

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:
Dellacroce Pit	M-1993-050	Gravel	El Paso
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Monitoring	Timothy A. Cazier	July 10, 2018	10:40
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERA	TION:
Raymond F. & Robert W. Dellacroce	Jason Ulmer	112c - Construction	Regular Operation

REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:
Normal I&E Program	Partial Bond	\$37,949.00
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGENCY:
NA	None	None
WEATHER: Clear	INSPECTOR'S SIGNATURE:	SIGNATURE DATE: November 20, 2018

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: Financial Warranty

PROBLEM/POSSIBLE VIOLATION NO. 1: Problem: The financial warranty is not adequate to reclaim the site in accordance with the approved reclamation plan. This is a failure to maintain the proper financial warranty amount to complete reclamation of the affected lands pursuant to C.R.S. 34-32.5-117(4)(b) of the Act. **CORRECTIVE ACTIONS:** The operator shall submit adequate financial warranty, as determined by the Division. The Division will be sending a separate surety increase notice to the operator regarding the increase of the financial warranty. The operator will have 60 days from the date on the surety increase notice to post the additional financial warranty.

CORRECTIVE ACTION DUE DATE: 1/18/19

INSPECTION TOPIC: Gen. Compliance With Mine Plan

PROBLEM/POSSIBLE VIOLATION NO. 2: Problem: Land has been mined outside of the approved affected area boundary. This is a possible violation at this time pursuant to C.R.S. 34-32.5-116(4)(i) for failure to protect areas outside of the affected land from slides or damages occurring during the mining operation.

CORRECTIVE ACTIONS: Submit an amendment application to increase the affected area boundary to include the disturbed area and place affected area boundary markers to help prevent additional mining outside the affected area boundary.

CORRECTIVE ACTION DUE DATE: 1/18/19

OBSERVATIONS

This inspection was conducted by Tim Cazier (DRMS) as part of the regular monitoring program. The Permittee (Raymond F. & Robert W. Dellacroce) was represented by Mr. Jason Ulmer (Pioneer Sand) during the inspection. The Dellacroce Pit is accessed from West Baptist Road on which the entrance is located approximately 1 mile west of Interstate 25 (exit 158). This is a 112c gravel mine. The site was active at the time of the inspection.

<u>Availability of Records</u>: Annual fees are paid through May 2018. The previous inspection was on November 9, 2014. The approved post-mine land use is rangeland. There are no open infractions. Both the surface and minerals are privately owned.

<u>Backfilling and Grading</u>: The site is a ridge being mined such that a visual berm remains between the active mining and the surrounding area. These visual berms (see **Photo 1**) will be pulled down using an excavator as part of the reclamation effort (see **Photo 2**). As such, sufficient backfill material is available.

<u>Financial Warranty:</u> The \$37,949 bond held by the Division is not adequate for the observed mine disturbance. The 2014 bond estimate was for 17 acres of disturbance. The current disturbance is approximately 25 acres. A revised bond estimate is enclosed as **Attachment 1**. <u>The inadequate financial warranty is cited as Problem 1</u> <u>on page 1 of this report</u>. Please review the bond estimate within two weeks.

Fish and Wildlife: No impact to wildlife was observed.

Hydrologic Balance: No standing water was observed in the pit and no exposed groundwater was observed.

Gen. Compliance with Mine Plan: The general operation of the mine appears to be in conformance with the approved mine plan. However, there is an area of disturbance on the north side of the pit (east of Phase XI, north of Phase I, and west of Phase V) that is outside the approved affected area boundary (see Figure 1A). This disturbed area is estimated to be approximately 1.6 acres. This disturbed area outside the affected area boundary is cited as Problem 2 on page 1 of this report. Google Earth was used to measure the disturbance by permit is 64.8 acres. However, based on AR-01 maps, the maximum allowed disturbed area is closer to 40.6 acres (see Figure 1B) Perimeter (or boundary highwalls) were near vertical and estimated to vary between 10 and 15 feet in height. Internal highwalls were estimated to be 20 feet in height. Google Earth was used to estimate the highwall lengths (see Figure 2) for the enclosed bond estimate. As discussed under "Backfilling and Grading" above, sloughing of these highwalls is not a concern as they will be pulled down for reclamation (see Photo 2). The DRMS received a phone call prior to this inspection from a nearby resident asking why they could "see the mine" at the time. During this inspection it was determined what the caller observed was stockpiled product (see Photo 3) having been processed on site and that it would soon be moved offsite, thereby restoring the viewshed to normal.

<u>Off-site Damage</u>: The operation is within the permit boundary, if not the affected area boundary as discussed under "Gen. Compliance with Mine Plan" above.

Processing Waste: No processing waste was observed.

<u>Roads:</u> Haul and access roads did not appear to be a source of sediment that could be tracked offsite.

<u>Reclamation Success</u>: No additional reclamation has been initiated.

<u>Revegetation</u>: Revegetation on the east end of the site (Phases II through VI) was completed as of the previous inspection. This area was released from reclamation liability (see **Photo 4**). No other areas have reached the stage of reclamation where revegetation can be initiated. No noxious weeds were observed.

<u>Sediment Control</u>: No erosion problems were observed and no BMPs were needed at the time of the inspection.

<u>Support Facilities On-site:</u> A screen plant, crusher, wheel loader, and dozer were observed on site (see **Photo 5**).

<u>Signs and Markers</u>: The permit sign was properly posted at the scale house (see **Photo 6**) and boundary markers were observed to delineate the permit boundary (see **Photo 7**).

<u>Permit Stipulations:</u> There are no permit stipulations.

<u>Storm Water MGT Plan</u>: No oil or fuel spills observed. Stormwater drains to the east sediment pond pit and infiltrates.

<u>Topsoil</u>: A topsoil stockpile was observed on the west end of the site (see **Photo 8**).

<u>Structures:</u> No structures were observed within 200 feet of the affected area.

<u>Summary:</u> Please review the enclosed bond estimate. <u>The Division will send a surety increase letter after two</u> <u>weeks</u>. The required amendment application is due on January 18, 2019.

Please contact Tim Cazier (303)866-3567 ext. 8169 or email at <u>tim.cazier@state.co.us</u> if you have any questions regarding this report or bond estimate.



PHOTOGRAPHS

Photo 1. Typical visual berm (south side, west end, looking east).

PHOTOGRAPHS (cont.)



Photo 2. Reclaimed visual berm (south side, east end, looking SE).



Photo 3. Observable (above visual berms) product stockpile (south side, looking NW).

PHOTOGRAPHS (cont.)



Photo 4. Reclaimed east end (Phases II through VI, looking east).



Photo 5. Active mining and equipment (central area, looking east).

PHOTOGRAPHS (cont.)



Photo 6. Permit sign.



Photo 7. Typical permit boundary marker (north of entrance road, looking north).

PERMIT #: M-1993-050 INSPECTOR'S INITIALS: TC1 INSPECTION DATE: July 10, 2018

PHOTOGRAPHS (cont.)



Photo 8. Topsoil stockpile (looking east from west end).

GENERAL INSPECTION TOPICS

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

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

Raymond F. & Robert W. Dellacroce 2210 West Baptist Road Colorado Springs, CO 80921

Enclosures

ec: DRMS file Julie Sevier, Pioneer Sand Company Jason Ulmer, Pioneer Sand Company



Figure 1B. M-1993-050 Post Inspection Map

Satellite Imagery from 6/9/2017 Permit boundary based on map overlay from AR-01, Figure 2.

Legend

- 🥖 AR-01 Release
 - Disturbed Area Outside Affected Area Boundary
 - East Sed Pond Affected Area Boundary (~4.6 Ac.)
 - M-93-50 2017-06-09 Aff. Area
 - Permit Bounday
 - Post AR-01 Affected Area Boundary (~36 Ac.)



© 2018 Google

Hay Greek Rd



COST SUMMARY WORK

Dellacro	ce Pit	Per	rmit Action: 2018	Surety Update	Permit/Jot	o#: <u>M1993050</u>
PROJECT	IDENTIFIC	CATION				
Task #:	000	State:	Colorado	A	Abbreviation:	None
Date:	11/19/2018	County:	El Paso		Filename:	M050-000
User:	TC1					

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Cut interior highwalls to 3H:1V	DOZER	1	9.20	\$2,090.00
002	Pull down perimeter highwalls	EXCAVATE	1	10.68	\$1,942.00
003	Apply 6 inches of topsoil over 25 acres	TRUCK1	1	47.61	\$23,253.00
004	Reveg 25 Acres	REVEGE	1	40.00	\$28,053.00
005	Mob/Demob	MOBILIZE	1	2.60	\$3,605.00
<u>SUBTOTALS:</u> 110.09 \$58,943					

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$1,190.65
Performance bond:	1.05	Total =	\$618.90
Job superintendent:	55.05	Total =	\$4,021.04
Profit:	10.00	Total =	\$5,894.30
		TOTAL O & P =	\$11,724.89
		CONTRACT AMOUNT (direct + O & P) = $($	\$70,667.89

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	0.00 0.00 5.00	Total = Total =	0.00 \$0.00 \$3,533.39
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL I	NDIRECT COST =	\$15,258.28
TOTAL BO	ND AMOUNT (direct + indirect) =	\$74,201.28
TOTAL BOND AMOUNT RO	OUNDED (dire	ect + indirect) =	\$74,200.00

BULLDOZER WORK

Task description:	Cut interior highwalls to 3H	:1V		
e: Dellacroce Pit	Permit Action:	2018 Surety Update	Permit/Jo	b#: <u>M1993050</u>
PROJECT IDENTIFI	CATION			
Task #: 001 Date: 11/19/2013 User: TC1	State:Colorado8County:El Paso		Abbreviation: Filename:	None M050-001
Agency or organ				
HOURLY EQUIPME	<u>NT COST</u>			
	t D8T - 8SU			
Horsepower: 31				
VI	mi-Universal			
	shank ripper	_		
	per day	_		
Data Source: (C	RG)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$93.62	NA		
Operating Cost/Hour:	\$73.35	100		
Ripper own.	\$12.36	NA		
Cost/Hour:	\$7.67	100		
Ripper op. Cost/Hour:				
Operator Cost/Hour:	\$40.23	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$227.23 \$227.23			
MATERIAL QUANT	<u>ITIES</u>			
Initial Volume: 3,27	70			
Swell factor: 1.06				
	56 LCY			
		1		
Source of estimated volu Source of estimated swe factor:		hotos; Task 001.1 spread	asheet	
HOURLY PRODUCT	<u>TION</u>			
Average push distance:	100 feet			
Unadjusted hourly	852.6 LCY/hr			
production:				
-				
Materials consistency de	escription: Consolidated stock	pile 1.0		
Average push	0 %			
gradient:				
Average site altitude:	6,950 feet			
Material weight:	2,850 lbs/LCY			
Weight description:	Gravel - Dry (1/4""-2""diam.)			
6				

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(CAT HB)
Dozing method:	1.100	(50% SL)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.807	(CAT HB)
Blade type:	1.000	(PAT)
		÷

Net correction: 0.4421

Adjusted unit production:	376.93 LCY/hr
Adjusted fleet production:	376.93 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.603/LCY

Total job time:	9.20 Hours
Total job cost:	\$2,090





HYDRAULIC EXCAVATOR WORK

Task description:	Pull down perim	neter highwa	alls		
e: Dellacroce Pit	Pe	rmit Action:	2018 Surety Updat	e Permit/J	ob#: <u>M1993050</u>
PROJECT IDENTIF	[CATION				
Task #: 002 Date: 11/19/201 User: TC1	8 County:	Colorado El Paso		Abbreviation: Filename:	
Agency or orga	nization name:	RMS			
HOURLY EQUIPME	NT COST				
Basic Machine:	Cat 345D L 12'-10 Stick)"	Hors	sepower:	380
Attachment 1:	ROPS Cab		Shi		49.37 per day (CRG)
Cost Breakdown:		1			
Ownership Cost/	Hour: \$66.6	64	Utilization % NA		
Operating Cost/			100		
Operator Cost/			NA		
Total Unit Cost/	Hour: \$181.	.72			
Total Fleet Cost	/Hour: \$181	.72			
MATERIAL QUANT	TTIES				
	4,980	CCY	Swell factor:	1.125	
Loose volume:	5,603	LCY			
HOURLY PRODUCT Excavator Cycle Time (lc					
<u> </u>	-	-	ndition Description:	AVERAGE	
			n Basic Description:	AVERAGE	
	, , , , , , , , , , , , , , , , , , ,		Cycle Time Value:	0.315	minutes
Load Bucket Capacity					
			Buc	ket Size Class: <u>N</u>	Medium
Rated Capacit		_ LCY (hea		00 10000 1 100	
Bucket Fill Facto Adjusted Capacit		Other - ro	ock/dirt mixtures (1	00-120%) 1.100	
Job Condition Correction			Site Alt	itude: <u>6950</u> feet	
500 Condition Contection	<u>1 detors</u>	Source	Site / Itt	itude: <u>0750</u> ieet	
Altitude Adj:	0.96	(CAT HE	3)		
Job Efficiency:	0.83	(1 shift/da	<i>,</i>		
Net Correction:	0.80	multiplier			
Una	djusted Hourly Unit	Production:	657.90 I	LCY/Hour	
А	djusted Hourly Unit	Production:	524.22 I	LCY/Hour	
Ad	djusted Hourly Fleet	Production:	524.22 I	LCY/Hour	
JOB TIME AND COS	<u>5T</u>				
Fleet size:	1 Excavate	or To	otal job time:	10.69	Hours
Unit cost: \$0.	.347 /LCY		Total job cost:	\$1,942	
				• /	





V:\V\Min\TC1_El Paso\M-93-50 Dellacroce Pit\CIRCES\2018_SI Chck_HighwallBackfillCalculatorV2.xlsx // Highwall Backfill-Cut_Pushdown

TRUCK/LOADER TEAM WORK

Site: Dellacroce Pit		Permit Act	ion: 2018 Sure	y Update	Permit/Job#: _	M1993050
PROJECT IDEN	<u>TIFICATION</u>					
$\begin{array}{rrr} Task \ \#: & 003 \\ Date: & 11/19 \\ User: & TC1 \end{array}$	/2018	State: Colora County: El Pas		Abl	breviation: No Filename: M(one 050-003
Agency or	organization nan	ne: DRMS				
HOURLY EQUIP	MENT COST			Shift he	cice 1 por day	
	ruck Loader Tea	m -Truck: Ger	Equipment Descrineric 12-18 cy, 6x	ption	sis: <u>1 per day</u>	
Suppo	rt Equipment -L		Т 938Н			
	-Du	mp Area: Cat	D8T - 8SU			
Road Ma	intenance – Moto					
	-Wa	ter Truck: NA				
Cost Breakdown:	Truck/Loa	der Team	Support	Equipment	Maintena	ance Equipmen
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
6Utilization-machine:	100	100	NA	100	NA	NA
Ownership cost/hour:	\$22.72	\$25.88	NA	\$93.62	NA	NA
Operating cost/hour:	\$44.95	\$32.57	NA	\$73.35	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: Unit Subtotals:	\$25.65	\$36.13 \$94.57	NA	\$40.23 \$207.20	NA NA	NA
	\$93.31		NA			NA
Number of Units: Group Subtotals:	2 Work:	1 \$281.19	0 Support:	1 \$207.20	0 Maint:	\$0.00
Total work team cost		\$201.19	Support.	\$207.20	Ivianit.	\$0.00
MATERIAL QUA	<u>NTITIES</u>					
Initial volume: Loose volume:	/	7 CCY LCY		factor: <u>1.000</u>		
Sou	rce of estimated	volume: Calc	ulation: 6 inches	over 25 acres		
	of estimated swe	ll factor: Cat H	Handbook			
		C	n			
	Material Purcha	tal Cost: \$0.00 \$0.00				

Truck Payload (weight) Basis	<u>s:</u>	
Material weight:	1,600	Pounds/LCY
Description:	Top Soil	
Rated Payload:	50,300	Pounds
Payload Capacity:	31.44	LCY

Truck Bed (volume) Basis: Struck Volume: Heaped Volume: Average Volume: Adjusted Volume:	18.00 I 15.00 I	LCY LCY LCY LCY				
Final T	ruck Volume B	ased on Number of L	oader Passes:	17.16	LCY	
Loading Tool Capacity						
<u>¢</u> ,			Buck	ket Size Class: N	JA	
Rated Capacity:	3.900	LCY (heaped)				_
Bucket Fill Factor:	1.100	Other - rock/dirt	mixtures (10	00-120%) 1.100		-
Adjusted Capacity:	4.290	LCY				
Job Condition Corrections:		Site	e Altitude (ft.):	<u>6950</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HI			
Job Efficiency:	0.830	0.830	(CAT HI	B)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	N	umber of Loading To	ol Passas Pag	uired to Fill		passes
		uniber of Loading Te	on i asses Req	Truck:	4	passes
Excavators and Front Shovels	<u>s:</u>					
Machine Cycle Time vs Selected Value w						
Track Loaders –	Material Descrip	otion:				
Cycle Time Elements (min.):						
Load: NA	Ma	aneuver: NA		Dump: 0.10	0	
Wheel and Track	Loaders - Unac	ljusted Basic Loader	•	oad, dump, maneuver):).483 minu	ıtes
Cycle Time Factors				Factor (min.)	Source	
Material:		0 1/8" diameter 0.02		0.020	(Cat HB)	
Stockpile:	Conveyor or c 0.01	lozer piled 10 ft. high	n or less	0.010	(Cat HB)	
Truck Ownership:	Common own 0.04	ership of trucks and	loaders -	-0.040	(Cat HB)	
Operation:		nt - factor not applica	ble 0.00	0.000	(Cat HB)	_
Dump Target:	Nominal targe			0.000	(Cat HB)	_
		Net Cycle Time		-0.010	minutes	
		Adjusted Loader Net Load Tim	•	0.473 1.518	minutes minutes	
		Thet Load Thi	e per riuer.	1.310		
Truck Cycle Time:						
Truck Exchange Time	0.50	Minutes	Adjusted	for site altitude:	0.500	Minutes
Truck Load Time	1.518	Minutes	Adjusted	for site altitude:	1.518	Minutes
Truck Maneuver and Dump Time		Minutes	Adjusted	for site altitude:	0.900	Minutes

	<u>Truck Trav</u> maintained		ul & Return) T	<u>ime:</u> I	Road Conditio	n: <u>Firm, smoot</u>	<u>h, rolling, dirt</u>	/lt. surfaced,	watered,
	Haul Route								
	Seg #		Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	900.	00	-3.00	3.00	0.00	2938	0.426	
	Return Rou	ite:				Haul Time:	0.426	minu	tes
	Seg #		Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
	1	900.	00	3.00	3.00	6.00	2736	0.364	
					Total Truc	Return Time: k Cycle Time:	-		
	oading Too Produ Unit Produ	iction	510.33	LCY/Hour		Adjusted for jo	bb efficiency:	423.58	LCY/Hour
TTUCK	Unit Floud		277.71	LCY/Hour		Adjusted for jo	b efficiency:	230.50	LCY/Hour
Optima	al No. of Tr	ucks:	2	Truck(s)	1	Selected Numb	er of Trucks:	2	Truck(s)
			А	Adjusted Adjusted single djusted multiple	e truck/loader		on: 423.	.58 LC	CY/Hour CY/Hour CY/Hour
	JOB TIM	IE AN	D COST						
	Fleet	size:	1	Team(s)	То	otal job time:	47.61	<u>1 </u>	Hours
	Unit o	cost:	\$1.153	/LCY	T	otal job cost:	\$23,25	53	

REVEGETATION WORK

Task de	escription:	Reveg 25 Acres			
Site: Della	acroce Pit	Permit Action:	2018 Surety Update	Permit/Job	#: <u>M1993050</u>
	CCT IDENTIFIC				
Tasl		State: Colorado		Abbreviation:	None
Da	ate: <u>11/19/2018</u>	County: El Paso		Filename:	M050-004
U	ser: TC1				

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	6.00	pound	\$0.27	\$1.62
			Total Fertilizer Materials Cost/Acre	\$1.62

Application

Description Tractor towed spreader (MEANS 32 01 90.13 0120)		Cost /Acre \$34.72
Tractor towed spreader (MEANS 52 01 90.15 0120)		\$34.72
	Total Fertilizer Application Cost/Acre	\$34.72

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$106.29
Total Tilling Cost/Acre	\$106.29

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Smooth Brome - Lincoln	2.00	6.66	\$8.72
Intermediate Wheatgrass - Oahe	2.00	4.27	\$7.86
Slender Wheatgrass - San Luis	0.80	2.92	\$2.65
Thickspike Wheatgrass - Critana	0.80	2.83	\$4.70
Western Wheatgrass - Arriba	2.40	6.06	\$19.87
Totals Seed Mix	8.00	22.74	\$43.80

Application

Description	Cost /Acre
 ▲	

	~ ~	
\$11	()()	
-90	.00	

Total Seed Application Cost/Acre\$0.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
Total Mulch Materials Cost/Acre				\$576.00

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$68.78
Total Mulch Application Cost/A	Acre \$68.78

NURSERY STOCK PLANTING

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

JOB TIME AND COST

	No. of Acres:	25	Cost /Acre:	\$831.21
Estimate	ed Failure Rate:	35%	Cost /Acre*:	\$831.21
*Selected Replanting Work Items:		FERTILIZING,TII	LLING,SEEDING,	
		MULCHING		
Initial Job Cost:	\$20,780.25			
Reseeding Job Cost:	\$7,273.09			
Total Job Cost:	\$28,053			
Job Hours:	40.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descrip	otion:	Mob/Demob					
Dellacroc	ce Pit	Permit	Action: 2018	Surety Up	odate	Permit/Job#: <u>M</u>	1993050
PROJECT	IDENTIFIC	ATION					
Task #:	005	State: Co	olorado		Abbre	eviation: None	
Date: User:	11/19/2018 TC1	County: El	Paso		F	ilename: M050)-005
Age	ency or organiz	ation name: DRMS					
EQUIPME	NT TRANSP	ORT RIG COST					
					Shift ba	usis: 1 per da	y
					Cost Data Sou	rce: CRG Da	ta
,	Truck Tractor	Description GENE	RIC ON-HIGH	WAY TRI	UCK TRACTO	OR, 6X4, DIESEI	POWERED
	Theorem Theorem				(2ND HALF,		little,
	Truck Trailer	Description: G	ENERIC FOLI				IPMENT
	Truck Trailer	Description: G		DING GOO	DSENECK, DF	ROP DECK EQU	IPMENT
		Description: G		DING GOO		ROP DECK EQU	IPMENT
Cost Breakdo		Description: G		DING GOO	DSENECK, DF	ROP DECK EQU	IPMENT
Cost Breakdo Available F	<u>wn:</u> Rig Capacities	0-25 Tons		DING GOO TRAILER	DSENECK, DF	ROP DECK EQU	IPMENT
Cost Breakdo Available F	wn:	0-25 Tons		DING GOO TRAILER 51	DSENECK, DF (25T, 50T, AN	ROP DECK EQU	IPMENT
Cost Breakdo Available F Owne	<u>wn:</u> Rig Capacities	0-25 Tons ur: \$16.63	26-50 Tons	DING GOO TRAILER 51- \$	DSENECK, DF (25T, 50T, A) + Tons	ROP DECK EQU	IPMENT
Cost Breakdo Available F Owne Oper Oper	wn: Rig Capacities ership Cost/Hor rating Cost/Hor erator Cost/Hor	0-25 Tons ur: \$16.63 ur: \$44.38 ur: \$27.66	26-50 Tons \$18.37	DING GOO TRAILER 51 \$ \$ \$ \$	DSENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66	ROP DECK EQU	IPMENT
Cost Breakdo Available F Owne Oper Oper	wn: Rig Capacities ership Cost/Hor rating Cost/Hor	0-25 Tons ur: \$16.63 ur: \$44.38 ur: \$27.66	26-50 Tons \$18.37 \$46.13	DING GOO TRAILER 51 \$ \$ \$ \$	DSENECK, DF (25T, 50T, AN + Tons 22.33 50.07	ROP DECK EQU	IPMENT
<u>Cost Breakdo</u> Available F Owne Oper Oper H	wn: Rig Capacities ership Cost/Hor rating Cost/Hor erator Cost/Hor	0-25 Tons ur: \$16.63 ur: \$44.38 ur: \$27.66 ur: \$0.00	26-50 Tons \$18.37 \$46.13 \$27.66	DING GOC TRAILER	DSENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66	ROP DECK EQU	IPMENT
Cost Breakdo Available F Owne Ope Ope Ope Tota NON ROAL	wn: Rig Capacities ership Cost/Hoi erator Cost/Hoi lelper Cost/Hoi l Unit Cost/Hoi DABLE EQU	0-25 Tons ur: \$16.63 ur: \$44.38 ur: \$27.66 ur: \$0.00 ur: \$88.67 JIPMENT:	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	DING GOC TRAILER	DSENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 125.45	ROP DECK EQU ND 100T)	
Cost Breakdo Available F Owne Oper Oper H Total	Rig Capacities ership Cost/Hor rating Cost/Hor erator Cost/Hor lelper Cost/Hor l Unit Cost/Hor	0-25 Tons ur: \$16.63 ur: \$44.38 ur: \$27.66 ur: \$0.00 ur: \$88.67 JIPMENT:	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	DING GOC TRAILER	DSENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66 25.39	ROP DECK EQU ND 100T) Return Trip	DOT Permit
Cost Breakdo Available F Owne Ope Ope Ope Tota NON ROAL	Rig Capacities ership Cost/Hor rating Cost/Hor rator Cost/Hor lelper Cost/Hor l Unit Cost/Hor DABLE EQU Weig Unit	0-25 Tons ur: \$16.63 ur: \$44.38 ur: \$27.66 ur: \$0.00 ur: \$88.67 JIPMENT: ht/ Owner ship Cost/hr/ unit	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	DING GOC TRAILER	DSENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/	ROP DECK EQU ND 100T)	
Cost Breakdo Available F Owne Oper Ope H Total NON ROAJ Machine Description	Rig Capacities ership Cost/Hor rating Cost/Hor rator Cost/Hor I Unit Cost/Hor DABLE EQU Weig Unit (TON	0-25 Tons ur: \$16.63 ur: \$44.38 ur: \$27.66 ur: \$0.00 ur: \$88.67 JIPMENT: ht/ Owner ship Cost/hr/ unit IS)	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni t	DING GOC TRAILER	DSENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/ fleet	ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cost Breakdo Available F Owne Oper Ope H Total NON ROAJ Machine Description Cat D8T - 8S	Swn: Rig Capacities ership Cost/Hor rating Cost/Hor erator Cost/Hor I Unit Cost/Hor I Unit Cost/Hor DABLE EQU Weig Unit (TON) SU 47.71	0-25 Tons ur: \$16.63 ur: \$44.38 ur: \$27.66 ur: \$0.00 ur: \$88.67 JIPMENT: ht/ Owner ship Cost/hr/ unit IS) \$93.62	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni t \$117.55	DING GOC TRAILER	DSENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/ fleet \$211.17	ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet \$117.55	DOT Permit Cost/ fleet \$250.00
Cost Breakdo Available F Owne Oper Oper Oper Total NON ROAL Machine Description Cat D8T - 8S Cat 345D L 10" Stick	Rig Capacities ership Cost/Hor rating Cost/Hor rating Cost/Hor I Unit Cost/Hor I Unit Cost/Hor DABLE EQU Weig Unit (TON) SU 47.71 12'- 54.31	0-25 Tons ur: \$16.63 ur: \$44.38 ur: \$27.66 ur: \$0.00 ur: \$88.67 JIPMENT: ht/ Owner ship Cost/hr/ unit IS) \$93.62 \$66.64	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni t \$117.55 \$125.45	DING GOC TRAILER	DSENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/fleet \$211.17 \$192.09	ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet \$117.55 \$125.45	DOT Permit Cost/ fleet \$250.00 \$250.00
Cost Breakdo Available F Owne Oper Oper Oper Total NON ROAL Machine Description Cat D8T - 8S Cat 345D L	Swn: Rig Capacities ership Cost/Hor rating Cost/Hor erator Cost/Hor I Unit Cost/Hor I Unit Cost/Hor DABLE EQU Weig Unit (TON) SU 47.71	0-25 Tons ur: \$16.63 ur: \$44.38 ur: \$27.66 ur: \$0.00 ur: \$88.67 JIPMENT: ht/ Owner ship Cost/hr/ unit IS) \$93.62	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni t \$117.55	DING GOC TRAILER	DSENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/ fleet \$211.17	ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet \$117.55	DOT Permit Cost/ fleet \$250.00

Subtotals: \$622.02 \$420.34 \$1,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 12-18 cy, 6x4	\$93.32	2	\$186.64	\$186.64
		Subtotals:	\$186.64	\$186.64

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	COLORADO SPRINGS 20.00 50.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$3,455.91	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$149.31	

Transportation Cycle Time:

Haul Time (Hours):	Non- Roadable Equipment 0.40	Roadable Equipment 0.40
Return Time (Hours): Loading Time (Hours):	0.40 0.25	0.40 NA
Unloading Time (Hours): Subtotals:	0.25 1.30	NA 0.80

JOB TIME AND COST

Total job time: **2.60** Hours

Total job cost: \$3,605