

Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

August 18, 2017

Julie Sevier Pioneer Sand Company, Inc. 630 Plaza Drive Site 150 Highlands Ranch, CO 80129

RE: Fedinec Pit, File No.M-1977-057 Construction Material Regular (112) Operation Reclamation Permit Conversion Application, CN-1, Approval Letter – Financial Warranty Request

Dear Mrs. Sevier:

The Division of Reclamation, Mining and Safety has determined that the 112(c) Conversion Application for the above listed site has met the requirements of Rule 6.4 or the Rules for the Extraction of Construction Materials as well as Section 34-3.25-101 et. Seq. Therefore, pursuant to Rule 1.4.8(1) the Division shall issue a decision on the application and is approving the 112(c) Reclamation Permit Conversion Application for the Fedinec Pit, File M-1977-057.

The amount of financial warranty set by the Division for this operation is an amount of \$57,900.00 which now covers all disturbed areas. The Reclamation Cost Estimate Worksheets are enclosed with this letter. This is an increase of \$38,600.00 over the \$19,300.00 currently held by the Division. Due to the conversion being required by a Mined Land Reclamation Board Order, the Financial Warranty must be posted sooner than other notices of increase. The new required amount must be received within 30 days of the date of this letter. The Financial Warranty must be received and accepted by the Division no later than Monday September 18, 2017.

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303-866-3567, ext. 8148 for submittal of the financial and performance warranties. Any questions regarding completion, execution and/or submittal of financial and/or performance warranty forms should also be directed to Barbara Coria.

If you require additional information, or have questions or concerns, please feel free to contact me at the Division's Grand Junction Field Office, by phone at (970)-243-6368 or by email at lucas.west@state.co.us.

Sincerely,

Lucas West



CN-1 Approval Letter Date Page 2

Environmental Protection Specialist Division of Reclamation, Mining and Safety 1313 Sherman Street, Room 215 Denver, CO 80203

Phone: (970) 243-6368

Cc: Russ Means, Senior Environmental Protection Specialist

Encl. Reclamation Cost Estimate Worksheets



## **COST SUMMARY WORK**

Task description:

Cost Summary

Site: Fedinec Pit

Permit Action: CN-1

Permit/Job#: M1977057

PROJECT IDENTIFICATION

Task #: Date: 000 8/7/2017 State: Moffat

County:

Colorado

Abbreviation:

None

Filename:

M057-000

User: LJW

Agency or organization name: DRMS

#### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost		
001	Rip benches, stockpile areas, and acess roads, appx 3 acres	RIPPER	1	6.06	\$1,253.00		
002	Reduce slopes to a 3:1, Rough finish	DOZER	] 1	20.58	\$4,251.00		
003	Distribute topsoil over affected areas	TRUCK1	] 1	17.60	\$9,619.00		
004	Spread Topsoil across the disturbed areas	DOZER	] 1	8.12	\$1,678.00		
005	Revegetate 10 Acres	REVEGE	] 1	16.00	\$24,715.00		
006	Mobilization, Demob	MOBILIZE	1	4.93	\$4,464.00		
	SUBTOTALS: 73.29 \$45,980						

## **INDIRECT COSTS**

#### **OVERHEAD AND PROFIT:**

Liability insurance: Performance bond:

Job superintendent:

2.02 1.05

36.65 10.00 Total = \$928.80

Total = \$482.79 Total = \$2,676.92

Total = \$4,598.00

TOTAL O & P = \$8,686.51

CONTRACT AMOUNT (direct + O & P) = \$54,666.51

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Profit:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:

Reclamation management and/or administration:

500.00

0.00 5.00 Total = 500.00 Total = \$0.00

\$2,733.33

CONTINGENCY:

0.00

Total = \$0.00

TOTAL INDIRECT COST = \$11,919.84

TOTAL BOND AMOUNT (direct + indirect) = \$57,899.84

# **BULLDOZER RIPPING WORK**

Task description:	Rip benches, stockpile are	as, and acess ro	oads, appx 3 acres	
e: Fedinec Pit	Permit Action	n: <u>CN-1</u>	Permi	/Job#: <u>M1977057</u>
PROJECT IDEN	<u>NTIFICATION</u>			
Task #: 001	State: Colorado	)	Abbreviatio	n: None
Date: 8/7/	2017 County: Moffat		Filenam	
User: LJW	7			
Agency o	r organization name: DRMS			
HOURLY EQUI	PMENT COST			
Basic M	lachine: Cat D8T - 8SU		Horsepower:	310
Ripper Atta	chment: 3-Shank Ripper		Shift Basis:	1 per day
	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		Data Source:	(CRG)
Cost Breakdown:				
			Utilization %	
	Ownership Cost/Hour:	\$83.81	NA	
	Operating Cost/Hour:	\$66.17	100	
	Ownership Cost/Hour:	\$7.55	NA	
Rippe	r Operating Cost/Hour:	\$7.21	100	
	Operator Cost/Hour:	\$41.85	NA	
	Total Unit Cost/Hour:	\$206.59		
	Total Fleet Cost/Hour: \$20	06.59		
	acres Rip Depth (ft) Source of estimated quantity: Opera		Volume:7,26	0 B
HOURLY PROI	DUCTION			
Seismic:	Saigmia Valagitu	NIA	foot/ooond	
	Seismic Velocity:	<u>NA</u>	feet/second	
Area:				
	Average Ripping Depth:	2.56	mph	
	Average Ripping Width:	7.08	degrees	
	Average Ripping Length:	50.00	feet	
	Average Dozer Speed: Average Maneuver Time:	88.00 0.25	feet feet	
	Production per unit area:	0.596	acres/hour	
Job Condition Corre	•	0.070	aoi os/itoui	
	justed Hourly Unit Production:	0.596	Acres/hr	
	Site Altitude:	6,796	feet	
	Altitude Adj:	1.00	(CAT HB)	
	Job Efficiency:	0.83	(1 shift/day)	
	Net Correction:	0.83	multiplier	
	Adjusted Hourly Unit Production	-	Acres/hr	
	Adjusted Hourly Fleet Production	:0.49	Acres/hr	
JOB TIME AND				
Fleet size:	1 Grader(s)	Total job tin	ne: 6.06	Hours
Unit cost:	\$417.652 Per acre	Total job co	ost: \$1,253	

# **BULLDOZER WORK**

Task description:  E: Fedinec Pit	Reduce slopes to Per	a 5.1, Kough		Permit/Jol	b#: M1977057
- Contraction		_			
PROJECT IDENTI					
Task #:002	State:	Colorado		Abbreviation:	None
Date: 8/7/201	7 County:	Moffat		Filename:	M057-002
User: LJW					
Agency or or	ganization name: DR	MS			
HOURLY EQUIPM	IENT COST				
Basic Machine:	Cat D8T - 8SU				
Horsepower:	310				
Blade Type:	Semi-Universal				
Attachment:	3-shank ripper		7.		
Shift Basis:	1 per day				
	(CRG)				
Cost Breakdown:		7			
			<u>Utilization %</u>		
Ownership Cost/Hou		\$83.81	NA	(a)	
Operating Cost/Hou		\$66.17	100		
Ripper ow Cost/Hou		\$7.55	NA		
Ripper op. Cost/Hou		\$7.21	100		
Operator Cost/Hou		\$41.85			
Operator Cost from		Ψ1.05	NA NA		
MATERIAL QUAN	TITIES				
Initial Volume: 7	,641				
	.000	_			
	,641 LCY	<del>-</del> 3			
	-	_			
Source of estimated v			n, Mining & Safety		
Source of estimated s	well Cat Handl	ook			
factor:	-				
TOTIDI V BRODIV	CTION				
HOURLY PRODUC	CHON				
Average push distanc	e:75 feet				
Unadjusted hourly	1,017.1 LCY	//hr			
production:					
Materials consistency	description: Compac	ted fill or em	bankment 0.9		
Average push	5 %				
gradient:					
Average site altitude:	6,796 feet	_			
Material weight:	2,550 lbs/LCY			_	
Weight description:	Earth - Dry packed				
			C		
Job Condition Correction	on ractor		Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3651

Adjusted unit

371.34 LCY/hr

production: Adjusted fleet production:

371.34 LCY/hr

## **JOB TIME AND COST**

Fleet size:

1 Dozer(s)

Unit cost:

\$0.556/LCY

Total job time:

**20.58** Hours

Total job cost: \$4,251

# TRUCK/LOADER TEAM WORK

		<del></del>					
Task description:	Distrib	ute topsoil o	ver a	affected areas			
Site: Fedinec Pit		Permi	t Act	tion: CN-1		Permit/Job#:	M1977057
PROJECT INTO							
PROJECT IDEN	TIFICATION						
Task #:003		_	Color		Ab		one
Date: 8/7/2	017	County: N	/loffa	ıt		Filename: M	057-003
User: LJW							
Agency or	organization nar	ne: DRM	S				
HOURLY EQUI	PMENT COST	<u> </u>			Shift ba	sis: 1 per day	
	Sandar and a man	T		Equipment Descri	iption		
I	ruck Loader Tea	m - I ruck: Loader:		730 T 950H high lift			
Supp	ort Equipment -L		NA		,		
	-Dı	ımp Area:		D8T - 8SU			
Road M	aintenance –Mote	_	NA	7-11-14-14-14-14-14-14-14-14-14-14-14-14-	본		
	-Wa	ter Truck:	NA				
Cost Breakdown:	Truck/Loa	der Team		Support	Equipment	Mainten	ance Equipment
Cost Breakdown.	Truck	Loader		Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100		00	NA	100	NA	NA
Ownership cost/hour:	\$56.58	\$25		NA	\$83.81	NA	NA
Operating cost/hour:	\$42.77	\$28	.79	NA	\$66.17	NA	NA
%Utilization-riper:	NA		0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0	.00	NA	\$0.00	NA	NA
Ripper op. cost/hour:	NA	\$0	.00	NA	\$0.00	NA	NA
Operator cost/hour:	\$30.37	\$41	.20	NA	\$41.85	NA	NA
Unit Subtotals:	\$129.72	\$95	.37	NA	\$191.83	NA	NA
Number of Units:	2		1	0	1	0	0
Group Subtotals:	Work:	\$354.81		Support:	\$191.83	Maint:	\$0.00
Total work team cos	t/hour: <b>\$546.64</b>						
	<del>'</del>						
MATERIAL QUA	<u>ANTITIES</u>						
Initial volume	: 7,720		CCY	Swell	factor: 1.000		
Loose volume	: 7,72	0	LCY			<del></del>	
Soi	irce of estimated	volume:	Divis	sion of Reclamati	on, Mining & Sa	fetv	
Source	of estimated swe			Handbook			
	Material Purcha		\$0.00				
	To	otal Cost:	\$0.00	0			
HOURLY PRO	DUCTION						
Truck Capacity: Truck Payload (weight	ht) Basis						
Material v				Pounds/LCY	•		
	ription: Top So	oil					
Rated Pa				Pounds			

Truck/Loader worksneet Con	t a	1 ask # 003			Page 2 of	4
Payload Capacity:	38.75	LCY				
Truck Bed (volume) Basis:  Struck Volume:  Heaped Volume:  Average Volume:  Adjusted Volume:	22.10 L 19.60 L	CY CY CY CY				
	ruck Volume Ba	sed on Number of L	oader Passes:	18.06	LCY	
Loading Tool Capacity			Buck	et Size Class: N	ΙA	
Rated Capacity:	4.300	LCY (heaped)				_
Bucket Fill Factor:	1.050	Moist loam or sa	ndy clay (100%	6 - 110%) 1.050		_
Adjusted Capacity:	4.515	LCY	-			_
Job Condition Corrections:		Site	Altitude (ft.):	6796 feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB	)		
Job Efficiency:	0.830	0.830	(CAT HB			
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Nı	imber of Loading To	ol Passes Regu	ired to Fill		passes
Excavators and Front Shovels		moor or bouding re	or russes requ	Truck:	4	passes
Machine Cycle Time vs.	_	Rating: NA				
Selected Value w						
Track Loaders – N	Material Descrip	tion:				
Cycle Time Elements (min.):						
Load: NA	Mai	neuver: NA		Dump: 0.100	0	
Wheel and Track	Loaders - Unadj	justed Basic Loader	•	ad, dump, naneuver):	.500 min	utes
Cycle Time Factors			1	Factor (min.)	Source	
Material:	Mixed materia	1 0.02		0.020	(Cat HB)	_
Stockpile:	Conveyor or do	ozer piled 10 ft. high	or less	0.010	(Cat HB)	-
Truck Ownership:	Common owne 0.04	ership of trucks and	oaders -	-0.040	(Cat HB)	_
Operation:	Constant opera	tion -0.04		-0.040	(Cat HB)	_
Dump Target:	Nominal target	~		0.000	(Cat HB)	_
		Net Cycle Time		-0.050	_ minutes	
		Adjusted Loader Net Load Tim		0.450 1.450	_ minutes minutes	
Truck Cycle Time:			- F			
Truck Exchange Time:	0.60	Minutes	Adjusted f	for site altitude:	0.600	Minutes
Truck Load Time:		Minutes	-	for site altitude:	1.450	Minutes
Truck Maneuver and Dump		Minutes	•	for site altitude:	1.000	- Minutes
Time:		14111111162	Aujusted I	or she annude:  —	1.000	- williules

Truck Travel (Haul & Return) Time: penetration 8.0

Road Condition: Soft, rutted dirt, no maintenance or water, 4" tire

T I 1	Route	
Haui	Noute	۰

Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	150.00	5.00	8.00	13.00	565	0.284

Haul Time: **0.284** minutes Return Route: Haul Distance Grade (%) Roll. Res Velocity Travel Seg# Total Res Time (Ft) (%) (%) (fpm) (min) 150.00 8.00 3.00 2936 -5.00 0.206

> Return Time: 0.206 minutes Total Truck Cycle Time: 3.540 minutes

Loading Tool unit

Production

528.59 LCY/Hour Adjusted for job efficiency: 438.73

LCY/Hour

**Truck Unit Production** 

306.10 LCY/Hour

Adjusted for job efficiency: 254.06 LCY/Hour

Optimal No. of Trucks:

2 Truck(s) Selected Number of Trucks:

2 Truck(s)

Adjusted hourly truck team production:

508.13

LCY/Hour

Adjusted single truck/loader team production: Adjusted multiple truck/loader team production:

438.73 438.73

LCY/Hour LCY/Hour

**JOB TIME AND COST** 

Fleet size: 1

Team(s)

Total job time: 17.60 Hours

Unit cost: \$1.246 /LCY

Total job cost: \$9,619

# **BULLDOZER WORK**

Task description:	Spread Topsoil across the d	isturbed areas		···
Site: Fedinec Pit	Permit Action:	CN-1	Permit/Jo	b#: <u>M1977057</u>
PROJECT IDENTIF	FICATION .			
Task #: 004	State: Colorado		Abbreviation:	None
Date: $\frac{8/7/2017}{}$			Filename:	M057-004
User: LJW			1 11011011101	1,100 / 00 /
A ganay ar arg	anization name: DRMS			
Agency of orga	anization name. Drivis			
<b>HOURLY EQUIPMI</b>	ENT COST			
	at D8T - 8SU	_		
•	10	_		
* * -	emi-Universal	-		
	-shank ripper	<u> </u>		
	per day	<u></u>		
Data Source: (0	CRG)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:		NA		
Operating Cost/Hour:		100		
Ripper own Cost/Hour:	¥/35	NA		
Ripper op. Cost/Hour:		100	-	
Operator Cost/Hour:		NA		
Total Fleet Cost/Hour:	\$206.59			
MATERIAL QUANT	<u> PITIES</u>			
Initial Volume: 7.7	720			
	000			
Loose volume: 7,7	720 LCY			
Source of estimated vo	luma: Divisian of Basianasi	an Mining & Cafety		
Source of estimated sw		ion, wilning & Safety		
factor:	Cat Halldbook			
lactor.				
HOURLY PRODUC	TION			
HOURETTRODUC	HON			
Average push distance:				
Unadjusted hourly	1,400.0 LCY/hr			
production:				
Materials consistency of	description: Loose stockpile 1.2			
Average push	5 %			
gradient:	J / V			
Average site altitude:	6,796 feet			
Material weight:	1,600 lbs/LCY		_	
Weight description:	Top Soil			
Job Condition Correction	n Factor	Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6790

Adjusted unit

950.60 LCY/hr

production: Adjusted fleet production:

950.6 LCY/hr

# **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost:

\$0.217/LCY

Total job time: 8.12 Ho
Total job cost: \$1,678

**8.12** Hours

# **REVEGETATION WORK**

Fedine	dinec Pit Permit Action: CN-1 Permit/Job#:					#: M1977057	
ROJEC	T IDENTIFICAT	<u>rion</u>					
Task #	<b>#</b> : 005	State:	Colorado		Abl	oreviation:	None
Date		County:				Filename:	M057-005
Use		_				_	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
A	Agency or organizati	on name: DRI	MS				
		-		300		SI.	
ERTIL							
aterials			Units /				
Descri	ption		Acre	Unit	Cos	t / Unit	Cost /Acre
					\$		\$
					1 1	1-0.1	φ
					Tot	al Fertilizer	
						Materials	
						Cost/Acre	\$0.00
						*	\$
		·	Tot	al Fertilizer	Application	n Cost/Acre	\$0.00
ILLING	3						
Descri	ntion						Cost /Acre
	plowing {DMG}						\$90.60
CHISCL							1.47.51.5
Cilisei					Total Tillin		1
Chisei				7		g Cost/Acre	\$90.60
	G					g Cost/Acre	\$90.60
EEDING	<u>G</u>					g Cost/Acre	\$90.60
EEDING					Rate –	g Cost/Acre Seeds	\$90.60  Cost /Acre
					Rate – PLS	Seeds per SQ.	
EEDING					Rate – PLS LBS /	Seeds	
Seed M	1ix				Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Seed M	fix - Common				Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Seed M Alfalfa	fix - Common Ricegrass - Nespar				Rate – PLS LBS / Acre 1.60	Seeds per SQ. FT 7.71 4.79	Cost /Acre \$4.08 \$11.47
Seed M  Alfalfa Indian Bitterbi	Tix  - Common Ricegrass - Nespar rush, Antelope				Rate – PLS LBS / Acre 1.60 1.48 4.00	Seeds per SQ. FT 7.71 4.79 1.23	Cost /Acre \$4.08 \$11.47 \$78.00
Seed M  Alfalfa Indian Bitterbi	Tix  - Common Ricegrass - Nespar rush, Antelope				Rate – PLS LBS / Acre 1.60 1.48 4.00	Seeds per SQ. FT 7.71 4.79 1.23	Cost /Ac \$4.08 \$11.47 \$78.00
Seed Malfalfa andian Bitterbrand Derested	fix - Common Ricegrass - Nespar	rest			Rate – PLS LBS / Acre 1.60	Seeds per SQ. FT 7.71 4.79	Cost /Acre \$4.08 \$11.47

Needle and Thread

Prairie Junegrass

Sagebrush, Mountain or Big

\$45.24

\$7.90

\$4.85

2.88

8.50

21.12

1.09

0.40

0.16

Basin Wildrye - Trailhead	2.00	8.13	\$30.10
	a	106.38	
Totals Seed Mix	21.71	100.38	\$261.55

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
Silt fence, Materials (MEANS 31 25 14.16 1000)	2,500.00	LINEAR FOOT	\$0.25	\$625.00
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$261.00	\$522.00
Total Mulch Materials Cost/Acre				\$1,147.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$66.02
Weed spray, hand, non-aquatic area, nox. [DMG]		\$180.00
	Total Mulch Application Cost/Acre	\$246.02

## **NURSERY STOCK PLANTING**

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

## **JOB TIME AND COST**

No. of Acres: 10 Cost /Acre: \$1,977.17

Estimated Failure Rate: 25% Cost /Acre\*: \$1,977.17

\*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$19,771.70

Reseeding Job Cost: \$4,942.93

Total Job Cost: \$24,715

Job Hours: 16.00

## **EQUIPMENT MOBILIZATION/DEMOBILIZATION**

Task description: Mobilization, Demob

Site: Fedinec Pit Permit Action: CN-1 Permit/Job#: M1977057

## **PROJECT IDENTIFICATION**

Task #:006State:ColoradoAbbreviation:NoneDate:8/7/2017County:MoffatFilename:M057-006

User: LJW

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:	\$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:**

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU	53.08	\$91.36	\$125.45	1	\$216.81	\$125.45	\$250.00
CAT 950H high lift	20.13	\$25.38	\$88.67	1	\$114.05	\$88.67	\$250.00
Cat 730	25.19	\$56.58	\$88.67	2	\$290.50	\$177.34	\$250.00

Subtotals: \$621.36 \$391.46 \$750.00

## **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.	\$12.26	1	\$12.26	\$12.26

Subtotals: \$12.26 \$12.26

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

CRAIG

7.00

miles

mph

Total Non-Roadable Mob/Demob Cost \*

"\* two round trips with haul rig:

Total Roadable Mob/Demob Cost \*\*

\*\* one round trip, no haul rig:

\$4,458.09	
\$5.72	

## **Transportation Cycle Time:**

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.23	0.23
Return Time (Hours):	0.23	0.23
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.47	0.47

## **JOB TIME AND COST**

Total job time: 4.93 Hours

Total job cost: **\$4,464**