturbed Permit Areas remaining are 300.8 acres. Table 2 summarizes the disturbed areas in the permit.

Table 2 - Summary of Permitted Areas

Area	Permitted Disturbance (Acres)	Actual Disturbance Areas (Acres)	Disturbance Areas Released from Permit Area (Acres)	Disturbance Areas Remaining in Permit Area (Acres)
East Pit	20	20	20	0
West Pit	110	100	8.9	91.1
Waste Rock A	0	0	0	0
Waste Rock B	18	18	18	0
Waste Rock C	30	28	25.8	2.2
Waste Rock D	42	42	42	0
South Waste Rock	50	35	33.6	1.4
Mill Area	25.6	25.6	15.6	10.0
ESI Leach Pad	10	10	10	0
Borrow Area	11	5.5	0	5.5
Roads	30	24.4	13.2	11.2
Tailing Facility	192	192	17.6	174.4
Tailing Collection Pond	5	5	0	5
Admin. Office Complex – Deeded lands to Costilla County Soil Conservation District (CCSCD)	3	3	3	0
Total Area	546.6	508.5	207.7	300.8

Dam Inspections

During 2021, quarterly dam inspections were performed as required in Technical Revision 33 (TR-33). The first, third, and fourth quarter dam inspections were performed by BMRI. The annual dam inspection was performed by Engineering Analytics, Inc. (EA) and BMRI. The quarterly and annual dam inspections were submitted previously to CDRMS and are also included in Appendix A.

Site Monitoring

Water level data, laboratory analytical results, and flows were submitted to CDRMS as part of the Monthly Reports throughout 2021, and are also included in Appendix B. During 2021, groundwater sampling and water level measurements were performed as required in Technical Revision 32 (TR-32). Sampling and laboratory analyses for groundwater monitoring well M-14 continued during 2021 under the CDRMS approved Response Plan. M-14 will continue to be sampled and results reported as required in TR-32 in 2022.

The Lined Tailing Facility (LTF) collection pond leak detection system (underdrain) was monitored monthly and evacuated and pumped to the LTF. The monthly leak-detection flows for 2021 ranged from a low of 25.6 gallons per day (gpd) to a high of 33.6 gpd. The average monthly

leak-detection flow, for 2021, was 29.2 gpd. The collection pond water was sampled and analyzed quarterly and the laboratory analytical results are located in Appendix B under the Monthly and Quarterly Sampling Data. Also, the flows were submitted to CDRMS in the Monthly Sampling Data and are also included in Appendix B.

The LTF underdrain flows were monitored monthly at the base of the embankment and the flows for 2021 ranged from a low of 28 gallons per minute (gpm) to a high of 36.5 gpm. In 2021, the monthly average underdrain flow was 31.9 gpm. The monthly underdrain flows were submitted previously to CDRMS as part of the Monthly Reports and are included in Appendix B.

The LTF system lysimeters were monitored monthly. The lysimeters were dry and no groundwater was present for sampling or analysis in 2021.

There was 405 cubic yards of sludge transferred from the water treatment plant drying pads to the LTF in 2021. The monthly sludge management information was submitted previously to the CDRMS in the Monthly Reports which are also included in Appendix B.

During 2021, BMRI managed the Rito Seco and West Pit alluvial hydrologic systems, in compliance with Technical Revision 26 (TR-26). BMRI measured the West Pit backfill monitoring wells weekly and the monthly average groundwater elevations were maintained below the TR-26 required level of 8,582 feet above mean sea level (amsl). The groundwater table elevations and potentiometric surface maps, developed by EA, confirm the groundwater flow gradient was from the Rito Seco alluvium to the West Pit backfill during 2021. The groundwater elevations and potentiometric surface maps were previously submitted to the Colorado Department of Public Health and Environment (CDPHE) with the Discharge Monitoring Reports (DMR's), Best Management Practices (BMP's), and Whole Effluent Toxicity (WET) Testing Reports under permit number CO0045675 and are also included in Appendix C. BMRI also performed monthly visual inspections for seepage in the historic seepage area along the Rito Seco Creek and no seeps were observed during 2021.

Additionally, the two groundwater capture wells, M-32 and M-33, were operated in conjunction with other groundwater table elevation control wells in the West Pit during 2021. Groundwater elevations were maintained equal to or lower than 8,540 feet amsl in wells M-32 and M-33, as required under TR-26. These elevations were also previously submitted to CDPHE with the DMR's, BMP's, and WET Testing Reports under permit number CO0045675 and are also included in Appendix C. Groundwater pumped from these wells was either treated at the West Pit Water Treatment Plant and discharged to the Rito Seco under the BMRI discharge permit, or pumped to the LTF for water management. In 2021, the West Pit water treatment plant treated and discharged a total of 86,547,600 gallons of water to the Rito Seco Creek. Additionally, a total of 4,879,500 gallons of water was transferred from the West Pit to the LTF.

Should additional information be required or if any clarifications are necessary, please contact me at (719) 379-0538.

Julio Madrid

Sr. Supervisor Legacy Sites Closure and Reclamation

Cc: Devon Horntvedt (electronic)
Lawrence Fiske, BMRI (electronic)
Melissa Chalona, Engineering Analytics
BMRI File

Enclosures:

Appendix A – Dam Inspection Reports
Appendix B – Monthly Reports and Quarterly and Monthly Sampling Data
Appendix C – DMR's, BMP's, and WET Testing Reports
Report Request
2021 Site Map

APPENDIX A

BATTLE MOUNTAIN RESOURCES, INC.

April 14, 2021

RECEIVED

APR 19 2021

DIVISION OF RECLAMATION
MINING AND SAFETY

Mr. Lucas West

Colorado Division of Reclamation, Mining and Safety

1313 Sherman Street, Room 215

Denver, CO 80203

Re: San Luis Project Tailing Dam Q1 2021 Inspection Report, Technical Revision No. 33, Permit No. M-1988-112

Dear Mr. West:

Battle Mountain Resources Inc. (BMRI) is pleased to provide the Q1 2021 San Luis Tailing Dam Inspection Report in accordance with Technical Revision No. 33 to BMRI's Reclamation Permit.

The Inspection was conducted by BMRI Site Manager David Carino.

Enclosed with the inspection report are photos of the Tailing Impoundment facilities to include the drop structure and the under-drain discharge area. Also included are the Q1 2021 Piezometer Inspection results.

Respectfully,

Julio F. Madrid

Sr. Supervisor Colorado Legacy Sites

(719) 379-0538

cc: Devon Horntvedt

David Carino

	INSPECTION PERIOD:	January 2021 thru March 2021			page	1/1		
	INSPECTOR:	David S. Carino						
DAM:	SAN LUIS PROJECT TAILING DAM				CHECK ACTION NEEDED			
AREA INSPECTED	ITEM NO.	CONDITION	YES	NO	OBSERVATIONS	MONITOR	INVESTI-GATE	REPAIR
CREST	1	ANY SURFACE CRACKING?		✓				
	2	ANY UNUSUAL LOW AREAS?		✓				
	3	ANY RUTS OR PUDDLES?		✓				
	4	ANY HORIZONTAL OFFSET?		✓				
	5	NEED VEGETATION CONTROL?		✓				
UPSTREAM SLOPE & BEACH AREA	6	ANY SLIDES, SLOUGHS, SCARPS?		✓				
	7	ANY SINKHOLES OR UNUSUAL DEPRESSIONS?		✓				
	8	ANY EROSION ?		✓				
	9	CHANGES AT ABUTMENT CONTACTS?		✓				
	10	NEED VEGETATION CONTROL?		✓				
	11							
DOWNSTREAM SLOPE	12	ANY WET AREAS?		✓				
	13	ANY SLIDES, SLOUGHS, SCARPS?		✓				
	14	CHANGES AT DAM-ABUTMENT CONTACT?		✓				
	15	ANY EROSION?	✓		minor erosion on north grain area.	✓		
	16	ANY UNUSUAL BULGING OR SLOPE MOVEMENT?		✓				
	17	NEED VEGETATION CONTROL?		✓				
	18							
SEEPAGE COLLECTION AND PUMPBACK SYSTEM	19	IS DRAIN OUTLET CLOGGED OR OBSTRUCTED?		✓				
	20	ARE DRAIN FLOWS MUDDY OR TURBID?		✓				
	21	IS EMBANKMENT WET AROUND DRAIN OUTLET?	✓		minor leakage around piping	✓		
	22	ANY PROBLEMS WITH COLLECTION POND?		✓				
	23	IS PUMPBACK SYSTEM WORKING PROPERLY?	✓					
	24							
DIVERSION CHANNEL AND DROP STRUCTURE	25	ANY EROSION?		✓				
	26	NEED VEGETATION CONTROL?		✓				
	27	ANY DEBRIS IN CHANNELS OR DROP STRUCTURE?		✓				
	28	ANY CRACKS OR DETERIORATION OF CONCRETE?		✓				
	29	ANY CORROSION OF PIPE?		✓				
	30							
ADDITIONAL COMMENTS (REFER TO ITEM NO. IF APPLICABLE):								

QUARTERLY INSPECTION SUMMARY

NAME OF DAM:	San Luis Project Tailing Dam			CO DRMS Permit #:	M-1988-112
REPORTING PERIOD:	1/1/21	thru	3/31/21	REPORT #:	

INSPECTION ITEMS		PHOTOS
Piezometer Levels	Included in report.	NO
Drain Collection and Pumpback System Observations	System working properly	Yes
Seepage/Erosion Observations	minor erosion on Northgrain area (downstream)	Yes
Vegetation/Rodent/ Other Maintenance Observations	NONe	NO
Diversion System Observations	Channel in good condition, No issues	Yes

RECOMMENDATIONS/COMMENTS

INSPECTION AND REPORTING PERSONNEL

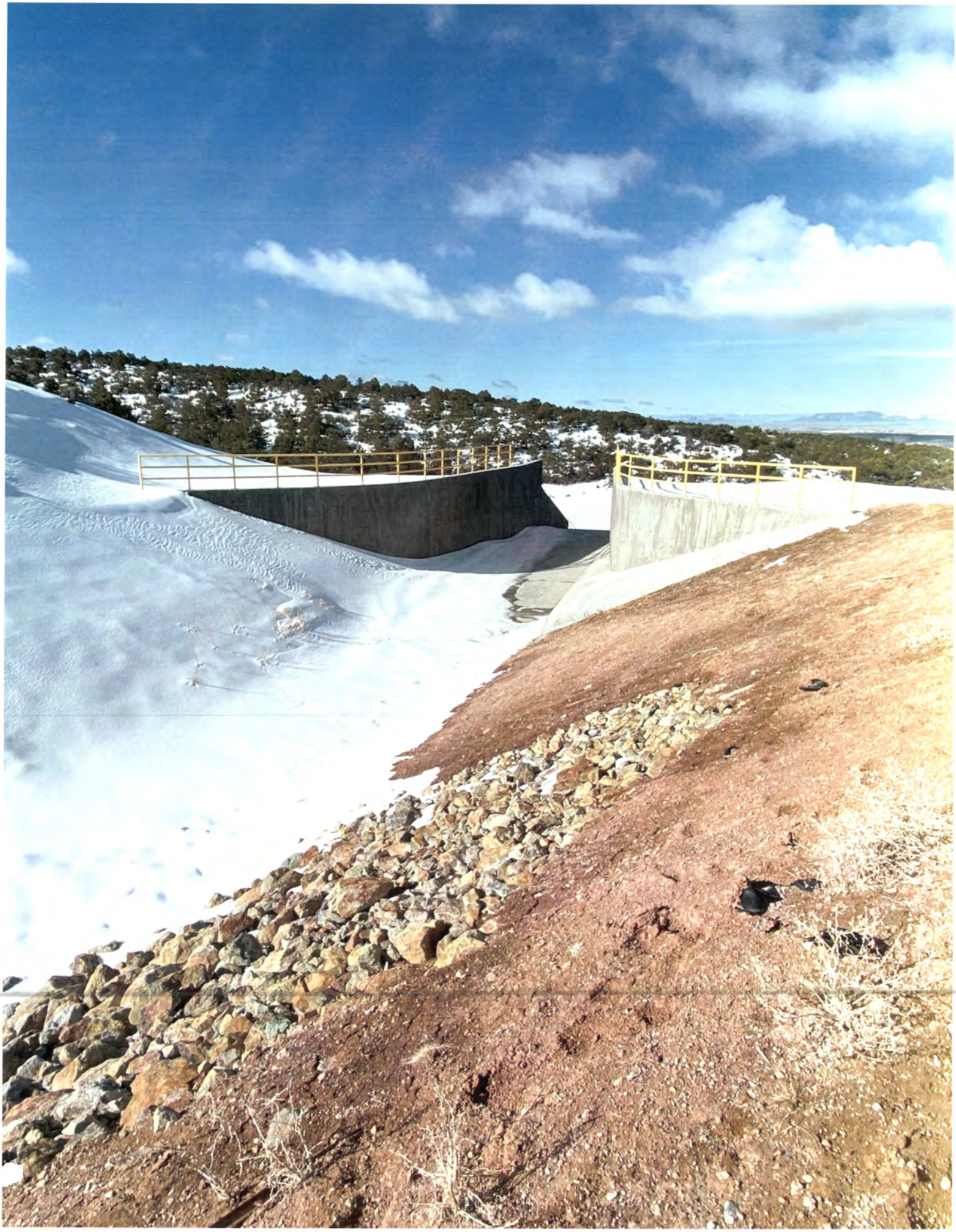
NAME	REPRESENTING	TITLE/ROLE
David S. Carino	BMRI / Newmont	Site Manager
Julio Madrid	BMRI / Newmont	Site Supervisor

Q1 2021 Piezometer Elevations

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	01/28/2021	72.46	DRY	N/A
P7	01/28/2021	92.50	92.30	0.20
P8	01/28/2021	97.51	96.65	0.86
P9	01/28/2021	72.30	71.90	0.40
P10	01/28/2021	58.30	57.62	0.68
P11	01/28/2021	41.80	41.41	0.39
P12	01/28/2021	41.71	41.66	0.05
P13	01/28/2021	41.34	40.99	0.35
P14	01/28/2021	41.24	DRY	N/A
P15	01/28/2021	41.10	40.86	0.24

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	02/25/2021	72.46	DRY	N/A
P7	02/25/2021	92.50	92.29	0.21
P8	02/25/2021	97.51	96.62	0.89
P9	02/25/2021	72.30	71.90	0.40
P10	02/25/2021	58.30	57.63	0.67
P11	02/25/2021	41.80	41.40	0.40
P12	02/25/2021	41.71	41.67	0.04
P13	02/25/2021	41.34	41.00	0.34
P14	02/25/2021	41.24	DRY	N/A
P15	02/25/2021	41.10	40.86	0.24

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	03/31/2021	72.46	DRY	N/A
P7	03/31/2021	92.50	92.28	0.22
P8	03/31/2021	97.51	96.61	0.90
P9	03/31/2021	72.30	71.91	0.39
P10	03/31/2021	58.30	57.61	0.69
P11	03/31/2021	41.80	41.40	0.40
P12	03/31/2021	41.71	41.67	0.04
P13	03/31/2021	41.34	41.02	0.32
P14	03/31/2021	41.24	DRY	N/A
P15	03/31/2021	41.10	40.86	0.24



BATTLE MOUNTAIN RESOURCES, INC.

Mr. Lucas J. West
CDRMS
1313 Sherman Street, Room 215
Denver, CO 80203

P.O. Box 310 • San Luis, Colorado 81152-0310 • (719) 379-0798 • Fax (719) 379-0713
Return Postage Guaranteed

September 1, 2021

Mr. Lucas West
Colorado Division of Reclamation, Mining and Safety
1313 Sherman Street, Room 215
Denver, CO 80203

RE: San Luis Project Tailings Dam
2021 Annual Inspection Report
Technical Revision No. 33
Permit No. M-1988-112

Dear Mr. West:

Battle Mountain Resources Inc. (BMRI) is pleased to provide the 2021 Annual San Luis Tailings Dam Inspection Report in accordance with Technical Revision No. 33 to BMRI's Reclamation Permit. The inspection was conducted by Mark S. Abshire, PE of Engineering Analytics, Inc., and BMRI Site Manager David Carino. Enclosed with the inspection report are photos of the tailings impoundment facilities to include the drop structure and the underdrain discharge area.

Please let me know if you have any questions.

Respectfully,

Julio F. Madrid
Senior Supervisor Colorado Legacy Sites

Cc: Devon Horntvedt
David Carino

Enclosures: 2021 Annual Dam Safety Inspection Report: San Luis Tailings Dam, CDRMS Permit No. M-1988-112
File Name: *San Luis TSF_2021 Annual Dam Safety Inspection Report_24Aug2021.pdf*

Engineering Analytics, Inc. 1600 Specht Point Rd. Suite 209 Fort Collins, CO 80525 970.488.3111 www.EngAnalytics.com

August 24, 2021 Project No. 2101.05.15

Mr. David Carino
Battle Mountain Resources, Inc.
P.O. Box 310
San Luis, CO 81152-0310

RE: 2021 Annual Dam Safety Inspection Report
San Luis Tailings Dam
CDRMS Permit No. M-1988-112

Dear Mr. Carino,

At your request, Engineering Analytics, Inc. (EA) conducted the 2021 annual dam safety inspection for the San Luis Tailings Dam. The inspection was conducted on June 8 by Mark S. Abshire, P.E., in conformance with the Tailing Dam Safety Inspection and Reporting Program prepared by Miller Geotechnical Consultants, Inc. (MGC), dated March 12, 2013. Also present were Deb Miller, PE (MGC), yourself and Julio Madrid (BMRI).

EA's inspection included review of the following historical project documents:

- San Luis Project Tailing Dam Detailed Inspection Report (MGC, February 2014)
- 2015 Annual Inspection Report (MGC, June 10, 2015)
- 2016 Annual Inspection Report (MGC, July 6, 2016)
- 2017 Annual Inspection Report (EA, August 18, 2017)
- 2018 Annual Inspection Report (MGC, August 7, 2018)
- 2019 Annual Inspection Report (MGC, July 3, 2019)
- 2020 Annual Inspection Report (MGC, September 25, 2020).

An overall site plan of the San Luis TSF is presented on Figure 1. Specific inspection results are detailed on the Tailing Dam Inspection Form (Attachment 1), and findings are presented on Figure 2. Figures 3 and 4 present piezometer levels and underdrain flow measurements, respectively. Photographs taken during the inspection are included as Attachment 2.

PREVIOUS FINDINGS

The primary issues identified in the 2020 annual inspection included minor surface erosion on the downstream dam slope, the potential for surface erosion in disturbed areas around the South Diversion Ditch Drop Structure (construction completed in 2019), and the ongoing need for maintenance around the underdrain outfall to reduce ponding of surface water in that area. Additionally, it was recommended that BMRI consider installing a concrete structure for collecting underdrain flows from the toe drains to facilitate maintenance in the toe drain area, improve

conditions for monitoring and inspecting the drain system, and to prevent the attraction of animals to the area by pooling of leakage from the drain pipes.

INSTRUMENTATION

Piezometers: Piezometer readings from June 2020 to June 2021 are shown in Table 1, and readings from July 2019 through June 2021 are presented graphically on Figure 3. The piezometers all indicate dry conditions or minor amounts of water present at the bottom of the casings due to moisture condensation. This behavior is consistent with historic observations and indicates that the sub-drains are functioning. Low phreatic conditions are maintained within the dam embankment. No abnormalities are indicated in the measurements.

Table 1 San Luis TSF Piezometer Levels: June 2020 - June 2021

PIEZOMETER ID TOTAL DEPTH (ft)*	P6 72.46	P7 92.50	P8 97.51	P9 72.30	P10 58.30	P11 41.80	P12 41.71	P13 41.34	P14 41.24	P15 41.10
6/30/2020	72.46	92.29	96.68	71.89	57.56	41.38	41.68	41.04	41.24	40.86
7/30/2020	72.46	92.29	96.69	71.88	57.55	41.39	41.68	41.03	41.24	40.86
8/31/2020	72.46	92.29	96.69	71.89	57.57	41.39	41.68	41.04	41.24	40.87
9/30/2020	72.46	92.29	96.67	71.89	57.58	41.39	41.68	41.04	41.24	40.86
10/29/2020	72.46	92.29	96.68	71.89	57.59	41.39	41.68	41.04	41.24	40.85
11/30/2020	72.46	92.30	96.65	71.90	57.60	41.39	41.68	41.02	41.24	40.86
12/31/2020	72.46	92.29	96.65	71.90	57.61	41.40	41.68	41.00	41.24	40.87
1/28/2021	72.46	92.30	96.65	71.90	57.62	41.41	41.66	40.99	41.24	40.86
2/25/2021	72.46	92.29	96.62	71.90	57.63	41.41	41.67	41.00	41.24	40.86
3/31/2021	72.46	92.28	96.61	71.91	57.61	41.40	41.67	41.02	41.24	40.86
4/29/2021	72.46	92.28	96.63	71.91	57.62	41.40	41.66	41.02	41.24	40.85
5/27/2021	72.46	92.28	96.60	71.91	57.61	41.40	41.66	41.02	41.24	40.86
6/30/2021	72.46	92.27	96.59	71.91	57.61	41.40	41.67	41.03	41.24	40.86

* Piezometer total depths measured from top of casing

Underdrain: Underdrain flow rates discharging to the seepage collection pond from June 2020 through June 2021 are shown in Table 2, and flow rates from 2016 to 2021 are presented graphically on Figure 4. Average underdrain flow measurements from 2019-21 (32.5 gpm) are slightly lower than from 2016-2021 (34.8 gpm).

The underdrain pipes were jet-cleaned in 2014 in conjunction with the first camera inspection of the accessible downstream ends of the pipes. A second video inspection of the pipe ends was done without jet cleaning in 2018. The 2018 videos showed some accumulation of sediment and precipitates in the pipes compared to the 2014 videos, but the pipes were all still flowing (not clogged). Thus, the observed slight reduction in underdrain flow in recent years is likely due to ongoing severe regional drought. The pipes were jet-cleaned again on October 5, 2020, with no video inspection. It is recommended that jetting of the pipes and video inspections be conducted at least every 3 years unless a change in measured drainage flow rates warrants more frequent cleaning and inspection.

Table 2 San Luis TSF Underdrain Flow Measurements: June 2020 - June 2021

Date	Flow (gpm)
6/30/2020	36.5
7/30/2020	32.5
8/31/2020	30.0
9/30/2020	29.5
10/29/2020	29.5
11/30/2020	30.0
12/30/2020	29.5
1/28/2021	29.5
2/25/2021	29.5
3/31/2021	30.5
4/29/2021	31.0
5/27/2021	31.0
6/30/2021	32.0

2021 INSPECTION FINDINGS

The overall surficial conditions of the tailings dam at the time of the inspection were generally satisfactory, except for minor issues discussed in more detail below.

Right Downstream Groin: Revegetation in this area following repairs continues to improve. This area and also the cross-berms and rock-lined down-drains should be monitored closely to make sure erosion does not progress to detrimental levels.

South Diversion Ditch Drop Structure: Disturbed areas adjacent to the drop structure that are not protected by riprap were seeded in 2019. However, vegetation establishment is poor to date due to extended drought conditions, and erosional rilling is beginning to develop in these areas. The condition is presently judged to be minor; however, erosion will progress in the absence of vegetation, and mitigation will likely be required in the coming years. Mitigation may entail erosion repair, erosion control blankets, revegetation, and/or cutting in shallow swales along the slope to reduce runoff flow path lengths.

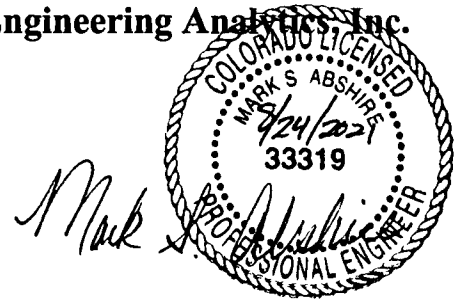
Seepage Underdrain Collection System: Continue the jetting and video inspection program to ensure the drain pipes do not become clogged. Consider installing a concrete structure for collecting underdrain flows from the toe drains to facilitate maintenance in the toe drain area, improve conditions for monitoring and inspecting the drain system, and to prevent the attraction of animals to the area by pooling of leakage from the drain pipes.

CONCLUSIONS

Based on the observations described above, the overall surficial condition of the dam is judged to be 'Satisfactory' at this time. Please don't hesitate to call should you have questions or concerns regarding this inspection report.

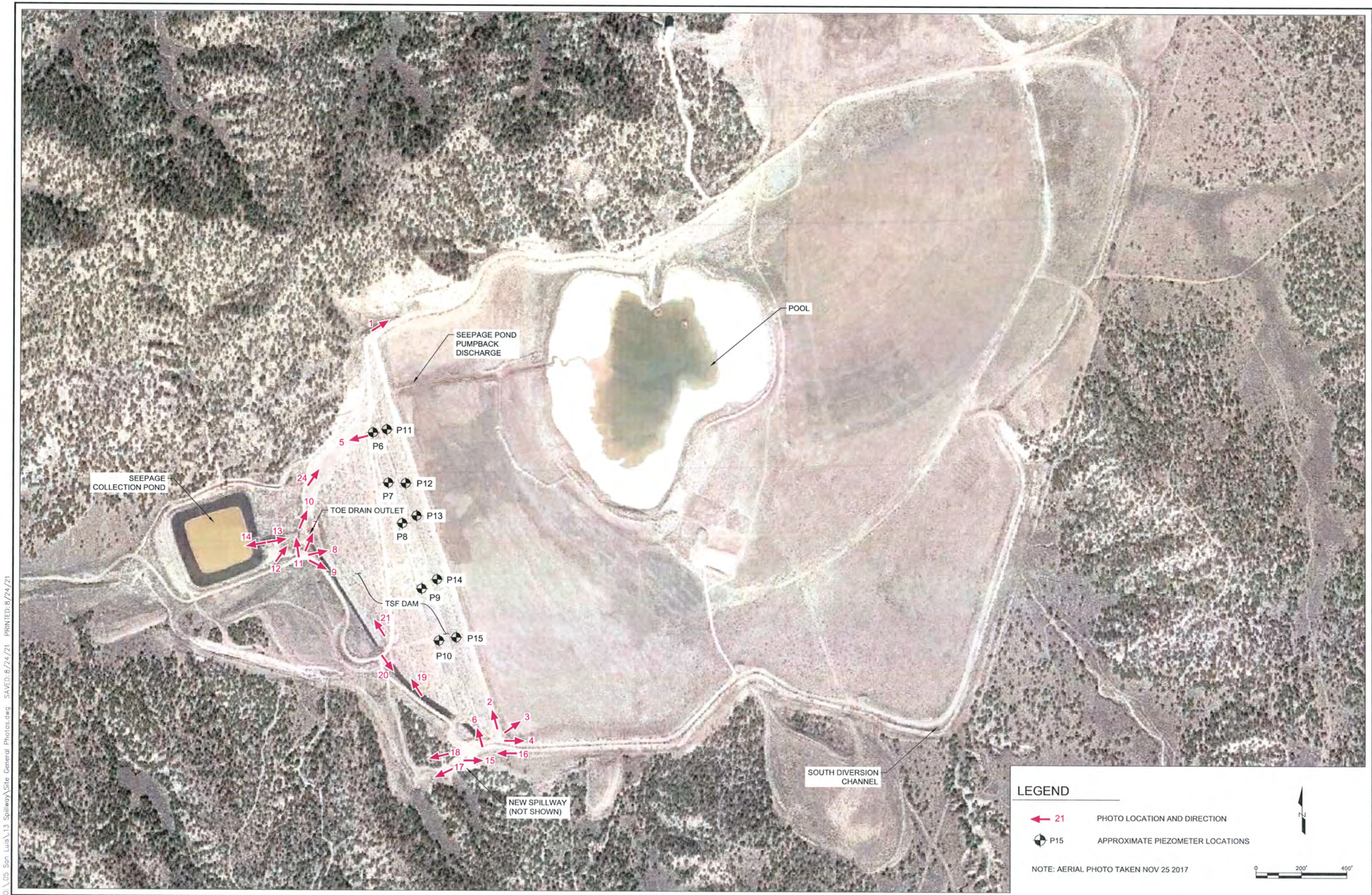
Respectfully Submitted,

Engineering Analytics, Inc.



Mark S. Abshire, P.E.
Senior Geotechnical Engineer

FIGURES



LEGEND

21 — PHOTO LOCATION AND DIRECTION

P15 — APPROXIMATE PIEZOMETER LOCATIONS

NOTE: AERIAL PHOTO TAKEN NOV 25 2017

0 200' 400'

NO	REVISION DESCR.	DATE	BY

BATTLE MOUNTAIN RESOURCES, INC.

SAN LUIS TAILINGS STORAGE FACILITY

OVERALL SITE PLAN

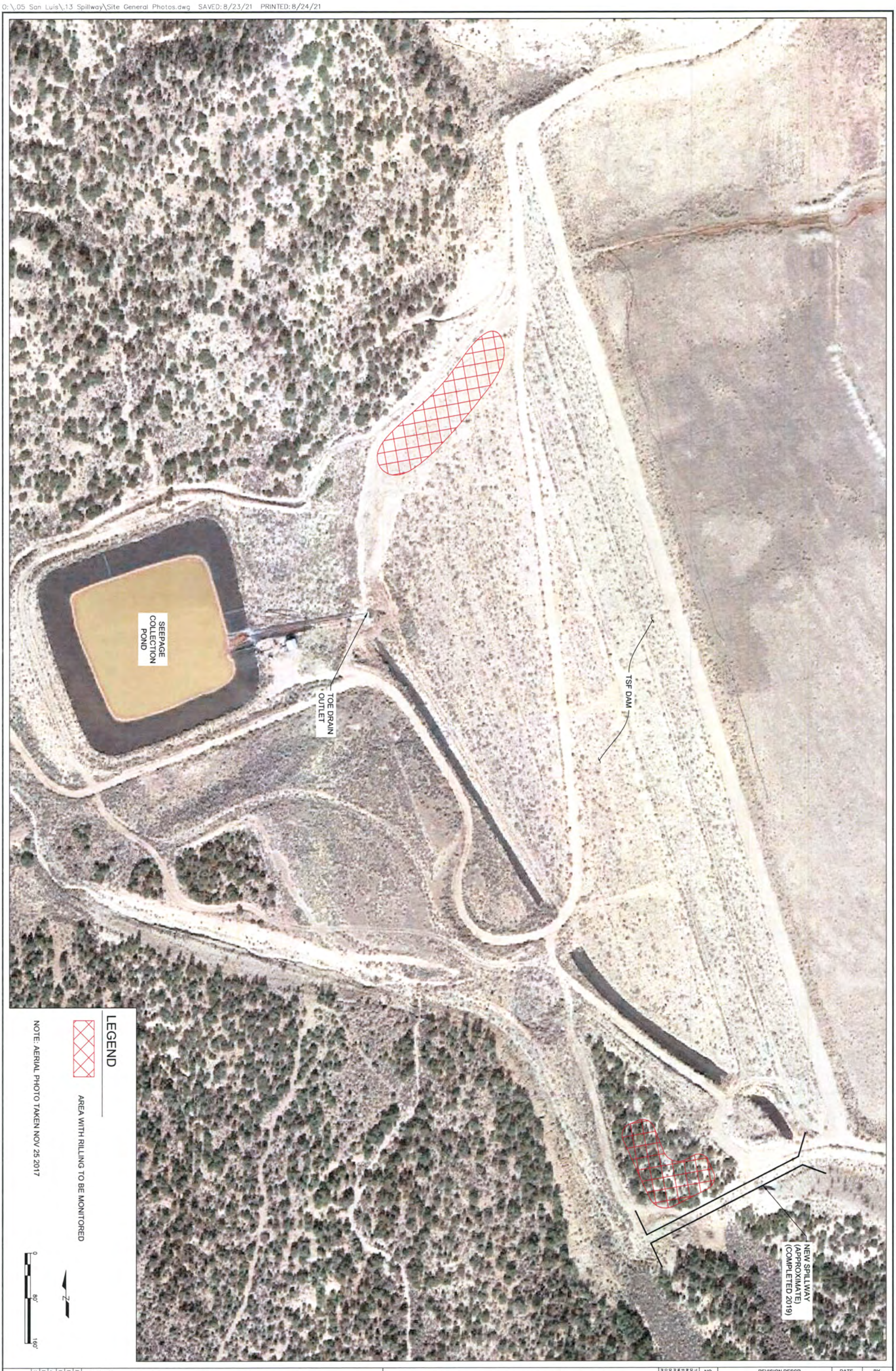
Engineering Analytics, Inc.
1600 Specht Point Road, Suite 209
Fort Collins, CO 80525
(970) 488-3111

ISSUED BY:

Project Number:	101.05.13
Drawn By:	
Designed By:	
Approved By:	MSA
Date:	8/19/2021
Scale:	1" = 400'

FIGURE 1

O:\05 San Luis\13 Spillway\Site General Photos.dwg SAVED: 8/24/21 PRINTED: 8/24/21



LEGEND

AREA WITH RILLING TO BE MONITORED

NOTE: AERIAL PHOTO TAKEN NOV 25 2017

0 80' 160'

N

FIGURE 2

ISSUED BY:

Engineering Analytics, Inc.
1600 Specht Point Road, Suite 209
Fort Collins, CO 80525
(970) 488-3111

Project Number:	101.05.13
Drawn By:	
Designed By:	
Approved By:	MSA
Date:	8/19/2021
Scale:	1" = 160'

BATTLE MOUNTAIN RESOURCES, INC.

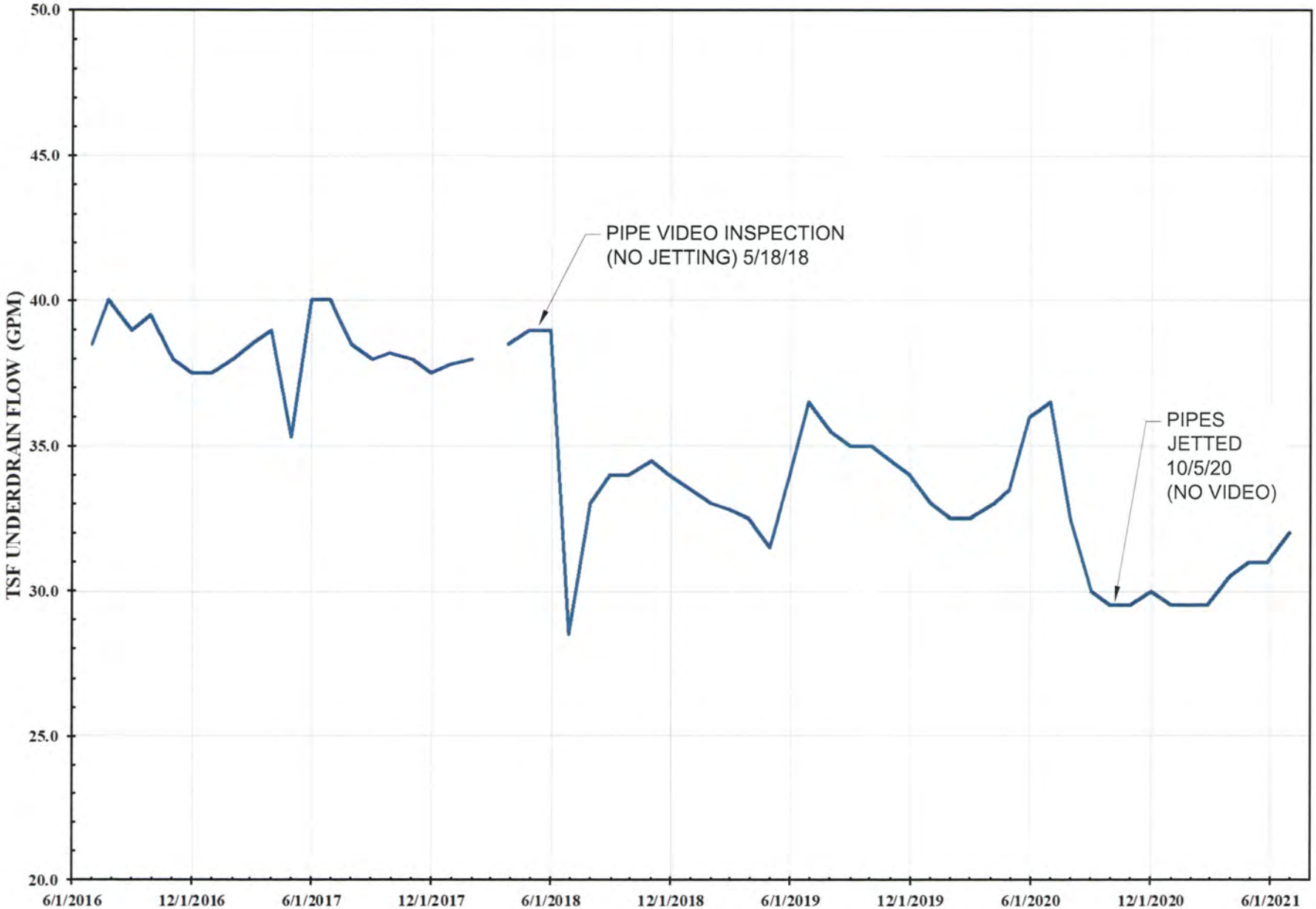
SAN LUIS TAILINGS STORAGE FACILITY

2021 ANNUAL DAM SAFETY INSPECTION

NO	REVISION DESCR.	DATE	BY

Engineering Analytics, Inc.

FIGURE 3
PIEZOMETER LEVELS
2021 ANNUAL DAM SAFETY INSPECTION
SAN LUIS TAILINGS STORAGE FACILITY



Engineering Analytics, Inc.

FIGURE 4
UNDERDRAIN FLOW
2021 ANNUAL DAM SAFETY INSPECTION
SAN LUIS TAILINGS STORAGE FACILITY

ATTACHMENT 1

SAN LUIS TAILINGS DAM

2021 ANNUAL DAM SAFETY INSPECTION FORM

JUNE 8, 2021

DAM NAME: **San Luis Tailings Dam** DATE OF REPORT: August 23, 2021

TAILINGS DAM INSPECTION FORM

Name of Professional Conducting Inspection: Mark S. Abshire, PE	Colorado P.E. License No.: 33319
Company Name and Address: Engineering Analytics, Inc. 1600 Specht Point Road, Suite 209 Fort Collins, Colorado 80525	Phone Nos.: 970-488-3111 (Office) 970-692-4265 (Cell) email: mabshire@enganalytics.com

INSPECTION PREPARATION: I have reviewed all pertinent technical documentation related to this dam and site in the Owner's files:
☒ Yes ☐ No Comment:

STATEMENT OF EXPERIENCE: I am experienced in the technical disciplines or I am working with other professionals experienced in the technical disciplines to properly inspect this dam and appurtenant works. Technical disciplines in addition to general civil engineering may include geotechnical, geological, hydrologic, hydraulics, and structural
☒Yes ☐ No Comment:

YR COMPL 1993 Ph II, Raise 1 1995 Ph II, Raise 2	T R Sec COUNTY Not Applicable- Sangre de Cristo Land Grant Costilla		DATE OF INSPECTION: June 8, 2021	
DAM HEIGHT (FT) ~ 155	DAM LENGTH (FT) ~ 1,900	CREST WIDTH (FT) ~25	PREVIOUS INSPECTION: August 25, 2020	
FREEBOARD (FT) ~ 12	DRAINAGE AREA (AC) 741 total 537 diverted	CREST ELEV (FT) ~ 8620	NORMAL STORAGE (AF) 1,105 at dam crest	POOL SURFACE AREA (AC) 136.7 at dam crest
BEACH LENGTH ABOVE POOL (FT): ~600			DIVERSION CHANNEL CAPACITY (CFS): ~1,500	

OWNER: Battle Mountain Resources, Inc.	OWNER REPRESENTATIVE/CONTACT: David Carino
OWNER ADDRESS: P.O. Box 310 San Luis, Colorado 81152	OWNER CONTACT PHONE NOS.: 719-379-0827 (water treatment plant)

FIELD CONDITIONS OBSERVED	WATER LEVEL BELOW DAM CREST: 12+ FT				
	GROUND MOISTURE CONDITION:	☒ DRY	☐ WET	☐ SNOW COVER	☐ OTHER

Directions: Mark and X for conditions found and underline words that apply

UPSTREAM SLOPE AND BEACH AREA

PROBLEMS NOTED:

☒ (0) NONE ☐ (1) EROSION PROTECTION - Missing/ Sparse ☐ (2) BEACH AREA WAVE EROSION
☐ (3) CRACKS WITH DISPLACEMENT ☐ (4) SINKHOLE ☐ (5) APPEARS TOO STEEP
☐ (6) DEPRESSIONS OR BULGES ☐ (7) SLIDES ☐ (8) ANIMAL BURROWS
☐ (9) OTHER

CONDITIONS OBSERVED: ☒ GOOD ☐ ACCEPTABLE ☐ POOR

CREST

PROBLEMS NOTED:

☒ (10) NONE ☐ (11) RUTS OR PUDDLES ☐ (12) EROSION
☐ (13) CRACKS WITH DISPLACEMENT ☐ (14) SINKHOLES ☐ (15) NOT WIDE ENOUGH
☐ (16) LOW AREA ☐ (17) MISALIGNMENT ☐ (18) IMPROPER SURFACE DRAINAGE
☐ (19) OTHER

CONDITIONS OBSERVED: ☒ GOOD ☐ ACCEPTABLE ☐ POOR

DOWNSTREAM SLOPE

PROBLEMS NOTED:

☒ (20) NONE ☐ (21) LIVESTOCK DAMAGE ☒ (22) EROSION OR GULLIES (R DS Groin)
☐ (23) CRACKS WITH ☐ (24) SINKHOLE ☐ (25) APPEARS TOO STEEP
☐ (26) DEPRESSIONS OR BULGES ☐ (27) SLIDES ☐ (28) SOFT AREAS
☒ (29) OTHER Indications of cattle in underdrain outlet area, but no damage to slope. Continue monitoring erosion and revegetation at right downstream groin.

CONDITIONS OBSERVED: ☒ GOOD ☐ ACCEPTABLE ☐ POOR

DAM NAME: **San Luis Tailing Dam** DATE OF REPORT: August 23, 2021

TAILINGS DAM INSPECTION FORM

Directions: Mark and X for conditions found and underline words that apply

SEEPAGE AND DRAIN OUTFALL

PROBLEMS NOTED:

☐ (30) NONE ☐ (31) SATURATED EMBANKMENT AREA ☐ (32) SEEPAGE EXITS ON DAM

☐ (33) SEEPAGE EXITS AT POINT SOURCE ☒ (34) MINOR PONDING OF PIPE LEAKAGE AT TOE

DRAIN OUTFALL SEEN: ☒ YES ☐ NO

☐ (35) FLOW ADJACENT TO DRAIN PIPE ☐ (36) DRAIN OUTFLOW TURBID ☐ (37) DRAIN DRY/OBSTRUCTED

☐ (38) OTHER

SHOW LOCATION OF DRAIN ON SKETCH AND INDICATE AMOUNT AND QUALITY OF SEEPAGE: See Figure 1. Minor leakage from toe drain creates puddle, attracting animals, but no pipe damage.

CONDITIONS OBSERVED: ☐ GOOD ☒ ACCEPTABLE ☐ POOR

STORM WATER MANAGEMENT SYSTEM

PROBLEMS NOTED:

☐ (40) NONE ☐ (41) NO EMERGENCY SPILLWAY ☒ (42) EROSION AT DROP STRUCTURE

☐ (43) CONCRETE DETERIORATED/UNDERMINED ☐ (45) STRUCTURE MAY BE TOO SMALL

☐ (46) DIVERSION CHANNEL EROSION ☐ (47) INADEQUATE CHANNEL FLOW CAPACITY ☐ (48) CHANNEL FLOW OBSTRUCTED

☒ (49) OTHER Rilling beginning right side of drop structure- continue monitoring.

South diversion channel and downstream toe runoff collection swales are in good condition. Continue monitoring erosion and revegetation at right of the drop structure, but mitigation will likely be required at some point.

CONDITIONS OBSERVED: ☒ GOOD ☐ ACCEPTABLE ☐ POOR

MONITORING

EXISTING INSTRUMENTATION FOUND:

☐ (50) NONE ☐ (51) GAGE ROD IN POOL AREA ☒ (52) PIEZOMETERS

☐ (53) SEEPAGE WEIRS/FLUMES ☐ (54) SURVEY MONUMENTS ☒ (55) OTHER Underdrain flow

MONITORING OF INSTRUMENTATION:

☐ (56) NO WEIRS/FLUMES ☒ (57) YES

PERIODIC INSPECTIONS BY:

☒ (58) OWNER ☐ (59) ENGINEER

Piezometers remain dry. Average underdrain flow measurements from 2019-21 (32.5 gpm) are slightly lower than from 2016-2021 (34.8 gpm). Reduction is likely due to ongoing severe regional drought, but continue jetting and video inspection program.

CONDITIONS OBSERVED: ☒ GOOD ☐ ACCEPTABLE ☐ POOR

MAINTENANCE AND REPAIRS

PROBLEMS NOTED:

☐ (60) NONE ☐ (61) ACCESS ROAD NEEDS MAINTENANCE ☐ (62) CATTLE DAMAGE

☐ (63) BRUSH ON: UPSTREAM SLOPE/BEACH, CREST, DOWNSTREAM SLOPE, TOE

☐ (64) RODENT ACTIVITY ON: UPSTREAM SLOPE/BEACH, CREST, DOWNSTREAM SLOPE, TOE

☒ (65) OTHER Disturbed areas adjacent to the South Diversion Ditch Drop Structure that are not protected by riprap were seeded in 2019, but due to drought conditions vegetation establishment is poor to date and rilling is developing at the lower slope; erosion mitigation will likely be required in the coming years. Repair minor leakage from toe drain outfall pipe between manifold and exit.

CONDITIONS OBSERVED: ☐ GOOD ☒ ACCEPTABLE ☐ POOR

OVERALL CONDITIONS

Based on this inspection and recent file review, the overall surficial condition is determined to be:

☒ SATISFACTORY ☐ CONDITIONALLY SATISFACTORY ☐ UNSATISFACTORY

DAM NAME: **San Luis Tailing Dam** DATE OF REPORT: August 23, 2021

TAILING DAM INSPECTION FORM

ITEMS REQUIRING ACTION BY OWNER TO IMPROVE THE SAFETY OF THE DAM

MAINTENANCE ● **MINOR REPAIR** ● **MONITORING**

☐ (1) PROVIDE ADDITIONAL EROSION PROTECTION:

☐ (2) CLEAR BRUSH FROM:

☐ (3) INITIATE RODENT CONTROL PROGRAM AND PROPERLY BACKFILL EXISTING HOLES:

☐ (4) GRADE CREST TO A UNIFORM ELEVATION WITH DRAINAGE TO THE UPSTREAM SLOPE:

☐ (5) PROVIDE SURFACE DRAINAGE FOR:

☒ (6) MONITOR: Per Item 22, continue monitoring rilling and gullying at right downstream groin.

☒ (7) MONITOR: Continue underdrain jetting cleanout and camera inspection of accessible lengths of underdrain pipes.

☒ (8) MONITOR: Per Item 49, continue monitoring erosion along the side slopes of the drop structure. Erosion will likely progress in the absence of vegetation. Mitigation may require erosion repair, erosion control blankets, revegetation, and/or cutting in shallow swales along the slope to reduce runoff flow path lengths.

☒ (9) OTHER: Protect toe drain area from disturbance by cattle. Fix leak in outfall pipe to prevent water ponding in this area.

☒ (10) OTHER: Per 2020 inspection, consider installing a concrete structure for collection of drain discharges to facilitate access for cleanout and monitoring of the drains.

ENGINEERING ● **EMPLOY AN ENGINEER EXPERIENCED IN DESIGN AND CONSTRUCTION OF DAMS TO:**

(Plans and specifications to be improved by CDRMS prior to construction.)

☐ (11) PREPARE PLANS AND SPECIFICATIONS FOR REHABILITATION OF THE DAM:

☐ (12) PREPARE AS-BUILT DRAWINGS OF:

☐ (13) PERFORM A GEOTECHNICAL INVESTIGATION TO EVALUATE THE STABILITY OF THE DAM:

☐ (14) PERFORM A HYDROLOGIC STUDY TO DETERMINE REQUIRED SIZE OF FLOOD BYPASS/SPILLWAY:

☐ (15) PREPARE PLANS AND SPECIFICATIONS FOR AN ADEQUATE SPILLWAY:

☐ (16) SET UP OR IMPROVE MONITORING SYSTEM:

☐ (17) OTHER:

☐ (18) OTHER:

Figure 1 Overall Site Plan and Photo Log
Figure 2 2021 Annual Dam Safety Inspection
Figure 3 Piezometer Levels
Figure 4 Underdrain Flow
Attachment 2 2021 Inspection Photos

☒ Photographs **(Photos 1-21)** ☒ Attachments (Piezometer and underdrain data)

ENGINEER'S INSTRUCTION: Instructed owner on the safety concerns with the structure and how to monitor and inspect the dam and appurtenant works in the interim period between the regulatory annual inspections. ☒ Yes ☐ No

Comment:

Professional Engineer's Signature: Mark S. Ashline Date: 8/23/2021

Reviewed by: Owner/Owner's Representative Date: 8/31/2021

DAM NAME: **San Luis Tailing Dam** DATE OF REPORT: August 23, 2021

GUIDELINES FOR DETERMINING CONDITIONS		
CONDITIONS OBSERVED - APPLIES TO UPSTREAM SLOPE, CREST, DOWNSTREAM SLOPE		
GOOD In general, this part of the structure has a good appearance, and conditions observed in this area do not appear to threaten the safety of the dam.	ACCEPTABLE Although general cross-section is maintained, surfaces may be irregular, eroded, rutted, spalled, or otherwise not in new condition. Conditions in this area do not currently appear to threaten the safety of the dam.	POOR Conditions observed in this area appear to threaten the safety of the dam.
CONDITIONS OBSERVED - APPLIES TO SEEPAGE		
GOOD No evidence of uncontrolled seepage. No unexplained increase in flows from designed drains. All seepage is clear. Seepage conditions did not appear to threaten the safety of the dam.	ACCEPTABLE Some seepage exists at areas other than the drain outfalls, or other designed drams. No unexplained increase in seepage. All seepage is clear. Seepage conditions observed do not currently appear to threaten the safety of the dam.	POOR Seepage conditions observed appear to threaten the safety of the dam. Examples: 1) Designed drain or seepage flows have increased without increases in pool level. 2) Drain or seepage flows contain sediment, i.e., muddy water or particles in Jar samples. 3) Widespread seepage, concentrated seepage, or ponding appears to threaten the safety of the dam.
CONDITIONS OBSERVED - APPLIES TO MONITORING		
GOOD Monitoring includes movement surveys, leakage measurements, and piezometer readings. Instrumentation is in reliable, working condition. A plan for monitoring the instrumentation and analyzing results by the owner's engineer is in effect. Periodic inspections by Owner's engineer.	ACCEPTABLE Monitoring includes movement surveys and leakage measurements. Instrumentation is in serviceable condition. A plan for monitoring instrumentation is in effect by owner. Periodic inspections by Owner or representative.	POOR Instrumentation and monitoring described under "ACCEPTABLE" here are not provided, or required periodic readings are not being made, or unexplained changes in readings are not reacted to by Owner.
CONDITIONS OBSERVED - APPLIES TO MAINTENANCE AND REPAIR		
GOOD Dam appears to receive effective on-going maintenance and repair, and only a few minor items may need to be addressed.	ACCEPTABLE Dam appears to receive maintenance, but some maintenance items need to be addressed. No major repairs are required.	POOR Dam does not appear to receive adequate maintenance. One or more items needing maintenance or repair has begun to threaten the safety of the dam.
OVERALL CONDITIONS		
SATISFACTORY The safety inspection indicates no conditions that appear to threaten the safety of the dam, and the dam is expected to perform satisfactorily under all design loading conditions. Most of the required monitoring is being performed.	CONDITIONALLY SATISFACTORY The safety inspection indicates symptoms of structural distress (seepage, evidence of minor displacements, etc.) which, if conditions worsen, could lead to the failure of the dam. Essential monitoring, inspection, and maintenance must be performed as a requirement for continued full storage in the impoundment area.	UNSATISFACTORY The safety inspection indicates definite signs of structural distress (excessive seepage, cracks, slides, sinkholes, severe deterioration, etc.), which could lead to the failure of the dam if the reservoir is used to full capacity. The dam is judged unsafe for full storage of water.

ATTACHMENT 2

SAN LUIS TAILINGS STORAGE FACILITY

2021 ANNUAL DAM SAFETY INSPECTION

JUNE 8, 2021

INSPECTION PHOTOS

Photo 1 Looking east along the access road and run-on diversion channel from the north (right) end of the dam, showing good conditions.

Photo 2 Looking north over the dam crest road, beach, and impoundment from the south (left) end of the dam, showing good conditions. The pool is seen in the background, and is within normal limits.

Photo 3 Looking northeast over the beach and impoundment from the south (left) end of the dam, showing good conditions.

Photo 4 Looking east over the beach and impoundment from the south (left) end of the dam, showing good conditions. Note the South Diversion Channel along the right side of the photo.

Photo 5 Looking west over the downstream face and the right downstream abutment, showing good conditions overall, and improving revegetation conditions following 2013/2014 erosion repairs. Note the seepage collection pond in the background.

Photo 6 Looking north over the downstream face from the left abutment, showing good conditions.

Photo 7 Looking northeast across the downstream face from just south of the toe drain outlet, showing good conditions. Note the lined runoff collection swale in the foreground.

Photo 8 Looking east across the downstream face from just south of the toe drain outlet, showing good conditions. Note the lined runoff collection swale in the foreground.

Photo 9 Looking southeast across the downstream face, toe, and access road from just south of the toe drain outlet, showing good conditions. Note the lined runoff collection swale running across the center of the photo.

Photo 10 Looking north across the right downstream face and toe from the toe drain outlet, showing generally good conditions. Note the improved vegetation condition of the repaired groin area, and cattle footprints in the soft accumulated sediments surrounding the drain outlet (seen exposed at lower right). The PVC pipe is the pump-back line that returns seepage from the collection pond to the TSF impoundment.

Photo 11 Looking south over the toe drain outlet area, showing generally good conditions. Note shallow standing water around the pipes, but no seepage from the embankment face above the pipes.

Photo 12 Looking northeast over the toe drain discharge pipes and pump-back line. Note 3 pipes draining to a single manifold, then to a single outfall pipe.

Photo 13 Looking east over the toe drain pipe (black) and pump-back line toward the outlet, showing generally good conditions. Note the low seepage flow conditions along the pipe in the lined channel.

Photo 14 Looking west toward the seepage collection pond over the toe drain outfall pipe and pump-back line, showing generally good conditions. Note the low seepage flow conditions along the pipe in the lined channel.

Photo 15 Looking east (upstream) at the South Diversion Channel from the east end of the drop structure, showing good conditions.

Photo 16 Looking west (downstream) at the South Diversion Channel toward the drop structure, showing good conditions.

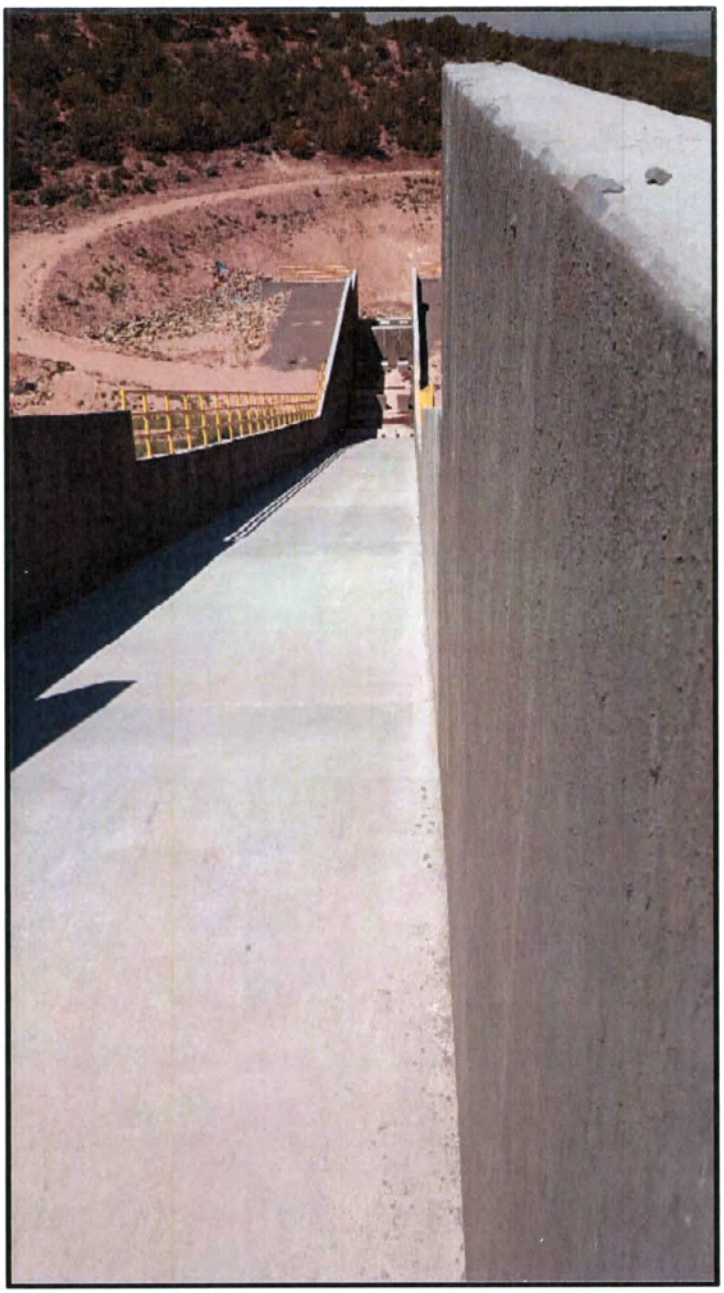


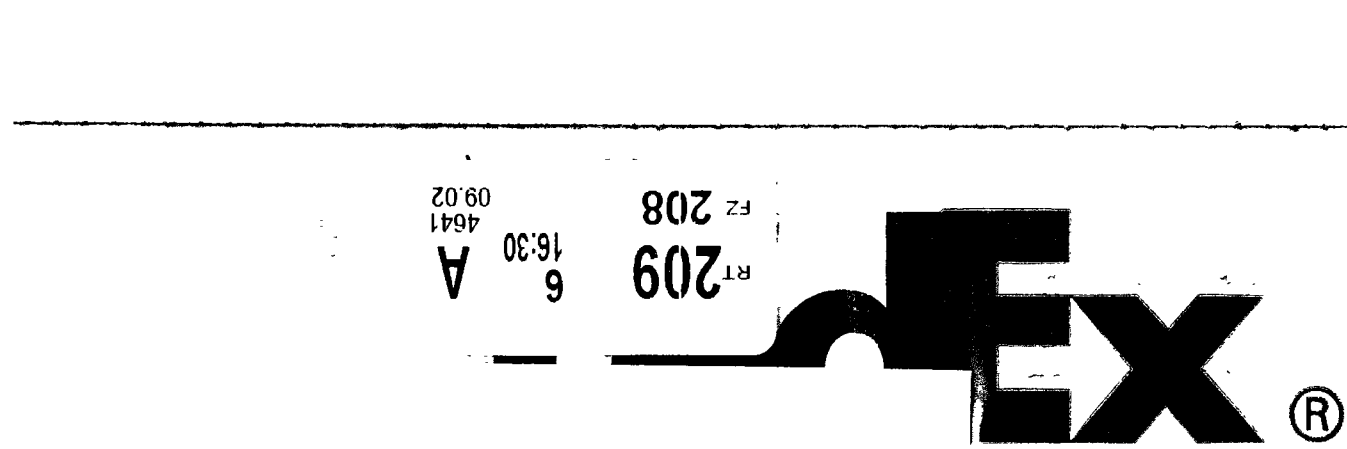
Photo 17 Looking west (downstream) into the drop structure from near the top, showing good conditions.

Photo 18 Looking west at the slope on the north side of the drop structure, showing generally good conditions at present. Erosional rilling is beginning to develop at the lower portions of the slopes due to long drainage runs and the lack of vegetation.

Photo 19 Looking northwest over the runoff collection swale along the left downstream dam toe, showing good conditions.

Photo 20 Looking southeast over the runoff collection swale along the left downstream dam toe, showing good conditions.

Photo 21 Looking northwest over the lower runoff collection swale along the left downstream dam toe, showing good conditions.



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BATTLE MOUNTAIN RESOURCES, INC.

October 04, 2021

Mr. Lucas West

Colorado Division of Reclamation, Mining and Safety

1313 Sherman Street, Room 215

Denver, CO 80203

OCT 11 2021

DIVISION OF RECLAMATION
MINING & SAFETY

Re: San Luis Project Tailing Dam Q3 2021 Inspection Report, Technical Revision No. 33, Permit No. M-1988-112

Dear Mr. West:

Battle Mountain Resources Inc. (BMRI) is pleased to provide the Q3 2021 San Luis Tailing Dam Inspection Report in accordance with Technical Revision No. 33 to BMRI's Reclamation Permit.

The Inspection was conducted by BMRI Site Manager David Carino.

Enclosed with the inspection report are photos of the Tailing Impoundment facilities to include the drop structure and the under-drain discharge area. Also included are the Q3 2021 Piezometer Inspection results.

Respectfully,

Julio F. Madrid

Sr. Supervisor Colorado Legacy Sites

(719) 379-0538

cc: Devon Horntvedt

David Carino

		INSPECTION PERIOD:	July 2021 thru SEPT 2021			page	1/1		
		INSPECTOR:	David S. Cariño						
DAM:	SAN LUIS PROJECT TAILING DAM					CHECK ACTION NEEDED			
AREA INSPECTED	ITEM NO.	CONDITION	YES	NO	OBSERVATIONS	MONITOR	INVESTI-GATE	REPAIR	
CREST	1	ANY SURFACE CRACKING?		✓					
	2	ANY UNUSUAL LOW AREAS?		✓					
	3	ANY RUTS OR PUDDLES?		✓					
	4	ANY HORIZONTAL OFFSET?		✓					
	5	NEED VEGETATION CONTROL?		✓					
UPSTREAM SLOPE & BEACH AREA	6	ANY SLIDES, SLOUGHS, SCARPS?		✓					
	7	ANY SINKHOLES OR UNUSUAL DEPRESSIONS?		✓					
	8	ANY EROSION ?		✓					
	9	CHANGES AT ABUTMENT CONTACTS?		✓					
	10	NEED VEGETATION CONTROL?		✓					
	11								
DOWNSTREAM SLOPE	12	ANY WET AREAS?		✓					
	13	ANY SLIDES, SLOUGHS, SCARPS?		✓					
	14	CHANGES AT DAM-ABUTMENT CONTACT?		✓					
	15	ANY EROSION?	✓		minor erosion on North grain area	✓			
	16	ANY UNUSUAL BULGING OR SLOPE MOVEMENT?		✓					
	17	NEED VEGETATION CONTROL?		✓					
	18								
SEEPAGE COLLECTION AND PUMPBACK SYSTEM	19	IS DRAIN OUTLET CLOGGED OR OBSTRUCTED?		✓					
	20	ARE DRAIN FLOWS MUDDY OR TURBID?		✓					
	21	IS EMBANKMENT WET AROUND DRAIN OUTLET?	✓		minor leakage around piping	✓			
	22	ANY PROBLEMS WITH COLLECTION POND?		✓					
	23	IS PUMPBACK SYSTEM WORKING PROPERLY?	✓						
	24								
DIVERSION CHANNEL AND DROP STRUCTURE	25	ANY EROSION?		✓					
	26	NEED VEGETATION CONTROL?		✓					
	27	ANY DEBRIS IN CHANNELS OR DROP STRUCTURE?		✓					
	28	ANY CRACKS OR DETERIORATION OF CONCRETE?		✓					
	29	ANY CORROSION OF PIPE?		✓					
	30								
ADDITIONAL COMMENTS (REFER TO ITEM NO. IF APPLICABLE):									

QUARTERLY INSPECTION SUMMARY

NAME OF DAM:	San Luis Project Tailing Dam			CO DRMS Permit #:	M-1988-112
REPORTING PERIOD:		thru		REPORT #:	

INSPECTION ITEMS		PHOTOS
Piezometer Levels	Included in report	NO
Drain Collection and Pumpback System Observations	System working properly	Yes
Seepage/Erosion Observations	Minor erosion on North grain area (downstream)	Yes
Vegetation/Rodent/ Other Maintenance Observations	None	NO
Diversion System Observations	Channel in good condition, No issues	Yes

RECOMMENDATIONS/COMMENTS

INSPECTION AND REPORTING PERSONNEL

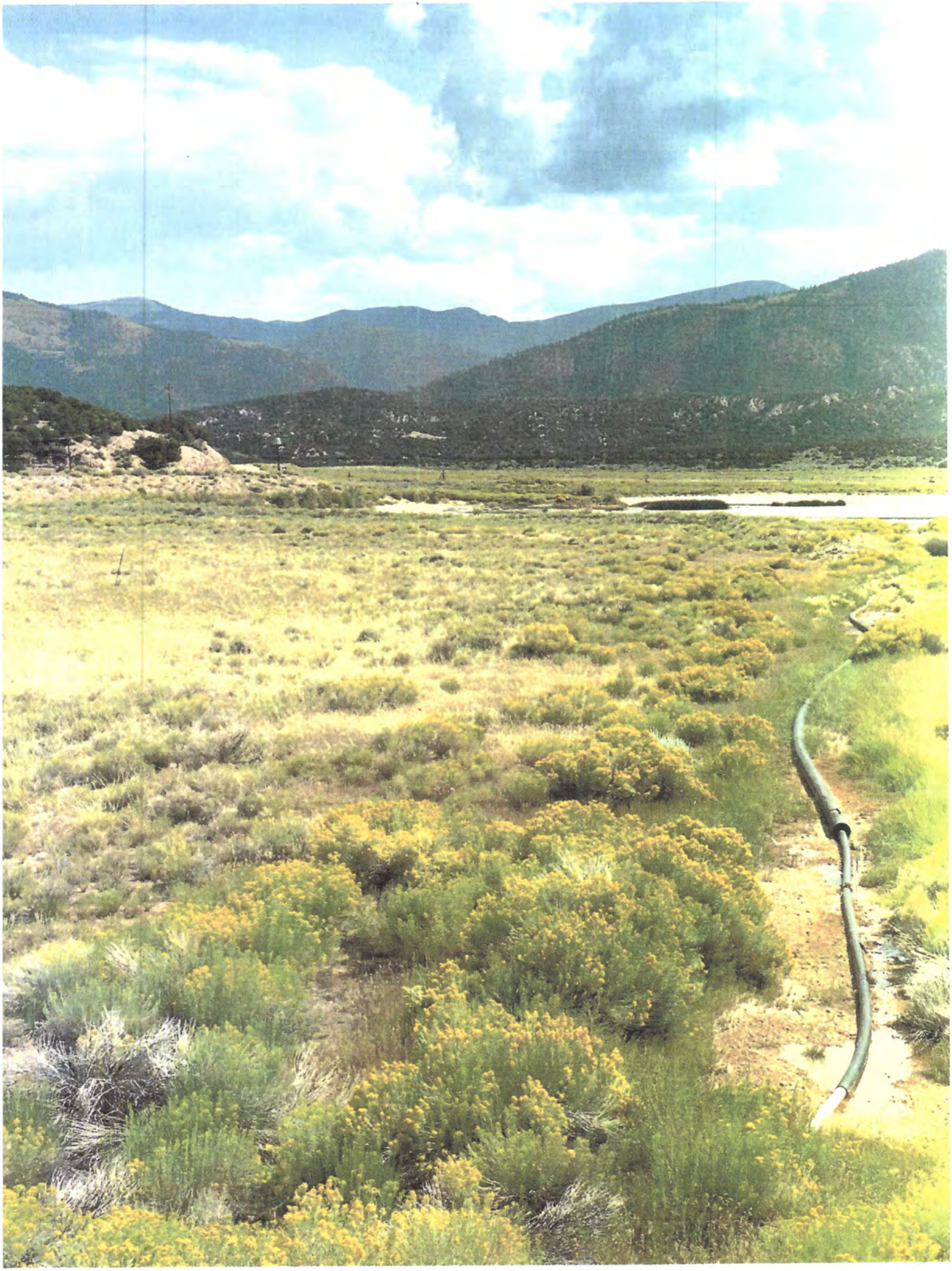
NAME	REPRESENTING	TITLE/ROLE
David S. Cariño	BMRI / Newmont	Site Manager
Julio Madrid	BMRI / Newmont	Site Supervisor

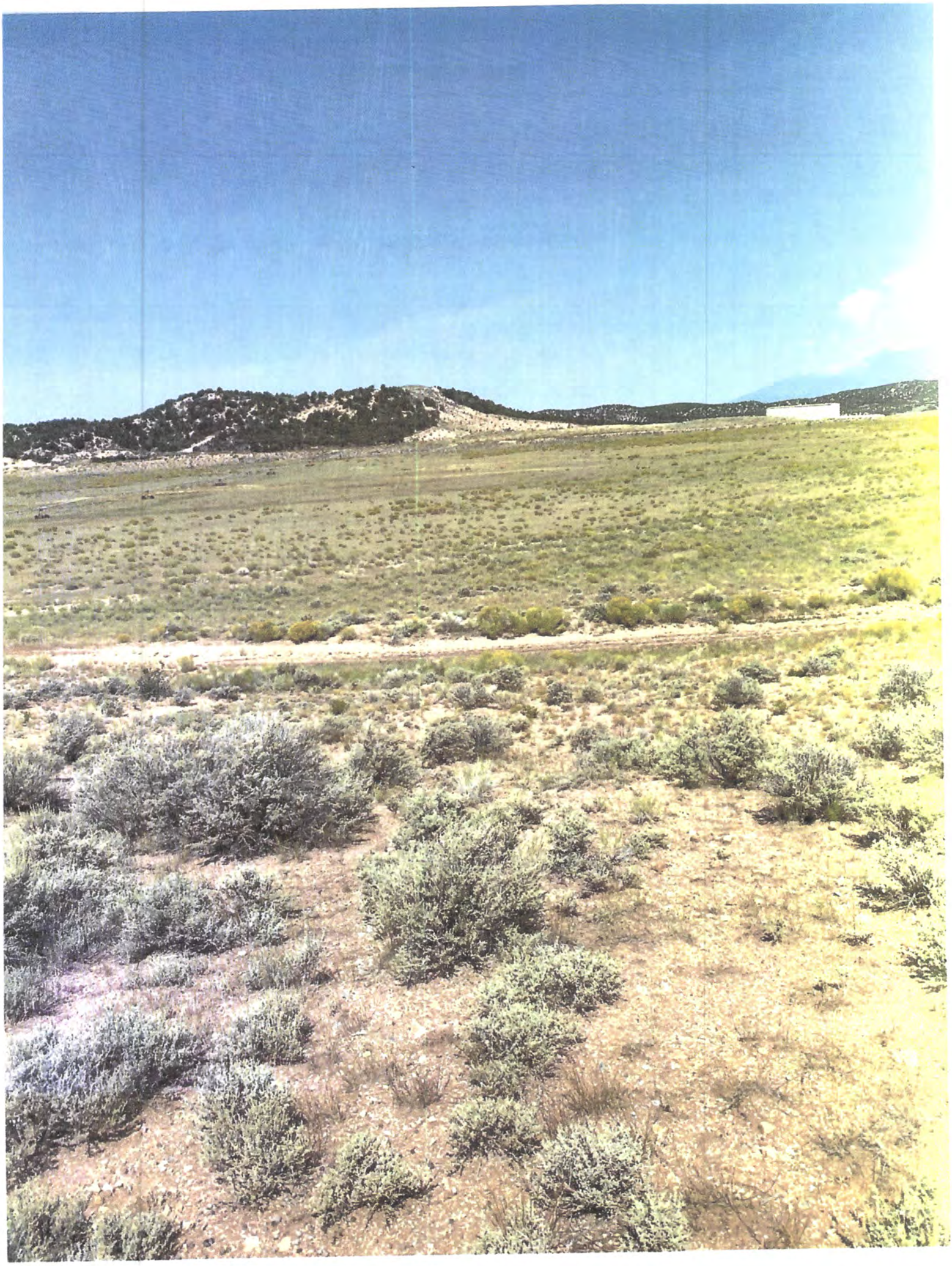
Q3 2021 Piezometer Levels

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	07/29/2021	72.46	DRY	N/A
P7	07/29/2021	92.50	92.27	0.23
P8	07/29/2021	97.51	96.58	0.93
P9	07/29/2021	72.30	71.91	0.39
P10	07/29/2021	58.30	57.61	0.69
P11	07/29/2021	41.80	41.40	0.40
P12	07/29/2021	41.71	41.67	0.04
P13	07/29/2021	41.34	41.03	0.31
P14	07/29/2021	41.24	DRY	N/A
P15	07/29/2021	41.10	40.87	0.23

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	08/31/2021	72.46	DRY	N/A
P7	08/31/2021	92.50	92.28	0.22
P8	08/31/2021	97.51	96.57	0.94
P9	08/31/2021	72.30	71.91	0.39
P10	08/31/2021	58.30	57.60	0.70
P11	08/31/2021	41.80	41.40	0.40
P12	08/31/2021	41.71	41.67	0.04
P13	08/31/2021	41.34	41.02	0.32
P14	08/31/2021	41.24	DRY	N/A
P15	08/31/2021	41.10	40.87	0.23

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	09/30/2021	72.46	DRY	N/A
P7	09/30/2021	92.50	92.27	0.22
P8	09/30/2021	97.51	96.57	0.94
P9	09/30/2021	72.30	71.91	0.39
P10	09/30/2021	58.30	57.61	0.69
P11	09/30/2021	41.80	41.41	0.39
P12	09/30/2021	41.71	41.67	0.04
P13	09/30/2021	41.34	41.02	0.32
P14	09/30/2021	41.24	DRY	N/A
P15	09/30/2021	41.10	40.87	0.23





BATTLE MOUNTAIN RESOURCES, INC.

Mr. Lucas J. West
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BATTLE MOUNTAIN RESOURCES, INC.

January 15, 2022

Mr. Lucas West

Colorado Division of Reclamation, Mining and Safety

1313 Sherman Street, Room 215

Denver, CO 80203

Re: San Luis Project Tailing Dam Q4 2021 Inspection Report, Technical Revision No. 33, Permit No. M-1988-112

Dear Mr. West:

Battle Mountain Resources Inc. (BMRI) is pleased to provide the Q4 2021 San Luis Tailing Dam Inspection Report in accordance with Technical Revision No. 33 to BMRI's Reclamation Permit.

The Inspection was conducted by BMRI Site Manager Mr. David Carino and Mr. Aaron Taylor.

Enclosed with the inspection report are photos of the Tailing Impoundment facilities to include the drop structure and the under-drain discharge area. Also included are the Q4 2021 Piezometer Inspection results.

Respectfully,

Julio F. Madrid

Sr. Supervisor Colorado Legacy Sites

(719) 379-0538

cc: Devon Horntvedt

David Carino

INSPECTION PERIOD: October 2021 thru December 2021 page 1/1

INSPECTOR: David S Carino, Aaron Taylor

DAM: SAN LUIS PROJECT TAILING DAM

AREA INSPECTED	ITEM NO.	CONDITION	YES	NO	OBSERVATIONS	CHECK ACTION NEEDED: MONITOR	INVESTI-GATE	REPAIR
CREST	1	ANY SURFACE CRACKING?		✓				
	2	ANY UNUSUAL LOW AREAS?		✓				
	3	ANY RUTS OR PUDDLES?		✓				
	4	ANY HORIZONTAL OFFSET?		✓				
	5	NEED VEGETATION CONTROL?		✓				
UPSTREAM SLOPE & BEACH AREA	6	ANY SLIDES, SLOUGHS, SCARPS?		✓				
	7	ANY SINKHOLES OR UNUSUAL DEPRESSIONS?		✓				
	8	ANY EROSION ?		✓				
	9	CHANGES AT ABUTMENT CONTACTS?		✓				
	10	NEED VEGETATION CONTROL?		✓				
	11			✓				
DOWNSTREAM SLOPE	12	ANY WET AREAS?		✓				
	13	ANY SLIDES, SLOUGHS, SCARPS?		✓				
	14	CHANGES AT DAM-ABUTMENT CONTACT?		✓				
	15	ANY EROSION?	✓		minor erosion Northside groin area	✓		
	16	ANY UNUSUAL BULGING OR SLOPE MOVEMENT?		✓				
	17	NEED VEGETATION CONTROL?		✓				
	18							
SEEPAGE COLLECTION AND PUMPBACK SYSTEM	19	IS DRAIN OUTLET CLOGGED OR OBSTRUCTED?		✓				
	20	ARE DRAIN FLOWS MUDDY OR TURBID?		✓				
	21	IS EMBANKMENT WET AROUND DRAIN OUTLET?	✓		minor leakage around piping	✓		
	22	ANY PROBLEMS WITH COLLECTION POND?		✓				
	23	IS PUMPBACK SYSTEM WORKING PROPERLY?	✓					
	24							
DIVERSION CHANNEL AND DROP STRUCTURE	25	ANY EROSION?		✓				
	26	NEED VEGETATION CONTROL?		✓				
	27	ANY DEBRIS IN CHANNELS OR DROP STRUCTURE?		✓				
	28	ANY CRACKS OR DETERIORATION OF CONCRETE?		✓				
	29	ANY CORROSION OF PIPE?		✓				
	30							

ADDITIONAL COMMENTS (REFER TO ITEM NO. IF APPLICABLE):

QUARTERLY INSPECTION SUMMARY

NAME OF DAM:	San Luis Project Tailing Dam			CO DRMS Permit #:	M-1988-112
REPORTING PERIOD:	10/21	thru	12/21	REPORT #:	

INSPECTION ITEMS		PHOTOS
Piezometer Levels	Included in Report	No
Drain Collection and Pumpback System Observations	system working properly	Yes
Seepage/Erosion Observations	minor erosion on North grain area (down stream)	Yes
Vegetation/Rodent/ Other Maintenance Observations	None	No
Diversion System Observations	Channel in good condition, No issues	Yes

RECOMMENDATIONS/COMMENTS

INSPECTION AND REPORTING PERSONNEL

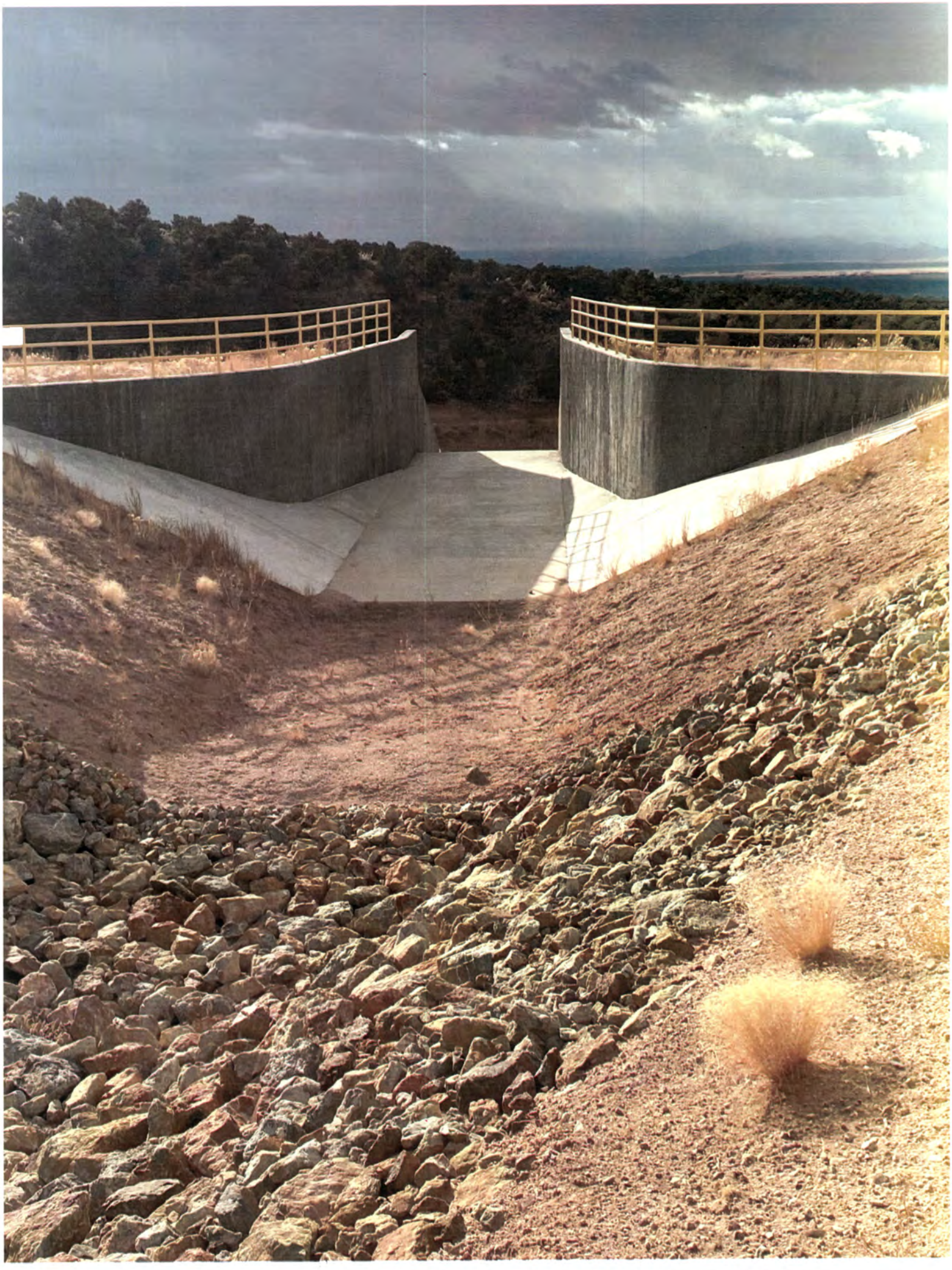
NAME	REPRESENTING	TITLE/ROLE
David S Cariño	BMRI/ Newmont	Site manager
Julio Madrid	BMRI/ Newmont	Site supervisor

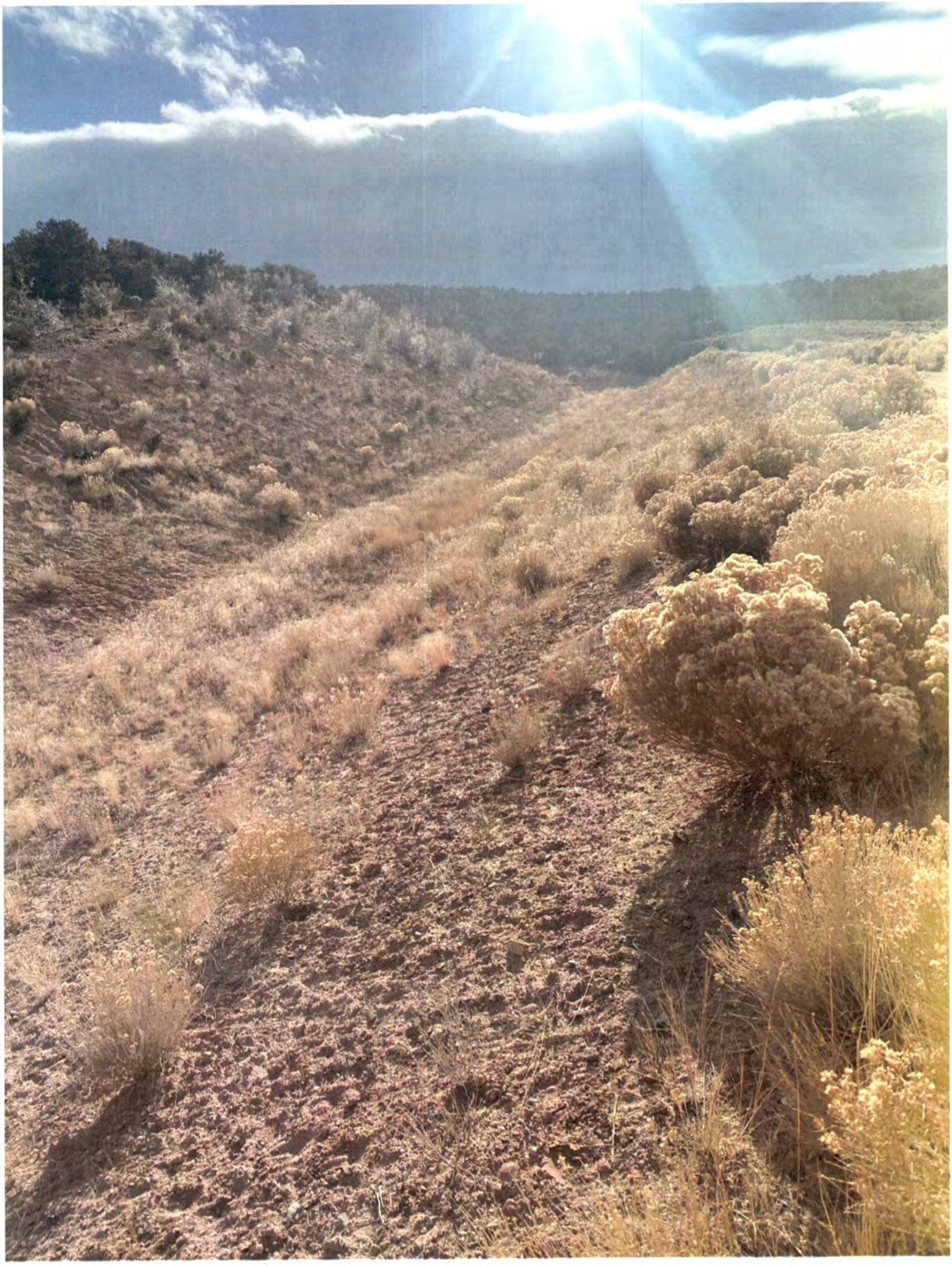
Piezometer Levels Q4 2021

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	10/27/2021	72.46	DRY	N/A
P7	10/27/2021	92.50	92.27	0.23
P8	10/27/2021	97.51	96.56	0.95
P9	10/27/2021	72.30	71.91	0.39
P10	10/27/2021	58.30	57.61	0.69
P11	10/27/2021	41.80	41.40	0.40
P12	10/27/2021	41.71	41.67	0.04
P13	10/27/2021	41.34	41.02	0.32
P14	10/27/2021	41.24	DRY	N/A
P15	10/27/2021	41.10	40.87	0.23

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	11/30/2021	72.46	DRY	N/A
P7	11/30/2021	92.50	92.27	0.23
P8	11/30/2021	97.51	96.57	0.94
P9	11/30/2021	72.30	71.91	0.39
P10	11/30/2021	58.30	57.61	0.69
P11	11/30/2021	41.80	41,40	0.40
P12	11/30/2021	41.71	41.67	0.04
P13	11/30/2021	41.34	41.02	0.32
P14	11/30/2021	41.24	DRY	N/A
P15	11/30/2021	41.10	40.87	0.23

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	12/30/2021	72.46	DRY	N/A
P7	12/30/2021	92.50	92.29	0.21
P8	12/30/2021	97.51	96.58	0.93
P9	12/30/2021	72.30	71.92	0.38
P10	12/30/2021	58.30	57.58	0.72
P11	12/30/2021	41.80	41.40	0.40
P12	12/30/2021	41.71	41.66	0.05
P13	12/30/2021	41.34	41.02	0.32
P14	12/30/2021	41.24	DRY	N/A
P15	12/30/2021	41.10	40.87	0.23





APPENDIX B

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

RECEIVED
FEB 17 2021
DIVISION OF RECLAMATION
MINING AND SAFETY

February 8, 2021

Mr. Lucas J. West
State of Colorado
Colorado Department of Reclamation, Mining, & Safety
1313 Sherman Street, Room 215
Denver, CO 80203

Re: Battle Mountain Resources, Inc.
San Luis Project - M-88-112
January 2021 Monthly Report

Dear Mr. West:

The following summarizes monitoring and site activities at the Battle Mountain Resources Inc. (BMRI) "San Luis Project" (M-88-112) for the month of January 2021. Surface and groundwater monitoring and analysis were completed for all the required sites during the month as specified in the TR-32 Quality Assurance and Quality Control (QA/QC) Plan.

Tailing Facility / Leak Detection System

The six lysimeters which are a part of the Lined Tailing Facility (LTF) leak detection system were inspected and verified for proper vacuum and operation. As shown in Table 1, there was no pore space water found to be present in any of the six lysimeter collection pans, therefore, no sampling or laboratory analysis was required.

Table 1 – Monthly Lysimeter Monitoring

Lysimeter Identification	Observation Date	Depth to Water (feet)
LS1R2	01/28/2021	DRY
LS2R2	01/28/2021	DRY
LS3R	01/28/2021	DRY
LD1R2	01/28/2021	DRY
LD2R2	01/28/2021	DRY
LD3R	01/28/2021	DRY

The ten piezometers located on the tailing impoundment main embankment were inspected and measured for depth to water. The depths to water found for each piezometer are shown in Table 2. All piezometers were either dry or contained less than twelve inches of water.

Table 2 – Monthly Piezometer Elevations

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	01/28/2021	72.46	DRY	N/A
P7	01/28/2021	92.50	92.30	0.20
P8	01/28/2021	97.51	96.65	0.86
P9	01/28/2021	72.30	71.90	0.40
P10	01/28/2021	58.30	57.62	0.68
P11	01/28/2021	41.80	41.41	0.39
P12	01/28/2021	41.71	41.66	0.05
P13	01/28/2021	41.34	40.99	0.35
P14	01/28/2021	41.24	DRY	N/A
P15	01/28/2021	41.10	40.86	0.24

The leak detection system at the LTF Collection Pond was inspected January 28, 2021 and 880 gallons were evacuated from the leak detection system and pumped to the LTF. The LTF underdrain system was visually inspected January 28, 2021 and the flow rate was measured to be approximately 29.5 gallons per minute (gpm).

West Pit Waste Water Treatment Plant

During the month of January 2021, the West Pit Waste Water Treatment Plant (WWTP) was operated intermittently (3 to 4 days per week) under Colorado Department of Public Health and Environment (CDPHE) CDPS Permit No. CO0045675 for discharge into the Rito Seco alluvial aquifer. During the month, 6,028,700 gallons (18.5 acre-feet) of treated water was discharged to the Rito Seco and 349,600 gallons (1.07 acre-feet) of water was transferred from the West Pit to the Lined Tailing Facility (LTF). Additionally, no water was reinfiltrated into the West Pit and there was no sludge transferred from the WWTP drying pad to the LTF.

BMRI performed the monthly visual seepage expression inspections on January 28, 2021 in the historic seepage area identified in Figure 2 of the permit. No seepage expressions were observed in the historic seepage area.

BMRI measured the monthly West Pit backfill, alluvial and monitoring wells as required under in the QA/QC Plan. Measurements obtained for the monthly wells are shown in Table 3.

Table 3 – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
BF-4	01/28/2021	24.97
BF-5R	01/28/2021	30.83
BF-6	01/28/2021	30.98
M-6	01/28/2021	DRY
M-7	01/28/2021	DRY
M-8	01/28/2021	DRY
M-9	01/28/2021	141.63
M-10	01/28/2021	24.25
M-11R	01/28/2021	38.14
M-12	01/28/2021	174.90
M-13R	01/28/2021	126.10
M-14	01/28/2021	131.17
M-16	01/28/2021	24.19
M-17	01/28/2021	30.33

Table 3 Continued – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
M-18	01/28/2021	27.02
M-19	01/28/2021	24.72
M-21	01/28/2021	18.59
M-22	01/28/2021	16.90
M-23	01/28/2021	42.31
M-24	01/28/2021	24.80
M-26	01/28/2021	14.13
M-31	01/28/2021	37.51
M-32	01/28/2021	42.30
M-33	01/28/2021	48.48
M-34	01/28/2021	22.02

Should you have any questions or comments, please do not hesitate to call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Alan Fosdick, Engineering Analytics, Inc.

Engineering Analytics, Inc.
1600 Specht Point Rd. • Ste. 209 • Fort Collins, CO • 80525

TO:

Mr. Lucas J. West
CDRMS
1313 Sherman, Room 215
Denver, CO 80203

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

March 8, 2021

Mr. Lucas J. West
State of Colorado
Colorado Department of Reclamation, Mining, & Safety
1313 Sherman Street, Room 215
Denver, CO 80203

Re: Battle Mountain Resources, Inc.
San Luis Project - M-88-112
February 2021 Monthly Report

Dear Mr. West:

The following summarizes monitoring and site activities at the Battle Mountain Resources Inc. (BMRI) "San Luis Project" (M-88-112) for the month of February 2021. Surface and groundwater monitoring and analysis were completed for all the required sites during the month as specified in the TR-32 Quality Assurance and Quality Control (QA/QC) Plan.

Tailing Facility / Leak Detection System

The six lysimeters which are a part of the Lined Tailing Facility (LTF) leak detection system were inspected and verified for proper vacuum and operation. As shown in Table 1, there was no pore space water found to be present in any of the six lysimeter collection pans, therefore, no sampling or laboratory analysis was required.

Table 1 – Monthly Lysimeter Monitoring

Lysimeter Identification	Observation Date	Depth to Water (feet)
LS1R2	02/25/2021	DRY
LS2R2	02/25/2021	DRY
LS3R	02/25/2021	DRY
LD1R2	02/25/2021	DRY
LD2R2	02/25/2021	DRY
LD3R	02/25/2021	DRY

The ten piezometers located on the tailing impoundment main embankment were inspected and measured for depth to water. The depths to water found for each piezometer are shown in Table 2. All piezometers were either dry or contained less than twelve inches of water.

Table 2 – Monthly Piezometer Elevations

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	02/25/2021	72.46	DRY	N/A
P7	02/25/2021	92.50	92.29	0.21
P8	02/25/2021	97.51	96.62	0.89
P9	02/25/2021	72.30	71.90	0.40
P10	02/25/2021	58.30	57.63	0.67
P11	02/25/2021	41.80	41.40	0.40
P12	02/25/2021	41.71	41.67	0.04
P13	02/25/2021	41.34	41.00	0.34
P14	02/25/2021	41.24	DRY	N/A
P15	02/25/2021	41.10	40.86	0.24

The leak detection system at the LTF Collection Pond was inspected February 25, 2021 and 940 gallons were evacuated from the leak detection system and pumped to the LTF. The LTF underdrain system was visually inspected February 25, 2021 and the flow rate was measured to be approximately 29.5 gallons per minute (gpm).

West Pit Waste Water Treatment Plant

During the month of February 2021, the West Pit Waste Water Treatment Plant (WWTP) was operated intermittently (3 to 4 days per week) under Colorado Department of Public Health and Environment (CDPHE) CDPS Permit No. CO0045675 for discharge into the Rito Seco alluvial aquifer. During the month, 5,916,300 gallons (18.2 acre-feet) of treated water was discharged to the Rito Seco and 554,000 gallons (1.70 acre-feet) of water was transferred from the West Pit to the Lined Tailing Facility (LTF). Additionally, no water was reinfiltrated into the West Pit and there was no sludge transferred from the WWTP drying pad to the LTF.

BMRI performed the monthly visual seepage expression inspections on February 25, 2021 in the historic seepage area identified in Figure 2 of the permit. No seepage expressions were observed in the historic seepage area.

BMRI measured the monthly West Pit backfill, alluvial and monitoring wells as required under in the QA/QC Plan. Measurements obtained for the monthly wells are shown in Table 3.

Table 3 – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
BF-4	02/25/2021	28.95
BF-5R	02/25/2021	30.82
BF-6	02/25/2021	30.97
M-6	02/25/2021	DRY
M-7	02/25/2021	DRY
M-8	02/25/2021	DRY
M-9	02/25/2021	141.50
M-10	02/25/2021	24.32
M-11R	02/25/2021	38.21
M-12	02/25/2021	174.63
M-13R	02/25/2021	125.95
M-14	02/25/2021	130.88
M-16	02/25/2021	24.14
M-17	02/25/2021	30.39

Table 3 Continued – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
M-18	02/25/2021	26.98
M-19	02/25/2021	24.66
M-21	02/25/2021	18.46
M-22	02/25/2021	16.93
M-23	02/25/2021	42.43
M-24	02/25/2021	24.91
M-26	02/25/2021	14.25
M-31	02/25/2021	37.59
M-32	02/25/2021	42.90
M-33	02/25/2021	48.23
M-34	02/25/2021	21.91

Should you have any questions or comments, please do not hesitate to call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Alan Fosdick, Engineering Analytics, Inc.

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MAR 16 2021

DIVISION OF RECLAMATION
MINING AND SAFETY

Engineering Analytics, Inc.

1600 Specht Point Rd. ▪ Ste. 209 ▪ Fort Collins, CO ▪ 80525

TO:

Mr. Lucas J. West
CDRMS
1313 Sherman, Room 215
Denver, CO 80203

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

April 8, 2021

Mr. Lucas J. West
State of Colorado
Colorado Department of Reclamation, Mining, & Safety
1313 Sherman Street, Room 215
Denver, CO 80203

Re: Battle Mountain Resources, Inc.
San Luis Project - M-88-112
March 2021 Monthly Report

Dear Mr. West:

The following summarizes monitoring and site activities at the Battle Mountain Resources Inc. (BMRI) "San Luis Project" (M-88-112) for the month of March 2021. Surface and groundwater monitoring and analysis were completed for all the required sites during the month as specified in the TR-32 Quality Assurance and Quality Control (QA/QC) Plan.

Tailing Facility / Leak Detection System

The six lysimeters which are a part of the Lined Tailing Facility (LTF) leak detection system were inspected and verified for proper vacuum and operation. As shown in Table 1, there was no pore space water found to be present in any of the six lysimeter collection pans, therefore, no sampling or laboratory analysis was required.

Table 1 – Monthly Lysimeter Monitoring

Lysimeter Identification	Observation Date	Depth to Water (feet)
LS1R2	03/31/2021	DRY
LS2R2	03/31/2021	DRY
LS3R	03/31/2021	DRY
LD1R2	03/31/2021	DRY
LD2R2	03/31/2021	DRY
LD3R	03/31/2021	DRY

The ten piezometers located on the tailing impoundment main embankment were inspected and measured for depth to water. The depths to water found for each piezometer are shown in Table 2. All piezometers were either dry or contained less than twelve inches of water.

Table 2 – Monthly Piezometer Elevations

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	03/31/2021	72.46	DRY	N/A
P7	03/31/2021	92.50	92.28	0.22
P8	03/31/2021	97.51	96.61	0.90
P9	03/31/2021	72.30	71.91	0.39
P10	03/31/2021	58.30	57.61	0.69
P11	03/31/2021	41.80	41.40	0.40
P12	03/31/2021	41.71	41.67	0.04
P13	03/31/2021	41.34	41.02	0.32
P14	03/31/2021	41.24	DRY	N/A
P15	03/31/2021	41.10	40.86	0.24

The leak detection system at the LTF Collection Pond was inspected March 31, 2021 and 940 gallons were evacuated from the leak detection system and pumped to the LTF. The LTF underdrain system was visually inspected March 31, 2021 and the flow rate was measured to be approximately 30.5 gallons per minute (gpm).

West Pit Waste Water Treatment Plant

During the month of March 2021, the West Pit Waste Water Treatment Plant (WWTP) was operated intermittently (3 to 4 days per week) under Colorado Department of Public Health and Environment (CDPHE) CDPS Permit No. CO0045675 for discharge into the Rito Seco alluvial aquifer. During the month, 7,313,100 gallons (22.4 acre-feet) of treated water was discharged to the Rito Seco and 116,800 gallons (0.36 acre-feet) of water was transferred from the West Pit to the Lined Tailing Facility (LTF). Additionally, no water was reinfiltrated into the West Pit and there was no sludge transferred from the WWTP drying pad to the LTF.

BMRI performed the monthly visual seepage expression inspections on March 31, 2021 in the historic seepage area identified in Figure 2 of the permit. No seepage expressions were observed in the historic seepage area.

BMRI measured the monthly West Pit backfill, alluvial and monitoring wells as required under in the QA/QC Plan. Measurements obtained for the monthly wells are shown in Table 3.

Table 3 – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
BF-4	03/31/2021	24.85
BF-5R	03/31/2021	30.78
BF-6	03/31/2021	30.88
M-6	03/31/2021	DRY
M-7	03/31/2021	DRY
M-8	03/31/2021	DRY
M-9	03/31/2021	141.31
M-10	03/31/2021	24.18
M-11R	03/31/2021	38.06
M-12	03/31/2021	174.31
M-13R	03/31/2021	125.38
M-14	03/31/2021	130.65
M-16	03/31/2021	23.85
M-17	03/31/2021	29.91

Table 3 Continued – Monthly and Quarterly Groundwater Depth to Water

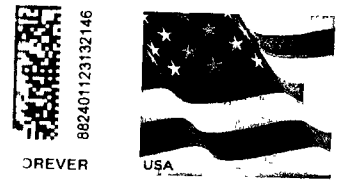
Monitoring Well Identification	Observation Date	Depth to Water (ft)
M-18	03/31/2021	26.64
M-19	03/31/2021	23.72
M-21	03/31/2021	17.93
M-22	03/31/2021	16.70
M-23	03/31/2021	42.41
M-24	03/31/2021	24.89
M-26	03/31/2021	14.03
M-31	03/31/2021	37.43
M-32	03/31/2021	41.82
M-33	03/31/2021	46.95
M-34	03/31/2021	21.79

Should you have any questions or comments, please do not hesitate to call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Alan Fosdick, Engineering Analytics, Inc.



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APR 13 2021

DIVISION OF RECLAMATION
MINING AND SAFETY

Engineering Analytics, Inc.

1600 Specht Point Rd. Ste. 209 Fort Collins, CO 80525

TO:

Mr. Lucas J. West
CDRMS
1313 Sherman, Room 215
Denver, CO 80203

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

May 8, 2021

Mr. Lucas J. West
State of Colorado
Colorado Department of Reclamation, Mining, & Safety
1313 Sherman Street, Room 215
Denver, CO 80203

Re: Battle Mountain Resources, Inc.
San Luis Project - M-88-112
April 2021 Monthly Report

Dear Mr. West:

The following summarizes monitoring and site activities at the Battle Mountain Resources Inc. (BMRI) "San Luis Project" (M-88-112) for the month of April 2021. Surface and groundwater monitoring and analysis were completed for all the required sites during the month as specified in the TR-32 Quality Assurance and Quality Control (QA/QC) Plan.

Tailing Facility / Leak Detection System

The six lysimeters which are a part of the Lined Tailing Facility (LTF) leak detection system were inspected and verified for proper vacuum and operation. As shown in Table 1, there was no pore space water found to be present in any of the six lysimeter collection pans, therefore, no sampling or laboratory analysis was required.

Table 1 – Monthly Lysimeter Monitoring

Lysimeter Identification	Observation Date	Depth to Water (feet)
LS1R2	04/29/2021	DRY
LS2R2	04/29/2021	DRY
LS3R	04/29/2021	DRY
LD1R2	04/29/2021	DRY
LD2R2	04/29/2021	DRY
LD3R	04/29/2021	DRY

The ten piezometers located on the tailing impoundment main embankment were inspected and measured for depth to water. The depths to water found for each piezometer are shown in Table 2. All piezometers were either dry or contained less than twelve inches of water.

Table 2 – Monthly Piezometer Elevations

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	04/29/2021	72.46	DRY	N/A
P7	04/29/2021	92.50	92.28	0.22
P8	04/29/2021	97.51	96.63	0.88
P9	04/29/2021	72.30	71.91	0.39
P10	04/29/2021	58.30	57.62	0.68
P11	04/29/2021	41.80	41.40	0.40
P12	04/29/2021	41.71	41.66	0.05
P13	04/29/2021	41.34	41.02	0.32
P14	04/29/2021	41.24	DRY	N/A
P15	04/29/2021	41.10	40.85	0.25

The leak detection system at the LTF Collection Pond was inspected April 29, 2021 and 850 gallons were evacuated from the leak detection system and pumped to the LTF. The LTF underdrain system was visually inspected April 29, 2021 and the flow rate was measured to be approximately 31.0 gallons per minute (gpm).

West Pit Waste Water Treatment Plant

During the month of April 2021, the West Pit Waste Water Treatment Plant (WWTP) was operated intermittently (3 to 4 days per week) under Colorado Department of Public Health and Environment (CDPHE) CDPS Permit No. CO0045675 for discharge into the Rito Seco alluvial aquifer. During the month, 6,746,300 gallons (20.7 acre-feet) of treated water was discharged to the Rito Seco and 371,900 gallons (1.14 acre-feet) of water was transferred from the West Pit to the Lined Tailing Facility (LTF). Additionally, no water was reinfiltrated into the West Pit and there was no sludge transferred from the WWTP drying pad to the LTF.

BMRI performed the monthly visual seepage expression inspections on April, 29, 2021 in the historic seepage area identified in Figure 2 of the permit. No seepage expressions were observed in the historic seepage area.

BMRI measured the monthly West Pit backfill, alluvial and monitoring wells as required under in the QA/QC Plan. Measurements obtained for the monthly wells are shown in Table 3.

Table 3 – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
BF-4	04/29/2021	24.94
BF-5R	04/29/2021	30.84
BF-6	04/29/2021	30.98
M-6	04/29/2021	DRY
M-7	04/29/2021	DRY
M-8	04/29/2021	DRY
M-9	04/29/2021	141.33
M-10	04/29/2021	24.00
M-11R	04/29/2021	37.86
M-12	04/29/2021	174.44
M-13R	04/29/2021	125.32
M-14	04/29/2021	130.75
M-16	04/29/2021	23.43
M-17	04/29/2021	28.65

Table 3 Continued – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
M-18	04/29/2021	26.50
M-19	04/29/2021	23.49
M-21	04/29/2021	17.65
M-22	04/29/2021	16.32
M-23	04/29/2021	42.17
M-24	04/29/2021	24.65
M-26	04/29/2021	13.79
M-31	04/29/2021	37.24
M-32	04/29/2021	43.11
M-33	04/29/2021	46.23
M-34	04/29/2021	21.46

Should you have any questions or comments, please do not hesitate to call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Alan Fosdick, Engineering Analytics, Inc.

CPU

U.S. POSTAGE
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DIVISION OF RECLAMATION
MINING AND SAFETY

Engineering Analytics, Inc.
1600 Specht Point Rd. • Ste. 209 • Fort Collins, CO • 80525

TO:

Mr. Lucas J. West
CDRMS
1313 Sherman, Room 215
Denver, CO 80203

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

June 7, 2021

Mr. Lucas J. West
State of Colorado
Colorado Department of Reclamation, Mining, & Safety
1313 Sherman Street, Room 215
Denver, CO 80203

Re: Battle Mountain Resources, Inc.
San Luis Project - M-88-112
May 2021 Monthly Report

Dear Mr. West:

The following summarizes monitoring and site activities at the Battle Mountain Resources Inc. (BMRI) "San Luis Project" (M-88-112) for the month of May 2021. Surface and groundwater monitoring and analysis were completed for all the required sites during the month as specified in the TR-32 Quality Assurance and Quality Control (QA/QC) Plan.

Tailing Facility / Leak Detection System

The six lysimeters which are a part of the Lined Tailing Facility (LTF) leak detection system were inspected and verified for proper vacuum and operation. As shown in Table 1, there was no pore space water found to be present in any of the six lysimeter collection pans, therefore, no sampling or laboratory analysis was required.

Table 1 – Monthly Lysimeter Monitoring

Lysimeter Identification	Observation Date	Depth to Water (feet)
LS1R2	05/27/2021	DRY
LS2R2	05/27/2021	DRY
LS3R	05/27/2021	DRY
LD1R2	05/27/2021	DRY
LD2R2	05/27/2021	DRY
LD3R	05/27/2021	DRY

The ten piezometers located on the tailing impoundment main embankment were inspected and measured for depth to water. The depths to water found for each piezometer are shown in Table 2. All piezometers were either dry or contained less than twelve inches of water.

Table 2 – Monthly Piezometer Elevations

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	05/27/2021	72.46	DRY	N/A
P7	05/27/2021	92.50	92.28	0.22
P8	05/27/2021	97.51	96.60	0.91
P9	05/27/2021	72.30	71.91	0.39
P10	05/27/2021	58.30	57.61	0.69
P11	05/27/2021	41.80	41.40	0.40
P12	05/27/2021	41.71	41.66	0.05
P13	05/27/2021	41.34	41.02	0.32
P14	05/27/2021	41.24	DRY	N/A
P15	05/27/2021	41.10	40.86	0.24

The leak detection system at the LTF Collection Pond was inspected May 27, 2021 and 860 gallons were evacuated from the leak detection system and pumped to the LTF. The LTF underdrain system was visually inspected May 27, 2021 and the flow rate was measured to be approximately 31.0 gallons per minute (gpm).

West Pit Waste Water Treatment Plant

During the month of May 2021, the West Pit Waste Water Treatment Plant (WWTP) was operated intermittently (3 to 4 days per week) under Colorado Department of Public Health and Environment (CDPHE) CDPS Permit No. CO0045675 for discharge into the Rito Seco alluvial aquifer. During the month, 7,352,100 gallons (22.6 acre-feet) of treated water was discharged to the Rito Seco and 449,500 gallons (1.38 acre-feet) of water was transferred from the West Pit to the Lined Tailing Facility (LTF). Additionally, no water was reinfiltrated into the West Pit and there was no sludge transferred from the WWTP drying pad to the LTF.

BMRI performed the monthly visual seepage expression inspections on May 27, 2021 in the historic seepage area identified in Figure 2 of the permit. No seepage expressions were observed in the historic seepage area.

BMRI measured the monthly West Pit backfill, alluvial and monitoring wells as required under in the QA/QC Plan. Measurements obtained for the monthly wells are shown in Table 3.

Table 3 – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
BF-4	05/27/2021	25.01
BF-5R	05/27/2021	30.90
BF-6	05/27/2021	31.04
M-6	05/27/2021	DRY
M-7	05/27/2021	DRY
M-8	05/27/2021	DRY
M-9	05/27/2021	141.52
M-10	05/27/2021	23.93
M-11R	05/27/2021	37.59
M-12	05/27/2021	174.64
M-13R	05/27/2021	125.85
M-14	05/27/2021	130.69
M-16	05/27/2021	22.40
M-17	05/27/2021	28.32

Table 3 Continued – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
M-18	05/27/2021	25.42
M-19	05/27/2021	23.09
M-21	05/27/2021	17.09
M-22	05/27/2021	15.95
M-23	05/27/2021	41.92
M-24	05/27/2021	24.43
M-26	05/27/2021	13.49
M-31	05/27/2021	36.96
M-32	05/27/2021	42.76
M-33	05/27/2021	45.88
M-34	05/27/2021	21.10

Should you have any questions or comments, please do not hesitate to call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Alan Fosdick, Engineering Analytics, Inc.

Engineering Analytics, Inc.
1600 Specht Point Rd. • Ste. 209 • Fort Collins, CO • 80525

TO:

Mr. Lucas J. West
CDRMS
1313 Sherman, Room 215
Denver, CO 80203

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

July 7, 2021

Mr. Lucas J. West
State of Colorado
Colorado Department of Reclamation, Mining, & Safety
1313 Sherman Street, Room 215
Denver, CO 80203

Re: Battle Mountain Resources, Inc.
San Luis Project - M-88-112
June 2021 Monthly Report

Dear Mr. West:

The following summarizes monitoring and site activities at the Battle Mountain Resources Inc. (BMRI) "San Luis Project" (M-88-112) for the month of June 2021. Surface and groundwater monitoring and analysis were completed for all the required sites during the month as specified in the TR-32 Quality Assurance and Quality Control (QA/QC) Plan.

Tailing Facility / Leak Detection System

The six lysimeters which are a part of the Lined Tailing Facility (LTF) leak detection system were inspected and verified for proper vacuum and operation. As shown in Table 1, there was no pore space water found to be present in any of the six lysimeter collection pans, therefore, no sampling or laboratory analysis was required.

Table 1 – Monthly Lysimeter Monitoring

Lysimeter Identification	Observation Date	Depth to Water (feet)
LS1R2	06/30/2021	DRY
LS2R2	06/30/2021	DRY
LS3R	06/30/2021	DRY
LD1R2	06/30/2021	DRY
LD2R2	06/30/2021	DRY
LD3R	06/30/2021	DRY

The ten piezometers located on the tailing impoundment main embankment were inspected and measured for depth to water. The depths to water found for each piezometer are shown in Table 2. All piezometers were either dry or contained less than twelve inches of water.

Table 2 – Monthly Piezometer Elevations

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	06/30/2021	72.46	DRY	N/A
P7	06/30/2021	92.50	92.27	0.23
P8	06/30/2021	97.51	96.59	0.92
P9	06/30/2021	72.30	71.91	0.39
P10	06/30/2021	58.30	57.61	0.69
P11	06/30/2021	41.80	41.40	0.40
P12	06/30/2021	41.71	41.67	0.04
P13	06/30/2021	41.34	41.03	0.31
P14	06/30/2021	41.24	DRY	N/A
P15	06/30/2021	41.10	40.86	0.24

The leak detection system at the LTF Collection Pond was inspected June 30, 2021 and 880 gallons were evacuated from the leak detection system and pumped to the LTF. The LTF underdrain system was visually inspected June 30, 2021 and the flow rate was measured to be approximately 32.0 gallons per minute (gpm).

West Pit Waste Water Treatment Plant

During the month of June 2021, the West Pit Waste Water Treatment Plant (WWTP) was operated intermittently (3 to 4 days per week) under Colorado Department of Public Health and Environment (CDPHE) CDPS Permit No. CO0045675 for discharge into the Rito Seco alluvial aquifer. During the month, 9,163,800 gallons (28.1 acre-feet) of treated water was discharged to the Rito Seco and 453,300 gallons (1.39 acre-feet) of water was transferred from the West Pit to the Lined Tailing Facility (LTF). Additionally, no water was reinfiltrated into the West Pit and there was no sludge transferred from the WWTP drying pad to the LTF.

BMRI performed the monthly visual seepage expression inspections on June 30, 2021 in the historic seepage area identified in Figure 2 of the permit. No seepage expressions were observed in the historic seepage area.

BMRI measured the monthly West Pit backfill, alluvial and monitoring wells as required under in the QA/QC Plan. Measurements obtained for the monthly wells are shown in Table 3.

Table 3 – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
BF-4	06/30/2021	24.93
BF-5R	06/30/2021	30.83
BF-6	06/30/2021	30.95
M-6	06/30/2021	DRY
M-7	06/30/2021	DRY
M-8	06/30/2021	DRY
M-9	06/30/2021	141.49
M-10	06/30/2021	24.24
M-11R	06/30/2021	37.60
M-12	06/30/2021	174.63
M-13R	06/30/2021	125.82
M-14	06/30/2021	130.67
M-16	06/30/2021	21.54
M-17	06/30/2021	29.21

Table 3 Continued – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
M-18	06/30/2021	26.65
M-19	06/30/2021	24.08
M-21	06/30/2021	17.75
M-22	06/30/2021	16.30
M-23	06/30/2021	41.82
M-24	06/30/2021	24.46
M-26	06/30/2021	13.93
M-31	06/30/2021	36.98
M-32	06/30/2021	43.92
M-33	06/30/2021	45.96
M-34	06/30/2021	20.95

Should you have any questions or comments, please do not hesitate to call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Alan Fosdick, Engineering Analytics, Inc.

Engineering Analytics, Inc.
1600 Specht Point Rd. • Ste. 209 • Fort Collins, CO • 80525

TO:

Mr. Lucas J. West
CDRMS
1313 Sherman, Room 215
Denver, CO 80203

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

August 7, 2021

Mr. Lucas J. West
State of Colorado
Colorado Department of Reclamation, Mining, & Safety
1313 Sherman Street, Room 215
Denver, CO 80203

Re: Battle Mountain Resources, Inc.
San Luis Project - M-88-112
July 2021 Monthly Report

Dear Mr. West:

The following summarizes monitoring and site activities at the Battle Mountain Resources Inc. (BMRI) "San Luis Project" (M-88-112) for the month of July 2021. Surface and groundwater monitoring and analysis were completed for all the required sites during the month as specified in the TR-32 Quality Assurance and Quality Control (QA/QC) Plan.

Tailing Facility / Leak Detection System

The six lysimeters which are a part of the Lined Tailing Facility (LTF) leak detection system were inspected and verified for proper vacuum and operation. As shown in Table 1, there was no pore space water found to be present in any of the six lysimeter collection pans, therefore, no sampling or laboratory analysis was required.

Table 1 – Monthly Lysimeter Monitoring

Lysimeter Identification	Observation Date	Depth to Water (feet)
LS1R2	07/29/2021	DRY
LS2R2	07/29/2021	DRY
LS3R	07/29/2021	DRY
LD1R2	07/29/2021	DRY
LD2R2	07/29/2021	DRY
LD3R	07/29/2021	DRY

The ten piezometers located on the tailing impoundment main embankment were inspected and measured for depth to water. The depths to water found for each piezometer are shown in Table 2. All piezometers were either dry or contained less than twelve inches of water.

Table 2 – Monthly Piezometer Elevations

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	07/29/2021	72.46	DRY	N/A
P7	07/29/2021	92.50	92.27	0.23
P8	07/29/2021	97.51	96.58	0.93
P9	07/29/2021	72.30	71.91	0.39
P10	07/29/2021	58.30	57.61	0.69
P11	07/29/2021	41.80	41.40	0.40
P12	07/29/2021	41.71	41.67	0.04
P13	07/29/2021	41.34	41.03	0.31
P14	07/29/2021	41.24	DRY	N/A
P15	07/29/2021	41.10	40.87	0.23

The leak detection system at the LTF Collection Pond was inspected July 29, 2021 and 870 gallons were evacuated from the leak detection system and pumped to the LTF. The LTF underdrain system was visually inspected July 29, 2021 and the flow rate was measured to be approximately 32.0 gallons per minute (gpm).

West Pit Waste Water Treatment Plant

During the month of July 2021, the West Pit Waste Water Treatment Plant (WWTP) was operated intermittently (3 to 4 days per week) under Colorado Department of Public Health and Environment (CDPHE) CDPS Permit No. CO0045675 for discharge into the Rito Seco alluvial aquifer. During the month, 7,604,900 gallons (23.3 acre-feet) of treated water was discharged to the Rito Seco and 430,300 gallons (1.32 acre-feet) of water was transferred from the West Pit to the Lined Tailing Facility (LTF). Additionally, no water was reinfiltrated into the West Pit and there was no sludge transferred from the WWTP drying pad to the LTF.

BMRI performed the monthly visual seepage expression inspections on July 29, 2021 in the historic seepage area identified in Figure 2 of the permit. No seepage expressions were observed in the historic seepage area.

BMRI measured the monthly West Pit backfill, alluvial and monitoring wells as required under in the QA/QC Plan. Measurements obtained for the monthly wells are shown in Table 3.

Table 3 – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
BF-4	07/29/2021	24.89
BF-5R	07/29/2021	30.83
BF-6	07/29/2021	30.95
M-6	07/29/2021	DRY
M-7	07/29/2021	DRY
M-8	07/29/2021	DRY
M-9	07/29/2021	141.49
M-10	07/29/2021	24.44
M-11R	07/29/2021	37.92
M-12	07/29/2021	174.63
M-13R	07/29/2021	125.81
M-14	07/29/2021	130.63
M-16	07/29/2021	22.38
M-17	07/29/2021	29.90

Table 3 Continued – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
M-18	07/29/2021	26.86
M-19	07/29/2021	24.49
M-21	07/29/2021	18.22
M-22	07/29/2021	16.73
M-23	07/29/2021	42.13
M-24	07/29/2021	24.75
M-26	07/29/2021	14.02
M-31	07/29/2021	37.26
M-32	07/29/2021	45.12
M-33	07/29/2021	53.93
M-34	07/29/2021	21.06

Should you have any questions or comments, please do not hesitate to call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Alan Fosdick, Engineering Analytics, Inc.

Engineering Analytics, Inc.
1600 Specht Point Rd. Ste. 209 Fort Collins, CO 80525

TO:

Mr. Lucas J. West
CDRMS
1313 Sherman, Room 215
Denver, CO 80203

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

September 8, 2021

Mr. Lucas J. West
State of Colorado
Colorado Department of Reclamation, Mining, & Safety
1313 Sherman Street, Room 215
Denver, CO 80203

Re: Battle Mountain Resources, Inc.
San Luis Project - M-88-112
August 2021 Monthly Report

Dear Mr. West:

The following summarizes monitoring and site activities at the Battle Mountain Resources Inc. (BMRI) "San Luis Project" (M-88-112) for the month of August 2021. Surface and groundwater monitoring and analysis were completed for all the required sites during the month as specified in the TR-32 Quality Assurance and Quality Control (QA/QC) Plan.

Tailing Facility / Leak Detection System

The six lysimeters which are a part of the Lined Tailing Facility (LTF) leak detection system were inspected and verified for proper vacuum and operation. As shown in Table 1, there was no pore space water found to be present in any of the six lysimeter collection pans, therefore, no sampling or laboratory analysis was required.

Table 1 – Monthly Lysimeter Monitoring

Lysimeter Identification	Observation Date	Depth to Water (feet)
LS1R2	08/31/2021	DRY
LS2R2	08/31/2021	DRY
LS3R	08/31/2021	DRY
LD1R2	08/31/2021	DRY
LD2R2	08/31/2021	DRY
LD3R	08/31/2021	DRY

The ten piezometers located on the tailing impoundment main embankment were inspected and measured for depth to water. The depths to water found for each piezometer are shown in Table 2. All piezometers were either dry or contained less than twelve inches of water.

Table 2 – Monthly Piezometer Elevations

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	08/31/2021	72.46	DRY	N/A
P7	08/31/2021	92.50	92.28	0.22
P8	08/31/2021	97.51	96.57	0.94
P9	08/31/2021	72.30	71.91	0.39
P10	08/31/2021	58.30	57.60	0.70
P11	08/31/2021	41.80	41.40	0.40
P12	08/31/2021	41.71	41.67	0.04
P13	08/31/2021	41.34	41.02	0.32
P14	08/31/2021	41.24	DRY	N/A
P15	08/31/2021	41.10	40.87	0.23

The leak detection system at the LTF Collection Pond was inspected August 31, 2021 and 870 gallons were evacuated from the leak detection system and pumped to the LTF. The LTF underdrain system was visually inspected August 31, 2021 and the flow rate was measured to be approximately 31.0 gallons per minute (gpm).

West Pit Waste Water Treatment Plant

During the month of August 2021, the West Pit Waste Water Treatment Plant (WWTP) was operated intermittently (3 to 4 days per week) under Colorado Department of Public Health and Environment (CDPHE) CDPS Permit No. CO0045675 for discharge into the Rito Seco alluvial aquifer. During the month, 7,932,900 gallons (24.3 acre-feet) of treated water was discharged to the Rito Seco and 582,900 gallons (1.79 acre-feet) of water was transferred from the West Pit to the Lined Tailing Facility (LTF). Additionally, no water was reinfiltrated into the West Pit and there was 405 cubic yards of sludge transferred from the WWTP drying pad to the LTF.

BMRI performed the monthly visual seepage expression inspections on August 31, 2021 in the historic seepage area identified in Figure 2 of the permit. No seepage expressions were observed in the historic seepage area.

BMRI measured the monthly West Pit backfill, alluvial and monitoring wells as required under in the QA/QC Plan. Measurements obtained for the monthly wells are shown in Table 3.

Table 3 – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
BF-4	08/31/2021	24.92
BF-5R	08/31/2021	30.84
BF-6	08/31/2021	30.97
M-6	08/31/2021	DRY
M-7	08/31/2021	DRY
M-8	08/31/2021	DRY
M-9	08/31/2021	141.36
M-10	08/31/2021	24.60
M-11R	08/31/2021	38.08
M-12	08/31/2021	174.51
M-13R	08/31/2021	125.70
M-14	08/31/2021	130.53
M-16	08/31/2021	23.21
M-17	08/31/2021	30.22

Table 3 Continued – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
M-18	08/31/2021	26.75
M-19	08/31/2021	24.38
M-21	08/31/2021	18.31
M-22	08/31/2021	16.97
M-23	08/31/2021	42.45
M-24	08/31/2021	24.99
M-26	08/31/2021	14.15
M-31	08/31/2021	37.44
M-32	08/31/2021	44.89
M-33	08/31/2021	49.99
M-34	08/31/2021	20.99

Should you have any questions or comments, please do not hesitate to call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Alan Fosdick, Engineering Analytics, Inc.

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Engineering Analytics, Inc.
1600 Specht Point Rd. • Ste. 209 • Fort Collins, CO • 80525

TO:

Mr. Lucas J. West
CDRMS
1313 Sherman, Room 215
Denver, CO 80203

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

October 8, 2021

RECEIVED

OCT 19 2021

DIVISION OF RECLAMATION
MINING & SAFETY

Mr. Lucas J. West
State of Colorado
Colorado Department of Reclamation, Mining, & Safety
1313 Sherman Street, Room 215
Denver, CO 80203

Re: Battle Mountain Resources, Inc.
San Luis Project - M-88-112
September 2021 Monthly Report

Dear Mr. West:

The following summarizes monitoring and site activities at the Battle Mountain Resources Inc. (BMRI) "San Luis Project" (M-88-112) for the month of September 2021. Surface and groundwater monitoring and analysis were completed for all the required sites during the month as specified in the TR-32 Quality Assurance and Quality Control (QA/QC) Plan.

Tailing Facility / Leak Detection System

The six lysimeters which are a part of the Lined Tailing Facility (LTF) leak detection system were inspected and verified for proper vacuum and operation. As shown in Table 1, there was no pore space water found to be present in any of the six lysimeter collection pans, therefore, no sampling or laboratory analysis was required.

Table 1 – Monthly Lysimeter Monitoring

Lysimeter Identification	Observation Date	Depth to Water (feet)
LS1R2	09/30/2021	DRY
LS2R2	09/30/2021	DRY
LS3R	09/30/2021	DRY
LD1R2	09/30/2021	DRY
LD2R2	09/30/2021	DRY
LD3R	09/30/2021	DRY

The ten piezometers located on the tailing impoundment main embankment were inspected and measured for depth to water. The depths to water found for each piezometer are shown in Table 2. All piezometers were either dry or contained less than twelve inches of water.

Table 2 – Monthly Piezometer Elevations

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	09/30/2021	72.46	DRY	N/A
P7	09/30/2021	92.50	92.27	0.23
P8	09/30/2021	97.51	96.57	0.94
P9	09/30/2021	72.30	71.91	0.39
P10	09/30/2021	58.30	57.61	0.69
P11	09/30/2021	41.80	41.41	0.39
P12	09/30/2021	41.71	41.67	0.04
P13	09/30/2021	41.34	41.02	0.32
P14	09/30/2021	41.24	DRY	N/A
P15	09/30/2021	41.10	40.87	0.23

The leak detection system at the LTF Collection Pond was inspected September 30, 2021 and 840 gallons were evacuated from the leak detection system and pumped to the LTF. The LTF underdrain system was visually inspected September 30, 2021 and the flow rate was measured to be approximately 31.0 gallons per minute (gpm).

West Pit Waste Water Treatment Plant

During the month of September 2021, the West Pit Waste Water Treatment Plant (WWTP) was operated intermittently (3 to 4 days per week) under Colorado Department of Public Health and Environment (CDPHE) CDPS Permit No. CO0045675 for discharge into the Rito Seco alluvial aquifer. During the month, 6,664,700 gallons (20.5 acre-feet) of treated water was discharged to the Rito Seco and 364,200 gallons (1.12 acre-feet) of water was transferred from the West Pit to the Lined Tailing Facility (LTF). Additionally, no water was reinfiltrated into the West Pit in September.

BMRI performed the monthly visual seepage expression inspections on September 30, 2021 in the historic seepage area identified in Figure 2 of the permit. No seepage expressions were observed in the historic seepage area.

BMRI measured the monthly West Pit backfill, alluvial and monitoring wells as required under in the QA/QC Plan. Measurements obtained for the monthly wells are shown in Table 3.

Table 3 – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
BF-4	09/30/2021	24.91
BF-5R	09/30/2021	30.81
BF-6	09/30/2021	30.94
M-6	09/30/2021	DRY
M-7	09/30/2021	DRY
M-8	09/30/2021	DRY
M-9	09/30/2021	141.33
M-10	09/30/2021	24.50
M-11R	09/30/2021	38.14
M-12	09/30/2021	174.53
M-13R	09/30/2021	125.72
M-14	09/30/2021	130.58
M-16	09/30/2021	23.51
M-17	09/30/2021	30.14

Table 3 Continued – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
M-18	09/30/2021	26.18
M-19	09/30/2021	23.97
M-21	09/30/2021	18.13
M-22	09/30/2021	16.94
M-23	09/30/2021	42.64
M-24	09/30/2021	25.13
M-26	09/30/2021	14.11
M-31	09/30/2021	37.50
M-32	09/30/2021	45.11
M-33	09/30/2021	48.72
M-34	09/30/2021	20.63

Should you have any questions or comments, please do not hesitate to call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Alan Fosdick, Engineering Analytics, Inc.

Engineering Analytics, Inc.
1600 Specht Point Rd. Ste. 209 Fort Collins, CO 80525

TO:

Mr. Lucas J. West
CDRMS
1313 Sherman, Room 215
Denver, CO 80203

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

November 9, 2021

Mr. Lucas J. West
State of Colorado
Colorado Department of Reclamation, Mining, & Safety
1313 Sherman Street, Room 215
Denver, CO 80203

Re: Battle Mountain Resources, Inc.
San Luis Project - M-88-112
October 2021 Monthly Report

Dear Mr. West:

The following summarizes monitoring and site activities at the Battle Mountain Resources Inc. (BMRI) "San Luis Project" (M-88-112) for the month of October 2021. Surface and groundwater monitoring and analysis were completed for all the required sites during the month as specified in the TR-32 Quality Assurance and Quality Control (QA/QC) Plan.

Tailing Facility / Leak Detection System

The six lysimeters which are a part of the Lined Tailing Facility (LTF) leak detection system were inspected and verified for proper vacuum and operation. As shown in Table 1, there was no pore space water found to be present in any of the six lysimeter collection pans, therefore, no sampling or laboratory analysis was required.

Table 1 – Monthly Lysimeter Monitoring

Lysimeter Identification	Observation Date	Depth to Water (feet)
LS1R2	10/27/2021	DRY
LS2R2	10/27/2021	DRY
LS3R	10/27/2021	DRY
LD1R2	10/27/2021	DRY
LD2R2	10/27/2021	DRY
LD3R	10/27/2021	DRY

The ten piezometers located on the tailing impoundment main embankment were inspected and measured for depth to water. The depths to water found for each piezometer are shown in Table 2. All piezometers were either dry or contained less than twelve inches of water.

Table 2 – Monthly Piezometer Elevations

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	10/27/2021	72.46	DRY	N/A
P7	10/27/2021	92.50	92.27	0.23
P8	10/27/2021	97.51	96.56	0.95
P9	10/27/2021	72.30	71.91	0.39
P10	10/27/2021	58.30	57.61	0.69
P11	10/27/2021	41.80	41.40	0.40
P12	10/27/2021	41.71	41.67	0.04
P13	10/27/2021	41.34	41.02	0.32
P14	10/27/2021	41.24	DRY	N/A
P15	10/27/2021	41.10	40.87	0.23

The leak detection system at the LTF Collection Pond was inspected October 27, 2021 and 860 gallons were evacuated from the leak detection system and pumped to the LTF. The LTF underdrain system was visually inspected October 27, 2021 and the flow rate was measured to be approximately 31.9 gallons per minute (gpm).

West Pit Waste Water Treatment Plant

During the month of October 2021, the West Pit Waste Water Treatment Plant (WWTP) was operated intermittently (3 to 4 days per week) under Colorado Department of Public Health and Environment (CDPHE) CDPS Permit No. CO0045675 for discharge into the Rito Seco alluvial aquifer. During the month, 7,179,200 gallons (22.0 acre-feet) of treated water was discharged to the Rito Seco and 453,200 gallons (1.39 acre-feet) of water was transferred from the West Pit to the Lined Tailing Facility (LTF). Additionally, no water was reinfiltrated into the West Pit in October.

BMRI performed the monthly visual seepage expression inspections on October 27, 2021 in the historic seepage area identified in Figure 2 of the permit. No seepage expressions were observed in the historic seepage area.

BMRI measured the monthly West Pit backfill, alluvial and monitoring wells as required under in the QA/QC Plan. Measurements obtained for the monthly wells are shown in Table 3.

Table 3 – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
BF-4	10/29/2021	24.85
BF-5R	10/29/2021	30.78
BF-6	10/29/2021	30.93
M-6	10/29/2021	DRY
M-7	10/29/2021	DRY
M-8	10/29/2021	DRY
M-9	10/29/2021	141.47
M-10	10/29/2021	24.29
M-11R	10/29/2021	38.02
M-12	10/29/2021	174.64
M-13R	10/29/2021	125.83
M-14	10/29/2021	130.66
M-16	10/29/2021	23.33
M-17	10/29/2021	29.81

Table 3 Continued – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
M-18	10/29/2021	25.98
M-19	10/29/2021	23.81
M-21	10/29/2021	18.01
M-22	10/29/2021	16.57
M-23	10/29/2021	42.55
M-24	10/29/2021	25.02
M-26	10/29/2021	13.72
M-31	10/29/2021	37.39
M-32	10/29/2021	44.57
M-33	10/29/2021	48.11
M-34	10/29/2021	20.20

Should you have any questions or comments, please do not hesitate to call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Alan Fosdick, Engineering Analytics, Inc.

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DIVISION OF RECLAMATION
MINING & SAFETY

Engineering Analytics, Inc.
1600 Specht Point Rd. Ste. 209 Fort Collins, CO 80525

TO:

Mr. Lucas J. West
CDRMS
1313 Sherman, Room 215
Denver, CO 80203

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

December 9, 2021

Mr. Lucas J. West
State of Colorado
Colorado Department of Reclamation, Mining, & Safety
1313 Sherman Street, Room 215
Denver, CO 80203

Re: Battle Mountain Resources, Inc.
San Luis Project - M-88-112
November 2021 Monthly Report

Dear Mr. West:

The following summarizes monitoring and site activities at the Battle Mountain Resources Inc. (BMRI) "San Luis Project" (M-88-112) for the month of November 2021. Surface and groundwater monitoring and analysis were completed for all the required sites during the month as specified in the TR-32 Quality Assurance and Quality Control (QA/QC) Plan.

Tailing Facility / Leak Detection System

The six lysimeters which are a part of the Lined Tailing Facility (LTF) leak detection system were inspected and verified for proper vacuum and operation. As shown in Table 1, there was no pore space water found to be present in any of the six lysimeter collection pans, therefore, no sampling or laboratory analysis was required.

Table 1 – Monthly Lysimeter Monitoring

Lysimeter Identification	Observation Date	Depth to Water (feet)
LS1R2	11/30/2021	DRY
LS2R2	11/30/2021	DRY
LS3R	11/30/2021	DRY
LD1R2	11/30/2021	DRY
LD2R2	11/30/2021	DRY
LD3R	11/30/2021	DRY

The ten piezometers located on the tailing impoundment main embankment were inspected and measured for depth to water. The depths to water found for each piezometer are shown in Table 2. All piezometers were either dry or contained less than twelve inches of water.

Table 2 – Monthly Piezometer Elevations

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	11/30/2021	72.46	DRY	N/A
P7	11/30/2021	92.50	92.27	0.23
P8	11/30/2021	97.51	96.57	0.94
P9	11/30/2021	72.30	71.91	0.39
P10	11/30/2021	58.30	57.61	0.69
P11	11/30/2021	41.80	41.40	0.40
P12	11/30/2021	41.71	41.67	0.04
P13	11/30/2021	41.34	41.02	0.32
P14	11/30/2021	41.24	DRY	N/A
P15	11/30/2021	41.10	40.87	0.23

The leak detection system at the LTF Collection Pond was inspected November 30, 2021 and 870 gallons were evacuated from the leak detection system and pumped to the LTF. The LTF underdrain system was visually inspected November 30, 2021 and the flow rate was measured to be approximately 25.6 gallons per minute (gpm).

West Pit Waste Water Treatment Plant

During the month of November 2021, the West Pit Waste Water Treatment Plant (WWTP) was operated intermittently (3 to 4 days per week) under Colorado Department of Public Health and Environment (CDPHE) CDPS Permit No. CO0045675 for discharge into the Rito Seco alluvial aquifer. During the month, 7,407,500 gallons (22.7 acre-feet) of treated water was discharged to the Rito Seco and no water was transferred from the West Pit to the Lined Tailing Facility (LTF). Additionally, no water was reinfiltrated into the West Pit in November.

BMRI performed the monthly visual seepage expression inspections on November 30, 2021 in the historic seepage area identified in Figure 2 of the permit. No seepage expressions were observed in the historic seepage area.

BMRI measured the monthly West Pit backfill, alluvial and monitoring wells as required under in the QA/QC Plan. Measurements obtained for the monthly wells are shown in Table 3.

Table 3 – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
BF-4	11/30/2021	24.93
BF-5R	11/30/2021	30.82
BF-6	11/30/2021	30.95
M-6	11/30/2021	DRY
M-7	11/30/2021	DRY
M-8	11/30/2021	DRY
M-9	11/30/2021	141.37
M-10	11/30/2021	24.28
M-11R	11/30/2021	38.15
M-12	11/30/2021	174.47
M-13R	11/30/2021	125.67
M-14	11/30/2021	130.51
M-16	11/30/2021	23.20
M-17	11/30/2021	29.52

Table 3 Continued – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
M-18	11/30/2021	26.25
M-19	11/30/2021	24.06
M-21	11/30/2021	18.31
M-22	11/30/2021	16.73
M-23	11/30/2021	42.60
M-24	11/30/2021	25.10
M-26	11/30/2021	14.04
M-31	11/30/2021	37.51
M-32	11/30/2021	46.90
M-33	11/30/2021	46.80
M-34	11/30/2021	19.85

Should you have any questions or comments, please do not hesitate to call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Alan Fosdick, Engineering Analytics, Inc.

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

January 9, 2022

Mr. Lucas J. West
State of Colorado
Colorado Department of Reclamation, Mining, & Safety
1313 Sherman Street, Room 215
Denver, CO 80203

Re: Battle Mountain Resources, Inc.
San Luis Project - M-88-112
December 2021 Monthly Report

Dear Mr. West:

The following summarizes monitoring and site activities at the Battle Mountain Resources Inc. (BMRI) "San Luis Project" (M-88-112) for the month of December 2021. Surface and groundwater monitoring and analysis were completed for all the required sites during the month as specified in the TR-32 Quality Assurance and Quality Control (QA/QC) Plan.

Tailing Facility / Leak Detection System

The six lysimeters which are a part of the Lined Tailing Facility (LTF) leak detection system were inspected and verified for proper vacuum and operation. As shown in Table 1, there was no pore space water found to be present in any of the six lysimeter collection pans, therefore, no sampling or laboratory analysis was required.

Table 1 – Monthly Lysimeter Monitoring

Lysimeter Identification	Observation Date	Depth to Water (feet)
LS1R2	12/30/2021	DRY
LS2R2	12/30/2021	DRY
LS3R	12/30/2021	DRY
LD1R2	12/30/2021	DRY
LD2R2	12/30/2021	DRY
LD3R	12/30/2021	DRY

The ten piezometers located on the tailing impoundment main embankment were inspected and measured for depth to water. The depths to water found for each piezometer are shown in Table 2. All piezometers were either dry or contained less than twelve inches of water.

Table 2 – Monthly Piezometer Elevations

Monitoring Well Identification	Observation Date	Piezometer Depth (ft)	Depth to Water (ft)	Depth of Water (ft)
P6	12/30/2021	72.46	DRY	N/A
P7	12/30/2021	92.50	92.29	0.21
P8	12/30/2021	97.51	96.58	0.93
P9	12/30/2021	72.30	71.92	0.38
P10	12/30/2021	58.30	57.58	0.72
P11	12/30/2021	41.80	41.40	0.40
P12	12/30/2021	41.71	41.66	0.05
P13	12/30/2021	41.34	41.02	0.32
P14	12/30/2021	41.24	DRY	N/A
P15	12/30/2021	41.10	40.87	0.23

The leak detection system at the LTF Collection Pond was inspected December 30, 2021 and 900 gallons were evacuated from the leak detection system and pumped to the LTF. The LTF underdrain system was visually inspected December 30, 2021 and the flow rate was measured to be approximately 32.0 gallons per minute (gpm).

West Pit Waste Water Treatment Plant

During the month of December 2021, the West Pit Waste Water Treatment Plant (WWTP) was operated intermittently (3 to 4 days per week) under Colorado Department of Public Health and Environment (CDPHE) CDPS Permit No. CO0045675 for discharge into the Rito Seco alluvial aquifer. During the month, 7,238,100 gallons (22.2 acre-feet) of treated water was discharged to the Rito Seco and 753,800 gallons (2.31 acre-feet) of water was transferred from the West Pit to the Lined Tailing Facility (LTF). Additionally, no water was reinfiltrated into the West Pit in December.

BMRI performed the monthly visual seepage expression inspections on December 30, 2021 in the historic seepage area identified in Figure 2 of the permit. No seepage expressions were observed in the historic seepage area.

BMRI measured the monthly West Pit backfill, alluvial and monitoring wells as required under in the QA/QC Plan. Measurements obtained for the monthly wells are shown in Table 3.

Table 3 – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
BF-4	12/30/2021	24.80
BF-5R	12/30/2021	30.73
BF-6	12/30/2021	30.86
M-6	12/30/2021	DRY
M-7	12/30/2021	DRY
M-8	12/30/2021	DRY
M-9	12/30/2021	141.22
M-10	12/30/2021	24.37
M-11R	12/30/2021	38.59
M-12	12/30/2021	174.55
M-13R	12/30/2021	125.67
M-14	12/30/2021	130.77
M-16	12/30/2021	23.51
M-17	12/30/2021	30.09

Table 3 Continued – Monthly and Quarterly Groundwater Depth to Water

Monitoring Well Identification	Observation Date	Depth to Water (ft)
M-18	12/30/2021	26.36
M-19	12/30/2021	24.38
M-21	12/30/2021	18.68
M-22	12/30/2021	17.07
M-23	12/30/2021	42.87
M-24	12/30/2021	25.33
M-26	12/30/2021	14.29
M-31	12/30/2021	37.88
M-32	12/30/2021	45.25
M-33	12/30/2021	56.90
M-34	12/30/2021	19.81

Should you have any questions or comments, please do not hesitate to call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Alan Fosdick, Engineering Analytics, Inc.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

			COL				LD			
		Sample Date:	2021-01-28	2021-04-29	2021-07-29	2021-10-27	2021-01-28	2021-04-29	2021-07-29	2021-10-27
Analyte	**Analysis Method**	**Units**								
Arsenic, total	M200.8 ICP-MS	mg/L								
Calcium, total	M200.7 ICP	mg/L	545	484	510	527	532	492	492	512
Copper, total	M200.7 ICP	mg/L								
Copper, total	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	LT 0.002	LT 0.002	0.0495	0.0549	0.0613	0.0583
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L	0.164	LT 0.01	0.0122	0.0568	LT 0.01	LT 0.01	LT 0.01	LT 0.01
Iron, total	M200.7 ICP	mg/L	31.5	29.3	31.6	31.3	LT 0.15	LT 0.15	LT 0.15	LT 0.15
Sodium, total	M200.7 ICP	mg/L	998	864	936	994	1020	932	944	948
Zinc, total	M200.7 ICP	mg/L	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05

Definitions:

LT = Less Than Reporting Limit

Notes:

None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

		Sample Date:	TAILS							
Analyte	**Analysis Method**	**Units**	**2021-01-28**	**2021-02-25**	**2021-03-31**	**2021-04-29**	**2021-05-27**	**2021-06-30**	**2021-07-29**	**2021-08-31**
Arsenic, total	M200.8 ICP-MS	mg/L	LT 0.001	0.00140	LT 0.001	LT 0.001	LT 0.001	0.00175	0.00145	LT 0.001
Calcium, total	M200.7 ICP	mg/L	572			506			521	
Copper, total	M200.7 ICP	mg/L	LT 0.05			0.111			0.082	
Copper, total	M200.8 ICP-MS	mg/L								
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L								
Iron, total	M200.7 ICP	mg/L	6.25			0.754			1.92	
Sodium, total	M200.7 ICP	mg/L	1090			766			1590	
Zinc, total	M200.7 ICP	mg/L	LT 0.05			LT 0.05			LT 0.05	

Definitions:
LT = Less Than Reporting Limit

Notes:
None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

			TAILS			
		Sample Date:	**2021-09-30**	**2021-10-27**	**2021-11-30**	**2021-12-29**
Analyte	**Analysis Method**	**Units**				
Arsenic, total	M200.8 ICP-MS	mg/L	LT 0.001	0.00104	LT 0.001	0.00138
Calcium, total	M200.7 ICP	mg/L		488		
Copper, total	M200.7 ICP	mg/L		0.134		
Copper, total	M200.8 ICP-MS	mg/L				
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L				
Iron, total	M200.7 ICP	mg/L		2.72		
Sodium, total	M200.7 ICP	mg/L		1100		
Zinc, total	M200.7 ICP	mg/L		LT 0.05		

Definitions:
LT = Less Than Reporting Limit

Notes:
None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

		Sample Date:	M-12				M-13R			
Analyte	Analysis Method	Units	2021-02-02	2021-04-13	2021-07-26	2021-10-13	2021-02-02	2021-04-13	2021-07-26	2021-10-13
Aluminum, dissolved	M200.7 ICP	mg/L	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25
Arsenic, dissolved	M200.8 ICP-MS	mg/L	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001
Barium, dissolved	M200.7 ICP	mg/L	0.155	0.152	0.157	0.156	0.127	0.127	0.130	0.131
Bicarbonate as CaCO3	SM2320B - Titration	mg/L	137	149	157	139	333	341	325	326
Cadmium, dissolved	M200.8 ICP-MS	mg/L	0.000291	0.000296	0.000301	0.000278	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025
Calcium, total	M200.7 ICP	mg/L	50.5	52.9	52.3	54.5	90.4	93.4	91.7	97.9
Carbonate as CaCO3	SM2320B - Titration	mg/L	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20
Chloride	M300.0 - Ion Chromat	mg/L	21.2	21.3	19.9	20.0	3.81	3.77	3.63	3.73
Chromium, dissolved	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Copper, dissolved	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	0.0331
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01
Fluoride	M300.0 - Ion Chromat	mg/L	0.312	0.322	LT 0.25	0.279	0.398	0.393	0.322	0.322
Gross Alpha	M900.0	pCi/L	5.9	9.4	7.5	8.7	35	30	33	39
Gross Beta	M900.0	pCi/L	6	2.8	5.3	2.3	19	14	14	19
Hardness as CaCO3 (total)	SM2340B - Calculatio	mg/L	161	169	166	172	287	298	290	307
Hydroxide as CaCO3	SM2320B - Titration	mg/L	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20
Iron, dissolved	M200.7 ICP	mg/L	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15
Lead, dissolved	M200.8 ICP-MS	mg/L	0.00097	0.00105	0.00104	0.00093	0.00079	0.00075	0.00074	0.00185
Magnesium, total	M200.7 ICP	mg/L	8.51	8.99	8.52	8.78	14.8	15.7	14.7	15.3
Manganese, dissolved	M200.7 ICP	mg/L	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05
Mercury, dissolved	M245.1 CVAA	mg/L	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001
Nickel, dissolved	M200.8 ICP-MS	mg/L	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001
Potassium, total	M200.7 ICP	mg/L	2.05	2.03	1.95	2.11	1.53	1.44	1.40	1.54
Residue, Filterable (TDS)	SM2540C	mg/L	230	224	238	236 H	380	378	392	392 H
Selenium, dissolved	M200.8 ICP-MS	mg/L	0.00148	0.00144	0.00146	0.00160	0.00627	0.00585	0.00647	0.00633
Silica, total	M200.7 ICP	mg/L	18.7	18.9	19.7	22.5	23.9	24.9	24.7	26.4
Silver, dissolved	M200.8 ICP-MS	mg/L	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005
Sodium, total	M200.7 ICP	mg/L	13.4	13.5	14.0	14.4	31.6	32.1	32.9	34.3
Sulfate	M300.0 - Ion Chromat	mg/L	10.5	11.4	10.7	7.92	15.5	16.8	15.7	20.6
Total Alkalinity	SM2320B - Titration	mg/L	137	149	159	142	333	341	326	326
Zinc, dissolved	M200.8 ICP-MS	mg/L	0.366	0.449	0.403	0.359	0.534	0.566	0.524	0.554

Definitions:

LT = Less Than Reporting Limit

Notes:

None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

			M-14								
		Sample Date:	2021-01-18	2021-02-16	2021-03-22	2021-05-10	2021-06-22	2021-07-24	2021-08-24	2021-09-15	2021-04-26
Analyte	Analysis Method	Units									
Aluminum, dissolved	M200.7 ICP	mg/L	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25
Arsenic, dissolved	M200.8 ICP-MS	mg/L	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001
Barium, dissolved	M200.7 ICP	mg/L	LT 0.035	0.374	0.372	0.391	0.397	0.388	0.382	0.394	0.389
Bicarbonate as CaCO3	SM2320B - Titration	mg/L	614	556	605	633	608	636	633	637	599
Cadmium, dissolved	M200.8 ICP-MS	mg/L	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025
Calcium, total	M200.7 ICP	mg/L	203	188	199	199	193	196	198	196	196
Carbonate as CaCO3	SM2320B - Titration	mg/L	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20
Chloride	M300.0 - Ion Chromat	mg/L	8.92	9.05	9.01	LT 10	9.50	8.55	8.81	8.83	9.02
Chromium, dissolved	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Copper, dissolved	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	0.0127 H	LT 0.01
Fluoride	M300.0 - Ion Chromat	mg/L	0.418	0.473	0.427	LT 1.25	0.455	0.428	0.479	0.481	0.491
Gross Alpha	M900.0	pCi/L	93	93	44	70	96	61	100	83	130
Gross Beta	M900.0	pCi/L	39	34	20	33	57	53	96	43	60
Hardness as CaCO3 (total)	SM2340B - Calculatio	mg/L	641	591	626	625	605	615	619	612	619
Hydroxide as CaCO3	SM2320B - Titration	mg/L	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20
Iron, dissolved	M200.7 ICP	mg/L	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15
Lead, dissolved	M200.8 ICP-MS	mg/L	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005
Magnesium, total	M200.7 ICP	mg/L	32.6	29.6	31.3	31.1	29.9	30.5	30.3	29.7	31.5
Manganese, dissolved	M200.7 ICP	mg/L	0.502	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05
Mercury, dissolved	M245.1 CVAA	mg/L	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001
Nickel, dissolved	M200.8 ICP-MS	mg/L	0.00165	0.00152	0.00123	0.00117	0.00145	0.00366	0.00289	0.00315	0.00158
Potassium, total	M200.7 ICP	mg/L	2.07	1.98	2.06	2.10	1.98	2.04	2.04	1.97	2.08
Residue, Filterable (TDS)	SM2540C	mg/L	724	708	700	714	712	712	700	712	696
Selenium, dissolved	M200.8 ICP-MS	mg/L	0.00278	0.00273	0.00303	0.00248	0.00239	0.00250	0.00282	0.00254	0.00311
Silica, total	M200.7 ICP	mg/L	29.5	29.9	29.4	26.5	25.4	27.8	31.2	26.5	28.7
Silver, dissolved	M200.8 ICP-MS	mg/L	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005
Sodium, total	M200.7 ICP	mg/L	34.5	29.6	31.9	31.8	30.4	31.8	32.0	31.4	31.5
Sulfate	M300.0 - Ion Chromat	mg/L	30.5	30.7	27.4	28.5	30.6 H	25.3	27.3	26.4	27.8
Total Alkalinity	SM2320B - Titration	mg/L	614	556	605	633	608	636	633	637	599
Zinc, dissolved	M200.8 ICP-MS	mg/L	LT 0.015	LT 0.015	LT 0.015	LT 0.015	LT 0.015	LT 0.015	LT 0.015	LT 0.015	LT 0.015

Definitions:

LT = Less Than Reporting Limit

Notes:

None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

		Sample Date:	M-14			M-9			
Analyte	**Analysis Method**	**Units**	**2021-10-14**	**2021-11-08**	**2021-12-08**	**2021-02-02**	**2021-04-13**	**2021-07-26**	**2021-10-13**
Aluminum, dissolved	M200.7 ICP	mg/L	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25
Arsenic, dissolved	M200.8 ICP-MS	mg/L	LT 0.001	LT 0.001	LT 0.001	0.00110	LT 0.001	0.00103	0.00121
Barium, dissolved	M200.7 ICP	mg/L	0.391	0.386	0.394	0.122	0.118	0.122	0.122
Bicarbonate as CaCO3	SM2320B - Titration	mg/L	617	649	577	279	314	285	286
Cadmium, dissolved	M200.8 ICP-MS	mg/L	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	0.000252	0.000265	0.000257
Calcium, total	M200.7 ICP	mg/L	197	200	197	85.0	89.3	86.5	90.2
Carbonate as CaCO3	SM2320B - Titration	mg/L	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20
Chloride	M300.0 - Ion Chromat	mg/L	9.22	LT 10	9.32	3.74	3.66	3.57	3.60
Chromium, dissolved	M200.8 ICP-MS	mg/L	LT 0.002	0.00331	0.00226	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Copper, dissolved	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	0.00299	0.00408	0.00468	0.00437	0.00441
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01
Fluoride	M300.0 - Ion Chromat	mg/L	0.435	LT 1.25	0.498	0.258	0.257	LT 0.25	LT 0.25
Gross Alpha	M900.0	pCi/L	87	122.7	180	9.6	7	9.7	8.9
Gross Beta	M900.0	pCi/L	72	84	55	1.9	4.9	8.4	4.4
Hardness as CaCO3 (total)	SM2340B - Calculatio	mg/L	615	625	617	266	280	270	280
Hydroxide as CaCO3	SM2320B - Titration	mg/L	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20
Iron, dissolved	M200.7 ICP	mg/L	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15
Lead, dissolved	M200.8 ICP-MS	mg/L	LT 0.0005	LT 0.0005	LT 0.0005	0.00065	0.00072	0.00055	0.00063
Magnesium, total	M200.7 ICP	mg/L	30.0	30.6	30.3	13.0	13.9	13.0	13.2
Manganese, dissolved	M200.7 ICP	mg/L	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05
Mercury, dissolved	M245.1 CVAA	mg/L	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001
Nickel, dissolved	M200.8 ICP-MS	mg/L	0.00257	0.00281	0.00359	LT 0.001	LT 0.001	LT 0.001	LT 0.001
Potassium, total	M200.7 ICP	mg/L	2.14	2.22	2.02	1.81	1.77	1.74	1.81
Residue, Filterable (TDS)	SM2540C	mg/L	724	720	692	352	354	360	358 H
Selenium, dissolved	M200.8 ICP-MS	mg/L	0.00274	0.00239	0.00250	0.00389	0.00346	0.00380	0.00393
Silica, total	M200.7 ICP	mg/L	27.3	25.8	30.9	23.9	26.4	26.5	26.4
Silver, dissolved	M200.8 ICP-MS	mg/L	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005
Sodium, total	M200.7 ICP	mg/L	31.8	31.8	31.7	25.1	25.9	26.3	26.7
Sulfate	M300.0 - Ion Chromat	mg/L	28.8	23.7	28.8	17.5	18.5	17.9	25.6
Total Alkalinity	SM2320B - Titration	mg/L	617	649	577	279	314	285	286
Zinc, dissolved	M200.8 ICP-MS	mg/L	LT 0.015	LT 0.015	0.0152	0.336	0.369	0.368	0.342

Definitions:

LT = Less Than Reporting Limit

Notes:

None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

			San Luis Town Well		Ranch Well		WD-1			
		Sample Date:	2021-02-23	2021-09-07	2021-02-25	2021-09-16	2021-02-23	2021-05-18	2021-09-07	2021-10-26
Analyte	Analysis Method	Units								
Aluminum, total	M200.7 ICP	mg/L	LT 0.25	LT 0.25	LT 0.25	LT 0.25				
Arsenic, total	M200.8 ICP-MS	mg/L	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001
Barium, total	M200.7 ICP	mg/L	0.0452	0.0431	0.0662	0.0701				
Boron, total	M200.7 ICP	mg/L	LT 0.1	LT 0.1	LT 0.1	LT 0.1				
Cadmium, total	M200.8 ICP-MS	mg/L	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025				
Chromium, total	M200.7 ICP	mg/L	LT 0.05	LT 0.05	LT 0.05	LT 0.05				
Copper, total	M200.7 ICP	mg/L	LT 0.05	LT 0.05	LT 0.05	LT 0.05				
Copper, total	M200.8 ICP-MS	mg/L					LT 0.002	LT 0.002	LT 0.002	LT 0.002
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L	LT 0.01	LT 0.01	LT 0.01	UH	LT 0.01	LT 0.01	LT 0.01	LT 0.01
Fluoride	M300.0 - Ion Chromat	mg/L	0.406	0.425	0.472	0.461				
Fluoride	SM4500F-C	mg/L					LT 0.35	0.45	0.75	0.82
Iron, total	M200.7 ICP	mg/L	LT 0.15	LT 0.15	LT 0.15	0.198	0.687	1.03	0.790	0.672
Lead, total	M200.7 ICP	mg/L	LT 0.15	LT 0.15	LT 0.15	LT 0.15				
Manganese, dissolved	M200.7 ICP	mg/L					0.067	LT 0.05	LT 0.05	LT 0.05
Manganese, total	M200.7 ICP	mg/L	LT 0.05	LT 0.05	LT 0.05	LT 0.05				
Mercury, total	M245.1 CVAA	mg/L	LT 0.001	LT 0.001	LT 0.001	LT 0.001				
Molybdenum, total	M200.7 ICP	mg/L	LT 0.1	LT 0.1	LT 0.1	LT 0.1				
Nickel, total	M200.7 ICP	mg/L	LT 0.04	LT 0.04	LT 0.04	LT 0.04				
Selenium, total	M200.8 ICP-MS	mg/L	LT 0.00025	LT 0.00025	LT 0.00025	0.00033				
Silver, total	M200.8 ICP-MS	mg/L	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005				
Sulfate	D516-02/-07/-11 - Tu	mg/L					31.5	10.0	6.4	17.0
Zinc, total	M200.7 ICP	mg/L	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05

Definitions:

LT = Less Than Reporting Limit

Notes:

None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

			RS-1				RS-2											
		Sample Date:	2021-01-04	2021-04-05	2021-07-06	2021-10-04	2021-01-04	2021-02-01	2021-03-01	2021-04-05	2021-05-03	2021-06-01	2021-07-06	2021-08-02	2021-09-01	2021-10-04	2021-11-01	2021-12-06
Analyte	**Analysis Method**	**Units**																
Aluminum, dissolved	M200.7 ICP	mg/L					LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25
Aluminum, potentially	M200.8 ICP-MS	mg/L	LT 0.015	0.0942	0.0479	0.0377	0.0247			0.0731			0.0703			0.0694		
Aluminum, total	M200.7 ICP	mg/L					LT 0.25	0.326	LT 0.25	0.696	1.25	0.786	0.377	2.12	0.892	0.299	LT 0.25	LT 0.25
Arsenic, dissolved	M200.8 ICP-MS	mg/L					LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001
Arsenic, total	M200.8 ICP-MS	mg/L	LT 0.001	LT 0.001	LT 0.001	LT 0.005	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001
Barium, dissolved	M200.7 ICP	mg/L					LT 0.035	LT 0.035	LT 0.035	LT 0.035	LT 0.035	LT 0.035	LT 0.035	LT 0.035	0.0357	LT 0.035	LT 0.035	LT 0.035
Barium, total	M200.7 ICP	mg/L					LT 0.035	LT 0.035	LT 0.035	LT 0.035	0.0397	LT 0.035	LT 0.035	0.0470	0.0368	LT 0.035	LT 0.035	LT 0.035
Bicarbonate as CaCO3	SM2320B - Titration	mg/L	57.8	60.7	43.9	57.6	63.2	62.1	62.0	64.9	45.3	33.9	44.2	55.1	52.7	49.1	61.0 H	53.1
Boron, dissolved	M200.7 ICP	mg/L					LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1
Boron, total	M200.7 ICP	mg/L					LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1
Cadmium, dissolved	M200.8 ICP-MS	mg/L					LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025
Cadmium, potentially	M200.8 ICP-MS	mg/L	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025			LT 0.00025			LT 0.00025			LT 0.00025		
Cadmium, total	M200.8 ICP-MS	mg/L					LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025
Calcium, dissolved	M200.7 ICP	mg/L	15.9	14.3	12.1	15.6	17.2	17.0	18.0	15.2	12.9	9.45	12.4	14.6	17.0	16.9	17.4	18.5
Calcium, total	M200.7 ICP	mg/L					18.5	18.0	18.5	16.2	14.0	10.8	12.4	16.4	17.2	18.5	17.3	19.0
Carbon, total organic (TOC)	SM5310B	mg/L					LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5	LT 5
Carbonate as CaCO3	SM2320B - Titration	mg/L	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	UH	LT 20
Chloride	M300.0 - Ion Chromat	mg/L					LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	3.05	2.79	LT 2	LT 2
Chloride	SM4500Cl-E	mg/L	LT 2	LT 2	LT 2	LT 2	LT 2			LT 2			LT 2			2.26		
Chromium, dissolved	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Chromium, total	M200.8 ICP-MS	mg/L					LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Copper, dissolved	M200.8 ICP-MS	mg/L					LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Copper, potentially	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002			LT 0.002			LT 0.002			LT 0.002		
Copper, total	M200.8 ICP-MS	mg/L					LT 0.002	0.00278	LT 0.002	LT 0.002	0.00235	LT 0.002	LT 0.002	0.00538	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Cyanide, total	M335.4 - Colorimetri	mg/L					LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	UH	UH	LT 0.01	LT 0.01	LT 0.01
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L					LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01
Fluoride	SM4500F-C	mg/L	0.56	0.48	0.45	0.67	0.59	0.62	0.64	0.55	0.48	0.43	0.51	0.50	0.86	0.89	0.54	0.54
Gross Alpha	M900.0	pCi/L	4.4	5	4.6	3.8	6.2			4.6			1.3			4.6		
Gross Beta	M900.0	pCi/L	5.2	2.8	3.1	1.6	3.9			2.8			0.95			4.2		
Hardness as CaCO3	SM2340B - Calculatio	mg/L	57	51	43	56	62	61	64	54	45	34	43	51	60	60	62	65
Hydroxide as CaCO3	SM2320B - Titration	mg/L	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	UH	LT 20
Iron, dissolved	M200.7 ICP	mg/L	LT 0.15	0.162	LT 0.15	LT 0.15	LT 0.15	0.162	0.163	LT 0.15	0.266	LT 0.15	0.191	0.172	0.310	0.154	0.234	0.212
Iron, total	M200.7 ICP	mg/L					0.395	0.642	0.888	0.982	1.74	0.952	0.677	2.46	1.28	0.620	0.357	0.421
Iron, total recoverable	M200.7 ICP	mg/L	0.162	1.27	LT 0.75	0.386	0.450			1.11			0.668			0.582		
Lead, dissolved	M200.8 ICP-MS	mg/L					LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005
Lead, potentially dissolved	M200.8 ICP-MS	mg/L	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005			LT 0.0005			LT 0.0005			LT 0.0005		
Lead, total	M200.8 ICP-MS	mg/L					LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	0.00096	0.00058	LT 0.0005	0.00196	0.00068	LT 0.0005	LT 0.0005	LT 0.0005
Magnesium, dissolved	M200.7 ICP	mg/L	4.11	3.59	3.02	4.09	4.57	4.45	4.68	3.81	3.14	2.55	3.00	3.64	4.15	4.30	4.41	4.53
Magnesium, total	M200.7 ICP	mg/L					4.58	4.62	4.75	4.25	3.70	2.88	3.07	4.21	4.34	4.44	4.60	4.77
Manganese, dissolved	M200.7 ICP	mg/L	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05
Manganese, total	M200.7 ICP	mg/L					LT 0.05	0.062	LT 0.05	0.077	0.120	0.053	LT 0.05	0.104	0.100	LT 0.05	LT 0.05	LT 0.05
Manganese, total	M200.7 ICP	mg/L	LT 0.05	0.201	LT 0.25	LT 0.05	LT 0.05			0.093			0.051			LT 0.05		
Mercury, dissolved	M245.1 CVAA	mg/L					LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001
Mercury, total	M245.1 CVAA	mg/L	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001
Nickel, dissolved	M200.7 ICP	mg/L					LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04
Nickel, dissolved	M200.8 ICP-MS	mg/L	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001			LT 0.001			LT 0.001			LT 0.001		
Nickel, total	M200.7 ICP	mg/L					LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04	LT 0.04
Nitrate/Nitrite as N	M353.2 - H2SO4 prese	mg/L					LT 0.1	LT 0.1	LT 0.1	LT 0.1	0.221	0.124	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1	LT 0.1
Nitrogen, ammonia	M350.1 Auto Salicyla	mg/L	LT 0.2	LT 0.2	LT 0.2	LT 0.2	LT 0.2	LT 0.2	LT 0.2	LT 0.2	LT 0.2	LT 0.2	LT 0.2	LT 0.2	LT 0.2	LT 0.2	LT 0.2	LT 0.2
Oil and Grease	1664A/B - Gravimetri	mg/L	LT 10.1	LT 10.1	LT 9.4	LT 9.3	LT 10.1			LT 10.1			LT 9.4			LT 9.3		
Potassium, total	M200.7 ICP	mg/L	LT 1	LT 1	LT 1	LT 1	LT 1	1.01	LT 1	LT 1	1.15	LT 1	1.18	1.27	1.33	1.28	LT 1	1.00
Residue, Filterable (TDS)	SM2540C	mg/L					90	92	92	88	88	82	80	96	106	98	98	88
Residue, Non-Filterable	SM2540D	mg/L	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	LT 20	27.0	LT 20	LT 20	40.0	LT 20	LT 20	LT 20	LT 20
Selenium, dissolved	M200.8 ICP-MS	mg/L	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025
Selenium, total	M200.8 ICP-MS	mg/L					LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025	LT 0.00025
Silica, total	M200.7 ICP	mg/L	12.2	13.4	11.6	12.5	13.1	12.8	12.1	12.5	13.9	12.4	10.7	17.7	13.1	11.8	9.8	14.2
Silver, dissolved	M200.8 ICP-MS	mg/L					LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005
Silver, potentially dissolved	M200.8 ICP-MS	mg/L	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005			LT 0.0005			LT 0.0005			LT 0.0005		
Silver, total	M200.8 ICP-MS	mg/L					LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005
Sodium, total	M200.7 ICP	mg/L	3.44	3.35	2.90	3.59	4.95	4.74	5.34	4.07	3.35	3.64	3.96	3.64	6.60	7.65	4.15	5.14
Sulfate	M300.0 - Ion Chromat	mg/L	5.21	5.19	3.21	2.95	7.43	6.75	8.61	6.20	5.58	6.66	5.86	2.77	14.4	20.6	5.49	7.65
Total Alkalinity	SM2320B - Titration	mg/L	57.8	60.7	43.9	57.6	63.2	62.1	62.0	64.9	45.3	33.9	44.2	55.1	52.7	49.1	61.0 H	53.1
Zinc, dissolved	M200.7 ICP	mg/L					LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05
Zinc, potentially dissolved	M200.8 ICP-MS	mg/L	LT 0.015	LT 0.015	LT 0.015	LT 0.015	LT 0.015			LT 0.015			LT 0.015			LT 0.015		
Zinc, total	M200.7 ICP	mg/L					LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05

Definitions:
LT = Less Than Reporting Limit

Notes:
None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

		Sample Date:	RS-5											
Analyte	**Analysis Method**	**Units**	**2021-01-04**	**2021-02-01**	**2021-03-01**	**2021-04-05**	**2021-05-03**	**2021-06-01**	**2021-07-06**	**2021-08-02**	**2021-09-01**	**2021-10-04**	**2021-11-01**	**2021-12-06**
Aluminum, dissolved	M200.7 ICP	mg/L												
Aluminum, potentially	M200.8 ICP-MS	mg/L	0.0419			0.0559			0.212			0.0242		
Aluminum, total	M200.7 ICP	mg/L												
Arsenic, dissolved	M200.8 ICP-MS	mg/L												
Arsenic, total	M200.8 ICP-MS	mg/L	LT 0.001			LT 0.001			LT 0.001			LT 0.001		
Barium, dissolved	M200.7 ICP	mg/L												
Barium, total	M200.7 ICP	mg/L												
Bicarbonate as CaCO3	SM2320B - Titration	mg/L	80.4			75.2			54.4			80.3		
Boron, dissolved	M200.7 ICP	mg/L												
Boron, total	M200.7 ICP	mg/L												
Cadmium, dissolved	M200.8 ICP-MS	mg/L												
Cadmium, potentially	M200.8 ICP-MS	mg/L	LT 0.00025			LT 0.00025			LT 0.00025			LT 0.00025		
Cadmium, total	M200.8 ICP-MS	mg/L												
Calcium, dissolved	M200.7 ICP	mg/L	24.1			18.5			15.0			23.8		
Calcium, total	M200.7 ICP	mg/L												
Carbon, total organic (TOC)	SM5310B	mg/L												
Carbonate as CaCO3	SM2320B - Titration	mg/L	LT 20			LT 20			LT 20			LT 20		
Chloride	M300.0 - Ion Chromat	mg/L												
Chloride	SM4500Cl-E	mg/L	3.29			2.08			LT 2			LT 2		
Chromium, dissolved	M200.8 ICP-MS	mg/L	LT 0.002			LT 0.002			LT 0.002			LT 0.002		
Chromium, total	M200.8 ICP-MS	mg/L												
Copper, dissolved	M200.8 ICP-MS	mg/L												
Copper, potentially	M200.8 ICP-MS	mg/L	LT 0.002			LT 0.002			0.00333			LT 0.002		
Copper, total	M200.8 ICP-MS	mg/L												
Cyanide, total	M335.4 - Colorimetri	mg/L												
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	7.46	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01
Fluoride	SM4500F-C	mg/L	0.72			0.64			LT 0.7			0.68		
Gross Alpha	M900.0	pCi/L	7.8			0.18			1			2.4		
Gross Beta	M900.0	pCi/L	5.9			2			4.3			2.6		
Hardness as CaCO3	SM2340B - Calculatio	mg/L	82			63			52			81		
Hydroxide as CaCO3	SM2320B - Titration	mg/L	LT 20			LT 20			LT 20			LT 20		
Iron, dissolved	M200.7 ICP	mg/L	0.292	0.345	0.381	0.198	0.241	0.212	0.259	0.364	0.328	0.375	0.380	0.240
Iron, total	M200.7 ICP	mg/L												
Iron, total recoverable	M200.7 ICP	mg/L	0.889	0.632	0.660	0.949	1.61	1.98	2.25	2.60	0.680	0.754	0.767	0.774
Lead, dissolved	M200.8 ICP-MS	mg/L												
Lead, potentially dissolved	M200.8 ICP-MS	mg/L	LT 0.0005			LT 0.0005			0.00081			LT 0.0005		
Lead, total	M200.8 ICP-MS	mg/L												
Magnesium, dissolved	M200.7 ICP	mg/L	5.37			4.06			3.43			5.12		
Magnesium, total	M200.7 ICP	mg/L												
Manganese, dissolved	M200.7 ICP	mg/L	0.147	0.156	0.177	0.084	0.080	0.080	LT 0.05	0.050	LT 0.05	LT 0.05	0.066	0.119
Manganese, total	M200.7 ICP	mg/L												
Manganese, total	M200.7 ICP	mg/L	0.179	0.165	0.171	0.117	0.118	0.129	0.128	0.090	0.055	LT 0.05	0.078	0.124
Mercury, dissolved	M245.1 CVAA	mg/L												
Mercury, total	M245.1 CVAA	mg/L	LT 0.001			LT 0.001			LT 0.001			LT 0.001		
Nickel, dissolved	M200.7 ICP	mg/L												
Nickel, dissolved	M200.8 ICP-MS	mg/L	LT 0.001			LT 0.001			LT 0.001			LT 0.001		
Nickel, total	M200.7 ICP	mg/L												
Nitrate/Nitrite as N	M353.2 - H2SO4 prese	mg/L												
Nitrogen, ammonia	M350.1 Auto Salicyla	mg/L	LT 0.2			LT 0.2			LT 0.2			LT 0.2		
Oil and Grease	1664A/B - Gravimetri	mg/L	LT 10.1			LT 10.1			LT 9.4			LT 9.3		
Potassium, total	M200.7 ICP	mg/L	1.12			1.07			1.28			1.27		
Residue, Filterable (TDS)	SM2540C	mg/L												
Residue, Non-Filterable	SM2540D	mg/L	LT 20			23.0			122			LT 20		
Selenium, dissolved	M200.8 ICP-MS	mg/L	LT 0.00025			LT 0.00025			LT 0.00025			LT 0.00025		
Selenium, total	M200.8 ICP-MS	mg/L												
Silica, total	M200.7 ICP	mg/L	15.3			12.7			16.6			13.6		
Silver, dissolved	M200.8 ICP-MS	mg/L												
Silver, potentially dissolved	M200.8 ICP-MS	mg/L	LT 0.0005			LT 0.0005			LT 0.0005			LT 0.0005		
Silver, total	M200.8 ICP-MS	mg/L												
Sodium, total	M200.7 ICP	mg/L	8.28			6.04			3.49			5.86		
Sulfate	M300.0 - Ion Chromat	mg/L	14.7	12.5	15.7	10.00	6.75	4.12	4.48	4.31	9.36	6.74	14.4	18.5
Total Alkalinity	SM2320B - Titration	mg/L	80.4			75.2			54.4			82.0		
Zinc, dissolved	M200.7 ICP	mg/L												
Zinc, potentially dissolved	M200.8 ICP-MS	mg/L	LT 0.015			LT 0.015			LT 0.015			LT 0.015		
Zinc, total	M200.7 ICP	mg/L												

Definitions:
LT = Less Than Reporting Limit

Notes:
None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

		Sample Date:	M-10				M-11R				
Analyte	Analysis Method	Units	2021-01-06	2021-04-12	2021-07-08	2021-10-12	2021-01-05	2021-02-01	2021-03-01	2021-04-06	2021-05-03
Aluminum, dissolved	M200.7 ICP	mg/L	LT 0.25	LT 0.25	LT 0.25	LT 0.25	LT 0.25			LT 0.25	
Arsenic, dissolved	M200.8 ICP-MS	mg/L	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001			LT 0.001	
Barium, dissolved	M200.7 ICP	mg/L	0.122	0.125	0.130	0.116	0.0528			0.0375	
Bicarbonate as CaCO3	SM2320B - Titration	mg/L	213	237	226	203	171			184	
Cadmium, dissolved	M200.7 ICP	mg/L	LT 0.025	LT 0.025	LT 0.025	LT 0.025	LT 0.025			LT 0.025	
Calcium, total	M200.7 ICP	mg/L	69.3	72.7	77.9	72.5	87.5	72.8	71.8	66.5	71.1
Carbonate as CaCO3	SM2320B - Titration	mg/L	LT 20	LT 20	LT 20	LT 20	LT 20			LT 20	
Chloride	M300.0 - Ion Chromat	mg/L	2.90	3.13	LT 4	3.20	4.25			LT 10	
Chromium, dissolved	M200.7 ICP	mg/L	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05			LT 0.05	
Copper, dissolved	M200.7 ICP	mg/L	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05			LT 0.05	
Copper, dissolved	M200.8 ICP-MS	mg/L					LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L	LT 0.01	LT 0.01	LT 0.01	LT 0.01	LT 0.01			LT 0.01	
Fluoride	M300.0 - Ion Chromat	mg/L	0.965	1.03	1.07	1.07	0.846	1.01	1.02	0.900	0.998
Gross Alpha	M900.0	pCi/L	0.82	1.2	5.8	3.2	3.6			3.5	
Gross Beta	M900.0	pCi/L	6	3.8	7.6	1.4	3.6			4.7	
Hardness as CaCO3 (total)	SM2340B - Calculatio	mg/L	211	222	237	219	286			215	
Hydroxide as CaCO3	SM2320B - Titration	mg/L	LT 20	LT 20	LT 20	LT 20	LT 20			LT 20	
Iron, dissolved	M200.7 ICP	mg/L	1.14	1.03	0.929	1.05	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15
Lead, dissolved	M200.7 ICP	mg/L	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15			LT 0.15	
Magnesium, total	M200.7 ICP	mg/L	9.18	9.73	10.2	9.27	16.3			12.0	
Manganese, dissolved	M200.7 ICP	mg/L	0.842	0.849	0.733	0.815	0.272	0.203	0.212	0.160	0.142
Mercury, dissolved	M245.1 CVAA	mg/L	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001			LT 0.001	
Nickel, dissolved	M200.8 ICP-MS	mg/L	LT 0.001	LT 0.001	LT 0.001	LT 0.001	LT 0.001			LT 0.001	
Potassium, total	M200.7 ICP	mg/L	1.56	1.55	1.65	1.71	2.18			2.07	
@180C	SM2540C	mg/L	292	296	322	298	396	316	314	306	310
Selenium, dissolved	M200.8 ICP-MS	mg/L	0.00062	0.00035	LT 0.00025	LT 0.00025	LT 0.00025			LT 0.00025	
Silica, total	M200.7 ICP	mg/L	24.5	28.4	26.5	27.6	16.5			14.9	
Silver, dissolved	M200.8 ICP-MS	mg/L	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005			LT 0.0005	
Sodium, total	M200.7 ICP	mg/L	20.6	21.1	21.3	21.0	17.9			14.3	
Sulfate	M300.0 - Ion Chromat	mg/L	35.4	36.2	38.5	31.3 H	145	94.3	95.3	88.6	88.6
Total Alkalinity	SM2320B - Titration	mg/L	213	237	226	221	171			184	
Zinc, dissolved	M200.7 ICP	mg/L	LT 0.05	LT 0.05	LT 0.05	LT 0.05	LT 0.05			LT 0.05	

Definitions:

LT = Less Than Reporting Limit

Notes:

None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

			M-11R						
		Sample Date:	2021-06-01	2021-07-07	2021-08-02	2021-09-01	2021-10-05	2021-11-01	2021-12-06
Analyte	Analysis Method	Units							
Aluminum, dissolved	M200.7 ICP	mg/L		LT 0.25			LT 0.25		
Arsenic, dissolved	M200.8 ICP-MS	mg/L		LT 0.001			LT 0.001		
Barium, dissolved	M200.7 ICP	mg/L		0.0427			0.0445		
Bicarbonate as CaCO3	SM2320B - Titration	mg/L		156			184 H		
Cadmium, dissolved	M200.7 ICP	mg/L		LT 0.025			LT 0.025		
Calcium, total	M200.7 ICP	mg/L	70.1	66.9	75.7	77.5	68.8	66.1	87.4
Carbonate as CaCO3	SM2320B - Titration	mg/L		LT 20			UH		
Chloride	M300.0 - Ion Chromat	mg/L		2.76			2.90 H		
Chromium, dissolved	M200.7 ICP	mg/L		LT 0.05			LT 0.05		
Copper, dissolved	M200.7 ICP	mg/L		LT 0.05			LT 0.05		
Copper, dissolved	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L		LT 0.01			LT 0.01		
Fluoride	M300.0 - Ion Chromat	mg/L	0.991	0.847	0.803	0.923	0.907 H	1.03	0.956
Gross Alpha	M900.0	pCi/L		1.4			3.7		
Gross Beta	M900.0	pCi/L		5.2			4.3		
Hardness as CaCO3 (total)	SM2340B - Calculatio	mg/L		214			226		
Hydroxide as CaCO3	SM2320B - Titration	mg/L		LT 20			UH		
Iron, dissolved	M200.7 ICP	mg/L	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15
Lead, dissolved	M200.7 ICP	mg/L		LT 0.15			LT 0.15		
Magnesium, total	M200.7 ICP	mg/L		11.4			12.2		
Manganese, dissolved	M200.7 ICP	mg/L	0.140	0.133	0.148	0.196	0.186	0.146	0.226
Mercury, dissolved	M245.1 CVAA	mg/L		LT 0.001			LT 0.001		
Nickel, dissolved	M200.8 ICP-MS	mg/L		LT 0.001			LT 0.001		
Potassium, total	M200.7 ICP	mg/L		2.12			2.28		
@180C	SM2540C	mg/L	310	308	326	344	288	298	360
Selenium, dissolved	M200.8 ICP-MS	mg/L		LT 0.00025			LT 0.00025		
Silica, total	M200.7 ICP	mg/L		14.7			14.9		
Silver, dissolved	M200.8 ICP-MS	mg/L		LT 0.0005			LT 0.0005		
Sodium, total	M200.7 ICP	mg/L		12.9			13.9		
Sulfate	M300.0 - Ion Chromat	mg/L	92.1	82.5	94.2	105	83.7 H	83.5	130
Total Alkalinity	SM2320B - Titration	mg/L		156			184 H		
Zinc, dissolved	M200.7 ICP	mg/L		LT 0.05			LT 0.05		

Definitions:

LT = Less Than Reporting Limit

Notes:

None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

			M-16				M-19				
		Sample Date:	2021-01-06	2021-04-12	2021-07-08	2021-10-12	2021-01-05	2021-02-01	2021-03-01	2021-04-06	2021-05-03
Analyte	Analysis Method	Units									
Aluminum, dissolved	M200.7 ICP	mg/L									
Arsenic, dissolved	M200.8 ICP-MS	mg/L									
Barium, dissolved	M200.7 ICP	mg/L									
Bicarbonate as CaCO3	SM2320B - Titration	mg/L									
Cadmium, dissolved	M200.7 ICP	mg/L									
Calcium, total	M200.7 ICP	mg/L	17.8	18.4	18.6	17.8	24.2	26.5	25.4	22.8	22.5
Carbonate as CaCO3	SM2320B - Titration	mg/L									
Chloride	M300.0 - Ion Chromat	mg/L									
Chromium, dissolved	M200.7 ICP	mg/L									
Copper, dissolved	M200.7 ICP	mg/L									
Copper, dissolved	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L									
Fluoride	M300.0 - Ion Chromat	mg/L	0.588	0.609	0.658	0.604	0.942	1.000	1.01	0.913	0.965
Gross Alpha	M900.0	pCi/L									
Gross Beta	M900.0	pCi/L									
Hardness as CaCO3 (total)	SM2340B - Calculatio	mg/L									
Hydroxide as CaCO3	SM2320B - Titration	mg/L									
Iron, dissolved	M200.7 ICP	mg/L	LT 0.15	LT 0.15	LT 0.15	LT 0.15	0.187	0.177	0.165	0.162	0.202
Lead, dissolved	M200.7 ICP	mg/L									
Magnesium, total	M200.7 ICP	mg/L									
Manganese, dissolved	M200.7 ICP	mg/L	LT 0.05	LT 0.05	LT 0.05	LT 0.05	0.331	0.301	0.335	0.314	0.274
Mercury, dissolved	M245.1 CVAA	mg/L									
Nickel, dissolved	M200.8 ICP-MS	mg/L									
Potassium, total	M200.7 ICP	mg/L									
@180C	SM2540C	mg/L	84	86	90	86	110	118	110	110	104
Selenium, dissolved	M200.8 ICP-MS	mg/L									
Silica, total	M200.7 ICP	mg/L									
Silver, dissolved	M200.8 ICP-MS	mg/L									
Sodium, total	M200.7 ICP	mg/L									
Sulfate	M300.0 - Ion Chromat	mg/L	9.25	8.72	9.47	12.2 H	4.97	4.69	6.31	8.42	8.32
Total Alkalinity	SM2320B - Titration	mg/L									
Zinc, dissolved	M200.7 ICP	mg/L									

Definitions:

LT = Less Than Reporting Limit

Notes:

None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

			M-19							M-21	
		Sample Date:	2021-06-01	2021-07-07	2021-08-02	2021-09-01	2021-10-05	2021-11-01	2021-12-06	2021-01-05	2021-02-01
Analyte	**Analysis Method**	**Units**									
Aluminum, dissolved	M200.7 ICP	mg/L									
Arsenic, dissolved	M200.8 ICP-MS	mg/L									
Barium, dissolved	M200.7 ICP	mg/L									
Bicarbonate as CaCO3	SM2320B - Titration	mg/L									
Cadmium, dissolved	M200.7 ICP	mg/L									
Calcium, total	M200.7 ICP	mg/L	18.8	19.2	20.5	20.7	22.1	21.5	24.1	29.5	33.1
Carbonate as CaCO3	SM2320B - Titration	mg/L									
Chloride	M300.0 - Ion Chromat	mg/L									
Chromium, dissolved	M200.7 ICP	mg/L									
Copper, dissolved	M200.7 ICP	mg/L									
Copper, dissolved	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L									
Fluoride	M300.0 - Ion Chromat	mg/L	0.957	0.819	0.783	0.804	0.864 H	0.973	0.969	1.34	1.52
Gross Alpha	M900.0	pCi/L									
Gross Beta	M900.0	pCi/L									
Hardness as CaCO3 (total)	SM2340B - Calculatio	mg/L									
Hydroxide as CaCO3	SM2320B - Titration	mg/L									
Iron, dissolved	M200.7 ICP	mg/L	0.240	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15
Lead, dissolved	M200.7 ICP	mg/L									
Magnesium, total	M200.7 ICP	mg/L									
Manganese, dissolved	M200.7 ICP	mg/L	0.185	0.234	0.231	0.245	0.161	0.208	0.141	0.367	0.358
Mercury, dissolved	M245.1 CVAA	mg/L									
Nickel, dissolved	M200.8 ICP-MS	mg/L									
Potassium, total	M200.7 ICP	mg/L									
@180C	SM2540C	mg/L	98	92	96	96	104	106	102	138	144
Selenium, dissolved	M200.8 ICP-MS	mg/L									
Silica, total	M200.7 ICP	mg/L									
Silver, dissolved	M200.8 ICP-MS	mg/L									
Sodium, total	M200.7 ICP	mg/L									
Sulfate	M300.0 - Ion Chromat	mg/L	8.39	6.30	5.66	4.49	4.81 H	6.19	10.4	13.0	12.8
Total Alkalinity	SM2320B - Titration	mg/L									
Zinc, dissolved	M200.7 ICP	mg/L									

Definitions:

LT = Less Than Reporting Limit

Notes:

None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

		Sample Date:	M-21								
Analyte	**Analysis Method**	**Units**	**2021-03-01**	**2021-04-06**	**2021-05-03**	**2021-06-01**	**2021-07-07**	**2021-08-02**	**2021-09-01**	**2021-10-05**	**2021-11-01**
Aluminum, dissolved	M200.7 ICP	mg/L									
Arsenic, dissolved	M200.8 ICP-MS	mg/L									
Barium, dissolved	M200.7 ICP	mg/L									
Bicarbonate as CaCO3	SM2320B - Titration	mg/L									
Cadmium, dissolved	M200.7 ICP	mg/L									
Calcium, total	M200.7 ICP	mg/L	32.7	30.4	31.9	29.6	29.2	31.8	32.0	31.7	31.3
Carbonate as CaCO3	SM2320B - Titration	mg/L									
Chloride	M300.0 - Ion Chromat	mg/L									
Chromium, dissolved	M200.7 ICP	mg/L									
Copper, dissolved	M200.7 ICP	mg/L									
Copper, dissolved	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L									
Fluoride	M300.0 - Ion Chromat	mg/L	1.55	1.40	1.44	1.32	1.31	1.24	1.49	1.37 H	1.49
Gross Alpha	M900.0	pCi/L									
Gross Beta	M900.0	pCi/L									
Hardness as CaCO3 (total)	SM2340B - Calculatio	mg/L									
Hydroxide as CaCO3	SM2320B - Titration	mg/L									
Iron, dissolved	M200.7 ICP	mg/L	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15	LT 0.15
Lead, dissolved	M200.7 ICP	mg/L									
Magnesium, total	M200.7 ICP	mg/L									
Manganese, dissolved	M200.7 ICP	mg/L	0.383	0.366	0.331	0.272	0.313	0.339	0.359	0.383	0.365
Mercury, dissolved	M245.1 CVAA	mg/L									
Nickel, dissolved	M200.8 ICP-MS	mg/L									
Potassium, total	M200.7 ICP	mg/L									
@180C	SM2540C	mg/L	144	144	140	146	136	144	150	132	138
Selenium, dissolved	M200.8 ICP-MS	mg/L									
Silica, total	M200.7 ICP	mg/L									
Silver, dissolved	M200.8 ICP-MS	mg/L									
Sodium, total	M200.7 ICP	mg/L									
Sulfate	M300.0 - Ion Chromat	mg/L	14.2	12.9	12.2	13.4	10.3	10.4	9.82	10.4 H	11.0
Total Alkalinity	SM2320B - Titration	mg/L									
Zinc, dissolved	M200.7 ICP	mg/L									

Definitions:

LT = Less Than Reporting Limit

Notes:

None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

				M-22				M-24			
		Sample Date:	2021-12-06	2021-01-06	2021-04-12	2021-07-08	2021-10-12	2021-01-05	2021-02-01	2021-03-01	2021-04-06
Analyte	**Analysis Method**	**Units**									
Aluminum, dissolved	M200.7 ICP	mg/L									
Arsenic, dissolved	M200.8 ICP-MS	mg/L									
Barium, dissolved	M200.7 ICP	mg/L									
Bicarbonate as CaCO3	SM2320B - Titration	mg/L									
Cadmium, dissolved	M200.7 ICP	mg/L									
Calcium, total	M200.7 ICP	mg/L	33.7	43.1	41.8	43.8	43.4	87.5	94.5	94.4	88.1
Carbonate as CaCO3	SM2320B - Titration	mg/L									
Chloride	M300.0 - Ion Chromat	mg/L									
Chromium, dissolved	M200.7 ICP	mg/L									
Copper, dissolved	M200.7 ICP	mg/L									
Copper, dissolved	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L									
Fluoride	M300.0 - Ion Chromat	mg/L	1.51	1.40	1.52	1.60	1.51	0.789	0.846	0.901	0.805
Gross Alpha	M900.0	pCi/L									
Gross Beta	M900.0	pCi/L									
Hardness as CaCO3 (total)	SM2340B - Calculatio	mg/L									
Hydroxide as CaCO3	SM2320B - Titration	mg/L									
Iron, dissolved	M200.7 ICP	mg/L	LT 0.15	0.283	0.289	0.369	0.369	4.45	4.42	4.83	4.83
Lead, dissolved	M200.7 ICP	mg/L									
Magnesium, total	M200.7 ICP	mg/L									
Manganese, dissolved	M200.7 ICP	mg/L	0.365	0.168	0.178	0.159	0.168	0.918	0.923	1.01	0.994
Mercury, dissolved	M245.1 CVAA	mg/L									
Nickel, dissolved	M200.8 ICP-MS	mg/L									
Potassium, total	M200.7 ICP	mg/L									
@180C	SM2540C	mg/L	136	188	186	186	186	458	468	464	466
Selenium, dissolved	M200.8 ICP-MS	mg/L									
Silica, total	M200.7 ICP	mg/L									
Silver, dissolved	M200.8 ICP-MS	mg/L									
Sodium, total	M200.7 ICP	mg/L									
Sulfate	M300.0 - Ion Chromat	mg/L	11.1	37.5	35.9	33.9	33.0 H	177	181	182	185
Total Alkalinity	SM2320B - Titration	mg/L									
Zinc, dissolved	M200.7 ICP	mg/L									

Definitions:

LT = Less Than Reporting Limit

Notes:

None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

			M-24								M-26
		Sample Date:	2021-05-03	2021-06-01	2021-07-07	2021-08-02	2021-09-01	2021-10-05	2021-11-01	2021-12-06	2021-01-06
Analyte	Analysis Method	Units									
Aluminum, dissolved	M200.7 ICP	mg/L									
Arsenic, dissolved	M200.8 ICP-MS	mg/L									
Barium, dissolved	M200.7 ICP	mg/L									
Bicarbonate as CaCO3	SM2320B - Titration	mg/L									
Cadmium, dissolved	M200.7 ICP	mg/L									
Calcium, total	M200.7 ICP	mg/L	95.7	90.7	86.0	93.3	92.0	89.1	89.5	91.8	33.6
Carbonate as CaCO3	SM2320B - Titration	mg/L									
Chloride	M300.0 - Ion Chromat	mg/L									
Chromium, dissolved	M200.7 ICP	mg/L									
Copper, dissolved	M200.7 ICP	mg/L									
Copper, dissolved	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L									
Fluoride	M300.0 - Ion Chromat	mg/L	0.800	LT 1.25	0.657	0.619	LT 1.25	0.738 H	LT 1.25	0.830	0.770
Gross Alpha	M900.0	pCi/L									
Gross Beta	M900.0	pCi/L									
Hardness as CaCO3 (total)	SM2340B - Calculatio	mg/L									
Hydroxide as CaCO3	SM2320B - Titration	mg/L									
Iron, dissolved	M200.7 ICP	mg/L	4.50	4.61	4.49	4.78	4.77	5.00	4.77	4.53	0.500
Lead, dissolved	M200.7 ICP	mg/L									
Magnesium, total	M200.7 ICP	mg/L									
Manganese, dissolved	M200.7 ICP	mg/L	0.948	0.942	0.929	0.959	0.956	1.03	0.965	0.943	0.316
Mercury, dissolved	M245.1 CVAA	mg/L									
Nickel, dissolved	M200.8 ICP-MS	mg/L									
Potassium, total	M200.7 ICP	mg/L									
@180C	SM2540C	mg/L	470	468	450	472	468	448	460	440	140
Selenium, dissolved	M200.8 ICP-MS	mg/L									
Silica, total	M200.7 ICP	mg/L									
Silver, dissolved	M200.8 ICP-MS	mg/L									
Sodium, total	M200.7 ICP	mg/L									
Sulfate	M300.0 - Ion Chromat	mg/L	187	182	159	172	162	166 H	179	177	10.2
Total Alkalinity	SM2320B - Titration	mg/L									
Zinc, dissolved	M200.7 ICP	mg/L									

Definitions:

LT = Less Than Reporting Limit

Notes:

None.

Battle Mountain Resources, Inc.
San Luis, Colorado
Analytical Summary Report

			M-26			M-34			
		Sample Date:	2021-04-12	2021-07-08	2021-10-12	2021-01-06	2021-04-12	2021-07-08	2021-10-12
Analyte	Analysis Method	Units							
Aluminum, dissolved	M200.7 ICP	mg/L				LT 0.25	LT 0.25	LT 0.25	LT 0.25
Arsenic, dissolved	M200.8 ICP-MS	mg/L				LT 0.001	LT 0.001	LT 0.001	LT 0.001
Barium, dissolved	M200.7 ICP	mg/L				0.0424	0.0412	0.0442	0.0361
Bicarbonate as CaCO3	SM2320B - Titration	mg/L				69.0	73.7	68.3	77.6
Cadmium, dissolved	M200.7 ICP	mg/L				LT 0.025	LT 0.025	LT 0.025	LT 0.025
Calcium, total	M200.7 ICP	mg/L	34.2	34.0	33.0	20.6	21.1	22.3	21.2
Carbonate as CaCO3	SM2320B - Titration	mg/L				LT 20	LT 20	LT 20	LT 20
Chloride	M300.0 - Ion Chromat	mg/L				2.09	2.26	2.55	2.55
Chromium, dissolved	M200.7 ICP	mg/L				LT 0.05	LT 0.05	LT 0.05	LT 0.05
Copper, dissolved	M200.7 ICP	mg/L				LT 0.05	LT 0.05	LT 0.05	LT 0.05
Copper, dissolved	M200.8 ICP-MS	mg/L	LT 0.002	LT 0.002	LT 0.002				
Cyanide, WAD	SM4500-CN I,E-Colori	mg/L				LT 0.01	LT 0.01	LT 0.01	LT 0.01
Fluoride	M300.0 - Ion Chromat	mg/L	0.849	0.884	0.873	0.443	0.522	0.560	0.530
Gross Alpha	M900.0	pCi/L				0.9	3.8	0.44	2.5
Gross Beta	M900.0	pCi/L				3.4	1.4	2	-0.76
Hardness as CaCO3 (total)	SM2340B - Calculatio	mg/L				72	74	77	73
Hydroxide as CaCO3	SM2320B - Titration	mg/L				LT 20	LT 20	LT 20	LT 20
Iron, dissolved	M200.7 ICP	mg/L	0.473	0.479	0.417	LT 0.15	LT 0.15	LT 0.15	LT 0.15
Lead, dissolved	M200.7 ICP	mg/L				LT 0.15	LT 0.15	LT 0.15	LT 0.15
Magnesium, total	M200.7 ICP	mg/L				4.88	5.07	5.20	4.98
Manganese, dissolved	M200.7 ICP	mg/L	0.319	0.308	0.313	0.207	0.210	0.208	0.209
Mercury, dissolved	M245.1 CVAA	mg/L				LT 0.001	LT 0.001	LT 0.001	LT 0.001
Nickel, dissolved	M200.8 ICP-MS	mg/L				LT 0.001	LT 0.001	LT 0.001	LT 0.001
Potassium, total	M200.7 ICP	mg/L				LT 1	LT 1	LT 1	LT 1
@180C	SM2540C	mg/L	140	148	140	104	106	118	106
Selenium, dissolved	M200.8 ICP-MS	mg/L				0.00234	0.00078	LT 0.00025	LT 0.00025
Silica, total	M200.7 ICP	mg/L				14.5	15.2	14.1	13.4
Silver, dissolved	M200.8 ICP-MS	mg/L				LT 0.0005	LT 0.0005	LT 0.0005	LT 0.0005
Sodium, total	M200.7 ICP	mg/L				7.25	7.59	7.63	7.50
Sulfate	M300.0 - Ion Chromat	mg/L	10.6	10.3	7.87 H	18.3	17.9	18.4	16.2 H
Total Alkalinity	SM2320B - Titration	mg/L				69.0	73.7	68.3	77.6
Zinc, dissolved	M200.7 ICP	mg/L				LT 0.05	LT 0.05	LT 0.05	LT 0.05

Definitions:

LT = Less Than Reporting Limit

Notes:

None.

APPENDIX C

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

April 27, 2021

Colorado Department of Public Health and Environment
Water Quality Control Division
Attn: WQDC-B2 – DMR Receipt
4300 Cherry Creek Drive
Denver, CO 80246-1530

Re: Battle Mountain Resources, Inc.
San Luis Project - San Luis, Colorado
First Quarter 2021 – DMR's, BMP, and WET Testing Reports
CDPHE CDPS Permit No. CO0045675

Dear Sir or Madame:

Please find the enclosed Battle Mountain Resources, Inc. "San Luis Project" (Permit No. CO0045675) Colorado Department of Public Health and Environment-Colorado Discharge Permit System (CDPS) Best Management Practices (BMP) report for permitted outfall 002 for the first quarter 2021. The quarterly BMP report provides the required data associated with groundwater well elevations, the quarterly potentiometric surface map and groundwater well chemistry.

In addition, the first quarter 2021 Discharge Monitoring Reports (DMRs) were submitted for each of the permitted water treatment plant discharges in the NetDMR System and the WET Testing Reports were attached to the appropriate DMR submittal in NetDMR. These permitted discharges consist of water treatment plant Discharge Numbers 001-A and 001-B. During the quarter, the maximum 30-day average flow was 0.24 million gallons of water discharged per day, therefore the applicable permit criteria for the reporting period is associated with discharge number 001-B.

Should any questions arise or if I can be of any assistance providing clarification, please call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Tim Runnells, Engineering Analytics
Alan Fosdick, Engineering Analytics

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

April 27, 2021

Colorado Department of Public Health and Environment
Water Quality Control Division
Attn: WQDC-B2 – DMR Receipt
4300 Cherry Creek Drive
Denver, CO 80246-1530

Re: Battle Mountain Resources, Inc.
San Luis Project
First Quarter 2021 BMP Report
CDPHE CDPS Permit No. CO0045675

Dear Sir or Madame:

In accordance with and compliance of the permit limitations and permit terms and conditions contained in Part I, Section 5 Discharge Point 002: (Permit Limitations, Best Management Practices, and Schedule of Compliance of the *State of Colorado Authorization to Discharge Under the Colorado Discharge Permit System*, Battle Mountain Resources, Inc. submits the following *Quarterly Best Management Practices Report.*

In accordance with the Water Quality Control Commission Regulations for Effluent Limitations, Section 62.4, and the Colorado Discharge Permit System Regulations, Sections 61.8(2), 61.8(3)(n), and 61.8(3)(r), 5 C.C.R. 1002-61, the permittee shall continue to implement the following limitations, compliance schedules, and Best Management Practices (BMPs).

The attainment of applicable water quality standards will be implemented and evaluated through the application of the following limitations, compliance schedules, and BMPs that are designed to monitor and control the groundwater quality and quantity discharging from the West Pit to the Rito Seco alluvial aquifer.

Specifically, the limitations, compliance schedules, and BMPs are those activities that address contaminated groundwater that may flow into the Rito Seco. This includes: (1) the potential flow of the affected groundwater from the West Pit that, in the past, manifested itself in the formation of the surface seeps along the arroyo sidewall of the Rito Seco, and (2) the plume of affected groundwater within the Rito Seco alluvial aquifer downgradient of the West Pit that flows along the naturally occurring hydraulic gradient and that may flow into the Rito Seco. The activities will include the following specific requirements:

1) The elevation of the groundwater table in the vicinity of the West Pit shall be measured on a weekly basis at the following locations: (i) the West Pit backfill wells BF-4 and BF-5 and (ii) the Rito Seco alluvial wells M-16 and M-20, as shown in Figure 3 of the permit, for purposes of determining the performance of the "pump and treat" system that regulates the flow and quality of the groundwater in the seepage front. The permittee shall

also determine on a quarterly basis the elevations of the groundwater table at BF-3, BF-4, BF-5, BF-6, M-11R, M-16, M-17, M-18, M-19, M-20, M-21, M-22, M-23, M-24, M-25, M-26, M-27, M-28, M-29, M-30, M-31, M-32, and M-33 for the purpose of developing a groundwater potentiometric map as monitoring confirmation of the groundwater flow direction. The quarterly data regarding depth to groundwater and groundwater potentiometric surface map will be submitted to the WQCD with the BMP report as described.

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the weekly West Pit backfill and alluvial wells as required under Paragraph 1 of the specific requirements. Measurements obtained for the weekly West Pit backfill wells (BF-4 and BF-5R) and alluvial wells (M-16 and M-20) are shown in Table 1. The quarterly groundwater elevations required under Paragraph 1 were also measured and are shown in Table 2. A potentiometric surface map, developed by Engineering Analytics, is shown in Figure 1. The groundwater table elevations and potentiometric map confirm that the groundwater flow gradient during the first quarter of 2021 was from the Rito Seco to the West Pit. No corrective action is required under Paragraph 1 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 1 – Weekly Groundwater Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)
BF-4	01/06/2021	8579.24
	01/13/2021	8579.21
	01/20/2021	8579.20
	01/27/2021	8579.21
	02/03/2021	8579.24
	02/10/2021	8579.22
	02/17/2021	8579.24
	02/24/2021	8579.23
	03/03/2021	8579.22
	03/10/2021	8579.26
	03/17/2021	8579.27
	03/24/2021	8579.33
	03/31/2021	8579.33
BF-5R	01/06/2021	8579.05
	01/13/2021	8579.04
	01/20/2021	8579.05
	01/27/2021	8579.05
	02/03/2021	8579.05
	02/10/2021	8579.05
	02/17/2021	8579.06
	02/24/2021	8579.06
	03/03/2021	8579.05
	03/10/2021	8579.08
	03/17/2021	8579.09
	03/24/2021	8579.12
	03/31/2021	8579.10

Table 1 – Weekly Groundwater Elevations (continued)

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)
M-16	01/06/2021	8600.35
	01/13/2021	8600.26
	01/20/2021	8600.24
	01/27/2021	8600.18
	02/03/2021	8600.19
	02/10/2021	8600.15
	02/17/2021	8600.21
	02/24/2021	8600.23
	03/03/2021	8600.27
	03/10/2021	8599.82
	03/17/2021	8600.36
	03/24/2021	8600.51
	03/31/2021	8600.52
M-20	01/06/2021	8580.10
	01/13/2021	8580.07
	01/20/2021	8580.06
	01/27/2021	8579.99
	02/03/2021	8579.97
	02/10/2021	8580.00
	02/17/2021	8580.06
	02/24/2021	8580.07
	03/03/2021	8580.09
	03/10/2021	8580.07
	03/17/2021	8579.74
	03/24/2021	8580.59
	03/31/2021	8580.68

Table 2 – Quarterly Groundwater Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)
BF-3	01/28/2021	8578.06
BF-4	01/28/2021	8579.21
BF-5R	01/28/2021	8579.05
BF-6	01/28/2021	8578.96
M-11R	01/28/2021	8551.30
M-16	01/28/2021	8600.18
M-17	01/28/2021	8586.56
M-18	01/28/2021	8579.24
M-19	01/28/2021	8580.32
M-20	01/28/2021	8579.99
M-21	01/28/2021	8576.99
M-22	01/28/2021	8572.77
M-23	01/28/2021	8556.87
M-24	01/28/2021	8560.04
M-25	01/28/2021	DRY
M-26	01/28/2021	8544.38
M-27	01/28/2021	DRY
M-28	01/28/2021	8579.65
M-29	01/28/2021	8580.23
M-30	01/28/2021	8609.95
M-31	01/28/2021	8550.89
M-32	01/28/2021	8532.97
M-33	01/28/2021	8534.84

2) The weekly groundwater table elevation data shall be tabulated and reported on the quarterly BMP reports, and the data will be used to evaluate compliance with the following permit limitations.

The groundwater table elevation, based on the average of all measured values for each calendar month in the West Pit backfill groundwater monitoring wells BF-4 and BF-5, must be equal to or lower than an elevation of 8582 feet above sea level (ft. amsl).

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the West Pit backfill monitoring wells (BF-4 and BF-5R) weekly and the measurements are shown in Table 1. The groundwater measurements for wells BF-4 and BF-5R were averaged by calendar month and the results are shown in Table 3. The January, February, March 2021 averages were below the 8582 ft. amsl required in Paragraph 2. No corrective action is required under the Paragraph 2 requirement and schedule compliance monitoring will continue unchanged next quarter.*

Table 3 – Quarterly West Pit Backfill Monthly Average Groundwater Table Elevations

Monitoring Well Identification	Month (2021)	Number of Observations	Average Monthly Groundwater Elevation (ft amsl)
BF-4	January	4	8579.22
	February	4	8579.23
	March	5	8579.28
BF-5R	January	4	8579.05
	February	4	8579.06
	March	5	8579.09

3) If the average monthly groundwater table elevation in the West Pit backfill for any calendar month, measured as described in the above paragraph, is greater than 8582 ft. amsl or the quarterly determination of the groundwater potentiometric surface map indicates that the flow of the groundwater is from the West Pit to the Rito Seco alluvium, the permittee shall verbally communicate such condition to WQCD within 24 hours of the determination of the condition (elevated West Pit backfill table or groundwater flow from the West Pit as indicated by the quarterly groundwater potentiometric surface map) and initiate the following compliance schedule.

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the West Pit backfill monitoring wells (BF-4 and BF-5R) weekly and the calendar month average groundwater measurement elevations (Table 3) were below the 8582 ft. amsl required in Paragraph 2. The January 28, 2021, potentiometric surface map (Figure 1) shows the groundwater flow gradient was from the Rito Seco alluvium to the West Pit backfill. Therefore, site operations demonstrated the West Pit backfill groundwater level was maintained at or below an elevation of 8582 ft. amsl through the quarter. Therefore, no requirement(s) to initiate actions contained within the schedule of compliance for Section 5.3 is required.*

4) The quality of groundwater in the vicinity of the West Pit shall be monitored on a monthly basis in the Rito Seco alluvial groundwater monitoring wells M-19, M-21, M-24 and M-11R for the purposes of monitoring the changes in the quality of the plume or affected groundwater in the Rito Seco alluvial aquifer. Groundwater quality in these monitoring wells will be analyzed for pH, temperature, total dissolved solids, calcium, sulfate, manganese, fluoride, copper, and iron for the purpose of evaluating the status of the groundwater quality in the downgradient groundwater plume. The groundwater quality data will be summarized and transmitted to the WQCD in the quarterly BMP report required under Part I, Section E.1 of this permit.

Compliance Action Taken: *Battle Mountain Resources, Inc. collected monthly groundwater samples in the vicinity of the West Pit backfill area from Rito Seco alluvial monitoring wells M-19, M-21, M-24 and M-11R. No corrective action is required under the Paragraph 4 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 4 – Rito Seco Alluvial Groundwater Quality Summary

Analyte	Reporting Units	Sample Date	Monitoring Well Identifier			
			M-11R	M-19	M-21	M-24
pH	SU	01/05/2021	7.11	6.53	6.63	7.04
		02/01/2021	7.33	6.59	7.05	7.11
		03/01/2021	7.24	6.56	6.83	6.98
Temperature	°C	01/05/2021	9.4	9.6	8.1	8.4
		02/01/2021	9.4	9.6	7.9	8.3
		03/01/2021	9.4	8.4	8.1	8.2
Calcium, Total	mg/L	01/05/2021	68.6	23.4	31.4	93.3
		02/01/2021	69.8	25.1	31.9	92.7
		03/01/2021	69.8	24.6	31.3	91.6
Copper, Dissolved	mg/L	01/05/2021	87.5	24.2	29.5	87.5
		02/01/2021	72.8	26.5	33.1	94.5
		03/01/2021	71.8	25.4	32.7	94.4
Fluoride	mg/L	01/05/2021	LT 0.002	LT 0.002	LT 0.002	LT 0.002
		02/01/2021	LT 0.002	LT 0.002	LT 0.002	LT 0.002
		03/01/2021	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Iron, Dissolved	mg/L	01/05/2021	0.846	0.942	1.34	0.789
		02/01/2021	1.01	1.000	1.52	0.846
		03/01/2021	1.02	1.01	1.55	0.901
Manganese, Dissolved	mg/L	01/05/2021	LT 0.15	0.187	LT 0.15	4.45
		02/01/2021	LT 0.15	0.177	LT 0.15	4.42
		03/01/2021	LT 0.15	0.165	LT 0.15	4.83
Sulfate	mg/L	01/05/2021	145	4.97	13.0	177
		02/01/2021	94.3	4.69	12.8	181
		03/01/2021	95.3	6.31	14.2	182
Total Dissolved Solids	mg/L	01/05/2021	396	110	138	458
		02/01/2021	316	118	144	468
		03/01/2021	314	110	144	464

5) The historical seeps were caused by the plume of affected groundwater and may, in the future, also be caused by natural variation in the flow of groundwater in the vicinity of the area where the past seeps occurred. The permittee shall conduct a monthly visual inspection of the area of historical seeps and the permittee shall report any seepage flow that is associated with the area historic seepage expression, as is identified in Figure 2 of the permit. Results of the seep monitoring shall be tabulated and summarized in the quarterly BMP report.

   If these inspections identified the occurrence of seeps, the permittee will be required to communicate verbally to the WQCD within 24 hours of the seepage observation, followed by written notification within 7 calendar days of the seepage observation. Verbal updates will then be provided to the WQCD every second day thereafter until the WQCD has made a determination regarding the status of the West Pit groundwater control system through the implementation of the following compliance schedule.

Compliance Action Taken: *Battle Mountain Resources, Inc. performed monthly visual seepage expression inspections in the historic seepage area identified in Figure 2 of the permit. Visual observations during these inspections are shown in Table 5. No seepage expressions were observed in the historic seepage area during the first quarter of 2021. Therefore, no verbal or written notifications were required and the implementation of the compliance schedule was not required. No corrective action is required under the Paragraph 5 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 5 – Monthly Seepage Expression Inspection Tabulation

Visual Inspection Date	Was Visual Observation of Seepage Determined in the Area of the Historic Seepage Expression	Comments
01/28/2021	No	All Dry
02/25/2021	No	All Dry
03/31/2021	No	All Dry

6) The BMP for the groundwater flow downgradient from the groundwater divide (see section VI.A.2 for the Rationale) that has been developed in the Rito Seco alluvial aquifer consists of a groundwater capture system in conjunction with groundwater table elevation control in the West Pit. The water management plan for the Rito Seco alluvial aquifer consists of pumping two groundwater capture wells (M-32 and M-33) located downgradient of the plume of affected groundwater. This action will allow flushing of constituents in the groundwater of the Rito Seco alluvial aquifer in that portion (plume) of the aquifer affected by previous flow of groundwater from the West Pit. Measurements of the groundwater table elevations will be taken on a weekly basis from M-32 and M-33. This data shall be tabulated and reported for outfall 002 on the quarterly BMP report, and the data will be used to evaluate compliance with the following permit limitation.

   The groundwater table elevation, based on the average of all measured values for each calendar month at M-32 and M-33 in the Rito Seco alluvial aquifer, must be equal to or lower than an elevation of 8540 ft. amsl.

   If the average monthly groundwater table elevations measured in the Rito Seco alluvial aquifer at M-32 and M-33 is greater than 8540 ft. amsl, the permitee shall initiate the following compliance schedule within 24 hours of the determination of groundwater table elevation exceedance.

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the alluvial aquifer monitoring wells (M-32 and M-33) weekly and the resulting elevations are presented in Table 6. The groundwater elevations for wells M-32 and M-33 were averaged by calendar month and the results are shown in Table 6. The January, February, March 2021 averages were below the 8540 ft. amsl required under Paragraph 6. Therefore, site operations were in full compliance of Part I, Section 5.5 and there were no requirements(s) to initiate actions contained within the schedule of compliance for Section 5.5. No corrective action is required under Paragraph 6 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 6 – Weekly/Monthly Rito Seco Alluvial Aquifer Average Groundwater Table Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)	Month (2021)	Average Monthly Groundwater Elevation (ft amsl)
M-32	01/06/2021	8532.75	January	8533.06
	01/13/2021	8533.32		
	01/20/2021	8533.26		
	01/27/2021	8532.99		
	01/28/2021	8532.97		
	02/03/2021	8533.45	February	8532.70
	02/10/2021	8533.26		
	02/17/2021	8532.34		
	02/24/2021	8532.07		
	02/25/2021	8532.37		

Table 6 (Cont) – Weekly/Monthly Rito Seco Alluvial Aquifer Average Groundwater Table Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)	Month (2021)	Average Monthly Groundwater Elevation (ft amsl)
M-32	03/03/2021	8532.52	March	8532.77
	03/10/2021	8532.29		
	03/17/2021	8532.76		
	03/24/2021	8532.84		
	03/31/2021	8533.45		
M-33	01/06/2021	8532.50	January	8534.24
	01/13/2021	8534.35		
	01/20/2021	8534.68		
	01/27/2021	8534.81		
	01/28/2021	8534.84		
	02/03/2021	8534.99	February	8535.06
	02/10/2021	8535.01		
	02/17/2021	8535.09		
	02/24/2021	8535.12		
	02/25/2021	8535.09		
	03/03/2021	8535.17	March	8535.81
	03/10/2021	8535.30		
	03/17/2021	8535.98		
	03/24/2021	8536.25		
	03/31/2021	8536.37		

7) The water quality of the Rito Seco will be assessed using surface water quality collected at RS-2, as shown in Figure 3. Surface water monitoring in the Rito Seco shall be conducted at RS-2 on a monthly basis and the laboratory analytical results shall be submitted to the WQCD in the quarterly BMP report. Water quality samples collected at RS-2 shall be analyzed for the following constituents: calcium, magnesium, sodium, potassium, ammonia, total dissolved solids, total hardness, pH, total suspended solids, cyanide (WAD and total), bicarbonate, alkalinity, chloride, sulfate, nitrate-nitrite, fluoride and the total and dissolved concentrations of aluminum, arsenic, barium, boron, cadmium, copper, chromium, iron, lead, manganese, mercury, nickel, selenium, silica, silver and zinc. The following compliance schedule shall be implemented in the event that any constituent exceeds the applicable water quality standards for the Rito Seco.

Compliance Action Taken: *Battle Mountain Resources, Inc. collected monthly surface water samples in January, February, March 2021 at location RS-2, as shown in Figure 3 of the permit. Results of analyses performed on these samples are shown in Table 7. The results of the laboratory analytical testing show that the applicable water quality standards were met for the Rito Seco during the months of January, February, March 2021. Site operations were in full compliance of Part I, Section 5.7 and there was no requirement(s) to initiate actions contained within the schedule of compliance for Section 5.7. Scheduled compliance monitoring will continue unchanged next quarter.*

Table 7 – RS-2 Surface Water Quality Results

Analyte	Reporting Units	01/04/2021	02/01/2021	03/01/2021
Alkalinity	mg/L as $CaCO_3$	63.2	62.1	62.0
Aluminum, Dissolved	mg/L	LT 0.25	LT 0.25	LT 0.25
Aluminum, Total	mg/L	LT 0.25	0.326	LT 0.25
Ammonia as N	mg/L	LT 0.2	LT 0.2	LT 0.2
Arsenic, Dissolved	mg/L	LT 0.001	LT 0.001	LT 0.001
Arsenic, Total	mg/L	LT 0.001	LT 0.001	LT 0.001
Barium, Dissolved	mg/L	LT 0.035	LT 0.035	LT 0.035
Barium, Total	mg/L	LT 0.035	LT 0.035	LT 0.035
Bicarbonate as CaCO3	mg/L	63.2	62.1	62.0
Boron, Dissolved	mg/L	LT 0.1	LT 0.1	LT 0.1
Boron, Total	mg/L	LT 0.1	LT 0.1	LT 0.1
Cadmium, Dissolved	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Cadmium, Total	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Calcium, Total	mg/L	18.5	18.0	18.5
Carbonate as CaCO3	mg/L	LT 20	LT 20	LT 20
Chloride	mg/L	LT 2	LT 2	LT 2
Chromium, Dissolved	mg/L	LT 0.002	LT 0.002	LT 0.002
Chromium, Total	mg/L	LT 0.002	LT 0.002	LT 0.002
Copper, Dissolved	mg/L	LT 0.002	LT 0.002	LT 0.002
Copper, Total	mg/L	LT 0.002	0.00278	LT 0.002
Cyanide, Total	mg/L	LT 0.01	LT 0.01	LT 0.01
Cyanide, WAD	mg/L	LT 0.01	LT 0.01	LT 0.01
Fluoride	mg/L	0.59	0.62	0.64
Hardness as CaCO3	mg/L	62	61	64
Iron, Dissolved	mg/L	LT 0.15	0.162	0.163
Iron, Total	mg/L	0.395	0.642	0.888
Lead, Dissolved	mg/L	LT 0.0005	LT 0.0005	LT 0.0005
Lead, Total	mg/L	LT 0.0005	LT 0.0005	LT 0.0005
Magnesium, Total	mg/L	4.58	4.62	4.75
Manganese, Dissolved	mg/L	LT 0.05	LT 0.05	LT 0.05
Manganese, Total	mg/L	LT 0.05	0.062	LT 0.05
Mercury, Dissolved	mg/L	LT 0.001	LT 0.001	LT 0.001
Mercury, Total	mg/L	LT 0.001	LT 0.001	LT 0.001
Nickel, Dissolved	mg/L	LT 0.001	LT 0.04	LT 0.04
Nickel, Total	mg/L	LT 0.04	LT 0.04	LT 0.04
Nitrate+Nitrite as N	mg/L	LT 0.1	LT 0.1	LT 0.1
pH	SU	7.05	7.02	6.93
Potassium, Total	mg/L	LT 1	1.01	LT 1
Selenium, Dissolved	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Selenium, Total	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Silica, Total	mg/L	13.1	12.8	12.1
Silver, Dissolved	mg/L	LT 0.0005	LT 0.0005	LT 0.0005
Silver, Total	mg/L	LT 0.0005	LT 0.0005	LT 0.0005
Sodium, Total	mg/L	4.95	4.74	5.34
Sulfate	mg/L	7.43	6.75	8.61
Total Dissolved Solids	mg/L	90	92	92
Total Suspended Solids	mg/L	LT 20	LT 20	LT 20
Zinc, Dissolved	mg/L	LT 0.05	LT 0.05	LT 0.05
Zinc, Total	mg/L	LT 0.05	LT 0.05	LT 0.05

8) If any component of the groundwater control system is not performing within the limits set forth in this permit, the permittee will be required to initiate appropriate compliance schedule activities, including the preparation of a response plan, for any and all components of the groundwater control system that do not meet the applicable

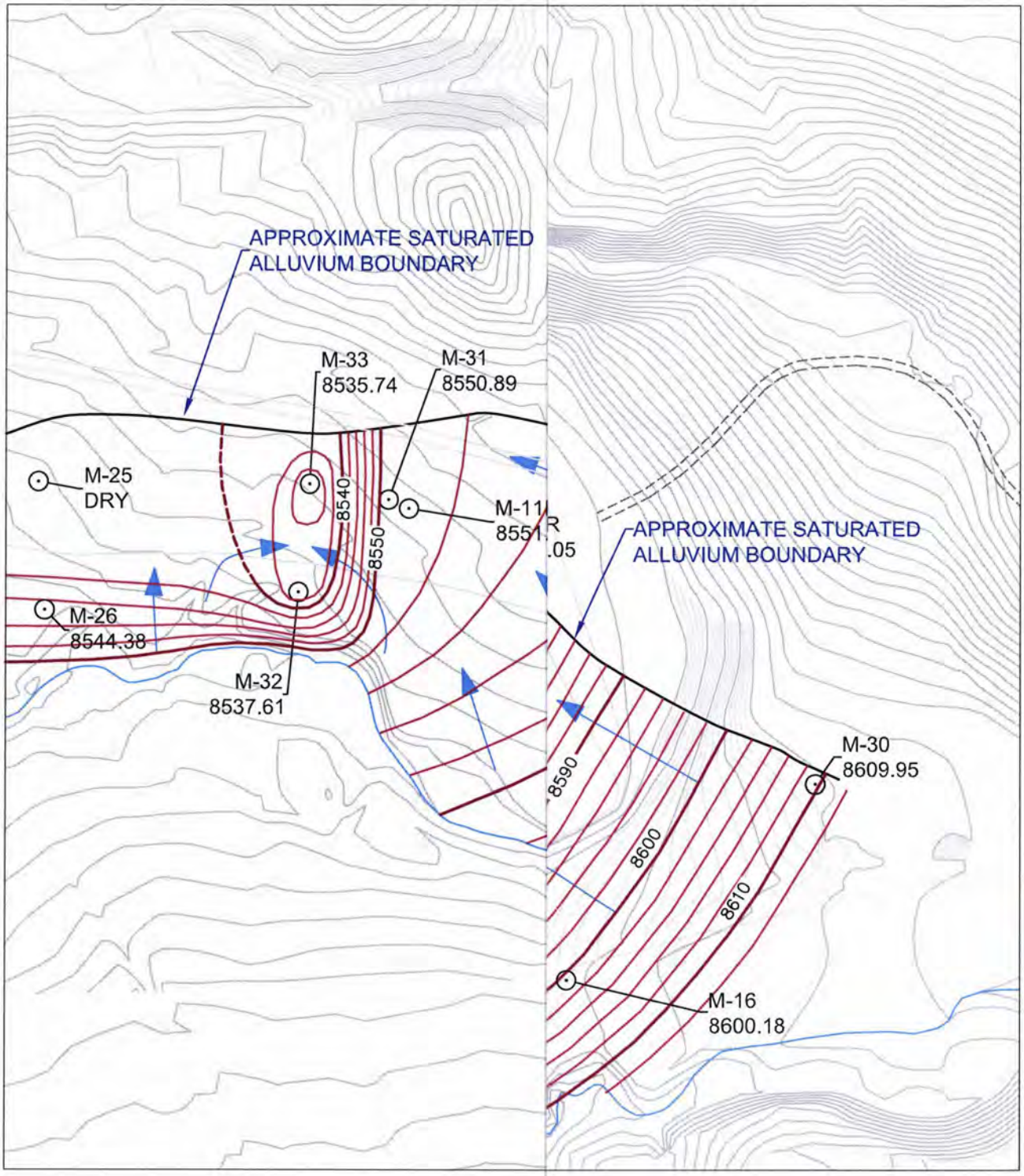
requirements. The permittee shall also conduct weekly sampling at RS-2 until such time as the other compliance schedule activity(ies) have been completed.

Compliance Action Taken: *As demonstrated by the information and data presented in this report, all components of the groundwater control system performed within the limits set forth in the permit. Therefore, site operations were in full compliance of Part I, Section 8 and there was no requirement(s) to initiate actions contained within the schedule of compliance for Section 8.*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is to the best of my knowledge and belief, is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Julio Madrid Signature: Julio Madrid

Date: April 27, 2021



NORTH

SCALE IN FEET
0 200

WELL NAME
-23
55.72
WATER LEVEL

NO	REVISION DESCR.	DATE	BY
A			
B			
C			
1			
2			

ALLUVIAL GROUND WATER
POTENTIOMETRIC SURFACE MAP
FIRST QUARTER (JANUARY 2021)

SAN LUIS PROJECT

ISSUED BY
Engineering Analytics, Inc.

Drawn By:	RDP
Designed By:	AF
Approved By:	AF
Date:	04/28/2021
Project:	210105:06
Scale:	1" = 200'
Sheet Number:	1

C:\05 San Luis\POTENTIOMETRIC MAPS\GW Map 2021 1st qtr\Groundwater 2021 1st Qtr.dwg SAVED: 4/28/21 PRINTED: 4/28/21

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

July 27, 2021

Colorado Department of Public Health and Environment
Water Quality Control Division
Attn: WQDC-B2 – DMR Receipt
4300 Cherry Creek Drive
Denver, CO 80246-1530

Re: Battle Mountain Resources, Inc.
San Luis Project - San Luis, Colorado
Second Quarter 2021 – DMR's, BMP, and WET Testing Reports
CDPHE CDPS Permit No. CO0045675

Dear Sir or Madame:

Please find the enclosed Battle Mountain Resources, Inc. "San Luis Project" (Permit No. CO0045675) Colorado Department of Public Health and Environment-Colorado Discharge Permit System (CDPS) Best Management Practices (BMP) report for permitted outfall 002 for the second quarter 2021. The quarterly BMP report provides the required data associated with groundwater well elevations, the quarterly potentiometric surface map and groundwater well chemistry.

In addition, the second quarter 2021 Discharge Monitoring Reports (DMRs) were submitted for each of the permitted water treatment plant discharges in the NetDMR System and the WET Testing Reports were attached to the appropriate DMR submittal in NetDMR. These permitted discharges consist of water treatment plant Discharge Numbers 001-A and 001-B. During the quarter, the maximum 30-day average flow was 0.31 million gallons of water discharged per day, therefore the applicable permit criteria for the reporting period is associated with discharge number 001-B.

Should any questions arise or if I can be of any assistance providing clarification, please call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Tim Runnells, Engineering Analytics
Alan Fosdick, Engineering Analytics

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

July 27, 2021

Colorado Department of Public Health and Environment
Water Quality Control Division
Attn: WQDC-B2 – DMR Receipt
4300 Cherry Creek Drive
Denver, CO 80246-1530

Re: Battle Mountain Resources, Inc.
San Luis Project
Second Quarter 2021 BMP Report
CDPHE CDPS Permit No. CO0045675

Dear Sir or Madame:

In accordance with and compliance of the permit limitations and permit terms and conditions contained in Part I, Section 5 Discharge Point 002: (Permit Limitations, Best Management Practices, and Schedule of Compliance of the *State of Colorado Authorization to Discharge Under the Colorado Discharge Permit System*, Battle Mountain Resources, Inc. submits the following *Quarterly Best Management Practices Report.*

In accordance with the Water Quality Control Commission Regulations for Effluent Limitations, Section 62.4, and the Colorado Discharge Permit System Regulations, Sections 61.8(2), 61.8(3)(n), and 61.8(3)(r), 5 C.C.R. 1002-61, the permittee shall continue to implement the following limitations, compliance schedules, and Best Management Practices (BMPs).

The attainment of applicable water quality standards will be implemented and evaluated through the application of the following limitations, compliance schedules, and BMPs that are designed to monitor and control the groundwater quality and quantity discharging from the West Pit to the Rito Seco alluvial aquifer.

Specifically, the limitations, compliance schedules, and BMPs are those activities that address contaminated groundwater that may flow into the Rito Seco. This includes: (1) the potential flow of the affected groundwater from the West Pit that, in the past, manifested itself in the formation of the surface seeps along the arroyo sidewall of the Rito Seco, and (2) the plume of affected groundwater within the Rito Seco alluvial aquifer downgradient of the West Pit that flows along the naturally occurring hydraulic gradient and that may flow into the Rito Seco. The activities will include the following specific requirements:

1) The elevation of the groundwater table in the vicinity of the West Pit shall be measured on a weekly basis at the following locations: (i) the West Pit backfill wells BF-4 and BF-5 and (ii) the Rito Seco alluvial wells M-16 and M-20, as shown in Figure 3 of the permit, for purposes of determining the performance of the "pump and treat" system that regulates the flow and quality of the groundwater in the seepage front. The permittee shall

also determine on a quarterly basis the elevations of the groundwater table at BF-3, BF-4, BF-5, BF-6, M-11R, M-16, M-17, M-18, M-19, M-20, M-21, M-22, M-23, M-24, M-25, M-26, M-27, M-28, M-29, M-30, M-31, M-32, and M-33 for the purpose of developing a groundwater potentiometric map as monitoring confirmation of the groundwater flow direction. The quarterly data regarding depth to groundwater and groundwater potentiometric surface map will be submitted to the WQCD with the BMP report as described.

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the weekly West Pit backfill and alluvial wells as required under Paragraph 1 of the specific requirements. Measurements obtained for the weekly West Pit backfill wells (BF-4 and BF-5R) and alluvial wells (M-16 and M-20) are shown in Table 1. The quarterly groundwater elevations required under Paragraph 1 were also measured and are shown in Table 2. A potentiometric surface map, developed by Engineering Analytics, is shown in Figure 1. The groundwater table elevations and potentiometric map confirm that the groundwater flow gradient during the second quarter of 2021 was from the Rito Seco to the West Pit. No corrective action is required under Paragraph 1 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 1 – Weekly Groundwater Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)
BF-4	04/07/2021	8579.26
	04/14/2021	8579.28
	04/21/2021	8579.29
	04/28/2021	8579.24
	05/05/2021	8579.31
	05/12/2021	8579.32
	05/19/2021	8579.39
	05/26/2021	8579.17
	06/02/2021	8579.26
	06/09/2021	8579.29
	06/16/2021	8579.28
	06/23/2021	8579.31
	06/30/2021	8579.25
BF-5R	04/07/2021	8579.10
	04/14/2021	8579.04
	04/21/2021	8579.04
	04/28/2021	8579.04
	05/05/2021	8579.07
	05/12/2021	8579.12
	05/19/2021	8579.13
	05/26/2021	8578.98
	06/02/2021	8579.03
	06/09/2021	8579.10
	06/16/2021	8579.08
	06/23/2021	8579.10
	06/30/2021	8579.05

Table 1 – Weekly Groundwater Elevations (continued)

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)
M-16	04/07/2021	8600.62
	04/14/2021	8600.62
	04/21/2021	8600.81
	04/28/2021	8600.94
	05/05/2021	8601.10
	05/12/2021	8601.53
	05/19/2021	8601.68
	05/26/2021	8601.97
	06/02/2021	8602.36
	06/09/2021	8602.64
	06/16/2021	8602.85
	06/23/2021	8602.89
	06/30/2021	8602.83
M-20	04/07/2021	8580.78
	04/14/2021	8580.81
	04/21/2021	8580.87
	04/28/2021	8580.86
	05/05/2021	8580.93
	05/12/2021	8580.01
	05/19/2021	8581.07
	05/26/2021	8581.14
	06/02/2021	8581.09
	06/09/2021	8581.01
	06/16/2021	8580.88
	06/23/2021	8580.65
	06/30/2021	8580.48

Table 2 – Quarterly Groundwater Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)
BF-3	04/29/2021	8578.07
BF-4	04/29/2021	8579.24
BF-5R	04/29/2021	8579.04
BF-6	04/29/2021	8578.96
M-11R	04/29/2021	8551.58
M-16	04/29/2021	8600.94
M-17	04/29/2021	8588.24
M-18	04/29/2021	8579.76
M-19	04/29/2021	8581.55
M-20	04/29/2021	8580.86
M-21	04/29/2021	8577.93
M-22	04/29/2021	8573.35
M-23	04/29/2021	8557.01
M-24	04/29/2021	8560.19
M-25	04/29/2021	8541.57
M-26	04/29/2021	8544.72
M-27	04/29/2021	DRY
M-28	04/29/2021	8580.30
M-29	04/29/2021	8580.67
M-30	04/29/2021	8610.77
M-31	04/29/2021	8551.16
M-32	04/29/2021	8532.16
M-33	04/29/2021	8537.09

2) The weekly groundwater table elevation data shall be tabulated and reported on the quarterly BMP reports, and the data will be used to evaluate compliance with the following permit limitations.

The groundwater table elevation, based on the average of all measured values for each calendar month in the West Pit backfill groundwater monitoring wells BF-4 and BF-5, must be equal to or lower than an elevation of 8582 feet above sea level (ft. amsl).

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the West Pit backfill monitoring wells (BF-4 and BF-5R) weekly and the measurements are shown in Table 1. The groundwater measurements for wells BF-4 and BF-5R were averaged by calendar month and the results are shown in Table 3. The April, May, June 2021 averages were below the 8582 ft. amsl required in Paragraph 2. No corrective action is required under the Paragraph 2 requirement and schedule compliance monitoring will continue unchanged next quarter.*

Table 3 – Quarterly West Pit Backfill Monthly Average Groundwater Table Elevations

Monitoring Well Identification	Month (2021)	Number of Observations	Average Monthly Groundwater Elevation (ft amsl)
BF-4	April	4	8579.27
	May	4	8579.30
	June	5	8579.28
BF-5R	April	4	8579.06
	May	4	8579.08
	June	5	8579.07

3) If the average monthly groundwater table elevation in the West Pit backfill for any calendar month, measured as described in the above paragraph, is greater than 8582 ft. amsl or the quarterly determination of the groundwater potentiometric surface map indicates that the flow of the groundwater is from the West Pit to the Rito Seco alluvium, the permittee shall verbally communicate such condition to WQCD within 24 hours of the determination of the condition (elevated West Pit backfill table or groundwater flow from the West Pit as indicated by the quarterly groundwater potentiometric surface map) and initiate the following compliance schedule.

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the West Pit backfill monitoring wells (BF-4 and BF-5R) weekly and the calendar month average groundwater measurement elevations (Table 3) were below the 8582 ft. amsl required in Paragraph 2. The April 29, 2021, potentiometric surface map (Figure 1) shows the groundwater flow gradient was from the Rito Seco alluvium to the West Pit backfill. Therefore, site operations demonstrated the West Pit backfill groundwater level was maintained at or below an elevation of 8582 ft. amsl through the quarter. Therefore, no requirement(s) to initiate actions contained within the schedule of compliance for Section 5.3 is required.*

4) The quality of groundwater in the vicinity of the West Pit shall be monitored on a monthly basis in the Rito Seco alluvial groundwater monitoring wells M-19, M-21, M-24 and M-11R for the purposes of monitoring the changes in the quality of the plume or affected groundwater in the Rito Seco alluvial aquifer. Groundwater quality in these monitoring wells will be analyzed for pH, temperature, total dissolved solids, calcium, sulfate, manganese, fluoride, copper, and iron for the purpose of evaluating the status of the groundwater quality in the downgradient groundwater plume. The groundwater quality data will be summarized and transmitted to the WQCD in the quarterly BMP report required under Part I, Section E.1 of this permit.

Compliance Action Taken: *Battle Mountain Resources, Inc. collected monthly groundwater samples in the vicinity of the West Pit backfill area from Rito Seco alluvial monitoring wells M-19, M-21, M-24 and M-11R. No corrective action is required under the Paragraph 4 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 4 – Rito Seco Alluvial Groundwater Quality Summary

Analyte	Reporting Units	Sample Date	Monitoring Well Identifier			
			M-11R	M-19	M-21	M-24
pH	SU	04/06/2021	7.14	6.45	6.74	6.95
		05/03/2021	7.15	6.47	6.73	7.02
		06/01/2021	7.27	6.52	6.78	6.98
Temperature	°C	04/06/2021	9.6	8.6	8.3	8.7
		05/03/2021	9.4	7.4	8.7	8.8
		06/01/2021	9.7	6.5	8.3	9.3
Calcium, Total	mg/L	04/06/2021	66.5	22.8	30.4	88.1
		05/03/2021	71.1	22.5	31.9	95.7
		06/01/2021	70.1	18.8	29.6	90.7
Copper, Dissolved	mg/L	04/06/2021	LT 0.002	LT 0.002	LT 0.002	LT 0.002
		05/03/2021	LT 0.002	LT 0.002	LT 0.002	LT 0.002
		06/01/2021	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Fluoride	mg/L	04/06/2021	0.900	0.913	1.40	0.805
		05/03/2021	0.998	0.965	1.44	0.800
		06/01/2021	0.991	0.957	1.32	LT 1.25
Iron, Dissolved	mg/L	04/06/2021	LT 0.15	0.162	LT 0.15	4.83
		05/03/2021	LT 0.15	0.202	LT 0.15	4.50
		06/01/2021	LT 0.15	0.240	LT 0.15	4.61
Manganese, Dissolved	mg/L	04/06/2021	0.160	0.314	0.366	0.994
		05/03/2021	0.142	0.274	0.331	0.948
		06/01/2021	0.140	0.185	0.272	0.942
Sulfate	mg/L	04/06/2021	88.6	8.42	12.9	185
		05/03/2021	88.6	8.32	12.2	187
		06/01/2021	92.1	8.39	13.4	182
Total Dissolved Solids	mg/L	04/06/2021	306	110	144	466
		05/03/2021	310	104	140	470
		06/01/2021	310	98	146	468

5) The historical seeps were caused by the plume of affected groundwater and may, in the future, also be caused by natural variation in the flow of groundwater in the vicinity of the area where the past seeps occurred. The permittee shall conduct a monthly visual inspection of the area of historical seeps and the permittee shall report any seepage flow that is associated with the area historic seepage expression, as is identified in Figure 2 of the permit. Results of the seep monitoring shall be tabulated and summarized in the quarterly BMP report.

   If these inspections identified the occurrence of seeps, the permittee will be required to communicate verbally to the WQCD within 24 hours of the seepage observation, followed by written notification within 7 calendar days of the seepage observation. Verbal updates will then be provided to the WQCD every second day thereafter until the WQCD has made a determination regarding the status of the West Pit groundwater control system through the implementation of the following compliance schedule.

Compliance Action Taken: *Battle Mountain Resources, Inc. performed monthly visual seepage expression inspections in the historic seepage area identified in Figure 2 of the permit. Visual observations during these inspections are shown in Table 5. No seepage expressions were observed in the historic seepage area during the second quarter of 2021. Therefore, no verbal or written notifications were required and the implementation of the compliance schedule was not required. No corrective action is required under the Paragraph 5 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 5 – Monthly Seepage Expression Inspection Tabulation

Visual Inspection Date	Was Visual Observation of Seepage Determined in the Area of the Historic Seepage Expression	Comments
04/29/2021	No	All Dry
05/27/2021	No	All Dry
06/30/2021	No	All Dry

6) The BMP for the groundwater flow downgradient from the groundwater divide (see section VI.A.2 for the Rationale) that has been developed in the Rito Seco alluvial aquifer consists of a groundwater capture system in conjunction with groundwater table elevation control in the West Pit. The water management plan for the Rito Seco alluvial aquifer consists of pumping two groundwater capture wells (M-32 and M-33) located downgradient of the plume of affected groundwater. This action will allow flushing of constituents in the groundwater of the Rito Seco alluvial aquifer in that portion (plume) of the aquifer affected by previous flow of groundwater from the West Pit. Measurements of the groundwater table elevations will be taken on a weekly basis from M-32 and M-33. This data shall be tabulated and reported for outfall 002 on the quarterly BMP report, and the data will be used to evaluate compliance with the following permit limitation.

   The groundwater table elevation, based on the average of all measured values for each calendar month at M-32 and M-33 in the Rito Seco alluvial aquifer, must be equal to or lower than an elevation of 8540 ft. amsl.

   If the average monthly groundwater table elevations measured in the Rito Seco alluvial aquifer at M-32 and M-33 is greater than 8540 ft. amsl, the permitee shall initiate the following compliance schedule within 24 hours of the determination of groundwater table elevation exceedance.

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the alluvial aquifer monitoring wells (M-32 and M-33) weekly and the resulting elevations are presented in Table 6. The groundwater elevations for wells M-32 and M-33 were averaged by calendar month and the results are shown in Table 6. The April, May, June 2021 averages were below the 8540 ft. amsl required under Paragraph 6. Therefore, site operations were in full compliance of Part I, Section 5.5 and there were no requirements(s) to initiate actions contained within the schedule of compliance for Section 5.5. No corrective action is required under Paragraph 6 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 6 – Weekly/Monthly Rito Seco Alluvial Aquifer Average Groundwater Table Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)	Month (2021)	Average Monthly Groundwater Elevation (ft amsl)
M-32	04/07/2021	8533.81	April	8533.11
	04/14/2021	8534.03		
	04/21/2021	8533.38		
	04/28/2021	8532.16		
	04/29/2021	8532.16		
	05/05/2021	8532.39	May	8532.40
	05/12/2021	8532.38		
	05/19/2021	8532.21		
	05/26/2021	8532.52		
	05/27/2021	8532.51		

Table 6 (Cont) – Weekly/Monthly Rito Seco Alluvial Aquifer Average Groundwater Table Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)	Month (2021)	Average Monthly Groundwater Elevation (ft amsl)
M-32	06/02/2021	8531.97	June	8531.54
	06/09/2021	8532.36		
	06/16/2021	8530.97		
	06/23/2021	8531.25		
	06/30/2021	8531.35		
M-33	04/07/2021	8536.81	April	8537.00
	04/14/2021	8537.03		
	04/21/2021	8536.99		
	04/28/2021	8537.09		
	04/29/2021	8537.09		
	05/05/2021	8537.20	May	8537.34
	05/12/2021	8537.27		
	05/19/2021	8537.37		
	05/26/2021	8537.40		
	05/27/2021	8537.44		
	06/02/2021	8537.48	June	8537.43
	06/09/2021	8537.52		
	06/16/2021	8537.43		
	06/23/2021	8537.40		
	06/30/2021	8537.36		

7) The water quality of the Rito Seco will be assessed using surface water quality collected at RS-2, as shown in Figure 3. Surface water monitoring in the Rito Seco shall be conducted at RS-2 on a monthly basis and the laboratory analytical results shall be submitted to the WQCD in the quarterly BMP report. Water quality samples collected at RS-2 shall be analyzed for the following constituents: calcium, magnesium, sodium, potassium, ammonia, total dissolved solids, total hardness, pH, total suspended solids, cyanide (WAD and total), bicarbonate, alkalinity, chloride, sulfate, nitrate-nitrite, fluoride and the total and dissolved concentrations of aluminum, arsenic, barium, boron, cadmium, copper, chromium, iron, lead, manganese, mercury, nickel, selenium, silica, silver and zinc. The following compliance schedule shall be implemented in the event that any constituent exceeds the applicable water quality standards for the Rito Seco.

Compliance Action Taken: *Battle Mountain Resources, Inc. collected monthly surface water samples in April, May, June 2021 at location RS-2, as shown in Figure 3 of the permit. Results of analyses performed on these samples are shown in Table 7. The results of the laboratory analytical testing show that the applicable water quality standards were met for the Rito Seco during the months of April, May, June 2021. Site operations were in full compliance of Part I, Section 5.7 and there was no requirement(s) to initiate actions contained within the schedule of compliance for Section 5.7. Scheduled compliance monitoring will continue unchanged next quarter.*

Table 7 – RS-2 Surface Water Quality Results

Analyte	Reporting Units	04/05/2021	05/03/2021	06/01/2021
Alkalinity	mg/L as $CaCO_3$	64.9	45.3	33.9
Aluminum, Dissolved	mg/L	LT 0.25	LT 0.25	LT 0.25
Aluminum, Total	mg/L	0.696	1.25	0.786
Ammonia as N	mg/L	LT 0.2	LT 0.2	LT 0.2
Arsenic, Dissolved	mg/L	LT 0.001	LT 0.001	LT 0.001
Arsenic, Total	mg/L	LT 0.001	LT 0.001	LT 0.001
Barium, Dissolved	mg/L	LT 0.035	LT 0.035	LT 0.035
Barium, Total	mg/L	LT 0.035	0.0397	LT 0.035
Bicarbonate as CaCO3	mg/L	64.9	45.3	33.9
Boron, Dissolved	mg/L	LT 0.1	LT 0.1	LT 0.1
Boron, Total	mg/L	LT 0.1	LT 0.1	LT 0.1
Cadmium, Dissolved	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Cadmium, Total	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Calcium, Total	mg/L	16.2	14.0	10.8
Carbonate as CaCO3	mg/L	LT 20	LT 20	LT 20
Chloride	mg/L	LT 2.0	LT 2.0	LT 2.0
Chromium, Dissolved	mg/L	LT 0.002	LT 0.002	LT 0.002
Chromium, Total	mg/L	LT 0.002	LT 0.002	LT 0.002
Copper, Dissolved	mg/L	LT 0.002	LT 0.002	LT 0.002
Copper, Total	mg/L	LT 0.002	0.00235	LT 0.002
Cyanide, Total	mg/L	LT 0.01	LT 0.01	LT 0.01
Cyanide, WAD	mg/L	LT 0.01	LT 0.01	LT 0.01
Fluoride	mg/L	0.55	0.48	0.43
Hardness as CaCO3	mg/L	54	45	34
Iron, Dissolved	mg/L	LT 0.15	0.266	LT 0.15
Iron, Total	mg/L	0.982	1.74	0.952
Lead, Dissolved	mg/L	LT 0.0005	LT 0.0005	LT 0.0005
Lead, Total	mg/L	LT 0.0005	0.00096	0.00058
Magnesium, Total	mg/L	4.25	3.70	2.88
Manganese, Dissolved	mg/L	LT 0.05	LT 0.05	LT 0.05
Manganese, Total	mg/L	0.077	0.120	0.053
Mercury, Dissolved	mg/L	LT 0.001	LT 0.001	LT 0.001
Mercury, Total	mg/L	LT 0.001	LT 0.001	LT 0.001
Nickel, Dissolved	mg/L	LT 0.001	LT 0.04	LT 0.04
Nickel, Total	mg/L	LT 0.04	LT 0.04	LT 0.04
Nitrate+Nitrite as N	mg/L	LT 0.1	0.221	0.124
pH	SU	7.44	7.08	7.23
Potassium, Total	mg/L	LT 1	1.15	LT 1
Selenium, Dissolved	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Selenium, Total	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Silica, Total	mg/L	12.5	13.9	12.4
Silver, Dissolved	mg/L	LT 0.0005	LT 0.0005	LT 0.0005
Silver, Total	mg/L	LT 0.0005	LT 0.0005	LT 0.0005
Sodium, Total	mg/L	4.07	3.35	3.64
Sulfate	mg/L	6.20	5.58	6.66
Total Dissolved Solids	mg/L	88	88	82
Total Suspended Solids	mg/L	LT 20	27.0	LT 20
Zinc, Dissolved	mg/L	LT 0.05	LT 0.05	LT 0.05
Zinc, Total	mg/L	LT 0.05	LT 0.05	LT 0.05

8) If any component of the groundwater control system is not performing within the limits set forth in this permit, the permittee will be required to initiate appropriate compliance schedule activities, including the preparation of a response plan, for any and all components of the groundwater control system that do not meet the applicable

requirements. The permittee shall also conduct weekly sampling at RS-2 until such time as the other compliance schedule activity(ies) have been completed.

Compliance Action Taken: *As demonstrated by the information and data presented in this report, all components of the groundwater control system performed within the limits set forth in the permit. Therefore, site operations were in full compliance of Part I, Section 8 and there was no requirement(s) to initiate actions contained within the schedule of compliance for Section 8.*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is to the best of my knowledge and belief, is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Julio Madrid Signature: Julio Madrid

Date: July 27, 2021

APPROXIMATE SATURATED ALLUVIUM BOUNDARY

M-33 8537.87

M-31 8551.16

M-27 DRY

BF-6 8578.96

M-25 8541.57

M-11R 8551.58

BF-3 8578.07

BF-4 8579.24

M-23 8557.01

WATER TREATMENT FACILITY AND PARKING AREA

BF-5R 8579.04

APPROXIMATE SATURATED ALLUVIUM BOUNDARY

M-26 8544.72

M-32 8536.99

M-24 8560.19

M-22 8573.35

M-20 8580.86

M-21 8577.93

M-19 8581.55

M-18 8579.76

M-28 8580.30

M-29 8580.67

M-30 8610.77

M-17 8588.24

M-16 8600.94

8540 8550 8560 8570 8580 8590 8600 8610

NORTH

SCALE IN FEET
0 200

KEY

GROUND WATER FLOW DIRECTION

8560 LINE OF EQUIPOTENTIAL HYDRAULIC HEAD

M-23 8555.72 WELL NAME / WATER LEVEL

NO	REVISION DESCR.	DATE	BY
A			
B			
C			
1			
2			

ALLUVIAL GROUND WATER POTENTIOMETRIC SURFACE MAP

SECOND QUARTER (APRIL 2021)

SAN LUIS PROJECT

Engineering Analytics, Inc.

ISSUED BY

Drawn By: RDP
Designed By: AF
Approved By: AF
Date: 07/01/2021
Project: 210105:06
Scale: 1" = 200'
Sheet Number: 1

C:_05 San Luis\POTENTIOMETRIC MAPS\GW Map 2021 2nd qtr\Groundwater 2021 2nd Qtr.dwg SAVED:6/30/21 PRINTED:6/30/21

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

October 27, 2021

Colorado Department of Public Health and Environment
Water Quality Control Division
Attn: WQDC-B2 – DMR Receipt
4300 Cherry Creek Drive
Denver, CO 80246-1530

Re: Battle Mountain Resources, Inc.
San Luis Project - San Luis, Colorado
Third Quarter 2021 – DMR's, BMP, Influent Summary and WET Testing Reports
CDPHE CDPS Permit No. CO0045675

Dear Sir or Madame:

Please find the enclosed Battle Mountain Resources, Inc. "San Luis Project" (Permit No. CO0045675) Colorado Department of Public Health and Environment-Colorado Discharge Permit System (CDPS) Best Management Practices (BMP) report for permitted outfall 002 for the third quarter 2021. The quarterly BMP report provides the required data associated with groundwater well elevations, the quarterly potentiometric surface map and groundwater well chemistry.

In addition, the third quarter 2021 Discharge Monitoring Reports (DMRs) were submitted for each of the permitted water treatment plant discharges in the NetDMR System and the WET Testing Reports were attached to the appropriate DMR submittal in NetDMR. These permitted discharges consist of water treatment plant Discharge Numbers 001-A and 001-B. During the quarter, the maximum 30-day average flow was 0.26 million gallons of water discharged per day, therefore the applicable permit criteria for the reporting period is associated with discharge number 001-B.

Should any questions arise or if I can be of any assistance providing clarification, please call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Tim Runnells, Engineering Analytics
Alan Fosdick, Engineering Analytics

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

October 27, 2021

Colorado Department of Public Health and Environment
Water Quality Control Division
Attn: WQDC-B2 – DMR Receipt
4300 Cherry Creek Drive
Denver, CO 80246-1530

Re: Battle Mountain Resources, Inc.
San Luis Project
Third Quarter 2021 BMP Report
CDPHE CDPS Permit No. CO0045675

Dear Sir or Madame:

In accordance with and compliance of the permit limitations and permit terms and conditions contained in Part I, Section 5 Discharge Point 002: (Permit Limitations, Best Management Practices, and Schedule of Compliance of the *State of Colorado Authorization to Discharge Under the Colorado Discharge Permit System*, Battle Mountain Resources, Inc. submits the following *Quarterly Best Management Practices Report.*

In accordance with the Water Quality Control Commission Regulations for Effluent Limitations, Section 62.4, and the Colorado Discharge Permit System Regulations, Sections 61.8(2), 61.8(3)(n), and 61.8(3)(r), 5 C.C.R. 1002-61, the permittee shall continue to implement the following limitations, compliance schedules, and Best Management Practices (BMPs).

The attainment of applicable water quality standards will be implemented and evaluated through the application of the following limitations, compliance schedules, and BMPs that are designed to monitor and control the groundwater quality and quantity discharging from the West Pit to the Rito Seco alluvial aquifer.

Specifically, the limitations, compliance schedules, and BMPs are those activities that address contaminated groundwater that may flow into the Rito Seco. This includes: (1) the potential flow of the affected groundwater from the West Pit that, in the past, manifested itself in the formation of the surface seeps along the arroyo sidewall of the Rito Seco, and (2) the plume of affected groundwater within the Rito Seco alluvial aquifer downgradient of the West Pit that flows along the naturally occurring hydraulic gradient and that may flow into the Rito Seco. The activities will include the following specific requirements:

1) The elevation of the groundwater table in the vicinity of the West Pit shall be measured on a weekly basis at the following locations: (i) the West Pit backfill wells BF-4 and BF-5 and (ii) the Rito Seco alluvial wells M-16 and M-20, as shown in Figure 3 of the permit, for purposes of determining the performance of the "pump and treat" system that regulates the flow and quality of the groundwater in the seepage front. The permittee shall

also determine on a quarterly basis the elevations of the groundwater table at BF-3, BF-4, BF-5, BF-6, M-11R, M-16, M-17, M-18, M-19, M-20, M-21, M-22, M-23, M-24, M-25, M-26, M-27, M-28, M-29, M-30, M-31, M-32, and M-33 for the purpose of developing a groundwater potentiometric map as monitoring confirmation of the groundwater flow direction. The quarterly data regarding depth to groundwater and groundwater potentiometric surface map will be submitted to the WQCD with the BMP report as described.

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the weekly West Pit backfill and alluvial wells as required under Paragraph 1 of the specific requirements. Measurements obtained for the weekly West Pit backfill wells (BF-4 and BF-5R) and alluvial wells (M-16 and M-20) are shown in Table 1. The quarterly groundwater elevations required under Paragraph 1 were also measured and are shown in Table 2. A potentiometric surface map, developed by Engineering Analytics, is shown in Figure 1. The groundwater table elevations and potentiometric map confirm that the groundwater flow gradient during the third quarter of 2021 was from the Rito Seco to the West Pit. No corrective action is required under Paragraph 1 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 1 – Weekly Groundwater Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)
BF-4	07/07/2021	8579.35
	07/14/2021	8579.22
	07/21/2021	8579.23
	07/28/2021	8579.29
	08/04/2021	8579.31
	08/11/2021	8579.32
	08/18/2021	8579.28
	08/25/2021	8579.23
	09/01/2021	8579.26
	09/08/2021	8579.26
	09/15/2021	8579.26
	09/22/2021	8579.27
	09/29/2021	8579.27
BF-5R	07/07/2021	8579.11
	07/14/2021	8579.02
	07/21/2021	8579.02
	07/28/2021	8579.05
	08/04/2021	8579.09
	08/11/2021	8579.10
	08/18/2021	8579.04
	08/25/2021	8579.04
	09/01/2021	8579.04
	09/08/2021	8579.05
	09/15/2021	8579.07
	09/22/2021	8579.08
	09/29/2021	8579.08

Table 1 – Weekly Groundwater Elevations (continued)

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)
M-16	07/07/2021	8602.68
	07/14/2021	8602.35
	07/21/2021	8602.17
	07/28/2021	8602.01
	08/04/2021	8601.89
	08/11/2021	8601.47
	08/18/2021	8601.46
	08/25/2021	8601.27
	09/01/2021	8601.16
	09/08/2021	8601.04
	09/15/2021	8600.95
	09/22/2021	8600.89
	09/29/2021	8600.86
M-20	07/07/2021	8580.35
	07/14/2021	8580.19
	07/21/2021	8580.14
	07/28/2021	8580.10
	08/04/2021	8580.14
	08/11/2021	8580.09
	08/18/2021	8580.03
	08/25/2021	8580.21
	09/01/2021	8580.17
	09/08/2021	8580.19
	09/15/2021	8580.19
	09/22/2021	8580.28
	09/29/2021	8580.36

Table 2 – Quarterly Groundwater Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)
BF-3	07/29/2021	8578.09
BF-4	07/29/2021	8579.29
BF-5R	07/29/2021	8579.05
BF-6	07/29/2021	8578.99
M-11R	07/29/2021	8551.52
M-16	07/29/2021	8601.99
M-17	07/29/2021	8586.99
M-18	07/29/2021	8579.40
M-19	07/29/2021	8580.55
M-20	07/29/2021	8580.11
M-21	07/29/2021	8577.36
M-22	07/29/2021	8572.94
M-23	07/29/2021	8557.05
M-24	07/29/2021	8560.09
M-25	07/29/2021	8541.59
M-26	07/29/2021	8544.49
M-27	07/29/2021	DRY
M-28	07/29/2021	8579.76
M-29	07/29/2021	8580.27
M-30	07/29/2021	8610.65
M-31	07/29/2021	8551.14
M-32	07/29/2021	8530.15
M-33	07/29/2021	8529.39

2) The weekly groundwater table elevation data shall be tabulated and reported on the quarterly BMP reports, and the data will be used to evaluate compliance with the following permit limitations.

The groundwater table elevation, based on the average of all measured values for each calendar month in the West Pit backfill groundwater monitoring wells BF-4 and BF-5, must be equal to or lower than an elevation of 8582 feet above sea level (ft. amsl).

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the West Pit backfill monitoring wells (BF-4 and BF-5R) weekly and the measurements are shown in Table 1. The groundwater measurements for wells BF-4 and BF-5R were averaged by calendar month and the results are shown in Table 3. The July, August, September 2021 averages were below the 8582 ft. amsl required in Paragraph 2. No corrective action is required under the Paragraph 2 requirement and schedule compliance monitoring will continue unchanged next quarter.*

Table 3 – Quarterly West Pit Backfill Monthly Average Groundwater Table Elevations

Monitoring Well Identification	Month (2021)	Number of Observations	Average Monthly Groundwater Elevation (ft amsl)
BF-4	July	4	8579.27
	August	4	8579.29
	September	5	8579.26
BF-5R	July	4	8579.05
	August	4	8579.07
	September	5	8579.06

3) If the average monthly groundwater table elevation in the West Pit backfill for any calendar month, measured as described in the above paragraph, is greater than 8582 ft. amsl or the quarterly determination of the groundwater potentiometric surface map indicates that the flow of the groundwater is from the West Pit to the Rito Seco alluvium, the permittee shall verbally communicate such condition to WQCD within 24 hours of the determination of the condition (elevated West Pit backfill table or groundwater flow from the West Pit as indicated by the quarterly groundwater potentiometric surface map) and initiate the following compliance schedule.

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the West Pit backfill monitoring wells (BF-4 and BF-5R) weekly and the calendar month average groundwater measurement elevations (Table 3) were below the 8582 ft. amsl required in Paragraph 2. The July 29, 2021, potentiometric surface map (Figure 1) shows the groundwater flow gradient was from the Rito Seco alluvium to the West Pit backfill. Therefore, site operations demonstrated the West Pit backfill groundwater level was maintained at or below an elevation of 8582 ft. amsl through the quarter. Therefore, no requirement(s) to initiate actions contained within the schedule of compliance for Section 5.3 is required.*

4) The quality of groundwater in the vicinity of the West Pit shall be monitored on a monthly basis in the Rito Seco alluvial groundwater monitoring wells M-19, M-21, M-24 and M-11R for the purposes of monitoring the changes in the quality of the plume or affected groundwater in the Rito Seco alluvial aquifer. Groundwater quality in these monitoring wells will be analyzed for pH, temperature, total dissolved solids, calcium, sulfate, manganese, fluoride, copper, and iron for the purpose of evaluating the status of the groundwater quality in the downgradient groundwater plume. The groundwater quality data will be summarized and transmitted to the WQCD in the quarterly BMP report required under Part I, Section E.1 of this permit.

Compliance Action Taken: *Battle Mountain Resources, Inc. collected monthly groundwater samples in the vicinity of the West Pit backfill area from Rito Seco alluvial monitoring wells M-19, M-21, M-24 and M-11R. No corrective action is required under the Paragraph 4 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 4 – Rito Seco Alluvial Groundwater Quality Summary

Analyte	Reporting Units	Sample Date	Monitoring Well Identifier			
			M-11R	M-19	M-21	M-24
pH	SU	07/07/2021	7.13	6.52	6.68	6.95
		08/02/2021	7.13	6.52	6.81	6.96
		09/01/2021	7.21	6.57	6.83	6.98
Temperature	°C	07/07/2021	9.7	9.6	8.3	9.0
		08/02/2021	9.6	7.5	9.8	8.6
		09/01/2021	10.6	7.7	10.6	9.5
Calcium, Total	mg/L	07/07/2021	66.9	19.2	29.2	86.0
		08/02/2021	75.7	20.5	31.8	93.3
		09/01/2021	77.5	20.7	32.0	92.0
Copper, Dissolved	mg/L	07/07/2021	LT 0.002	LT 0.002	LT 0.002	LT 0.002
		08/02/2021	LT 0.002	LT 0.002	LT 0.002	LT 0.002
		09/01/2021	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Fluoride	mg/L	07/07/2021	0.847	0.819	1.31	0.657
		08/02/2021	0.803	0.783	1.24	0.619
		09/01/2021	0.923	0.804	1.49	LT 1.25
Iron, Dissolved	mg/L	07/07/2021	LT 0.15	LT 0.15	LT 0.15	4.49
		08/02/2021	LT 0.15	LT 0.15	LT 0.15	4.78
		09/01/2021	LT 0.15	LT 0.15	LT 0.15	4.77
Manganese, Dissolved	mg/L	07/07/2021	0.133	0.234	0.313	0.929
		08/02/2021	0.148	0.231	0.339	0.959
		09/01/2021	0.196	0.245	0.359	0.956
Sulfate	mg/L	07/07/2021	82.5	6.30	10.3	159
		08/02/2021	94.2	5.66	10.4	172
		09/01/2021	105	4.49	9.82	162
Total Dissolved Solids	mg/L	07/07/2021	308	92	136	450
		08/02/2021	326	96	144	472
		09/01/2021	344	96	150	468

5) The historical seeps were caused by the plume of affected groundwater and may, in the future, also be caused by natural variation in the flow of groundwater in the vicinity of the area where the past seeps occurred. The permittee shall conduct a monthly visual inspection of the area of historical seeps and the permittee shall report any seepage flow that is associated with the area historic seepage expression, as is identified in Figure 2 of the permit. Results of the seep monitoring shall be tabulated and summarized in the quarterly BMP report.

   If these inspections identified the occurrence of seeps, the permittee will be required to communicate verbally to the WQCD within 24 hours of the seepage observation, followed by written notification within 7 calendar days of the seepage observation. Verbal updates will then be provided to the WQCD every second day thereafter until the WQCD has made a determination regarding the status of the West Pit groundwater control system through the implementation of the following compliance schedule.

Compliance Action Taken: *Battle Mountain Resources, Inc. performed monthly visual seepage expression inspections in the historic seepage area identified in Figure 2 of the permit. Visual observations during these inspections are shown in Table 5. No seepage expressions were observed in the historic seepage area during the third quarter of 2021. Therefore, no verbal or written notifications were required and the implementation of the compliance schedule was not required. No corrective action is required under the Paragraph 5 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 5 – Monthly Seepage Expression Inspection Tabulation

Visual Inspection Date	Was Visual Observation of Seepage Determined in the Area of the Historic Seepage Expression	Comments
07/29/2021	No	All Dry
08/31/2021	No	All Dry
09/30/2021	No	All Dry

6) The BMP for the groundwater flow downgradient from the groundwater divide (see section VI.A.2 for the Rationale) that has been developed in the Rito Seco alluvial aquifer consists of a groundwater capture system in conjunction with groundwater table elevation control in the West Pit. The water management plan for the Rito Seco alluvial aquifer consists of pumping two groundwater capture wells (M-32 and M-33) located downgradient of the plume of affected groundwater. This action will allow flushing of constituents in the groundwater of the Rito Seco alluvial aquifer in that portion (plume) of the aquifer affected by previous flow of groundwater from the West Pit. Measurements of the groundwater table elevations will be taken on a weekly basis from M-32 and M-33. This data shall be tabulated and reported for outfall 002 on the quarterly BMP report, and the data will be used to evaluate compliance with the following permit limitation.

   The groundwater table elevation, based on the average of all measured values for each calendar month at M-32 and M-33 in the Rito Seco alluvial aquifer, must be equal to or lower than an elevation of 8540 ft. amsl.

   If the average monthly groundwater table elevations measured in the Rito Seco alluvial aquifer at M-32 and M-33 is greater than 8540 ft. amsl, the permitee shall initiate the following compliance schedule within 24 hours of the determination of groundwater table elevation exceedance.

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the alluvial aquifer monitoring wells (M-32 and M-33) weekly and the resulting elevations are presented in Table 6. The groundwater elevations for wells M-32 and M-33 were averaged by calendar month and the results are shown in Table 6. The July, August, September 2021 averages were below the 8540 ft. amsl required under Paragraph 6. Therefore, site operations were in full compliance of Part I, Section 5.5 and there were no requirements(s) to initiate actions contained within the schedule of compliance for Section 5.5. No corrective action is required under Paragraph 6 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 6 – Weekly/Monthly Rito Seco Alluvial Aquifer Average Groundwater Table Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)	Month (2021)	Average Monthly Groundwater Elevation (ft amsl)
M-32	07/07/21	8531.11	July	8530.92
	07/14/21	8531.21		
	07/21/21	8531.19		
	07/28/21	8530.96		
	07/29/21	8530.15		
	08/04/21	8530.78	August	8530.56
	08/11/21	8530.55		
	08/18/21	8530.72		
	08/25/21	8530.36		
	08/31/21	8530.38		

Table 6 (Cont) – Weekly/Monthly Rito Seco Alluvial Aquifer Average Groundwater Table Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)	Month (2021)	Average Monthly Groundwater Elevation (ft amsl)
M-32	09/01/21	8530.32	September	8530.42
	09/08/21	8530.68		
	09/15/21	8530.84		
	09/22/21	8530.25		
	09/29/21	8530.29		
	09/30/21	8530.16		
M-33	07/07/21	8537.33	July	8535.88
	07/14/21	8537.24		
	07/21/21	8538.67		
	07/28/21	8536.76		
	07/29/21	8529.39		
	08/04/21	8531.42	August	8532.51
	08/11/21	8532.40		
	08/18/21	8532.68		
	08/25/21	8532.74		
	08/31/21	8533.33		
	09/01/21	8533.29	September	8534.08
	09/08/21	8533.72		
	09/15/21	8533.73		
	09/22/21	8534.53		
	09/29/21	8534.62		
	09/30/21	8534.60		

7) The water quality of the Rito Seco will be assessed using surface water quality collected at RS-2, as shown in Figure 3. Surface water monitoring in the Rito Seco shall be conducted at RS-2 on a monthly basis and the laboratory analytical results shall be submitted to the WQCD in the quarterly BMP report. Water quality samples collected at RS-2 shall be analyzed for the following constituents: calcium, magnesium, sodium, potassium, ammonia, total dissolved solids, total hardness, pH, total suspended solids, cyanide (WAD and total), bicarbonate, alkalinity, chloride, sulfate, nitrate-nitrite, fluoride and the total and dissolved concentrations of aluminum, arsenic, barium, boron, cadmium, copper, chromium, iron, lead, manganese, mercury, nickel, selenium, silica, silver and zinc. The following compliance schedule shall be implemented in the event that any constituent exceeds the applicable water quality standards for the Rito Seco.

Compliance Action Taken: *Battle Mountain Resources, Inc. collected monthly surface water samples in July, August, September 2021 at location RS-2, as shown in Figure 3 of the permit. Results of analyses performed on these samples are shown in Table 7. The results of the laboratory analytical testing show that the applicable water quality standards were met for the Rito Seco during the months of July, August, September 2021. Site operations were in full compliance of Part I, Section 5.7 and there was no requirement(s) to initiate actions contained within the schedule of compliance for Section 5.7. Scheduled compliance monitoring will continue unchanged next quarter.*

Table 7 – RS-2 Surface Water Quality Results

Analyte	Reporting Units	07/06/2021	08/02/2021	09/01/2021
Alkalinity	mg/L as $CaCO_3$	44.2	55.1	52.7
Aluminum, Dissolved	mg/L	LT 0.25	LT 0.25	LT 0.25
Aluminum, Total	mg/L	0.377	2.12	0.892
Ammonia as N	mg/L	LT 0.2	LT 0.2	LT 0.2
Arsenic, Dissolved	mg/L	LT 0.001	LT 0.001	LT 0.001
Arsenic, Total	mg/L	LT 0.001	LT 0.001	LT 0.001
Barium, Dissolved	mg/L	LT 0.035	LT 0.035	0.0357
Barium, Total	mg/L	LT 0.035	0.0470	0.0368
Bicarbonate as CaCO3	mg/L	44.2	55.1	52.7
Boron, Dissolved	mg/L	LT 0.1	LT 0.1	LT 0.1
Boron, Total	mg/L	LT 0.1	LT 0.1	LT 0.1
Cadmium, Dissolved	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Cadmium, Total	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Calcium, Total	mg/L	12.4	16.4	17.2
Carbonate as CaCO3	mg/L	LT 20	LT 20	LT 20
Chloride	mg/L	LT 2.0	LT 2.0	3.05
Chromium, Dissolved	mg/L	LT 0.002	LT 0.002	LT 0.002
Chromium, Total	mg/L	LT 0.002	LT 0.002	LT 0.002
Copper, Dissolved	mg/L	LT 0.002	LT 0.002	LT 0.002
Copper, Total	mg/L	LT 0.002	0.00538	LT 0.002
Cyanide, Total	mg/L	LT 0.01	LT 0.05 H	LT 0.01 H
Cyanide, WAD	mg/L	LT 0.01	LT 0.01	LT 0.01
Fluoride	mg/L	0.51	0.50	0.86
Hardness as CaCO3	mg/L	43	51	60
Iron, Dissolved	mg/L	0.191	0.172	0.310
Iron, Total	mg/L	0.677	2.46	1.28
Lead, Dissolved	mg/L	LT 0.0005	LT 0.0005	LT 0.0005
Lead, Total	mg/L	LT 0.0005	0.00196	0.00068
Magnesium, Total	mg/L	3.07	4.21	4.34
Manganese, Dissolved	mg/L	LT 0.05	LT 0.05	LT 0.05
Manganese, Total	mg/L	LT 0.05	0.104	0.100
Mercury, Dissolved	mg/L	LT 0.001	LT 0.001	LT 0.001
Mercury, Total	mg/L	LT 0.001	LT 0.001	LT 0.001
Nickel, Dissolved	mg/L	LT 0.001	LT 0.04	LT 0.04
Nickel, Total	mg/L	LT 0.04	LT 0.04	LT 0.04
Nitrate+Nitrite as N	mg/L	LT 0.1	LT 0.1	LT 0.1
pH	SU	7.28	7.08	7.11
Potassium, Total	mg/L	1.18	1.27	1.33
Selenium, Dissolved	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Selenium, Total	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Silica, Total	mg/L	10.7	17.7	13.1
Silver, Dissolved	mg/L	LT 0.0005	LT 0.0005	LT 0.0005
Silver, Total	mg/L	LT 0.0005	LT 0.0005	LT 0.0005
Sodium, Total	mg/L	3.96	3.64	6.60
Sulfate	mg/L	5.86	2.77	14.4
Total Dissolved Solids	mg/L	80	96	106
Total Suspended Solids	mg/L	LT 20	40.0	LT 20
Zinc, Dissolved	mg/L	LT 0.05	LT 0.05	LT 0.05
Zinc, Total	mg/L	LT 0.05	LT 0.05	LT 0.05

8) If any component of the groundwater control system is not performing within the limits set forth in this permit, the permittee will be required to initiate appropriate compliance schedule activities, including the preparation of a response plan, for any and all components of the groundwater control system that do not meet the applicable

requirements. The permittee shall also conduct weekly sampling at RS-2 until such time as the other compliance schedule activity(ies) have been completed.

Compliance Action Taken: *As demonstrated by the information and data presented in this report, all components of the groundwater control system performed within the limits set forth in the permit. Therefore, site operations were in full compliance of Part I, Section 8 and there was no requirement(s) to initiate actions contained within the schedule of compliance for Section 8.*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is to the best of my knowledge and belief, is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Julio Madrid Signature: Julio Madrid

Date: October 27, 2021

APPROXIMATE SATURATED ALLUVIUM BOUNDARY

M-33 8530.56

M-31 8551.14

M-27 DRY

BF-6 8578.99

M-25 8541.59

M-11R 8551.52

M-23 8557.05

BF-3 8578.09

BF-4 8579.29

WATER TREATMENT FACILITY AND PARKING AREA

BF-5R 8579.05

APPROXIMATE SATURATED ALLUVIUM BOUNDARY

8540

8550

8560

8570

8580

8590

8600

8610

M-26 8544.49

M-32 8535.47

M-24 8560.09

M-22 8572.94

M-21 8577.36

M-20 8580.11

M-19 8580.55

M-18 8579.40

M-28 8579.76

M-29 8580.27

M-30 8610.65

M-17 8586.99

M-16 8601.99

KEY

NORTH

SCALE IN FEET
0 200

GROUND WATER FLOW DIRECTION

LINE OF EQUIPOTENTIAL

8560

HYDRAULIC HEAD

M-23 8555.72

WELL NAME

WATER LEVEL

NO	REVISION DESCR.	DATE	BY
A			
B			
C			
1			
2			

ALLUVIAL GROUND WATER POTENTIOMETRIC SURFACE MAP

THIRD QUARTER (JULY 2021)

SAN LUIS PROJECT

Engineering Analytics, Inc.

ISSUED BY

Drawn By:	RDP
Designed By:	AF
Approved By:	AF
Date:	10/18/2021
Project:	210105:06
Scale:	1" = 200'
Sheet Number:	1

Q:_05 San Luis\POTENTIOMETRIC MAPS\GW Map 2021 3rd qtr\Groundwater 2021 3rd Qtr.dwg SAVED:6/30/21 PRINTED:10/18/21

Battle Mountain Resources, Inc.
San Luis Gold Project - Discharge Permit CO-0045675
Wastewater Treatment Plant - 2021 Influent Analytical Results Summary

Analyte	Reporting Units	POND1
		08/03/2021
Aluminum, Total Recoverable	mg/L	LT 0.015
Arsenic, Total	mg/L	LT 0.001
Arsenic, Total Recoverable	mg/L	LT 0.001
Cadmium, Potentially Dissolved	mg/L	LT 0.00025
Chloride	mg/L	4.19
Chromium, Total Recoverable	mg/L	LT 0.002
Copper, Potentially Dissolved	mg/L	LT 0.002
Cyanide, WAD	mg/L	LT 0.01
Fluoride	mg/L	2.74
Iron, Dissolved	mg/L	LT 0.15
Iron, Total Recoverable	mg/L	LT 0.15
Lead, Potentially Dissolved	mg/L	LT 0.0005
Manganese, Dissolved	mg/L	0.870
Mercury, Total	mg/L	LT 0.001
Mercury, Total (Low Level)	ng/L	LT 1.0
Molybdenum, Total Recoverable	mg/L	0.0270
Nickel, Potentially Dissolved	mg/L	LT 0.001
Nitrogen, ammonia	mg/L	LT 0.2
Radium 226/228	pCi/L	LT 4.78
Selenium, Potentially Dissolved	mg/L	LT 0.00025
Silver, Potentially Dissolved	mg/L	LT 0.0005
Sulfate	mg/L	102
Sulfide	mg/L	LT 0.1
Total Dissolved Solids	mg/L	340
Total Suspended Solids	mg/L	LT 20
Uranium, Potentially Dissolved	mg/L	0.0159
Zinc, Potentially Dissolved	mg/L	LT 0.015

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

January 26, 2022

Colorado Department of Public Health and Environment
Water Quality Control Division
Attn: WQDC-B2 – DMR Receipt
4300 Cherry Creek Drive
Denver, CO 80246-1530

Re: Battle Mountain Resources, Inc.
San Luis Project - San Luis, Colorado
Fourth Quarter 2021 – DMR's, BMP and WET Testing Reports
CDPHE CDPS Permit No. CO0045675

Dear Sir or Madame:

Please find the enclosed Battle Mountain Resources, Inc. "San Luis Project" (Permit No. CO0045675) Colorado Department of Public Health and Environment-Colorado Discharge Permit System (CDPS) Best Management Practices (BMP) report for permitted outfall 002 for the fourth quarter 2021. The quarterly BMP report provides the required data associated with groundwater well elevations, the quarterly potentiometric surface map and groundwater well chemistry.

In addition, the fourth quarter 2021 Discharge Monitoring Reports (DMRs) were submitted for each of the permitted water treatment plant discharges in the NetDMR System and the WET Testing Reports were attached to the appropriate DMR submittal in NetDMR. These permitted discharges consist of water treatment plant Discharge Numbers 001-A and 001-B. During the quarter, the maximum 30-day average flow was 0.25 million gallons of water discharged per day, therefore the applicable permit criteria for the reporting period is associated with discharge number 001-B.

Should any questions arise or if I can be of any assistance providing clarification, please call me at (719) 379-0538.

Sincerely,

Julio Madrid
Authorized Agent
Battle Mountain Resources, Inc.

Cc: BMRI File
Devon Horntvedt, Newmont USA Limited
Lawrence Fiske, Newmont USA Limited
Tim Runnells, Engineering Analytics
Alan Fosdick, Engineering Analytics

Battle Mountain Resources, Inc.
San Luis Project
P.O. Box 310
San Luis, Colorado 81152-0310
(719) 379-0798

January 26, 2022

Colorado Department of Public Health and Environment
Water Quality Control Division
Attn: WQDC-B2 – DMR Receipt
4300 Cherry Creek Drive
Denver, CO 80246-1530

Re: Battle Mountain Resources, Inc.
San Luis Project
Fourth Quarter 2021 BMP Report
CDPHE CDPS Permit No. CO0045675

Dear Sir or Madame:

In accordance with and compliance of the permit limitations and permit terms and conditions contained in Part I, Section 5 Discharge Point 002: (Permit Limitations, Best Management Practices, and Schedule of Compliance of the *State of Colorado Authorization to Discharge Under the Colorado Discharge Permit System*, Battle Mountain Resources, Inc. submits the following *Quarterly Best Management Practices Report.*

In accordance with the Water Quality Control Commission Regulations for Effluent Limitations, Section 62.4, and the Colorado Discharge Permit System Regulations, Sections 61.8(2), 61.8(3)(n), and 61.8(3)(r), 5 C.C.R. 1002-61, the permittee shall continue to implement the following limitations, compliance schedules, and Best Management Practices (BMPs).

The attainment of applicable water quality standards will be implemented and evaluated through the application of the following limitations, compliance schedules, and BMPs that are designed to monitor and control the groundwater quality and quantity discharging from the West Pit to the Rito Seco alluvial aquifer.

Specifically, the limitations, compliance schedules, and BMPs are those activities that address contaminated groundwater that may flow into the Rito Seco. This includes: (1) the potential flow of the affected groundwater from the West Pit that, in the past, manifested itself in the formation of the surface seeps along the arroyo sidewall of the Rito Seco, and (2) the plume of affected groundwater within the Rito Seco alluvial aquifer downgradient of the West Pit that flows along the naturally occurring hydraulic gradient and that may flow into the Rito Seco. The activities will include the following specific requirements:

1) The elevation of the groundwater table in the vicinity of the West Pit shall be measured on a weekly basis at the following locations: (i) the West Pit backfill wells BF-4 and BF-5 and (ii) the Rito Seco alluvial wells M-16 and M-20, as shown in Figure 3 of the permit, for purposes of determining the performance of the "pump and treat" system that regulates the flow and quality of the groundwater in the seepage front. The permittee shall

also determine on a quarterly basis the elevations of the groundwater table at BF-3, BF-4, BF-5, BF-6, M-11R, M-16, M-17, M-18, M-19, M-20, M-21, M-22, M-23, M-24, M-25, M-26, M-27, M-28, M-29, M-30, M-31, M-32, and M-33 for the purpose of developing a groundwater potentiometric map as monitoring confirmation of the groundwater flow direction. The quarterly data regarding depth to groundwater and groundwater potentiometric surface map will be submitted to the WQCD with the BMP report as described.

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the weekly West Pit backfill and alluvial wells as required under Paragraph 1 of the specific requirements. Measurements obtained for the weekly West Pit backfill wells (BF-4 and BF-5R) and alluvial wells (M-16 and M-20) are shown in Table 1. The quarterly groundwater elevations required under Paragraph 1 were also measured and are shown in Table 2. A potentiometric surface map, developed by Engineering Analytics, is shown in Figure 1. The groundwater table elevations and potentiometric map confirm that the groundwater flow gradient during the fourth quarter of 2021 was from the Rito Seco to the West Pit. No corrective action is required under Paragraph 1 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 1 – Weekly Groundwater Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)
BF-4	10/06/2021	8579.29
	10/13/2021	8579.26
	10/20/2021	8579.26
	10/27/2021	8579.31
	11/03/2021	8579.34
	11/10/2021	8579.32
	11/17/2021	8579.34
	11/24/2021	8579.28
	12/01/2021	8579.23
	12/08/2021	8579.25
	12/15/2021	8579.34
	12/22/2021	8579.26
	12/29/2021	8579.40
BF-5R	10/06/2021	8579.06
	10/13/2021	8579.08
	10/20/2021	8579.04
	10/27/2021	8579.11
	11/03/2021	8579.11
	11/10/2021	8579.12
	11/17/2021	8579.10
	11/24/2021	8579.09
	12/01/2021	8579.03
	12/08/2021	8579.05
	12/15/2021	8579.15
	12/22/2021	8579.06
	12/29/2021	8579.17

Table 1 – Weekly Groundwater Elevations (continued)

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)
M-16	10/06/2021	8600.86
	10/13/2021	8600.76
	10/20/2021	8600.86
	10/27/2021	8601.03
	11/03/2021	8601.11
	11/10/2021	8601.17
	11/17/2021	8601.18
	11/24/2021	8601.18
	12/01/2021	8601.18
	12/08/2021	8601.12
	12/15/2021	8601.03
	12/22/2021	8600.95
	12/29/2021	8600.88
M-20	10/06/2021	8580.43
	10/13/2021	8580.43
	10/20/2021	8580.44
	10/27/2021	8580.49
	11/03/2021	8580.50
	11/10/2021	8580.54
	11/17/2021	8580.53
	11/24/2021	8580.42
	12/01/2021	8580.32
	12/08/2021	8580.25
	12/15/2021	8580.16
	12/22/2021	8580.09
	12/29/2021	8580.05

Table 2 – Quarterly Groundwater Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)
BF-3	10/29/2021	8578.11
BF-4	10/29/2021	8579.33
BF-5R	10/29/2021	8579.10
BF-6	10/29/2021	8579.01
M-11R	10/29/2021	8551.42
M-16	10/29/2021	8601.04
M-17	10/29/2021	8587.08
M-18	10/29/2021	8580.28
M-19	10/29/2021	8581.23
M-20	10/29/2021	8580.50
M-21	10/29/2021	8577.57
M-22	10/29/2021	8573.10
M-23	10/29/2021	8556.63
M-24	10/29/2021	8559.82
M-25	10/29/2021	8541.50
M-26	10/29/2021	8544.79
M-27	10/29/2021	DRY
M-28	10/29/2021	8580.33
M-29	10/29/2021	8580.86
M-30	10/29/2021	8608.99
M-31	10/29/2021	8551.01
M-32	10/29/2021	8530.70
M-33	10/29/2021	8535.21

2) The weekly groundwater table elevation data shall be tabulated and reported on the quarterly BMP reports, and the data will be used to evaluate compliance with the following permit limitations.

The groundwater table elevation, based on the average of all measured values for each calendar month in the West Pit backfill groundwater monitoring wells BF-4 and BF-5, must be equal to or lower than an elevation of 8582 feet above sea level (ft. amsl).

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the West Pit backfill monitoring wells (BF-4 and BF-5R) weekly and the measurements are shown in Table 1. The groundwater measurements for wells BF-4 and BF-5R were averaged by calendar month and the results are shown in Table 3. The October, November, December 2021 averages were below the 8582 ft. amsl required in Paragraph 2. No corrective action is required under the Paragraph 2 requirement and schedule compliance monitoring will continue unchanged next quarter.*

Table 3 – Quarterly West Pit Backfill Monthly Average Groundwater Table Elevations

Monitoring Well Identification	Month (2021)	Number of Observations	Average Monthly Groundwater Elevation (ft amsl)
BF-4	October	4	8579.28
	November	4	8579.32
	December	5	8579.30
BF-5R	October	4	8579.07
	November	4	8579.11
	December	5	8579.09

3) If the average monthly groundwater table elevation in the West Pit backfill for any calendar month, measured as described in the above paragraph, is greater than 8582 ft. amsl or the quarterly determination of the groundwater potentiometric surface map indicates that the flow of the groundwater is from the West Pit to the Rito Seco alluvium, the permittee shall verbally communicate such condition to WQCD within 24 hours of the determination of the condition (elevated West Pit backfill table or groundwater flow from the West Pit as indicated by the quarterly groundwater potentiometric surface map) and initiate the following compliance schedule.

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the West Pit backfill monitoring wells (BF-4 and BF-5R) weekly and the calendar month average groundwater measurement elevations (Table 3) were below the 8582 ft. amsl required in Paragraph 2. The October 29, 2021, potentiometric surface map (Figure 1) shows the groundwater flow gradient was from the Rito Seco alluvium to the West Pit backfill. Therefore, site operations demonstrated the West Pit backfill groundwater level was maintained at or below an elevation of 8582 ft. amsl through the quarter. Therefore, no requirement(s) to initiate actions contained within the schedule of compliance for Section 5.3 is required.*

4) The quality of groundwater in the vicinity of the West Pit shall be monitored on a monthly basis in the Rito Seco alluvial groundwater monitoring wells M-19, M-21, M-24 and M-11R for the purposes of monitoring the changes in the quality of the plume or affected groundwater in the Rito Seco alluvial aquifer. Groundwater quality in these monitoring wells will be analyzed for pH, temperature, total dissolved solids, calcium, sulfate, manganese, fluoride, copper, and iron for the purpose of evaluating the status of the groundwater quality in the downgradient groundwater plume. The groundwater quality data will be summarized and transmitted to the WQCD in the quarterly BMP report required under Part I, Section E.1 of this permit.

Compliance Action Taken: *Battle Mountain Resources, Inc. collected monthly groundwater samples in the vicinity of the West Pit backfill area from Rito Seco alluvial monitoring wells M-19, M-21, M-24 and M-11R. No corrective action is required under the Paragraph 4 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 4 – Rito Seco Alluvial Groundwater Quality Summary

Analyte	Reporting Units	Sample Date	Monitoring Well Identifier			
			M-11R	M-19	M-21	M-24
pH	SU	10/05/2021	7.20	6.47	6.71	6.93
		11/01/2021	7.17	6.65	6.80	6.92
		12/06/2021	7.14	6.70	6.84	6.95
Temperature	°C	10/05/2021	10.0	8.5	8.8	9.5
		11/01/2021	9.6	9.0	8.4	9.0
		12/06/2021	9.5	9.5	8.0	8.6
Calcium, Total	mg/L	10/05/2021	68.8	22.1	31.7	89.1
		11/01/2021	66.1	21.5	31.3	89.5
		12/06/2021	87.4	24.1	33.7	91.8
Copper, Dissolved	mg/L	10/05/2021	LT 0.002	LT 0.002	LT 0.002	LT 0.002
		11/01/2021	LT 0.002	LT 0.002	LT 0.002	LT 0.002
		12/06/2021	LT 0.002	LT 0.002	LT 0.002	LT 0.002
Fluoride	mg/L	10/05/2021	0.907 H	0.864 H	1.37 H	0.738 H
		11/01/2021	1.03	0.973	1.49	LT 1.25
		12/06/2021	0.956	0.969	1.51	0.830
Iron, Dissolved	mg/L	10/05/2021	LT 0.15	LT 0.15	LT 0.15	5.00
		11/01/2021	LT 0.15	LT 0.15	LT 0.15	4.77
		12/06/2021	LT 0.15	LT 0.15	LT 0.15	4.53
Manganese, Dissolved	mg/L	10/05/2021	0.186	0.161	0.383	1.03
		11/01/2021	0.146	0.208	0.365	0.965
		12/06/2021	0.226	0.141	0.365	0.943
Sulfate	mg/L	10/05/2021	83.7 H	4.81 H	10.4 H	166 H
		11/01/2021	83.5	6.19	11.0	179
		12/06/2021	130	10.4	11.1	177
Total Dissolved Solids	mg/L	10/05/2021	288	104	132	448
		11/01/2021	298	106	138	460
		12/06/2021	360	102	136	440

H = Sample analysis was performed outside of analytical method holding times. The subsequent month sample was already collected prior to the laboratory missing the holding time, so the sample was not recollected. Results from the samples analyzed outside of holding times were consistent with previous results and subsequent sampling results.

5) The historical seeps were caused by the plume of affected groundwater and may, in the future, also be caused by natural variation in the flow of groundwater in the vicinity of the area where the past seeps occurred. The permittee shall conduct a monthly visual inspection of the area of historical seeps and the permittee shall report any seepage flow that is associated with the area historic seepage expression, as is identified in Figure 2 of the permit. Results of the seep monitoring shall be tabulated and summarized in the quarterly BMP report.

   If these inspections identified the occurrence of seeps, the permittee will be required to communicate verbally to the WQCD within 24 hours of the seepage observation, followed by written notification within 7 calendar days of the seepage observation. Verbal updates will then be provided to the WQCD every second day thereafter until the WQCD has made a determination regarding the status of the West Pit groundwater control system through the implementation of the following compliance schedule.

Compliance Action Taken: *Battle Mountain Resources, Inc. performed monthly visual seepage expression inspections in the historic seepage area identified in Figure 2 of the permit. Visual observations during these inspections are shown in Table 5. No seepage expressions were observed in the historic seepage area during the fourth quarter of 2021. Therefore, no verbal or written notifications were required and the implementation of the compliance schedule was not required. No corrective action is required under the Paragraph 5 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 5 – Monthly Seepage Expression Inspection Tabulation

Visual Inspection Date	Was Visual Observation of Seepage Determined in the Area of the Historic Seepage Expression	Comments
10/27/2021	No	All Dry
11/30/2021	No	All Dry
12/30/2021	No	All Dry

6) The BMP for the groundwater flow downgradient from the groundwater divide (see section VI.A.2 for the Rationale) that has been developed in the Rito Seco alluvial aquifer consists of a groundwater capture system in conjunction with groundwater table elevation control in the West Pit. The water management plan for the Rito Seco alluvial aquifer consists of pumping two groundwater capture wells (M-32 and M-33) located downgradient of the plume of affected groundwater. This action will allow flushing of constituents in the groundwater of the Rito Seco alluvial aquifer in that portion (plume) of the aquifer affected by previous flow of groundwater from the West Pit. Measurements of the groundwater table elevations will be taken on a weekly basis from M-32 and M-33. This data shall be tabulated and reported for outfall 002 on the quarterly BMP report, and the data will be used to evaluate compliance with the following permit limitation.

   The groundwater table elevation, based on the average of all measured values for each calendar month at M-32 and M-33 in the Rito Seco alluvial aquifer, must be equal to or lower than an elevation of 8540 ft. amsl.

   If the average monthly groundwater table elevations measured in the Rito Seco alluvial aquifer at M-32 and M-33 is greater than 8540 ft. amsl, the permitee shall initiate the following compliance schedule within 24 hours of the determination of groundwater table elevation exceedance.

Compliance Action Taken: *Battle Mountain Resources, Inc. measured the alluvial aquifer monitoring wells (M-32 and M-33) weekly and the resulting elevations are presented in Table 6. The groundwater elevations for wells M-32 and M-33 were averaged by calendar month and the results are shown in Table 6. The October, November, December 2021 averages were below the 8540 ft. amsl required under Paragraph 6. Therefore, site operations were in full compliance of Part I, Section 5.5 and there were no requirements(s) to initiate actions contained within the schedule of compliance for Section 5.5. No corrective action is required under Paragraph 6 specific requirement and scheduled compliance monitoring will continue unchanged next quarter.*

Table 6 – Weekly/Monthly Rito Seco Alluvial Aquifer Average Groundwater Table Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)	Month (2021)	Average Monthly Groundwater Elevation (ft amsl)
M-32	10/06/2021	8530.30	October	8530.42
	10/13/2021	8530.51		
	10/20/2021	8530.29		
	10/27/2021	8530.32		
	10/29/2021	8530.70		
	11/03/2021	8530.58	November	8529.11
	11/10/2021	8528.98		
	11/17/2021	8528.71		
	11/24/2021	8528.89		
	11/30/2021	8528.37		

Table 6 (Cont) – Weekly/Monthly Rito Seco Alluvial Aquifer Average Groundwater Table Elevations

Monitoring Well Identification	Observation Date	Groundwater Elevation (ft amsl)	Month (2021)	Average Monthly Groundwater Elevation (ft amsl)
M-32	12/01/2021	8528.36	December	8529.78
	12/08/2021	8528.56		
	12/15/2021	8530.61		
	12/22/2021	8530.96		
	12/29/2021	8530.14		
	12/30/2021	8530.02		
M-33	10/06/2021	8534.76	October	8535.03
	10/13/2021	8534.94		
	10/20/2021	8535.06		
	10/27/2021	8535.20		
	10/29/2021	8535.21		
	11/03/2021	8535.37	November	8536.64
	11/10/2021	8538.04		
	11/17/2021	8536.67		
	11/24/2021	8536.59		
	11/30/2021	8536.52		
	12/01/2021	8536.50	December	8530.03
	12/08/2021	8527.14		
	12/15/2021	8534.61		
	12/22/2021	8529.08		
	12/29/2021	8526.43		
	12/30/2021	8526.42		

7) The water quality of the Rito Seco will be assessed using surface water quality collected at RS-2, as shown in Figure 3. Surface water monitoring in the Rito Seco shall be conducted at RS-2 on a monthly basis and the laboratory analytical results shall be submitted to the WQCD in the quarterly BMP report. Water quality samples collected at RS-2 shall be analyzed for the following constituents: calcium, magnesium, sodium, potassium, ammonia, total dissolved solids, total hardness, pH, total suspended solids, cyanide (WAD and total), bicarbonate, alkalinity, chloride, sulfate, nitrate-nitrite, fluoride and the total and dissolved concentrations of aluminum, arsenic, barium, boron, cadmium, copper, chromium, iron, lead, manganese, mercury, nickel, selenium, silica, silver and zinc. The following compliance schedule shall be implemented in the event that any constituent exceeds the applicable water quality standards for the Rito Seco.

Compliance Action Taken: *Battle Mountain Resources, Inc. collected monthly surface water samples in October, November, December 2021 at location RS-2, as shown in Figure 3 of the permit. Results of analyses performed on these samples are shown in Table 7. The results of the laboratory analytical testing show that the applicable water quality standards were met for the Rito Seco during the months of October, November, December 2021. Site operations were in full compliance of Part I, Section 5.7 and there was no requirement(s) to initiate actions contained within the schedule of compliance for Section 5.7. Scheduled compliance monitoring will continue unchanged next quarter.*

Table 7 – RS-2 Surface Water Quality Results

Analyte	Reporting Units	10/04/2021	11/01/2021	12/06/2021
Alkalinity	mg/L as $CaCO_3$	49.1	61.0 H	53.1
Aluminum, Dissolved	mg/L	LT 0.25	LT 0.25	LT 0.25
Aluminum, Total	mg/L	0.299	LT 0.25	LT 0.25
Ammonia as N	mg/L	LT 0.2	LT 0.2	LT 0.2
Arsenic, Dissolved	mg/L	LT 0.001	LT 0.001	LT 0.001
Arsenic, Total	mg/L	LT 0.001	LT 0.001	LT 0.001
Barium, Dissolved	mg/L	LT 0.035	LT 0.035	LT 0.035
Barium, Total	mg/L	LT 0.035	LT 0.035	LT 0.035
Bicarbonate as CaCO3	mg/L	49.1	61.0 H	53.1
Boron, Dissolved	mg/L	LT 0.1	LT 0.1	LT 0.1
Boron, Total	mg/L	LT 0.1	LT 0.1	LT 0.1
Cadmium, Dissolved	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Cadmium, Total	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Calcium, Total	mg/L	18.5	17.3	19.0
Carbonate as CaCO3	mg/L	LT 20	LT 20H	LT 20
Chloride	mg/L	2.26	LT 2	LT 2
Chromium, Dissolved	mg/L	LT 0.002	LT 0.002	LT 0.002
Chromium, Total	mg/L	LT 0.002	LT 0.002	LT 0.002
Copper, Dissolved	mg/L	LT 0.002	LT 0.002	LT 0.002
Copper, Total	mg/L	LT 0.002	LT 0.002	LT 0.002
Cyanide, Total	mg/L	LT 0.01	LT 0.01	LT 0.01
Cyanide, WAD	mg/L	LT 0.01	LT 0.01	LT 0.01
Fluoride	mg/L	0.89	0.54	0.54
Hardness as CaCO3	mg/L	60	62	65
Iron, Dissolved	mg/L	0.154	0.234	0.212
Iron, Total	mg/L	0.620	0.357	0.421
Lead, Dissolved	mg/L	LT 0.0005	LT 0.0005	LT 0.0005
Lead, Total	mg/L	LT 0.0005	LT 0.0005	LT 0.0005
Magnesium, Total	mg/L	4.44	4.60	4.77
Manganese, Dissolved	mg/L	LT 0.05	LT 0.05	LT 0.05
Manganese, Total	mg/L	LT 0.05	LT 0.05	LT 0.05
Mercury, Dissolved	mg/L	LT 0.001	LT 0.001	LT 0.001
Mercury, Total	mg/L	LT 0.001	LT 0.001	LT 0.001
Nickel, Dissolved	mg/L	LT 0.001	LT 0.04	LT 0.04
Nickel, Total	mg/L	LT 0.04	LT 0.04	LT 0.04
Nitrate+Nitrite as N	mg/L	LT 0.1	LT 0.1	LT 0.1
pH	SU	7.37	7.29	7.71
Potassium, Total	mg/L	1.28	LT 1	1.00
Selenium, Dissolved	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Selenium, Total	mg/L	LT 0.00025	LT 0.00025	LT 0.00025
Silica, Total	mg/L	11.8	9.8	14.2
Silver, Dissolved	mg/L	LT 0.0005	LT 0.0005	LT 0.0005
Silver, Total	mg/L	LT 0.0005	LT 0.0005	LT 0.0005
Sodium, Total	mg/L	7.65	4.15	5.14
Sulfate	mg/L	20.6	5.49	7.65
Total Dissolved Solids	mg/L	98	98	88
Total Suspended Solids	mg/L	LT 20	LT 20	LT 20
Zinc, Dissolved	mg/L	LT 0.05	LT 0.05	LT 0.05
Zinc, Total	mg/L	LT 0.05	LT 0.05	LT 0.05

8) If any component of the groundwater control system is not performing within the limits set forth in this permit, the permittee will be required to initiate appropriate compliance schedule activities, including the preparation of a response plan, for any and all components of the groundwater control system that do not meet the applicable

requirements. The permittee shall also conduct weekly sampling at RS-2 until such time as the other compliance schedule activity(ies) have been completed.

Compliance Action Taken: *As demonstrated by the information and data presented in this report, all components of the groundwater control system performed within the limits set forth in the permit. Therefore, site operations were in full compliance of Part I, Section 8 and there was no requirement(s) to initiate actions contained within the schedule of compliance for Section 8.*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is to the best of my knowledge and belief, is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Julio Madrid Signature: Julio Madrid

Date: January 26, 2022

APPROXIMATE SATURATED ALLUVIUM BOUNDARY

M-33 8536.09

M-31 8551.01

M-27 DRY

BF-6 8579.01

M-25 8541.50

M-11R 8551.42

M-23 8556.63

BF-3 8578.11

BF-4 8579.33

WATER TREATMENT FACILITY AND PARKING AREA

BF-5R 8579.10

APPROXIMATE SATURATED ALLUVIUM BOUNDARY

8540

8550

8560

8570

8580

8580

8590

8600

8610

M-26 8544.79

M-32 8535.88

M-24 8559.82

M-22 8573.10

M-20 8580.50

M-21 8577.67

M-19 8581.23

M-18 8580.28

M-28 8580.33

M-29 8580.86

M-30 8608.99

M-17 8587.08

M-16 8601.04

KEY

NORTH

SCALE IN FEET
0 200

GROUND WATER FLOW DIRECTION

8560 LINE OF EQUIPOTENTIAL HYDRAULIC HEAD

M-23 8555.72 WELL NAME / WATER LEVEL

NO	REVISION DESCR	DATE	BY
A			
B			
C			
1			
2			

ALLUVIAL GROUND WATER POTENTIOMETRIC SURFACE MAP

FOURTH QUARTER (OCTOBER 2021)

SAN LUIS PROJECT

Engineering Analytics, Inc.

ISSUED BY

Drawn By:	RDP
Designed By:	AF
Approved By:	AF
Date:	1/28/2022
Project:	210105.06
Scale:	1" = 200'
Sheet Number:	1

\\Dt...San Luis\POTENTIOMETRIC MAPS\GW Map 2021 4th qtr\Groundwater 2021 4th Qtr.dwg SAVED:1/16/22 PRINTED:1/28/22

REPORT REQUEST

Get Outlook for iOS

From: Division of Reclamation, Mining and Safety <dnr_drms_permitadmin@state.co.us>
Sent: Monday, February 21, 2022 12:05:58 AM
To: Julio Madrid <Julio.Madrid@newmont.com>
Subject: [EXTERNAL] Annual Fee, Report, and Map Due

02/21/22

Annual Fee, Report, and Map Due

Under the terms of your NOI or Permit and Colorado Statutes, you must submit an Annual Fee and Annual Report (including a map). You must pay the Annual Fee and submit an Annual Report each year until reclamation responsibility release is granted. The Annual Fee is not a renewal fee. The Fee and Report are for last year's exploration or mining and reclamation season, and must be paid even if your operation was inactive.

If you have requested reclamation responsibility release from the Division of Reclamation, Mining and Safety ("Division") but release has not been granted by the anniversary date listed below, the Annual Fee, Report and Map must be submitted. If the permit is released before the anniversary date, then by Statute, it is not necessary to pay an Annual Fee or submit an Annual Report for that year. The annual fee, report, and map are due on or before the Anniversary Date for the following operation:

Permit: M2008076

ePermit Number: 127925

Operation Name: San Luis Project

Anniversary Date: 03/23/22

Total Fee Due: $1,150.00

As of January 1, 2018, all annual reports, maps and fees must be filed electronically. If you have not yet set up your ePermitting account, click on the link below to get started:

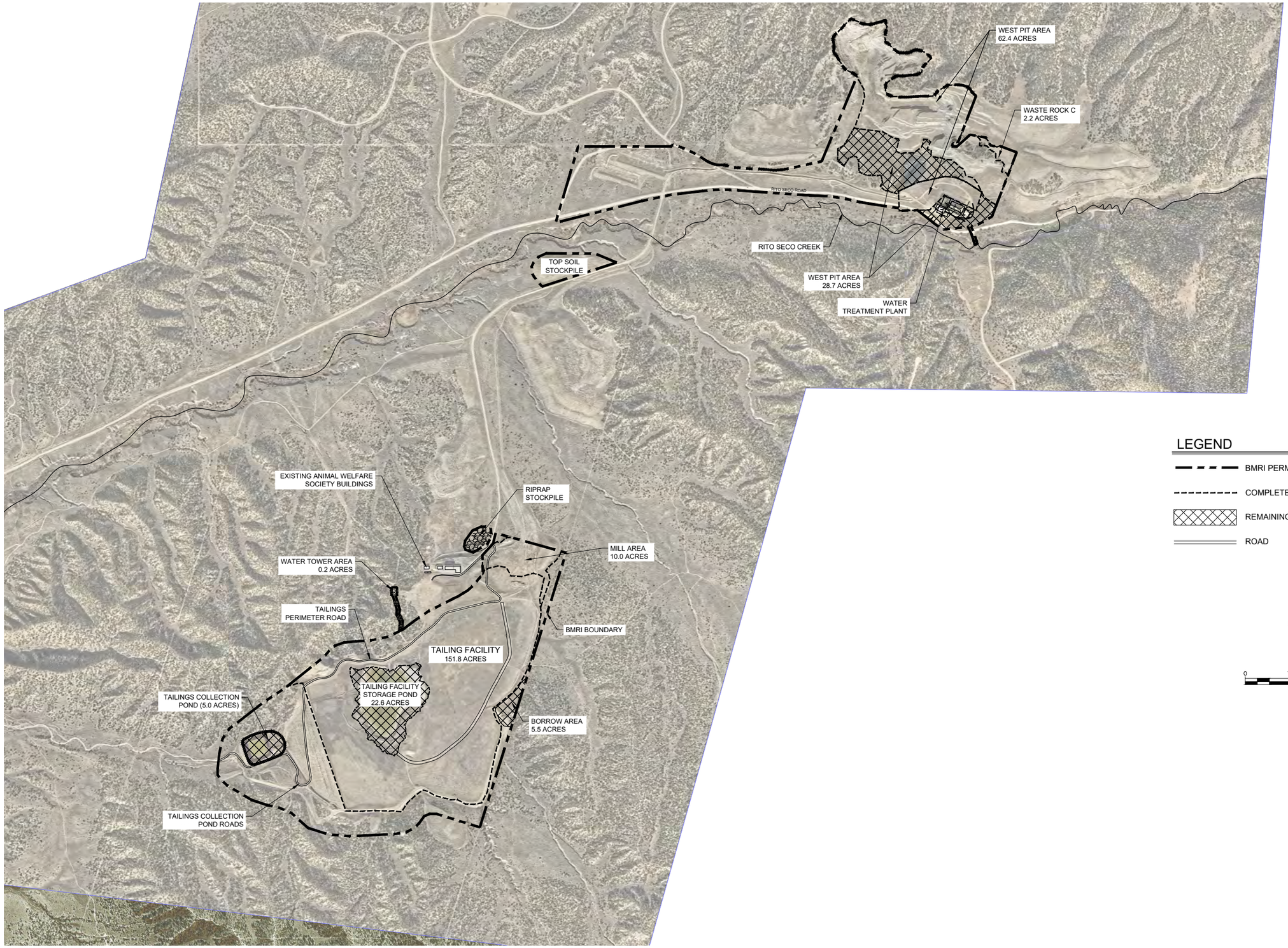
https://drms.colorado.gov/information/epermitting

If you have already established your ePermitting account, click on the link below to file your report, upload your map, and pay your fee online now.

https://dnrlaserfiche.state.co.us/Forms/DRMSeForms_LandingPage

If you need additional information or have any questions, please contact Lucas West at the Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at (303) 866-3567 x8187, or by email at lucas.west@state.co.us.

2021 SITE MAP



LEGEND

- BMRI PERMIT BOUNDARY
- COMPLETED RECLAMATION AREAS
- REMAINING RECLAMATION AREAS
- ROAD

N

0 700' 1,400'

NO	REVISION/DESCR.	DATE	BY

BATTLE MOUNTAIN RECLAMATION

2021 SAN LUIS PERMIT AREA

SITE MAP

Engineering Analytics, Inc.
1600 Specht Point Road, Suite 209
Fort Collins, CO 80525
(970) 488-3111

ISSUED BY:

Project Number:	210105.06
Drawn By:	RDP
Designed By:	MLC
Approved By:	MLC
Date:	3/15/2022
Scale:	1" = 1400'

Drawing Number:

1.0