




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: M & G Pit	MINE/PROSPECTING ID#: M-1986-079	MINERAL: Sand and gravel	COUNTY: Adams
INSPECTION TYPE: Monitoring	INSPECTOR(S): Patrick Lennberg	INSP. DATE: June 9, 2020	INSP. TIME: 14:00
OPERATOR: Mann Lake Holdings, LLC	OPERATOR REPRESENTATIVE: Andrew Blackford	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$243,300.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Windy	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: June 12, 2020	

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

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

OBSERVATIONS

The M & G Pit was inspected by Patrick Lennberg with the Division of Reclamation, Mining and Safety (Division/DRMS). The inspection was completed at the request of the Operator. The site was previously inspected by the Division on December 20, 2017 as part of a Succession of Operators application. Andrew Blackford, representing the Operator Mann Lake Holding LLC, accompanied me during the inspection. The weather was partly cloudy and windy, a strong rain storm during the morning hours had passed over the site leading to muddy conditions and standing water.

The entrance to the M & G Pit is 650 feet south of the intersection of East 120th Parkway and Brighton Road near Henderson, CO in Adams County. A mine sign was observed as required by Rule 3.1.12 and the site is surrounded by a fence.

The Operator requested the Division perform an inspection to determine what the current bond amount would be given the state of reclamation at the site. In the previous inspection the bond was calculated to be \$243,300.00. The majority of the bond amount was allocated to backfilling 17.36 acres of exposed groundwater and placement of topsoil over 44.6 acres of the permit area. At the time of this inspection all exposed groundwater had been backfilled and topsoil had been placed in all the areas needing it. Additionally, the entire site had been seeded and mulched, only a small area near the entrance required seeding and mulching but Andrew stated it would be completed by the end of June.

As part of the site reclamation a swale was put in to control water flowing from the south to the north end of the permit boundary. The Operator stated that the water has been an issue at the site since they took the permit over. It is unclear the source of the water. It could be leakage from the Fulton Ditch that borders the permit along the south and east side, the developed water storage, or runoff from the subdivision both to the south. The swale was constructed after all the exposed groundwater was covered. The slopes adjacent to swale are all 3H:1V or shallower. As stated in the previous inspection report the currently approved reclamation plan calls for leaving open water ponds. A technical revision will have to be filed with the Division to revise the final proposed configuration of the site and supply details regarding the post mining swale that has been constructed at the site.

Currently the site has an approved Substitute Water Supply Plan that accounts for depletions associated with exposed groundwater. The Operator is encouraged to check with their consultant to verify that all depletions have been accounted for and there are no outstanding lagged depletions.

The Division evaluated the financial warranty and estimated the current liability at the site to be \$31,403 which is \$211,897 less than the current bond amount of \$243,300. The Operator may submit a surety reduction request to lower the required liability to \$31,403. The Operator should note that the bond amount may be adjusted as needed on review and approval of the needed technical revision. A copy of the Division's cost estimate along with form needed to request a surety reduction are enclosed with this report.

Photographs taken during the inspection are attached.

Please contact Patrick Lennberg (303)866-3567 ext. 8114 or email at patrick.lennberg@state.co.us if you have any questions regarding this report.

Inspection Contact Address

Andrew Blackford
Mann Lake Holdings, LLC
2027 W. Colfax Avenue
Denver, CO 80204

Enclosure Division's Reclamation Cost Estimate
Request for Full or Partial Release of Permit Area/Surety Reduction

cc: Jared Ebert, Division of Reclamation, Mining and Safety

ec: Andrew Blackford, Mann Lake Holdings, LLC, ablackford@ceiconstructors.com

PHOTOGRAPHS



Photo 1: Mine sign at mine entrance off of Brighton Road



Photo 2: Outlet of swale in the northern portion of site near intersection



Photo 3: Typical configuration and condition of swale, looking south



Photo 4: Typical road crossing over swale, one of two at the site



Photo 5: Typical site conditions and state of reclamation



Photo 6: Swale near the southern end of the site



Photo 6: Typical conditions of reclamation in the southern portion of the site



Photo 8: Area of inflow to the site that is captured in the swale and conveyed across the site

COST SUMMARY WORK

Task description: Cost Summary

Site: M & G Pit

Permit Action: 2020 Inspection

Permit/Job#: M1986079

PROJECT IDENTIFICATION

Task #: 999

State: Colorado

Abbreviation: None

Date: 6/11/2020

County: Adams

Filename: M079-999

User: JPL

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Re-seeding Costs	REVEGE	1	40.00	\$15,454
002	Weed control entire site	REVEGE	1	20.00	\$6,145
003	Mobilization and Demobilization	MOBILIZE	1	2.80	\$1,492
<u>SUBTOTALS:</u>				62.8	\$23,091

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$466

Performance bond: 1.05

Total = \$242

Job superintendent: 31.40

Total = \$2,179

Profit: 10.00

Total = \$2,309

TOTAL O & P = \$5,197

CONTRACT AMOUNT (direct + O & P) = \$28,288

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$1,202

Reclamation management and/or administration: 5.00

\$1,414

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$8,313

TOTAL BOND AMOUNT (direct + indirect) = \$31,404

REVEGETATION WORKTask description: Re-seeding CostsSite: M & G PitPermit Action: 2020 InspectionPermit/Job#: M1986079**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 6/11/2020County: AdamsFilename: M079-001User: JPLAgency or organization name: DRMS**FERTILIZING****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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$101.93
Total Tilling Cost/Acre	\$101.93

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Switchgrass - Blackwell	0.50	4.47	\$5.75
Blue Grama - Lovington	0.60	9.79	\$9.59
Little Bluestem - Pastura	0.70	4.18	\$9.44
Sideoats Grama - Vaughn	0.90	2.95	\$7.54
Slender Wheatgrass - Native	1.10	4.02	\$5.09
Milk Vetch, Cicer - Monarch	1.30	4.33	\$10.66
Streambank Wheatgrass - Sodar	1.10	3.59	\$6.27
Western Wheatgrass - Barton	3.20	8.08	\$22.40
		41.40	\$76.73

Totals Seed Mix	9.40		
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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
			\$	\$
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:	35	Cost /Acre:	\$410.66
Estimated Failure Rate:	10%	Cost /Acre*:	\$308.73
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$14,373.10
Reseeding Job Cost:	\$1,080.56
Total Job Cost:	\$15,454
Job Hours:	40.00

REVEGETATION WORKTask description: Weed control entire siteSite: M & G PitPermit Action: 2020 InspectionPermit/Job#: M1986079**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 6/11/2020County: AdamsFilename: M079-002User: JPLAgency or organization name: DRMS**FERTILIZING****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
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre	\$0.00
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MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	4.00	ACRE	\$2.74	\$10.96
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	2.00	ACRE	\$4.16	\$8.32
Total Mulch Materials Cost/Acre				\$19.28

Application

Description	Cost /Acre
Weed spray, truck, aquatic area, nox. [DMG]	\$68.50
Total Mulch Application Cost/Acre	\$68.50

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:	70	Cost /Acre:	\$87.78
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost:	\$6,144.60
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$6,145
Job Hours:	20.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilization and Demobilization**Site: **M & G Pit**Permit Action: **2020 Inspection**Permit/Job#: **M1986079****PROJECT IDENTIFICATION**Task #: **003**State: **Colorado**Abbreviation: **None**Date: **6/11/2020**County: **Adams**Filename: **M079-003**User: **JPL**Agency or organization name: **DRMS****EQUIPMENT TRANSPORT RIG COST**Shift basis: **1 per day**Cost Data Source: **CRG Data**Truck 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:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

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
Drill/Broadcast Seeder with Tractor	25.00	\$18.15	\$67.39	2	\$171.08	\$134.78	\$500.00

Subtotals: **\$171.08** **\$134.78** **\$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.	\$69.36	1	\$69.36	\$69.36

Subtotals: **\$69.36** **\$69.36**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>BRIGHTON, CO</u>	
Total one-way travel distance:	<u>6.40</u>	miles
Average Travel Speed:	<u>32.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,464.50</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$27.74</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.20	0.20
Return Time (Hours):	0.20	0.20
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.40	0.40

JOB TIME AND COST

Total job time:	<u>2.80</u>	Hours
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Total job cost:	<u>\$1,492</u>
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COLORADO

**Division of Reclamation,
Mining and Safety**

Department of Natural Resources

1313 Sherman Street, Room 215
Denver, CO 80203

REQUEST FOR FULL OR PARTIAL RELEASE OF PERMIT AREA/SURETY REDUCTION

Please indicate if you are requesting:

FULL/FINAL RELEASE OF ENTIRE PERMITTED AREA (per Rule 4.17)

ACREAGE REDUCTION (PARTIAL RELEASE per Rule 4.17)

I wish to release _____ acres at this time.

You will need to submit with this request: a map showing the acreage to be released from the current permit and updated mining and reclamation plan maps that will accurately depict the new permit boundary if the release is approved.

SURETY (Bond) REDUCTION (per Rule 4.14)

If you are requesting a surety (bond) reduction you will need to include with this request a new estimate of the actual cost to reclaim the site based on what it would cost an independent contractor to complete reclamation, including unit costs for reclamation activities as appropriate to the operation to comply with the provisions of Rule 3.1 and the Permit's approved Reclamation Plan.

File No.: M _____

Site Name: _____

County: _____

Permittee: _____

Permittee Address: _____
(Street Address)

(City)

(State)

(Zip)



Operator (If Other than Permittee): _____

Permittee Representative: _____

Certified Mail # _____

In accordance with Rule 4.17.1(2) the Operator shall include the names, addresses and phone numbers of all owners of record to the affected land. Please attach additional sheets for this information if required.

<u>Name</u>	<u>Address</u>	<u>Phone Number</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

In accordance with Rule 4.17.1(4), if requesting a partial acreage release the Operator or their agent MUST sign that they have complied with the following statement: “All applicable portions of the Reclamation Plan requirements have been satisfied in accordance with these Rules and all applicable requirements under the Act.”

Signature of Permittee, Operator or their authorized agent Date

Important: In accordance with Rules 4.14.2(a) and 4.17.1(3) This release request must be submitted to the Division via certified mail and separate from any other correspondence to the Division.