



STATE OF
COLORADO

Zuber - DNR, Rob <rob.zuber@state.co.us>

Inspection Report

1 message

Zuber - DNR, Rob <rob.zuber@state.co.us>
To: Blue Mountain stone <bluemtnstone@gmail.com>

Fri, Feb 25, 2022 at 11:29 AM

Hello -

Attached is my report from my inspection last week. If Raul or other folks at Blue Mountain want to discuss this, I will be available Monday - Wednesday next week. I will be in the field this afternoon and next Thursday and Friday.

Regards,
Rob

Rob Zuber, P.E.
Environmental Protection Specialist
Active Mines Regulatory Program



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

I am working remotely and can be reached by cell at 720.601.2276.

Physical Address:

1313 Sherman Street, Room 215
Denver, CO 80203

Mailing Address:

Division of Reclamation, Mining and Safety, Room 215
1001 East 62nd Avenue
Denver, CO 80216

rob.zuber@state.co.us | <http://drms.colorado.gov>




INSP-REPORTMWP_M1987092_AME_02252022105023.pdf
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MINERALS PROGRAM INSPECTION REPORT
PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME: B & G Stone	MINE/PROSPECTING ID#: M-1987-092	MINERAL: Sandstone (silica, st quartzite)	COUNTY: Larimer
INSPECTION TYPE: Monitoring	INSPECTOR(S): Robert Zuber, P.E.	INSP. DATE: February 15, 2022	INSP. TIME: 09:00
OPERATOR: Blue Mountain Stone, Inc.	OPERATOR REPRESENTATIVE: Raul Vasquez, Buda Vasquez	TYPE OF OPERATION: 110c - Construction Limited Impact	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$14,170.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: February 25, 2022

The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.

INSPECTION TOPIC: Hydrologic Balance

PROBLEM/POSSIBLE VIOLATION: Problem: The site is improperly impounding surface runoff or exposing groundwater without approval from the Division of Water Resources (DWR). This issue has been noted in previous DRMS inspections.

CORRECTIVE ACTIONS: Submit documentation from DWR demonstrating that the impoundment of water in this pit is authorized by that office. If it is exposed groundwater, also demonstrate that a well permit has been obtained.

Alternatively, backfill the pit or remove impediments to proper surface drainage and provide proof to the Division (e.g., photographs) that this has been completed.

CORRECTIVE ACTION DUE DATE: 5/13/22

INSPECTION TOPIC: Signs & Markers

PROBLEM/POSSIBLE VIOLATION: Problem: The permit boundary markers appear to be incorrectly placed, per an approved map in the documentation for this site (provided below in this report). This is a problem for failure to maintain boundary markers around the permit area as required by Section 3.1.12(2) of the rule.

CORRECTIVE ACTIONS: The operator shall address the discrepancy related to the boundary. If a new map is required, please submit a Technical Revision by the corrective action date. Otherwise, place the boundary markers in the locations that match the map and provide proof to the Division that this has been done by the corrective action date.

CORRECTIVE ACTION DUE DATE: 5/13/22

OBSERVATIONS

Rob Zuber of DRMS inspected B&G Stone on February 15, 2022. Raul Vasquez and Buda Vasquez of Blue Mountain Stone, Inc. were present for the entire inspection. The site is a 110C operation and is a currently active sandstone quarry. The permit area is 9.9 acres.

The site includes one pit with approximate dimensions of 200 feet by 100 feet by 15 feet deep. The Division estimates that approximately 7,300 cubic yards of material will have to be moved to fill the pit.

The weather was clear, and the temperature was very warm for February. The ground was very muddy from recent snow.

Backfilling and Grading:

Backfilling has been conducted over a significant portion of the site.

Financial Warranty:

The Division has updated the Reclamation Cost Estimate for B&G Stone and is including it with this inspection report as an enclosure. The new estimate is \$13,800. The financial warranty was found to be adequate to complete reclamation at the site.

Hydrologic Balance:

There was no indication that runoff from the site is causing problems off site.

There is impounded surface water or groundwater at the site. Per the regulations of the Division of Water Resources (DWR), this water cannot be impounded for more than 72 hours unless water rights have been approved. Also, if this water is groundwater, a well permit must be obtained. Blue Mountain Stone will need to secure approval from DWR to impound this water, backfill the pit, or regrade to provide positive drainage of the area.

Off-site Damage:

Based on the inspection and looking at Google Earth photographs, the Division has determined that the disturbance at B&G Stone has not expanded beyond the permit boundary. Also, the rubble on the southern edge of the site appears to be stable over many years.

Revegetation:

No sign of revegetation activity was seen at the site. No weeds were seen.

The area that will require seeding per the reclamation plan is approximately 6.9 acres.

Support Facilities On-site:

Process equipment and a large pile of road base material were present on the lower portion of the site, to the east of the pit. There is no fuel storage at this site.

Topsoil:

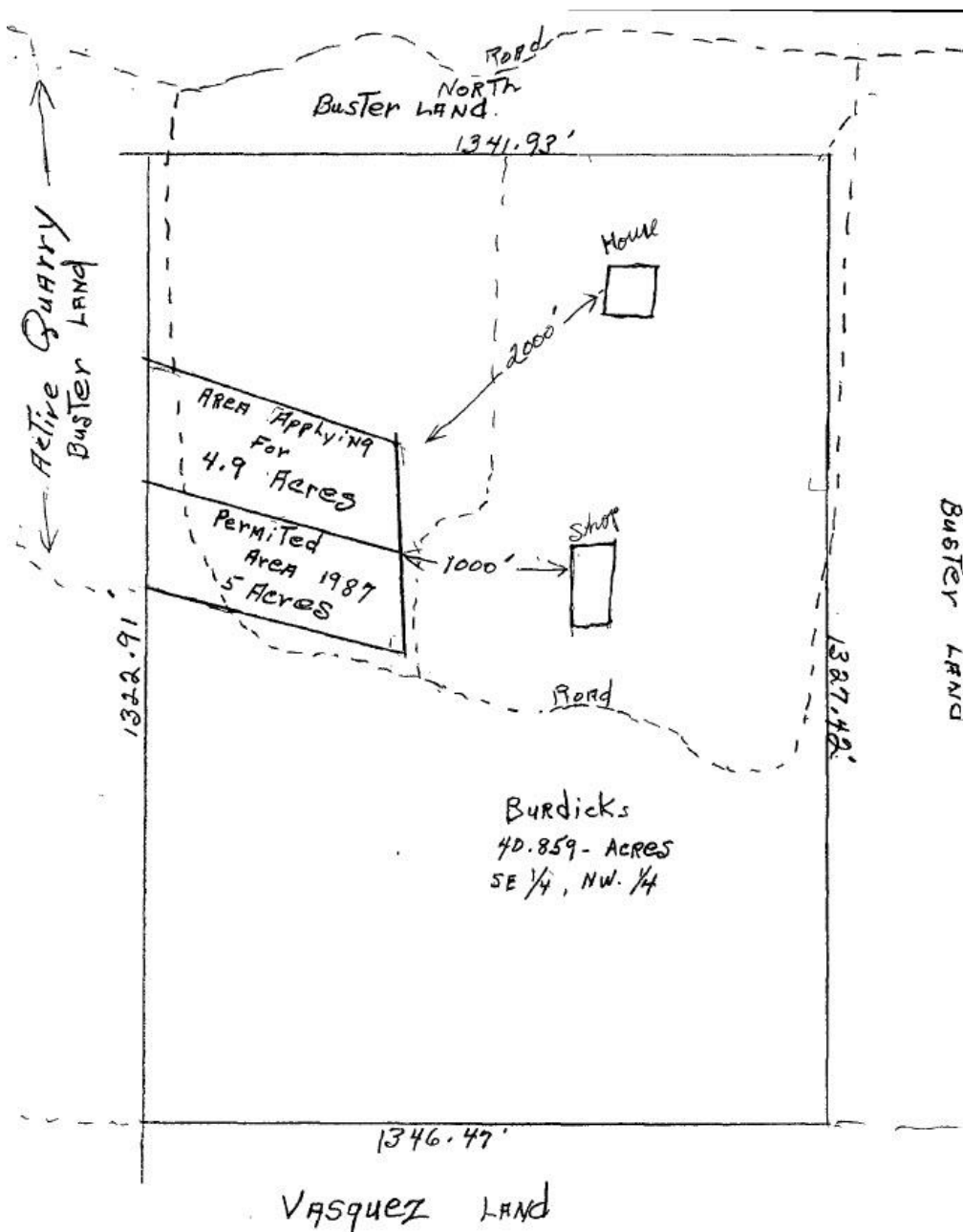
Material to be used as plant growth medium is seen on the sides of the pit. Due to the rocky nature of this material, it is not likely to erode.

Per the reclamation plan, the area that will require the plant growth medium is approximately 6.9 acres.

Signs and Markers:

The entrance sign included the necessary information.

Permit boundary markers were seen at many locations around the site, but they appear to be incorrect. The markers are in an "L" shape, but the approved permit boundary is approximately a rectangle, as shown in the map below from the amendment application (AM-01). Note that some road locations and the distances to the structures appear to be incorrect on this map. Also, the designation "Burdicks" is antiquated (it was accurate when AM-01 was processed in 2003). However, the general layout appears to be correct.



PHOTOGRAPHS



Pit near west end of site



Eastern area that has been backfilled and graded

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>PB</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>NA</u>	(SF) PROCESSING FACILITIES----- <u>Y</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>Y</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>PB</u>	(SP) STORM WATER MGT PLAN---- <u>NA</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>NA</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>NA</u>
(AT) ACID OR TOXIC MATERIALS----- <u>Y</u>	(OD) OFF-SITE DAMAGE----- <u>Y</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

Inspection Contact Address

Raul Vasquez, Buda Vasquez
Blue Mountain Stone, Inc.
P O Box 946
Lyons, CO 80540

Enclosure

CC: Michael Cunningham, DRMS

COST SUMMARY WORK

Task description: Cost Summary

Site: B & G Stone

Permit Action: Inspection 2022

Permit/Job#: M1987092

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 2/24/2022

County: Larimer

Filename: M092-000

User: RDZ

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill pit with material on edge of pit	DOZER	1	8.33	\$2,213
002	Spread growth medium from upper and lower piles	DOZER	1	14.80	\$3,933
003	Seed all of site	REVEGE	1	7.00	\$4,082
004	Mob/Demob	MOBILIZE	1	1.42	\$1,396
<u>SUBTOTALS:</u>				31.55	\$11,624

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$235

Performance bond: 1.05

Total = \$122

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$1,162

TOTAL O & P = \$1,519

CONTRACT AMOUNT (direct + O & P) = \$13,143

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$657

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$2,176

TOTAL BOND AMOUNT (direct + indirect) = \$13,800

BULLDOZER WORKTask description: Backfill pit with material on edge of pitSite: B & G StonePermit Action: Inspection 2022Permit/Job#: M1987092**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 2/24/2022County: LarimerFilename: M092-001User: RDZAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 1-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$97.46	NA
Operating Cost/Hour:	\$97.63	100
Ripper own. Cost/Hour:	\$19.34	NA
Ripper op. Cost/Hour:	\$11.24	100
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: \$265.71Total Fleet Cost/Hour: **\$265.71****MATERIAL QUANTITIES**Initial Volume: 7,300Swell factor: 1.000Loose volume: **7,300** LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,400.0 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: -5 %Average site altitude: 6,300 feetMaterial weight: 2,550 lbs/LCYWeight description: Sandstone**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6261

Adjusted unit production: 876.54 LCY/hr

Adjusted fleet production: **876.54** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.303/LCY

Total job time: **8.33** Hours

Total job cost: **\$2,213**

BULLDOZER WORKTask description: Spread growth medium from upper and lower pilesSite: B & G StonePermit Action: Inspection 2022Permit/Job#: M1987092**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 2/24/2022County: LarimerFilename: M092-002User: RDZAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: 1-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$97.46	NA
Operating Cost/Hour:	\$97.63	100
Ripper own. Cost/Hour:	\$19.34	NA
Ripper op. Cost/Hour:	\$11.24	100
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: \$265.71Total Fleet Cost/Hour: **\$265.71****MATERIAL QUANTITIES**Initial Volume: 5,600Swell factor: 1.000Loose volume: **5,600** LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 150 feetUnadjusted hourly production: 634.3 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 0 %Average site altitude: 6,300 feetMaterial weight: 2,400 lbs/LCYWeight description: Sand - Dry, loose**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5964

Adjusted unit production: 378.30 LCY/hr

Adjusted fleet production: **378.3** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.702/LCY

Total job time: **14.80** Hours

Total job cost: **\$3,933**

REVEGETATION WORKTask description: Seed all of siteSite: B & G StonePermit Action: Inspection 2022Permit/Job#: M1987092PROJECT IDENTIFICATIONTask #: 003State: ColoradoAbbreviation: NoneDate: 2/24/2022County: LarimerFilename: M092-003User: RDZAgency or organization name: DRMSFERTILIZING**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Big Bluestem - Kaw	0.69	2.06	\$9.21
Blue Grama - Lovington	0.12	1.88	\$1.84
Sideoats Grama - Butte	0.34	1.12	\$3.06
Little Bluestem - Pastura	0.27	1.58	\$3.57
Western Wheatgrass - Arriba	2.40	6.06	\$15.60
Totals Seed Mix	3.81	12.69	\$33.28

Application

Description	Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)	\$440.00
Total Seed Application Cost/Acre	\$440.00

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres: 6.9
 Estimated Failure Rate: 25%
 *Selected Replanting Work Items: SEEDING

Cost /Acre: \$473.28
 Cost /Acre*: \$473.28

Initial Job Cost: **\$3,265.63**
 Reseeding Job Cost: **\$816.41**
 Total Job Cost: **\$4,082**
 Job Hours: **7.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob/Demob**Site: **B & G Stone**Permit Action: Inspection 2022Permit/Job#: M1987092**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 2/24/2022County: LarimerFilename: M092-004User: RDZAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,
400 HP (2ND HALF, 2006)Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT
TRAILER (25T, 50T, AND 100T)**Cost Breakdown:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$21.28	\$37.94	\$47.67
Operating Cost/Hour:	\$26.55	\$50.48	\$56.21
Operator Cost/Hour:	\$20.54	\$20.54	\$20.54
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$68.37	\$132.49	\$147.95

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU	52.21	\$116.80	\$147.95	1	\$264.75	\$147.95	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00

Subtotals: **\$341.10** **\$216.32** **\$500.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
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Subtotals: **\$0.00** **\$0.00**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	LONGMONT	
Total one-way travel distance:	16.00	miles
Average Travel Speed:	45.00	mph

Total Non-Roadable Mob/Demob Cost *	\$1,396.39
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$0.00
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.36	0.36
Return Time (Hours):	0.36	0.36
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	0.71	0.71

JOB TIME AND COST

Total job time: 1.42 Hours

Total job cost: \$1,396