


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: Cortner Pit		MINE/PROSPECTING ID#: M-1986-159	MINERAL: Sand and gravel	COUNTY: Pueblo
INSPECTION TYPE: Surety Release Inspection		WEATHER: Clear	INSP. DATE: March 19, 2024	INSP. TIME: 09:50
OPERATOR: Martin Marietta Materials, Inc.		OPERATOR REPRESENTATIVE: Julie Mikulas	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Surety Release Requested		BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$204,831.00	
DATE OF COMPLAINT: NA		POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
INSPECTOR(S): Jocelyn Carter Jared Ebert		INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: April 3, 2024	

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>NA</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>NA</u>	(SF) PROCESSING FACILITIES----- <u>NA</u>	(TS) TOPSOIL----- <u>NA</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>Y</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>NA</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	

OBSERVATIONS

The Cortner Pit is located approximately 3 miles southwest of the town of Vineland, Colorado in Pueblo County. This is a 112c, permitted for 35.65 acres, extracting sand and gravel, however mining activity is completed, and the operation is in final reclamation. According to the file review of the permit, this site has been in a state of final reclamation since 2014. The inspection performed is a result of a surety reduction request (SR-1) that was submitted by the permittee on February 1, 2024. The inspection was performed by myself, Jocelyn Carter, with Jared Ebert accompanying me for the Division. Julie Mikulas with Martin Marietta Materials, Inc. (MMMI) was also present for the inspection. The weather was good, with clear skies and warm temperatures. Five days prior to the inspection, the region did experience a heavy precipitation event, receiving both rainfall and snow over the duration of two days.

Jared and I met Julie at the entrance gate on Cortner Rd, located about 1 mile south of South Road, we met at 10:30 am. A mine sign was seen posted at the gate in accordance with Rule 3.1.12. We then followed Julie along the access road to the permit area. The access road for this permit is shared with another DRMS permit; the Beeman Pit #1, M-2002-009, also operated by MMMI. The elevation at the gate is approximately 4,730', the access road climbs up in elevation about 100' to the permit area. The highest point of the permitted area is about 4,890 feet above sea level.

There was an asphalt stockpile area and some concrete blocks seen in the northeast portion of the permit area. Julie stated that the neighboring landowner, Joe Scalese, has requested these materials and MMMI has agreed to him taking the materials.

During the inspection, there were some low portions of the permit area where there was standing water. The water was very shallow, and the Division did not consider this to be an issue with the hydrologic balance or stormwater plan given the recent weather events. Most of the permit area was very muddy at the time of the inspection. Access to the south end of the permit area was accessed using an access road for a gas line that runs parallel the south boundary of the permit area.

The SR-1 is to cover the current cost for reclamation at the site given the state of final reclamation and recent acreage reductions. The operator proposes that at this point in the reclamation process, the remaining tasks would be re-establishing revegetation on approximately 20 acres. The Division agrees that this is the case after the inspection of the site.

Photos of the current state of the permit area were taken during the inspection and are included in this report. Contact Jocelyn Carter with any questions or information about this inspection; by email at Jocelyn.carter@state.co.us or by phone at (720) 666-1065.

Records

A records review was completed for this inspection. The operator has reported that this site has been in final reclamation since their annual report on July 25, 2014. It is confirmed that the access road to the site that is on the neighboring property will not be reclaimed at the request of the landowner, Joe Scalese. The asphalt stockpile was used for ice control on the access roads, according to the inspection performed by Amber Gibson, formerly Michels, with the Division on April 5, 2023. There is no past mention about the concrete blocks in the records for this permit, what they were used for, and there is no information as why the blocks were present at the time

of this inspection.

The proposed amount submitted with SR-1 is \$25,359.80, this amount is to establish vegetation on 20 acres. A reclamation cost estimate was performed for this inspection. The Divisions total cost estimate is \$35,461.00, a difference of +\$10,101.20 from the permittee's estimate. The full breakdown of the bond calculated is attached to this report.

Hydrological Balance

There were a few low-lying areas that were holding water at the time of the inspection, with a few intermittent smaller areas as well. The pools of water observed were very shallow. Given the relatively higher elevation of the site compared to the surrounding areas and the recent storm events, the Division does not consider the presence of the water to be a problem with the hydrologic balance to this area.

Processing Waste/Tailings

There were no waste or tailings piles on site at the time of the inspection.

General Mine Plan Compliance

This site is no longer actively mining; the permit has been in final reclamation since 2014.

Signs and Markers

The mine sign is posted in accordance with Rule 3.1.12(1). There was no issue with the boundary markers that were viewed at the time of inspection; not all the boundary markers were verified during the inspection. The boundary marker located in the southwest corner of the permit area was viewed knocked over and should be replaced, see Photo #5 below.

Overburden/Developed Waste

There were no stockpiles of overburden or developed waste on site at the time of inspection.

Financial Warranty

The financial warranty that is currently held by the Division for this permit is \$204,831.00. The purpose of this inspection was to evaluate if the site is eligible for a surety reduction. The Division agrees that a surety reduction is appropriate and the Division's cost estimate is attached to this report.

The applicant requested a surety reduction of \$179,471.20, bringing the required surety to \$25,359.80. The Division's cost estimate for revegetating the 20 acres of the permit site is calculated at \$35,461.00. The Division will approve a reduction of \$169,370.00 of the current amount and requiring a surety amount of \$35,461.00.

Backfill & Grading

The backfill and grading of the affected area is complete at this site and meets the approved reclamation plan.

Fish & Wildlife

There was no wildlife activity observed on site at the time of the inspection. There was evidence of cattle being present at the site prior to the inspection, mostly around the low-lying areas where

water has recently pooled. Julie mentioned that the area has been used in the past for grazing cattle, but there have been requests to allow vegetation to re-establish before grazing activities continue in the future.

Erosion/Sedimentation

There were no issues with erosion or sedimentation observed at the time of the inspection.

Off-site Damage

There was no evidence of off-site damage observed at the time of the inspection.

Roads

The access road used to access the site appeared to be stable, no pooling was observed on the road or in the roadside ditches. The access road will remain after reclamation operations at the request of the landowner, Joe Scalese. The stockpile of asphalt used for ice control of the access road was observed in the northeastern portion of the permit boundary. This material will need to be removed prior to release of the permit.

Explosives

There were no explosives at the site at the time of the inspection.

Topsoil

There were no topsoil stockpiles on site at the time of the inspection.

Revegetation

There is approximately 20 acres that have been seeded several times prior to the inspection. According to Julie, the last time the area was seeded was in the Fall of 2019 or 2020. Species that were observed on site included Buffalo Grass, Blue Grama, and Rabbit Brush; all of which are good species for re-establishing vegetation.

According to inspection reports, the noxious weed Tamarisk was observed on the site and the permittee had taken appropriate measures to abate the issue by having it removed (November 13, 2023). The area of sparse vegetation will need to be reseeded with the approved seed mixture and the noxious weed plan will need to be followed.

Reclamation Plan/ Compliance

The permittee is in compliance with the approved reclamation plan. At this time, the only item of note is the presence of the asphalt stockpile, used for ice control of the access road, and the concrete blocks. MMMI has granted the neighboring landowner, Joe Scalese, permission to collect both items; both items will need to be removed prior to release of the permit.

PHOTOGRAPHS



Photo #1: The mine sign posted at the entrance gate on the south side of Cortner Rd.



Photo #2: View of the access road from the entrance gate.



Photo #3: Northeast boundary marker, taken from within the permit area, looking north northeast.



Photo #4: Southeast boundary marker, taken from within the permit area, looking south.



Photo #5: Southwest boundary marker, knocked down, viewed from within the permit area, looking southeast.

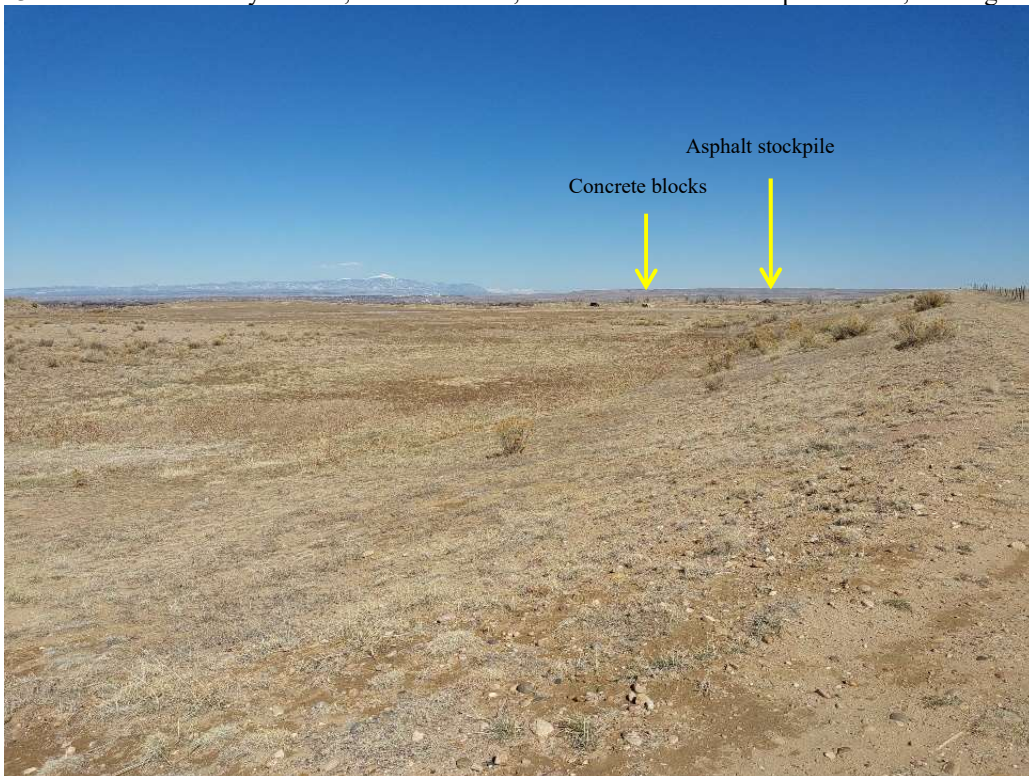


Photo #6: View of permit area, taken from the southeast corner of permit area, looking north. The asphalt stockpile and concrete blocks can be seen in the upper right of the photo.



Photo #7: View of permit area, taken from the southeast corner of permit area, looking west.

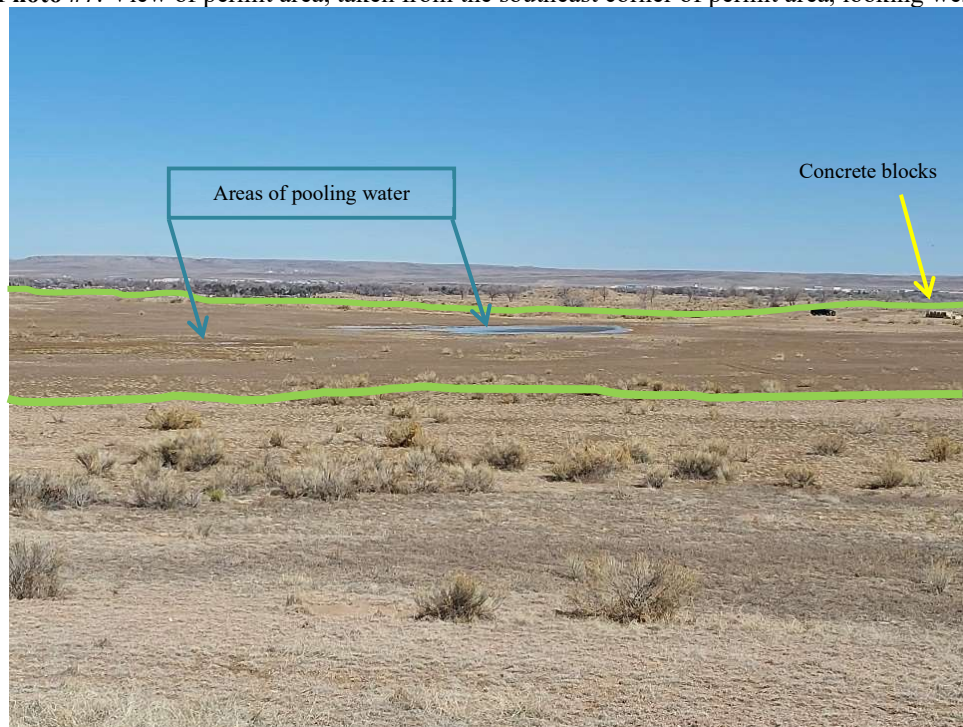


Photo #8: Looking north from the south of the permit boundary. A portion of the 20 acres needing vegetation re-established (outlined in green) and the areas that were holding water from snowmelt and rain from recent storm can be seen. The concrete blocks are seen on the right side of the photo. This photo provides a good idea of the target vegetation density in the foreground.

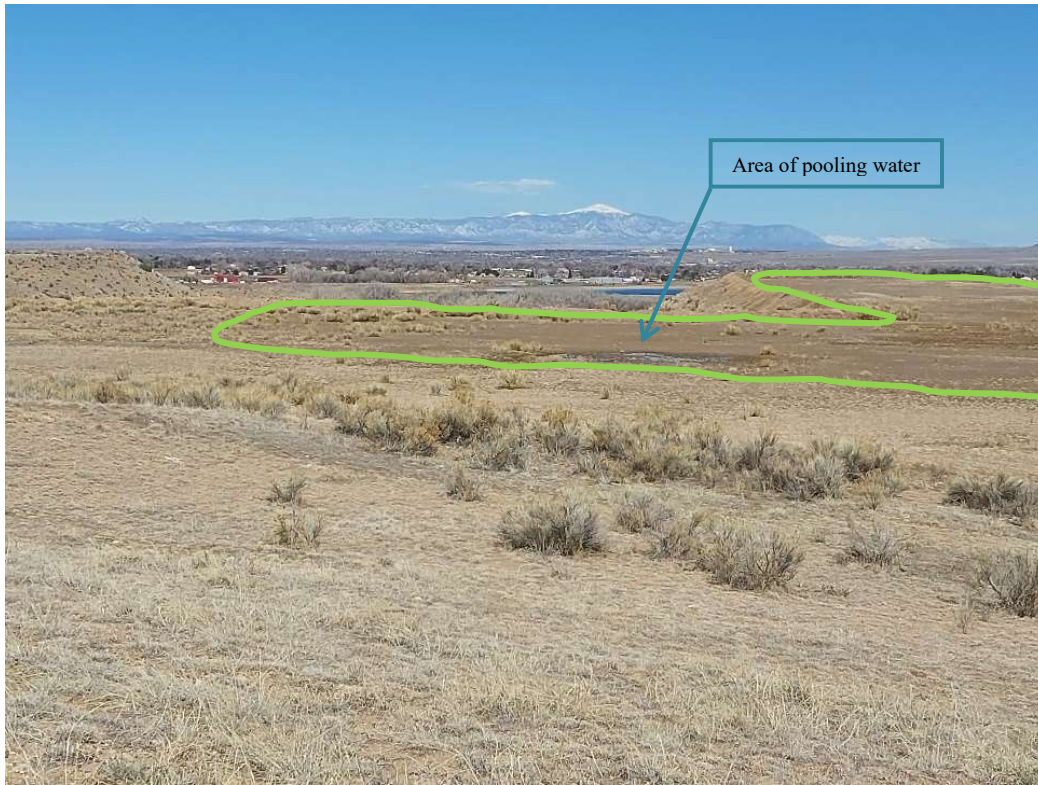


Photo #9: Looking northwest from the south of the permit boundary. A portion of the 20 acres needing vegetation re-established (outlined in green) and the areas that were holding water from snowmelt and rain from recent storm can be seen. This photo provides a good idea of the target vegetation density in the foreground.



Photo #10: Looking south from northeast portion of permit area. The area of sparse vegetation can be seen as well as an are of pooling water from recent snowmelt and storm event.



Photo #11: Looking to the west from within the area of sparse vegetation. Seed rows can be seen from this perspective, showing that seeding is being done, but the establishment has not been successful.



Photo #12: Looking southwest from within the area of sparse vegetation.



Photo #13: The asphalt stockpile used for ice control of the access road, located in the northeast corner of the permit boundary. Taken looking north.



Photo #14: Concrete blocks located in the northeast portion of the permit area, south of the asphalt stockpile. Taken looking east northeast.

Inspection Contact Address

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

Enclosure: DRMS Reclamation Cost Estimate

CC: Jared Ebert, DRMS

COST SUMMARY WORK

Task description: SR-1 Reveg 20 acres

Site: Cortner Pit

Permit Action: 2024 Inspection

Permit/Job#: M1986159

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 3/19/2024

County: Pueblo

Filename: M159-000

User: JLC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Revegetation	REVEGE	1	20.00	\$26,732
002	Mobilize/De-mobilize Reclamation Equipment	MOBILIZE	1	1.72	\$1,512
<u>SUBTOTALS:</u>				21.72	\$28,244

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$571

Performance bond: 1.05

Total = \$297

Job superintendent: 1.00

Total = \$65

Profit: 10.00

Total = \$2,824

TOTAL O & P = \$3,757

CONTRACT AMOUNT (direct + O & P) = \$32,001

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$1,360

Reclamation management and/or administration: 5.00

\$1,600

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$7,217

TOTAL BOND AMOUNT (direct + indirect) = \$35,461

REVEGETATION WORK

Task description: Revegetation

Site: Cortner Pit Permit Action: 2024 Inspection Permit/Job#: M1986159

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None
Date: 3/19/2024 County: Pueblo Filename: M159-001
User: JLC

Agency 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)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Switchgrass - Nebraska 28	0.50	4.47	\$6.75
Blue Grama - Native	0.90	14.69	\$12.35
Sand Dropseed	0.10	11.94	\$0.98
Sideoats Grama - Vaughn	4.50	14.77	\$37.69
Totals Seed Mix	6.00	45.87	\$57.77

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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Total Mulch Application Cost/Acre	\$74.46

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres:	20	Cost /Acre:	\$1,336.62
Estimated Failure Rate:	25%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost:	\$26,732.40
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$26,732
Job Hours:	20.00

EQUIPMENT MOBILIZATION/DEMobilIZATION

Task description: Mobilize/De-mobilize Reclamation Equipment

Site: Cortner Pit

Permit Action: 2024 Inspection

Permit/Job#: M1986159

PROJECT IDENTIFICATION

Task #: 002

State: Colorado

Abbreviation: None

Date: 3/19/2024

County: Pueblo

Filename: M159-002

User: JLC

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:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

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
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	2	\$178.04	\$164.58	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00

Subtotals:

\$286.27	\$246.87	\$500.00
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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.	\$88.63	1	\$88.63	\$88.63

Subtotals: **\$88.63** **\$88.63**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: PUEBLO
 Total one-way travel distance: 10.00 miles
 Average Travel Speed: 55.00 mph

Total Non-Roadable Mob/Demob Cost * \$1,480.14
 ‘* two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$32.23
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.18	0.18
Return Time (Hours):	0.18	0.18
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	0.86	0.36

JOB TIME AND COST

Total job time: 1.73 Hours

Total job cost: \$1,512