

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:		MINE/PROSPECTING ID#:	MINERAL:	COUNTY:	
Beeman Pit #1		M-2002-009	Sand and gravel	Pueblo	
INSPECTION TYPE:		WEATHER: Clear	INSP. DATE:	INSP. TIME:	
Monitoring			April 5, 2023	10:00	
OPERATOR:		OPERATOR REPRESENTATIVE:	TYPE OF OPERA	ATION:	
Martin Marietta Materials, Inc.		Julie Mikulas	112c - Construction	112c - Construction Regular Operation	
REASON FOR INSPECTION:		BOND CALCULATION TYPE:	BOND AMOUNT	BOND AMOUNT:	
Normal I&E Program		Complete	\$62,335.00		
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AG	ENCY:	
NA		None	None		
INSPECTOR(S):	INSPE	CTOR'S SIGNATURE:	SIGNATURE DA'	ГЕ:	
Amber Michels		Sulver Markely	May 9, 2023		

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

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

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

PERMIT #: M-2002-009 INSPECTOR'S INITIALS: ANM INSPECTION DATE: April 5, 2023

OBSERVATIONS

This inspection was conducted as part of the Division's routine monitoring program for permitted operations. Amber Michels, with the Division of Reclamation, Mining, and Safety (Division) conducted the inspection while Julie Mikulas, representing the Operator, accompanied me during the inspection.

The Beeman Pit #1 is a Construction Material Regular 112c Operation Reclamation Permit for 45 acres and is approved to affect a maximum of 20 acres of land. Affected lands will be reclaimed to support a rangeland post-mining land use. The site is located 3 miles southwest of Vineland, Colorado. The Beeman Pit #1 site is located east of one of the Operator's other permits, the Cortner Pit (M-1986-159).

The Division met Mrs. Mikulas at the mine site entrance on the south side of Cortner Road, approximately 1.5 miles east of 27th Lane/Doyle Road. The Beeman Pit may only be accessed through the Cortner Pit. Mining operations have not yet begun at this site.

Financial Warranty:

The Division's 2018 inspection report indicated the Operator had planned to release the permit. During the current 2023 inspection, the Operator was asked if they still plan to release the permit and they stated that they do. If this is the case, the Operator can submit a release request for the site. There is a form available on Division's website (https://drive.google.com/file/d/1S7XBbituMeKorliHjEgJhnNCwjJhdZWI/view) which the Operator can fill out and send to the Division via certified mail without other correspondence.

The current bond held by the Division for this site is in the amount of \$62,335. The Division updated the cost estimate to reflect present day cost and the required surety is in the amount of \$125,071 a difference of \$62,736. The Division's cost estimate is enclosed with this report. The Operator will have 14 days (May 23, 2023), from the issuance of this report to submit any questions on the cost estimate. If no questions are received, the Division will issue a surety increase notice for the difference. The Operator will have 60 days from the date of the notice to submit and obtain acceptance of the increase from the Division in accordance with Rule 4.2.1(2).

Hydrologic Balance:

No water was observed onsite during the inspection.

Signs and Markers:

A mine sign was posted on the entrance gate located east of Cornter Road alongside the sign for the Operator's adjacent Cornter Pit (Photo 1). The mine sign posted for the Beeman Pit #1 complies with Rule 3.1.12(1).

No boundary markers have been installed at the site. The Operator is aware that if they were to begin mining, boundary markers delineating the land to be affected would need to be installed prior to disturbance. Photos were taken around the pit that show the land from various directions are georeferenced in Map 1.

Conclusion:

This concludes the Division's Inspection Report; a map displaying topics discussed during the inspection and a subset of corresponding photographs that were taken during the time of the inspection are included below. If

PERMIT #: M-2002-009 INSPECTOR'S INITIALS: ANM INSPECTION DATE: April 5, 2023

you need additional information or have any questions, please contact me by email at amber.michels@state.co.us or by telephone at (720) 836-0967.

Inspection Contact Address

Julie Mikulas Martin Marietta Materials, Inc. 1800 N. Taft Hill Road Fort Collins, CO 80521

Enclosure: DRMS Updated Reclamation Cost Estimate

CC: Jared Ebert, DRMS

PHOTOGRAPHS



Photo 1: Looking east into the Corner Pit at the entrance sign for both the Cornter Pit (M-1986-159) and the Beeman Pit #1 (M-2002-009).



Photo 2: Looking east into the pit area at the entrance from the Cortner pit to the Beeman Pit #1. This entrance is located on the border of the Cortner and Beeman Pit #1's and is the only entrance to the Beeman Pit #1 in the permitted area.



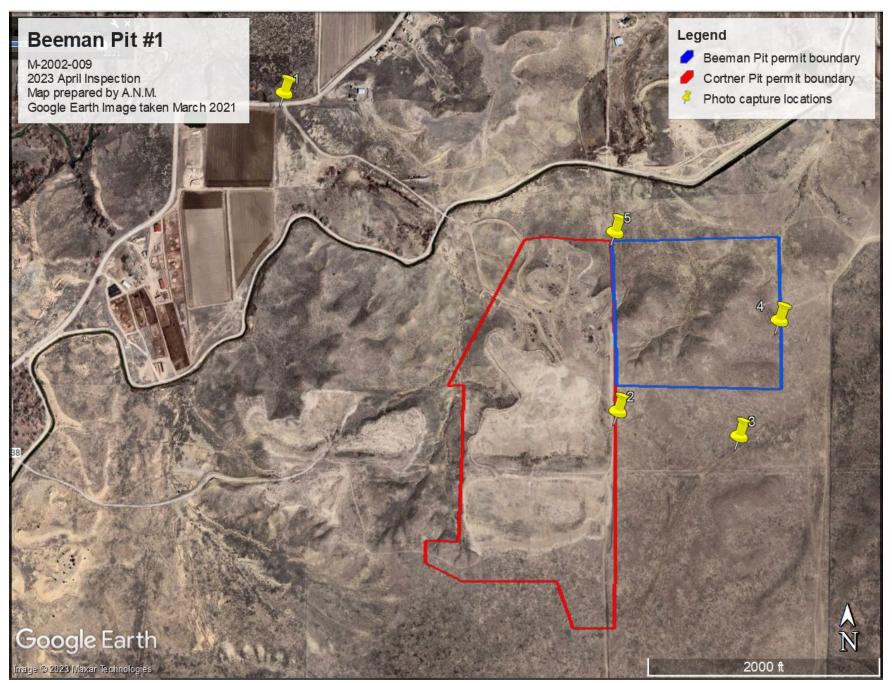
Photo 3: Looking north-east across the Beeman Pit #1. The yellow arrow indicates the location where Photo 4 was taken.



Photo 4: Looking south-west across the Beeman Pit #1 from the top of the location indicated in Photo 3 by the yellow arrow.



Photo 5: Looking east across the Beeman Pit #1 from its north-west corner.



Map 1: Map generated from Google Earth Pro showing approximate permit boundaries for the Beeman Pit #1 and the adjacent Cortner Pit. The yellow pins indicate the locations where the corresponding photos were taken.

COST SUMMARY WORK

7	Task description: Updated cost e	stimate for th	e Beeman Pit #1					
Site:	Beeman Pit #1	ermit Action:	2023 Inspection		Permit/	Job#:	M2002009	
<u>P</u>	ROJECT IDENTIFICATION							
	Task #: 000 State:	Colorado		,	Abbreviation	. I	None	
	Date: 5/8/2023 County:				Filename		M009-000	
	User: ANM				1 1101101111			
	A	DMC						
	Agency or organization name:	ORMS						
<u>T</u> .	ASK LIST (DIRECT COSTS)							
			Form	Fleet	Task			
Task	Description		Used	Size	Hours		Cost	
001	Rough grade working face from 1:1 to	3:1	DOZER	1	123.70		\$35,031	
002	Spread 6 inches of topsoil over 20 acre	S	DOZER	1	89.37		\$25,308	
003	Revegetate 20 Acres		REVEGE	1	20.00		\$30,479	
004	Mob/Demob		MOBILIZE	1	2.72		\$2,192	
			<u>SUBTO</u>	TALS:	235.	.79	\$93,010	
	NDIRECT COSTS VERHEAD AND PROFIT:							
	Liability insurance: 2.02				Total =	\$1,8		
	Performance bond: 1.05				Total =	\$97		
	Job superintendent: 117.90 Profit: 10.00				Total = Total =	\$8,8 \$9,3		
	110Ht. 10.00			TOTAL	O & P =	\$21,		
		CONTR	RACT AMOUNT		_		4,024	
					_	•		
LI	EGAL - ENGINEERING - PROJECT MAI	NAGEMENT:						
	Financial warranty processing (legal/rel		\$500		Total =	\$500		
	Engineering work and/or contract/bid p		4.25	-	Total =	\$4,8		
	Reclamation management and/or adn	ninistration:	5.00	-	-	\$5,7	701	
	CONT	INGENCY:	0.00		Total =	\$0		
			TOTAL IN	DIRECT	COST =	\$32,	,061	
		TOTAL BON	ND AMOUNT (di	irect + in	ndirect) = _	\$125	5,071	

BULLDOZER WORK

Task description:	Rough gr	ade wo	rking face f	rom 1:1 to 3:1			
te: Beeman Pit #1		Per	mit Action:	2023 Inspection	Permit/Jo	b#: <u>M200</u>	2009
PROJECT IDENTIF	<u>ICATION</u>						
Task #: 001 Date: 5/8/2023 User: ANM		State: unty:	Colorado Pueblo		Abbreviation: Filename:	None M009-00	1
Agency or orga	nization name	: DR	MS				
HOURLY EQUIPME	ENT COST						
Basic Machine: Ca	at D8T - 8SU						
Horsepower: 31	0			-			
Blade Type: Se	mi-Universal			-			
Attachment: 1-	shank ripper			-			
Shift Basis: 1 ₁	per day			=			
	CRG)			-			
Cost Breakdown:			1				
o ~			0161 6=	<u>Utilization %</u>			
Ownership Cost/Hour:			\$124.85	NA			
Operating Cost/Hour:			\$97.63	100			
Ripper own. Cost/Hour:			\$16.38	NA			
Ripper op. Cost/Hour:			\$4.30	50			
Operator Cost/Hour:			\$40.04	NA			
	147		_				
	147 LCY		_				
Loose voiume. 22,	147 LC I		_				
Source of estimated vol		rmit Ap timate	-	lequacy Response/DR	MS 2002		
Source of estimated sw factor:	ell Ca	t Hand	book				
HOURLY PRODUC	<u> TION</u>						
Average push distance:	250 :	feet					
Unadjusted hourly production:		8 LCY/	hr				
Materials consistency description:	_	Consoli	dated stockp	ile 1.0			
Average push gradient:	0 %						
Average site altitude:	4,800 feet						
Material weight:	2 900 lbs/I	CY					

Weight description:	Sand	and gravel - Dry	
Job Condition Correction 1	Factor		<u>Source</u>
Operator S	Skill:	0.750	(AVG.)
Material consiste	ency:	1.000	(CAT HB)
Dozing met	thod:	1.200	(SLOT)
Visib	ility:	1.000	(AVG.)
Job efficie	ency:	0.830	(1 SHIFT/DAY)
Spoil	pile:	0.800	(FND-RF)
Push grad	lient:	1.000	(CAT HB)
Alti	tude:	1.000	(CAT HB)
Material We	eight:	0.793	(CAT HB)
Blade	type:	1.000	(PAT)
Net correc	ction:	0.4739	
Adjusted unit production:	17	9.04 LCY/hr	
Adjusted fleet production:	17	9.04 LCY/hr	

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$1.582/LCY

Total job time: 123.70 Hours
Total job cost: \$35,031

BULLDOZER WORK

Task description:	Spread	6 inches	of topsoil ov	er 20 acres		
te: Beeman Pit #1		Pe	rmit Action:	2023 Inspection	Permit/Jo	b#: <u>M2002009</u>
PROJECT IDENTIF	CATION					
Task #: 002 Date: 5/8/2023 User: ANM		State: County:	Colorado Pueblo		Abbreviation: Filename:	None M009-002
Agency or orga	 anization nar	ne: DF	RMS			
HOURLY EQUIPMI		_				
	at D8T - 8SU	J		-		
Horsepower: 31				-		
J1	emi-Universa			-		
	shank ripper	•		=		
	per day CRG)			-		
Cost Breakdown:	.110)			-		
				Utilization %		
Ownership Cost/Hour:	<u>'</u>		\$124.85	NA		
Operating Cost/Hour:			\$97.63	100		
Ripper own.			\$16.38	NA		
Cost/Hour:						
Ripper op. Cost/Hour:			\$4.30	50		
Operator Cost/Hour:			\$40.04	NA		
Total unit Cost/Hour:	\$283.20					
Total Fleet Cost/Hour:	\$283.20			 ;		
MATERIAL QUANT	<u> </u>					
Initial Volume:16,	,000		<u></u>			
Swell factor: 1.0	00					
Loose volume: 16,	,000 LCY					
Source of estimated vo		Permit A Cost Esti		lequacy Response/200	2 DRMS	
Source of estimated sw		Cat Hand				
factor:	en	Саі папо	DOOK			
lactor.						
HOURLY PRODUC	TION					
Average push distance:	: 25	0 feet				
Unadjusted hourly		7.8 LCY	/hr			
production:						
Materials consistency		Consol	idated stockp	ile 1.0		
description:		-				
Average push	0 %					
gradient:	1 000 f-	at				
Average site altitude:	4,800 fee	ะเ				
Material weight	2 900 lbs	s/LCV				

Weight description:	Sand and gravel - Dry	
Job Condition Correction Fac	etor	Source
Operator Ski		(AVG.)
Material consistence	ey: 1.000	(CAT HB)
Dozing metho	od: 1.200	(SLOT)
Visibili	ty: 1.000	(AVG.)
Job efficience	ey: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.000	(CAT HB)
Altituo	le: 1.000	(CAT HB)
Material Weigl	nt: 0.793	(CAT HB)
Blade typ	pe: 1.000	(PAT)
Net correction	on: 0.4739	
Adjusted unit production:	179.04 LCY/hr	
Adjusted fleet production:	179.04 LCY/hr	

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$1.582/LCY

Total job time: 89.37 Hours
Total job cost: \$25,308

\$113.69

REVEGETATION WORK

=	Revegetate 20 Acres				
: Beeman Pit #1	Permit A	ction: 2023	Inspection	Permit/Job#	: <u>M2002009</u>
PROJECT IDENTIF	<u>TICATION</u>				
Task #: 003 Date: 5/8/2023 User: ANM	State: Color County: Pueb				None M009-003
Agency or orga	anization name: DRMS				
FERTILIZING					
Materials					
Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
Potassium nitrate, 13-	-46-0	20.00	pound	\$1.36	\$27.20
				Total Fertilizer Materials	

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Total Tilling Cost/Acre	\$117.18

Total Fertilizer Application Cost/Acre

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Lovington	0.90	14.69	\$14.38
Switchgrass - Nebraska 28	0.50	4.47	\$6.75
Sand Dropseed	0.10	11.94	\$0.98
Sideoats Grama - Vaughn	4.50	14.77	\$37.69
Totals Seed Mix	6.00	45.87	\$59.79

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$232.00

Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$842.72

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$73.00
Total Mulch Application Cost/Acre	\$73.00

JOB TIME AND COST

No. of Acres:	20	Cost /Acre:	\$1,465.58
Estimated Failure Rate:	20%	Cost /Acre*:	\$291.79
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: \$29,311.60

Reseeding Job Cost: \$1,167.16

Total Job Cost: Job Hours: 20.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mob/Demob				
ite: Beeman Pit #1	Perm	it Action: 2023	Inspection	Permit/Jo	b#: <u>M2002009</u>
PROJECT IDENTIFICA	ATION				
Task #: 004 Date: 5/8/2023 User: ANM		Colorado Pueblo		Abbreviation: Filename:	None M009-004
Agency or organiza	ation name: DRM	[S			
EQUIPMENT TRANSP	ORT RIG COST				
Truck Tractor D	Description: GEN	ERIC ON-HIGH	Cost Da	ta Source: CACTOR, 6X4,	1 per day CRG Data DIESEL POWERED
Truck Trailer D	Description:		OING GOOSENE	CK, DROP DEC	~
		,	ΓRAILER (25T, 5	0T, AND 100T)	
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons		
Ownership Cost/Hou	ır: \$15.25	\$23.06	\$37.58		
Operating Cost/Hou	ır: \$25.26	\$30.83	\$51.41		
Operator Cost/Hou	ır: \$27.71	\$27.71	\$27.71		
Helper Cost/Hou	ır: \$0.00	\$20.22	\$20.22		
Total Unit Cost/Hou	ır: \$68.22	\$101.82	\$136.92		

NON ROADABLE EQUIPMENT:

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
_	(TONS)				fleet		
Cat D8T - 8SU	52.21	\$141.23	\$136.92	1	\$278.15	\$136.92	\$250.00
Drill/Broadcast	25.00	\$6.25	\$68.22	2	\$148.94	\$136.44	\$250.00
Seeder with							
Tractor							

Subtotals: \$427.09 \$273.36 \$500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$14.23	1	\$14.23	\$14.23
Fuel Tanker, 4x2, 170 HP	\$69.51	1	\$69.51	\$69.51
Lube Truck, 4x2, 190 HP	\$76.19	1	\$76.19	\$76.19
Water Tanker, 2,500 Gal.	\$69.51	1	\$69.51	\$69.51

Subtotals: \$229.44 \$229.44

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

PUEBLO
miles
55.00
mph

Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$2,108.89	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$83.43	

<u>Transportation Cycle Time:</u>

Non-	
Roadable	Roadable
Equipment	Equipment
0.18	0.18
0.18	0.18
0.50	NA
0.50	NA
1.36	0.36
	Roadable Equipment 0.18 0.18 0.50 0.50

JOB TIME AND COST

Total job time:	2.73	Hours
Total job cost:	\$2,192	