

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

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:
Bollish Pit #2	M-2007-013	Sand, gravel and bor	Logan
		for construction	
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Monitoring	Jared L. Ebert	December 19, 2016	09:30
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERAT	TION:
McAtee Construction Company	Darren Gebhart	112c - Construction Regular Operation	

REASON FOR INSPECTION:		BOND CALCULATION TYPE:	BOND AMOUNT:
Normal I&E Program		Complete Bond	\$24,000.00
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGENCY:
NA		None	None
WEATHER:	INSPE	CTOR'S SIGNATURE:	SIGNATURE DATE:
Clear	Jø	NO EDOX	January 3, 2017

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: Signs & Markers

PROBLEM/POSSIBLE VIOLATION: Problem: The mine identification sign was not posted at the entrance of the mine site. This is a problem for failure to post a mine identification sign as required by Section 3.1.12(1) of the rule.

CORRECTIVE ACTIONS: The operator shall, at the entrance of the mine site, post a sign which shall be clearly visible from the access road with the following: the name of the operator, a statement that a reclamation permit for the operation has been issued by the Colorado Mined Land Reclamation Board; and the permit number. The operator shall submit photo documentation that a proper sign has been posted by the corrective action date.

CORRECTIVE ACTION DUE DATE: 2/07/17

OBSERVATIONS

This was a monitoring inspection of the Bollish Pit #2, DRMS permit number M-2007-013, operated by McAtee Construction Company. I, Jared Ebert of the Colorado Division of Reclamation, Mining and Safety (Division or Office) conducted the inspection. Mr. Darren Gebhart with McAtee Construction Company accompanied me during the inspection. The weather was clear and cool at the time of the inspection.

Backfilling and Grading:

The site consists of a pit excavation with the pit daylighting to the northwest. The operator is mining at a near vertical slope. The highwall was measured to be about 840 feet in length and is about 25 feet in height.

Financial Warranty:

The reclamation cost estimate was last calculated in 2007 when the permit was applied for. In accordance with Rule 4.2.1(2), the Division has reviewed the estimated cost to reclaim the site and found that the current bond of \$24,000 is an inadequate amount. The Division calculated the cost to reclaim the affected area of 9 acres to be \$34,446. Attached for the Operator review, is a copy of the reclamation cost summary. By January 20, 2017, the Division will issue a Surety Increase (SI) revision; please contact the Division prior to January 20, 2017 to discuss any questions regarding the cost estimate. When the SI is issued, the Operator will then have 60 days to submit the additional financial warranty.

Hydrologic Balance:

Overall, the site appears stable. The sediment generated from the excavation appears to stay within the pit area.

Gen. Compliance With Mine Plan:

The mining operation appears to be in general compliance with the mining plan. The excavation is near the southern boundary of the permit area. A portion of the excavation near the southeast corner of the pit is partially graded. The operator should keep in mind they are required to mine at the required 3:1 slope as they near the 15 foot setback from the permit boundary.

Off-site Damage:

The permit boundary was marked with metal posts and the affected area appears to be within this boundary.

Roads:

The access road to the site was graded and maintained.

Signs and Markers:

The mine identification sign was not posted at the entrance of the site. This issue is cited as a problem at the beginning of this report.

Topsoil:

The topsoil stockpile was stable and vegetated.

PHOTOGRAPHS



Figure 1. From the access road looking northeast.



Figure 2. From the access road looking north.

GENERAL INSPECTION TOPICS

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

(AR) RECORDS <u>NA</u>	(FN) FINANCIAL WARRANTY Y	(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>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE <u>Y</u>	(RV) REVEGETATION <u>NA</u>
(SM) SIGNS AND MARKERS PB	(SP) STORM WATER MGT PLAN <u>NA</u>	(CI) COMPLETE INSP <u>NA</u>
(ES) OVERBURDEN/DEV. WASTE <u>NA</u>	(SC) EROSION/SEDIMENTATION Y	(RS) RECL PLAN/COMP <u>NA</u>
(AT) ACID OR TOXIC MATERIALS <u>NA</u>	(OD) OFF-SITE DAMAGE <u>Y</u>	(ST) STIPULATIONS <u>NA</u>

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

Inspection Contact Address Darren Gebhart McAtee Construction Company P.O. Box 1908 Sterling, CO 80751

Enclosure: 1.) CIRCES Reclamation Cost Estimate

CC: Darren Gebhard via e-mail

COST SUMMARY WORK

Site:					
	Bollish Pit #2 Permit Actio	n: Dec. 2016 Insp	pection	Permit/Job	#: <u>M2007013</u>
<u>P</u>	ROJECT IDENTIFICATION				
	Task #:000State:Colorad)		Abbreviation:	None
	Date: 1/3/2017 County: Logan			Filename:	M013-000
	User: JLE				
	Agency or organization name:DRMS				
<u>T</u>	ASK LIST (DIRECT COSTS)				
Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill 840 foot Vertical Highwall	DOZER	2	19.28	\$9,704.00
002	Spread Topsoil	SCRAPER1	1	8.12	\$5,552.00
003	Revegetation of Affected Area	REVEGE	1	4.50	\$6,782.00
004	Mobilization	MOBILIZE	1	2.58	\$5,840.00
	NDIRECT COSTS				
	VERHEAD AND PROFIT:				
	VERHEAD AND PROFIT: Liability insurance: 2.02				63.14
	VERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05			Total = \$2	92.72
	VERHEAD AND PROFIT: Liability insurance: 2.02			$\begin{array}{r} \text{Total} = & \$2\\ \text{Total} = & \$1 \end{array}$	92.72 ,284.04
	VERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 17.24 Profit: 10.00			$Total = \frac{\$2}{Total} = \frac{\$1}{Total} = \frac{\$1}{\$2}$ $Total = \frac{\$2}{L} O \& P = \frac{\$4}{L}$	92.72
	VERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 17.24 Profit: 10.00	TRACT AMOUNT		$Total = \frac{\$2}{Total} = \frac{\$1}{Total} = \frac{\$1}{\$2}$ $Total = \frac{\$2}{L} O \& P = \frac{\$4}{L}$	92.72 ,284.04 ,787.80
<u>0</u>	VERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 17.24 Profit: 10.00			$Total = \frac{\$2}{Total} = \frac{\$1}{Total} = \frac{\$1}{\$2}$ $Total = \frac{\$2}{L} O \& P = \frac{\$4}{L}$	92.72 ,284.04 ,787.80 ,927.70
<u>0</u>	VERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 17.24 Profit: 10.00 CON EGAL - ENGINEERING - PROJECT MANAGEMEN Financial warranty processing (legal/related costs):	T: 0.00		Total = \$2 Total = \$1 Total = \$2 C & P = \$4 O & P) = \$3 Total = 0.0	92.72 284.04 787.80 927.70 2,805.70
<u>0</u>	VERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 17.24 Profit: 10.00 CON EGAL - ENGINEERING - PROJECT MANAGEMEN Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	T: 		$Total = \frac{$2}{$1}$ $Total = \frac{$1}{$2}$ $Total = \frac{$2}{$2}$ $O \& P = \frac{$4}{$3}$ $O \& P) = \frac{$3}{$3}$ $Total = 0.0$ $Total = \frac{$0.0}{$50}$	92.72 ,284.04 ,787.80 ,927.70 2,805.70 00 00
<u>0</u>	VERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 17.24 Profit: 10.00 CON EGAL - ENGINEERING - PROJECT MANAGEMEN Financial warranty processing (legal/related costs):	T: 0.00		$Total = \frac{$2}{$1}$ $Total = \frac{$1}{$2}$ $Total = \frac{$2}{$2}$ $O \& P = \frac{$4}{$3}$ $O \& P) = \frac{$3}{$3}$ $Total = 0.0$ $Total = \frac{$0.0}{$50}$	92.72 284.04 787.80 927.70 2,805.70
<u>0</u>	VERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 17.24 Profit: 10.00 CON EGAL - ENGINEERING - PROJECT MANAGEMEN Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	T: 		$Total = \frac{$2}{$1}$ $Total = \frac{$1}{$2}$ $Total = \frac{$2}{$2}$ $O \& P = \frac{$4}{$3}$ $O \& P) = \frac{$3}{$3}$ $Total = 0.0$ $Total = \frac{$0.0}{$50}$	92.72 284.04 787.80 927.70 2,805.70 00 00 640.29
<u>0</u>	VERHEAD AND PROFIT: Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 17.24 Profit: 10.00 CON EGAL - ENGINEERING - PROJECT MANAGEMEN Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	T: 0.00 0.00 5.00	Γ (direct + 	$Total = \frac{$2}{Total} = \frac{$1}{1000}$ $Total = \frac{$2}{200} & P = \frac{$4}{900}$ $Total = \frac{$000}{$1000}$ $Total = \frac{$000}{$1000}$ $Total = \frac{$0000}{$1000}$	92.72 284.04 787.80 927.70 2,805.70 00 00 640.29

BULLDOZER WORK

Task description:	Backfill 840 f	oot Vertical Hi	ghwall		
e: Bollish Pit #2		Permit Action:	Dec. 2016 Inspection	Permit/Jo	b#: <u>M2007013</u>
PROJECT IDENTIF	ICATION				
Task #: 001	State	: Colorado		Abbreviation:	None
Date: $\frac{001}{1/3/2017}$	County			Filename:	M013-001
User: JLE	5	0			
A gapay or orga	nization name:	DDMC			
Agency of orga	nization name:	DRMS			
HOURLY EQUIPME	ENT COST				
Basic Machine: Ca	at D9T - 9SU				
Horsepower: 40			-		
	emi-Universal		-		
	shank ripper		-		
	per day		=		
Data Source: (C	CRG)		-		
Cost Dreakdown			-		
Cost Breakdown:		1	Utilization %		
Ownership Cost/Hour:		\$97.48	NA		
Operating Cost/Hour:		\$103.60	100		
Ripper own.					
Cost/Hour:		\$10.74	NA		
Ripper op. Cost/Hour:		\$0.99	15		
Operator Cost/Hour:		\$38.89	NA		
Total unit Cost/Hour:	\$251.70				
Total Fleet Cost/Hour:	\$503.40				
MATERIAL QUANT	TITIES				
	167				
Swell factor: 1.1					
Loose volume: 34,	417 LCY				
Source of estimated vol	lume: Divisio	on of Reclamation	on, Mining & Safety		
Source of estimated sw		ndbook			
factor:					
HOURLY PRODUC	TION				
Average push distance:		CN/1			
Unadjusted hourly	1,460.11	LCY/hr			
production:					
Materials consistency	Com	pacted fill or er	nhankment () ()		
description:	COIL				
accomption.					
Average push	-30 %				
gradient:					
Average site altitude:	4,100 feet				
<u> </u>					
Material weight:	4,050 lbs/LCY			-	
Weight description:	Sand and clay -	Compacted			
		1			

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(S-BY-S)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.568	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.6114	

Adjusted unit production:	892.71 LCY/hr		
Adjusted fleet	1785.42 LCY/hr		
production:	1703.42 LC 1/m		

JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$0.282/LCY

Total job time:	19.28 Hours
Total job cost:	\$9,704

SCRAPER TEAM WORK

Site: Bollish Pit #2	P	ermit Action	: Dec. 2016 Ins	spection F	Permit/Job#: <u>M2</u>	2007013
PROJECT IDENT	IFICATION					
Task #: 002	State:	Colorado	1	Abbrey	viation: None	
Date: 1/3/20		Logan			ename: M013-	002
User: JLE						
Agency or o	rganization name: D	RMS				
HOURLY EQUIP	MENT		COSTS	Shift basis: <u>1 per</u>	day	
			ent Description			
	-Scrape		7G w/push-pull			
Suppor	-Doze t Equipment -Load Are					
Suppor	-Dump Are	a: NA				
Road Mai	ntenance – Motor Grade		40M			
	-Water Truc	k: NA				
Cost Breakdown:	Scraper Work Tea	am	Support Equ	ipment	Maintenanc	e Equir
		Dozer	Load Area	Dump Area	Motor Grader	Wate
%Utilization-machine:	100	NA	NA	NA	100	
Ownership cost/hour:	\$105.55	NA	NA	NA	\$36.00	
Operating cost/hour:	\$146.13	NA	NA	NA	\$40.02	
%Utilization-ripper:	NA	NA	NA	NA	NA	
Ripper own. cost/hour:	NA	NA	NA	NA	\$0.00	
Ripper op. cost/hour:	NA	NA	NA	NA	\$0.00	
Operator cost/hour:	\$34.24	NA	NA	NA	\$35.83	
Unit Subtotals:	\$285.92	NA	NA	NA	\$111.85	
Number of Units:	2	0	0	0	1	
Group Subtotals:	Work: \$	571.84	Support:	\$0.00	Maint:	\$11
Total work team cost/	hour: <u>\$683.69</u>					
MATERIAL OUA	NITTITO					
MATERIAL QUA Initial volume:		CCY	Swell fact	tom 1.000		
Loose volume:	7,260	- LCY	Swell laci	tor: <u>1.000</u>		
Sour	ce of estimated volume		of Reclamation,	Mining & Safety	T	
	f estimated swell factor			winning & Barety	, 	
HOURLY PRODU	CTION					
HOURLIIKODU			Soropor	Powl (volumo) Po		
				Bowl (volume) Ba		CN
Material weight: Material description:	1,600 lbs/LCY Top Soil			Volume: 15.70 Volume: 22.00		.CY .CY
Rated Payload:	52,800 pounds		Average			CY
Payload Capacity:	33.00 LCY		Adjusted (.CY

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Maneuver and Spread Time

Job Condition Correction:

Site Altitude: 4100 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 1" tire penetration 4.0</u>

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	400.00	0.00	4.00	4.00	2665	0.33

0.90 Minutes

<u>0.60</u> Minutes

Haul Time: **0.33** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	400.00	0.00	4.00	4.00	2849	0.27

Return Time:	0.27	minutes
Total Scraper team cycle time:	2.10	minutes
Adjusted for job conditions:	894.03	LCY/Hour
Selected Number of Scrapers:	2	Scraper(s)
Adjusted single scraper team (unit) hourly production:	894.03	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	894.03	LCY/Hour
Unadjusted unit production/hour: <u>1,077.14</u> LCY/Hour		

Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	8.12	Hours
Unit cost:	\$0.765	/LCY	Total job cost:	\$5,552	

REVEGETATION WORK

Task description: Reveget		Revegetation of	Affected Are	ea			
Site:	Bollish Pi	it #2	Pe	rmit Action:	Dec. 2016 Inspection	Permit/Jo	b#: <u>M2007013</u>
<u>PR</u>		IDENTIFIC					
	Task #: Date:	003 1/3/2017	State: County:	Colorado Logan		Abbreviation: Filename:	None M013-003
	User:	JLE	County.	Logan		T fieldanie.	W1015 005

FERTILIZING

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Manure, 43.56 tons/ac. (MEANS 32 91 13.23 1400)	0.07	acre	\$3,944.60	\$276.12
			Total Fertilizer Materials	

Application

Description		Cost /Acre
Manure, tractor spreader (MEANS 32 91 13.23 4450)		\$60.55
	Total Fertilizer Application Cost/Acre	\$60.55

TILLING

Description	Cost /Acre
Chisel plowing {DMG}	\$88.76
Total Tilling Cost/Acre	\$88.76

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Switchgrass - Blackwell	0.20	1.79	\$1.08
Prairie Clover, Purple - Kaneb	0.20	1.37	\$6.62
Little Bluestem - Pastura	0.70	4.18	\$11.09
Sideoats Grama - Vaughn	1.10	3.61	\$12.39
Western Wheatgrass - Arriba	1.60	4.04	\$5.90
Needlegrass, Green - Lodorm	0.80	3.32	\$4.32
Totals Seed Mix	4.60	18.31	\$41.40

Application

Description

Drill Seeding (DRMS Survey Cost)	\$232.00
Total Seed Applic	ation 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	40.00
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 1	Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

	No. of Acres:	9	Cost /Acre:	\$698.83
Estimate	ed Failure Rate:	20%	Cost /Acre*:	\$273.40
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$6,289.47			
Reseeding Job Cost:	\$492.12			
Total Job Cost:	\$6,782			
Job Hours:	4.50			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: M	obilization				
te: Bollish Pit #2	Permi	t Action: Dec.	2016 Inspection	Permit/Job	o#: <u>M2007013</u>
PROJECT IDENTIFICAT	<u>'ION</u>				
Task #: 004 Date: 1/3/2017 User: JLE		Colorado Logan	A	bbreviation: Filename:	None M013-004
Agency or organization	on name: DRM	S			
EQUIPMENT TRANSPO	<u>RT RIG COST</u>				
			Shi Cost Data		per day RG Data
Truck Tractor Des	cription: GEN	ERIC ON-HIGH	WAY TRUCK TRA 400 HP (2ND HA		DIESEL POWERED,
Truck Trailer Des	cription: C		ING GOOSENECK FRAILER (25T, 50T	·	K EQUIPMENT
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	_	
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33		
	01100	¢ 1 < 10	<i></i>		

Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

NON ROADABLE EQUIPMENT:

Description Unit (TONS) Cost/hr/unit Cost/hr/unit Cat D9T - 9SU 60.01 \$97.48 \$125.45 Cat 627G w/push- pull 43.48 \$105.55 \$117.55 CAT 140M 16.68 \$36.00 \$88.67 Drill/Broadcast 25.00 \$30.65 \$88.67	Size 2 2	Cost/hr/ fleet \$445.86 \$446.20	Cost/hr/ fleet \$250.90 \$235.10	Cost/ fleet \$500.00 \$500.00
Cat D9T - 9SU 60.01 \$97.48 \$125.45 Cat 627G w/push- pull 43.48 \$105.55 \$117.55 CAT 140M 16.68 \$36.00 \$88.67	2 2	\$445.86		
Cat 627G w/push- pull 43.48 \$105.55 \$117.55 CAT 140M 16.68 \$36.00 \$88.67	2 2	1		
pull CAT 140M 16.68 \$36.00 \$88.67	2	\$446.20	\$235.10	\$500.00
CAT 140M 16.68 \$36.00 \$88.67				
Drill/Broadcast 25.00 \$30.65 \$88.67	1	\$124.67	\$88.67	\$250.00
Dim/Dioadcast 25.00 \$50.05 \$68.07	1	\$119.32	\$88.67	\$250.00
Seeder with				
Tractor				
	Subtotals:	\$1,136.05	\$663.34	\$1,500.00

Subtotals: \$1,136.05 \$663.34 \$1,500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip
	unit		Cost/hr/ fleet	Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$33.81	1	\$33.81	\$33.81
Fuel Tanker, 4x2, 170 HP	\$56.19	1	\$56.19	\$56.19
Lube Truck, 4x2, 170 HP	\$61.93	1	\$61.93	\$61.93
		Subtotals:	\$151.93	\$151.93

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	STERLING 8.00 55.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$5,795.56	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$44.20	_

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.15	0.15
Return Time (Hours):	0.15	0.15
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.29	0.29

JOB TIME AND COST

Total job time:	2.58	Hours

Total job cost: \$5,840