

Drinkard - DNR, Connor <connor.drinkard@state.co.us>

Potts Pit # 2, M-2006-013, Inspection Report and Reclamation Cost Estimate

1 message

Drinkard - DNR, Connor <connor.drinkard@state.co.us> To: baxter@kirklandconstruction.us Thu, Jun 2, 2022 at 12:24 PM

Hi Baxter,

Please see the attached inspection report and reclamation cost estimate and let me know if you have any questions.

Best regards,

--

Connor Drinkard

Environmental Protection Specialist Intern



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2 attachments

- NSP-REPORTM_M2006013_CJD_05092022111952.pdf 5649K
- M2006013_2022AprilCostEstimate.pdf



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:	
Potts Pit #2		M-2006-013	Gravel, sand and	Huerfano	
			borrow material for		
			construction		
INSPECTION TYPE:		INSPECTOR(S):	INSP. DATE:	INSP. TIME:	
Monitoring		Connor Drinkard, Jared Ebert	April 13, 2022	10:15	
OPERATOR:		OPERATOR REPRESENTATIVE:	TYPE OF OPERATION:		
Eastern Colorado Aggregates, R.L.L	.L.P.	Mr. Joe Baxter	112c - Construction Regular Operation		
REASON FOR INSPECTION:		BOND CALCULATION TYPE:	BOND AMOUNT:		
Normal I&E Program		Complete Bond	\$103,200.00		
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGENCY:		
NA		None	None		
WEATHER: INSPE		CTOR'S SIGNATURE:	SIGNATURE DAT	Е:	
Clear	C		June 2, 2022		
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	000	and C Draw and			

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: Right of Entry

PROBLEM: Failure to maintain legal right of entry per Rule 6.4.14. The Division was told by the operator that a settlement with Bureau of Land Management (BLM) in 2020 occurred regarding the federal mineral material trespass. The Division has not received documentation of the settlement and/or documentation of the operator's legal right of entry with the BLM. The Division is also aware that the previous land owner Todd Potts has sold the land but the Division has not received documentation of a new legal right to enter for the new land owner.

CORRECTIVE ACTIONS: The permittee/operator must provide a letter from BLM documenting the 2020 federal mineral material trespass is resolved, BLM requirements for future activity at the site, along with documentation as described in Rule 6.4.14 if future mining will occur by 7/4/22. The permittee/operator must also provide proof of legal right to enter and conduct mining and reclamation operations with the new land owner as described in Rule 6.4.14 by the corrective action due date. **CORRECTIVE ACTION DUE DATE:** 7/4/22

INSPECTION TOPIC: Gen. Compliance With Mine Plan

PROBLEM: Rule 1.13.5 states, if an Operator temporarily ceases production of the mining operation for one hundred eighty (180) days or more, the Operator must file a Notice of Temporary Cessation in writing to the

Office.

CORRECTIVE ACTIONS: The Operator must either reinitiate the mining operation, initiate reclamation or submit a request to the Board for a second period of Temporary Cessation by the corrective action due date. **CORRECTIVE ACTION DUE DATE:** 7/4/22

INSPECTION TOPIC: Revegetation

PROBLEM: Tamarisk (salt cedar) trees are present within or have volunteered into the permit area and are becoming established. This is a problem for failure to employ weed control methods for a state listed noxious weed species within the permitted area, and to reduce the spread of weeds to nearby areas as required by Section 3.1.10(6) of the rule.

CORRECTIVE ACTIONS: The operator shall either implement the existing weed control plan, or develop a weed control and management plan in accordance with Section 3.1.10(6) of the Rule. This plan should be developed in consultation with the county extension agency, or weed control district office and should include specific control measures to be applied, a schedule for when control measures will be applied and a post-treatment monitoring plan. Please provide the Division a plan and timeline for treatment of the tamarisk trees or submit photographic documentation of the weed control activities by the corrective action due date. CORRECTIVE ACTION DUE DATE: 7/4/22

INSPECTION TOPIC: Sediment Control

PROBLEM: Erosion gullies and ruts were observed on-site. This is a problem at this time for failure to protect the affected land from erosion pursuant to C.R.S. 34-32.5-116(4)(j).

CORRECTIVE ACTIONS: The operator shall provide photo documentation to the Division verifying erosion gullies and ruts have been repaired, and that the site has have been reconstructed and stabilized to prevent erosion damage by the corrective action date.

CORRECTIVE ACTION DUE DATE: 7/4/22

GENERAL INSPECTION TOPICS

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. 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 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>PB</u>	(FW) FISH & WILDLIFE <u>Y</u>	(RV) REVEGETATION	<u>PB</u>
(SM) SIGNS AND MARKERS <u>Y</u>	(SP) STORM WATER MGT PLAN Y	(RS) RECL PLAN/COMP	Y
(ES) OVERBURDEN/DEV. WASTE <u>Y</u>	(SC) EROSION/SEDIMENTATION PB	(ST) STIPULATIONS	<u>NA</u>
(AT) ACID OR TOXIC MATERIALS <u>NA</u>	(OD) OFF-SITE DAMAGE <u>Y</u>		<u>PB</u>

Y = Inspected / **N** = Not inspected / **N** = Not applicable to this operation / **PB** = Problem cited / **PV** = Possible violation cited

OBSERVATIONS

This was a monitoring inspection of the Potts Pit #2, Division of Reclamation, Mining and Safety (DRMS or Division) permit number M-2006-013, operated by Eastern Colorado Aggregates, R.L.L.P. I, Connor Drinkard and Jared Ebert with DRMS conducted the inspection. Mr. Joe Baxter with Eastern Colorado Aggregates, R.L.L.L.P. accompanied us during the inspection.

Right of Entry:

The Division has a copy of a federal mineral material trespass decision letter for Pott Pit #2 from Bureau of Land Management (BLM) to Ms. Ronda Neumeister dated February 12, 2020. The letter states to resolve this trespass, either a total settlement liability payment of \$35,860.48 or a promissory note including an installment agreement must be received within 60 days. The Division has not received documentation of the settlement and/or documentation of the operator's legal right of entry with the BLM. The Division is also aware that the previous land owner Todd Potts has sold the land but the Division has not received documentation of a new legal right to enter for the new land owner.

The permittee/operator must provide a letter from BLM documenting the 2020 federal mineral material trespass is resolved, BLM requirements for future activity at the site, along with documentation as described in Rule 6.4.14 if future mining will occur by 7/4/22. The permittee/operator must also provide proof of legal right to enter and conduct mining and reclamation operations with the new land owner as described in Rule 6.4.14 by 7/4/22.

Gen. Compliance with Mine Plan:

The current active mining area was plotted and shown to be approximately 13.3 acres. The operation is in Phase 1 of the mine plan and reclamation has not begun for Phase 1. No mining activity or equipment was present on site during the inspection. Temporary Cessation 1 (TC1) expired May 2021. Rule 1.13.5 states, if an Operator temporarily ceases production of the mining operation for one hundred eighty (180) days or more, the Operator must file a Notice of Temporary Cessation in writing to the Office. **The Operator must either reinitiate the mining operation, initiate reclamation or submit a request to the Board for a second period of Temporary Cessation by 7/4/22.**

Revegetation:

Vegetation is encroaching into the Phase 1 active mining area indicating site inactivity. Tamarisk (salt cedar) trees are present within or have volunteered into the permit area and are becoming established. This is a problem for failure to employ weed control methods for a state listed noxious weed species within the permitted area, and to reduce the spread of weeds to nearby areas as required by Section 3.1.10(6) of the rule. Figures 3, 4, 10, 15, and 19 show specific problem areas. The substantial establishment in the previous Phase 1 active mining area shown in Figures 15 and 19 is especially concerning. The operator shall either implement the existing weed control plan, or develop a weed control and management plan in accordance with Section 3.1.10 (6) of the Rule. This plan should be developed in consultation with the county extension agency, or weed control district office and should include specific control measures to be applied, a schedule for when control measures will be applied and a post-treatment monitoring plan. Please provide the Division a plan and timeline for treatment of the tamarisk trees or submit photographic documentation of the weed control activities by 7/4/22.

Sediment and Erosion Control:

Erosion gullies and ruts were observed on-site. Figures 9, 11, 12, and 19 show specific problem areas. The northwest portion of the active mining area has substantial erosion which is especially concerning. This is a problem at this time for failure to protect the affected land from erosion pursuant to C.R.S. 34-32.5-116(4)(j). The operator shall provide photo documentation to the Division verifying erosion gullies and ruts have been repaired, and that the site has have been reconstructed and stabilized to prevent erosion damage by 7/4/22.

Financial Warranty:

The current required financial warranty for the site is \$103,200.00, the Division currently holds a financial warranty in the amount of \$103,200.00 for this site in the form of the Bond from Travelers Casualty and Surety Company of America. The Division has evaluated the reclamation liability for the site and calculated it to be \$153,074.00. This amount is \$49,874.00 more than the financial warranty currently held. **The Division requests the operator review the enclosed reclamation cost estimate and provide the Division any questions or comments by July 4, 2022. The Division may issue a required surety increase notice after this date in accordance with Rule 4.2.1(2). If so, Eastern Colorado Aggregates, R.L.L.L.P. will have sixty days from the date of this notice to provide the additionally required surety.**

Hydrologic Balance: No water observed.

<u>Signs and Markers:</u> The mine identification sign and permit boundary markers were observed.

PERMIT #: M-2006-013 INSPECTOR'S INITIALS: CJD INSPECTION DATE: April 13, 2022

PHOTOGRAPHS



Figure 1. Looking north from southwest side of affected area.



Figure 2. Looking northeast from west side of affected area.



Figure 3. Looking east at stockpile from west side of affected area. Tamarisk present.



Figure 4. Looking east at stockpiles from west side of affected area. Tamarisk present.

PERMIT #: M-2006-013 INSPECTOR'S INITIALS: CJD INSPECTION DATE: April 13, 2022



Figure 5. Looking south from northwest side of affected area.



Figure 6. Looking southeast from northwest side of affected area.



Figure 7. Looking southwest from northwest side of affected area.



Figure 8. Looking east at north side of topsoil stockpile.



Figure 9. Rill north of topsoil stockpile.



Figure 10. Looking west from eastern side of affected area. Tamarisk present.



Figure 11. Looking southeast from eastern side of affected area. Prominent rill.



Figure 12. Looking west from eastern side of affected area. Prominent rill coming from stockpiles.



Figure 13. Looking northwest from east side of affected area.



Figure 14. Looking southeast from east side of affected area. Major gully forming at the head of this drainage.



Figure 15. Looking southeast into previous affected area from east side of affected area. Established tamarisk.



Figure 16. Looking northwest from southeast side of affected area.



Figure 17. Looking west from southeast side of affect area.



Figure 18. Looking southwest at access road from southwest side of affected area.

PERMIT #: M-2006-013 INSPECTOR'S INITIALS: CJD INSPECTION DATE: April 13, 2022

Potts Pit #2, M-2006-013

April 13, 2022 DRMS Inspection



Figure 19. Map of Potts Pit #2. Active Mining Area approx. 13.3 acres.

Inspection Contact Address Mr. Baxter Kirkland

Mr. Baxter Kirkland Eastern Colorado Aggregates, R.L.L.L.P. PO Box 580 Rye, CO 81069

Enclosure: Cost Estimate

CC: None

COST SUMMARY WORK

Task description: Re		Reclaim Potts P	it #2			
Site: Potts Pit #2		Permit Action:		2022 April Inspection	Permit/Job	#: <u>M2006013</u>
PROJECT	<u>'IDENTIFIC</u>	CATION				
Task #:	022	State:	Colorado		Abbreviation:	None
Date:	5/22/2022	County:	Huerfano		Filename:	M013-022
	CJD				-	

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Spread overburden/waste	SCRAPER1	1	23.74	\$33,913
002	Topsoil 6" over 27 ac	SCRAPER1	1	20.03	\$18,315
003	Reveg - 30 ac	REVEGE	1	16.00	\$52,448
003a	Erosion control	REVEGE	1	20.00	\$4,426
004	Mob/Demob	MOBILIZE	1	7.60	\$10,929
		\$120,031			

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$2,425
Performance bond:	1.05	Total =	\$1,260
Job superintendent:	54.66	Total =	\$3,937
Profit:	10.00	Total =	\$12,003
		TOTAL O & P =	\$19,625
		CONTRACT AMOUNT (direct + O & P) = $($	\$139,656

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$500 4.25 5.00	Total = Total =	\$500 \$5,935 \$6,983
CONTINGENCY:	0.00	Total =	\$0
	TOTAL I	NDIRECT COST =	\$33,043
TOTAL BO	\$153,074		

SCRAPER TEAM WORK

PROJECT IDENT Task #: 001 Date: 5/22/20 User: CJD Agency or or HOURLY EQUIPN	<u>)22</u> Co ganization name:	unty:]	Colorado Huerfano			viation: None	
Task #: 001 Date: $5/22/20$ User:CJDAgency or or	<u>)22</u> Co ganization name:	unty:]				viation: None	
Date: 5/22/20 User: CJD Agency or or	rganization name:	unty:]				viation: None	
User: CJD Agency or or	ganization name:	J	Huerfano				
Agency or or	-	DRM			Fil	ename: M013-0)01
	-		IS				
<u>House Lyon</u>	VERNI			COSTS	Shift basis: <u>1 per</u>	dav	
			F		<u>1 per</u>	uuy	
		craper:		ent Description G w/push-pull			
	-	-Dozer:	Cat D9	T - 9SU			
Support	Equipment -Loa		NA Out DO				
Road Mair	-Dum	p Area: Grader:	Cat D9	T - 9SU 2M			
		Truck:		Fanker, 5,000 Ga	ıl.		
Cost Breakdown:	Scraper Wor	rk Team		Support Equ	inment	Maintenanc	e Equipment
COSt Di Candonia.	Scraper	Doz	zer	Load Area	Dump Area	Motor Grader	Water True
%Utilization-machine:	100		50	NA	50	25	
Ownership cost/hour:	\$188.81	\$1	126.01	NA	\$126.01	\$47.01	\$33.
Operating cost/hour:	\$169.82	(\$70.71	NA	\$70.71	\$9.42	\$10.
%Utilization-ripper:	NA		25	NA	25	NA	Ν
Ripper own. cost/hour:	NA	9	\$19.26	NA	\$19.26	\$0.00	\$0.
Ripper op. cost/hour:	NA		\$2.87	NA	\$2.87	\$0.00	\$0.
Operator cost/hour:	\$30.90	9	\$41.30	NA	\$41.30	\$28.56	\$0.
Unit Subtotals:	\$389.53	\$2	260.15	NA	\$260.15	\$84.98	\$43.
Number of Units:	2		1	0	1	1	
Group Subtotals:	Work:	\$1,03	9.21	Support:	\$260.15	Maint:	\$128.92
Total work team cost/h	nour: <u>\$1,428.28</u>						
MATERIAL QUAN	NTITIES						
Initial volume:	17,000		CCY	Swell fact	tor: <u>1.000</u>		
Loose volume:	17,000		LCY				
	ce of estimated vo restimated swell f		Division Cat Han		Mining & Safety	1	
HOURLY PRODU	CTION						
				Scraper E	Bowl (volume) Ba	<u>asis:</u>	
Material weight:	3,250 lbs/LCY			Struck	Volume: 15.70) L	CY
Material description:	Gravel - Pitrun				Volume: 22.00) L	CY
Rated Payload: Payload Capacity:	52,800 pounds 16.25 LCY			Average Adjusted (CY CY

Cycle Time:

Scraper Loading Time:	0.90 Minutes
Maneuver and Spread Time:	<u>0.60</u> Minutes

Job Condition Correction:

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

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	2.00	3.00	5.00	2218	0.45

Haul Time: **0.45** minutes

(min)

Travel Time

Site Altitude: 6000 feet

Return Route:								
Seg #	Haul Distance (Ft)	Grade	Roll. Res	Total Res	Velocity			
		(%)	(%)	(%)	(fpm)			
1	600.00	-2.00	3.00	1.00	2913			

	(, .,	(, *)	(, *)	(- F)	
600.00	-2.00	3.00	1.00	2913	0.31
			Return Time:	0.31	minutes
		Total Scraper	team cycle time:	2.26	minutes
		Adjusted f	or job conditions:	715.98	LCY/Hour
		Selected Nur	mber of Scrapers:	2	Scraper(s)
Adjusted	single scrap	er team (unit) h	ourly production:	715.98	LCY/Hour
Adjusted m	ultiple scrape	er team (fleet) h	ourly production:	715.98	LCY/Hour
TT			L CV/II.		

Unadjusted unit production/hour: <u>862.63</u> LCY/Hour Optimal Number of Scrapers per push

dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	23.74	Hours
Unit cost:	\$1.995	/LCY	Total job cost:	\$33,913	

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SCRAPER TEAM WORK

Site: Potts Pit #2		Permi	t Action:	2022 April In	spection	Permit/Job#: <u>M2</u>	2006013
PROJECT IDENT	IFICATION						
Task #: 002	Sta		Colorado			eviation: None	
Date: $5/22/20$ User: CJD	022 Count	ty: <u>H</u>	Iuerfano		Fi	lename: M013-	002
	·		a				
Agency or o	rganization name:	DRMS	5				
HOURLY EQUIP	MENT			COSTS	Shift basis: <u>1 pe</u>	r day	
	0			nt Description			
		aper:	Cat 6270 NA	G w/push-pull			
Suppor	t Equipment -Load A		NA				
	-Dump A		NA				
Road Main	ntenance – Motor Gra		CAT 12				
	-Water Ti	ruck:	Water T	anker, 5,000 Ga	1.		
Cost Breakdown:	Scraper Work	Team		Support Equi	pment	Maintenand	ce Equipment
	Scraper	Doze	er	Load Area	Dump Area	Motor Grader	Water Tru
%Utilization-machine:	100		NA	NA	NA	25	
Ownership cost/hour:	\$188.81		NA	NA	NA	\$47.01	\$33
Operating cost/hour:	\$169.82		NA	NA	NA	\$9.42	\$10
%Utilization-ripper:	NA		NA	NA	NA	100	1
Ripper own. cost/hour:	NA		NA	NA	NA	\$2.95	\$0
Ripper op. cost/hour:	NA		NA	NA	NA	\$3.40	\$0
Operator cost/hour:	\$30.90		NA	NA	NA	\$28.56	\$0
Unit Subtotals:	\$389.53		NA	NA	NA	\$91.33	\$43
Number of Units:	2		0	0	0	1	
Group Subtotals:	Work:	\$779.	.06	Support:	\$0.00	Maint:	\$135.27
Total work team cost/	hour: <u>\$914.33</u>						
MATERIAL QUA							
Initial volume:	14,924		CCY LCY	Swell fact	or: <u>1.000</u>		
Loose volume:	14,924						
	ce of estimated volu f estimated swell fac		Division of Cat Hand		Mining & Safet	У	
HOURLY PRODU	UCTION						
				Scraper B	owl (volume) B	asis:	
Material weight:	1,600 lbs/LCY			Struck	Volume: 15.7	0 I	.CY
Material description:	Top Soil				Volume: 22.0		LCY
Rated Payload:	52,800 pounds			Average			.CY
Payload Capacity:	33.00 LCY			Adjusted C	Capacity: 18.8		LCY

<u>0.90</u> Minutes

<u>0.60</u> Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 6000 feet

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

Travel Time:

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	1.00	3.00	4.00	2665	0.56

Haul Time: **0.56** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	-1.00	3.00	2.00	2905	0.46
				Return Time:	0.46	minutes
			Total Scraper	team cycle time:	2.52	minutes
			Adjusted for	or job conditions:	745.02	LCY/Hour
			Selected Nur	nber of Scrapers:	2	Scraper(s)
	Adjusted s	single scraper	team (unit) he	ourly production:	745.02	LCY/Hour
	Adjusted mul	tiple scraper	team (fleet) he	ourly production:	745.02	LCY/Hour
0	Unadjusted unit prod ptimal Number of Scrap		897.62	LCY/Hour		
OB TIM	ME AND COST					

 Unit cost:
 \$1.227
 /LCY
 Total job cost:
 \$18,315

REVEGETATION WORK

Т	ask descrip	otion:	Reveg - 30 ac				
Site:	Potts Pit	#2	Pe	rmit Action:	2022 April Inspection	Permit/Job	#: M2006013
PE		IDENTIFIC				A11 · · ·	N
	Task #: Date:	003 5/22/2022	State:	Colorado Huerfano			None M013-003
	User:	CJD	County:				11013-003
	Age	ency or organiz	zation name:	RMS			

FERTILIZING

Materials Units / Cost / Unit Cost /Acre Description Unit Acre Ammonium nitrate, 33-0-0 75.00 \$0.36 \$27.00 pound Triple superphosphate, 0-46-0 54.00 pound \$0.46 \$24.84 **Total Fertilizer** Materials Cost/Acre \$51.84

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$38.77
	Total Fertilizer Application Cost/Acre	\$38.77

TILLING

Description		Cost /Acre
Chisel plowing {DMG}		\$96.50
Weed control spraying (MEANS 31 31 16.13 3100)		\$290.40
	Total Tilling Cost/Acre	\$386.90

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Lovington	0.88	14.36	\$14.06
Indian Ricegrass - Paloma	0.74	2.40	\$8.23
Sand Dropseed	0.05	5.97	\$0.49
Sideoats Grama - Vaughn	3.19	10.47	\$26.72
Western Wheatgrass - Arriba	1.60	4.04	\$10.40
Totals Seed Mix	6.46	37.24	\$59.89

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
		1
	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	\$307.02	\$614.04
Total Mulch Materials Cost/Acre				\$614.04

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$71.57
	Total Mulch Application Cost/Acre	\$71.57

JOB TIME AND COST

No. of Acres:	30	Cost /Acre:	\$1,455.01
Estimated Failure Rate:	30%	Cost /Acre*:	\$977.50
*Selected Replanting Work Items:	SEEDING,MULC	HING	
Initial Job Cost: \$43,650,30			

miniai job Cost.	\$ 4 5,050.50
Reseeding Job Cost:	\$8,797.50
Total Job Cost:	\$52,448
Job Hours:	16.00

REVEGETATION WORK

ite:	Potts Pit	#2	Per	rmit Action:	2022 April Inspection	Permit/Job	#: <u>M2006013</u>
<u>P</u>]	ROJECT	IDENTIFIC	CATION				
	Task #:	003A	State:	Colorado		Abbreviation:	None
	Date:	5/24/2022	County:	Huerfano		Filename:	M013-003a
	Date.						

MULCHING and MISCELLANEOUS

Materials				
Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200)	240.00	BALE	\$12.28	\$2,947.20
Total Mulch Materials Cost/Acre				\$2,947.20

Application

Description		Cost /Acre
Hay bales, staked, <3h:1v (MEANS 31 25 14.16 1305)		\$3.17
	Total Mulch Application Cost/Acre	\$3.17

JOB TIME AND COST

	No. of Acres:	1	Cost /Acre:	\$2,950.37
Estimate	ed Failure Rate:	50%	Cost /Acre*:	\$2,950.37
*Selected Replanti	ng Work Items:	MULCHING		·
Initial Job Cost:	\$2,950.37			
Reseeding Job Cost:	\$1,475.19			
Total Job Cost:	\$4,426			
Job Hours:	20.00			

Task # 022

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EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descript	ion: Mo	ob/Demob					
: <u>Potts Pit #</u>	2	Permit	Action: 2022	April Ins	pection	Permit/Job#:M	2006013
PROJECT I	DENTIFICAT	ION					
Task #:	004	State: Co	olorado		Abbre	eviation: None	
Date: User:	5/22/2022 CJD	County: Hu	ierfano		Fi	lename: M013	-004
Agen	ncy or organizatio	n name: DRMS					
EQUIPMEN	T TRANSPOR	<u>AT RIG COST</u>					
					Shift ba	1	
					Cost Data Sou	rce: CRG Da	ta
Т	ruck Tractor Desc	cription: GENE	RIC ON-HIGHV			OR, 6X4, DIESEI	POWERED,
					(2ND HALF,		
Т	Truck Trailer Desc	cription: G				ROP DECK EQU	IPMENT
			1	RAILER	(25T, 50T, A)	ND 1001)	
Cost Breakdov	vn:						
	ig Capacities	0-25 Tons	26-50 Tons		+ Tons		
	ship Cost/Hour:	\$21.28	\$37.94		47.67		
	ting Cost/Hour:	\$26.55	\$50.48		56.21		
1	rator Cost/Hour:	\$20.54	\$20.54		20.54		
He	elper Cost/Hour:	\$0.00	\$23.53	\$	23.53		
Total	Unit Cost/Hour:	\$68.37	\$132.49	\$1	147.95		
NON ROAD	ABLE EQUIP	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
		\$188.81	\$132.49	2	\$642.60	\$264.98	
Cat 627G w/pt pull		\$100.01					\$250.00
•	16.01	\$49.96	\$68.37	1	\$118.33	\$68.37	\$250.00 \$250.00
pull	16.01		\$68.37 \$68.37	1 1	\$118.33 \$76.35	\$68.37 \$68.37	
pull CAT 12M Drill/Broadcas Seeder with	16.01 st 25.00 er 6.00	\$49.96					\$250.00

Subtotals: **\$1,213.85 \$618.04**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip Cost/hr/ fleet
	unit		Cost/hr/ fleet	COSt/III/ Heet
Light Duty Pickup, 4x4, 3/4 T.	\$12.93	1	\$12.93	\$12.93
Fuel Tanker, 4x2, 170 HP	\$29.70	1	\$29.70	\$29.70
Water Tanker, 5,000 Gal.	\$75.41	1	\$75.41	\$75.41
Lube Truck, 4x2, 190 HP	\$35.20	1	\$35.20	\$35.20
			#4 80 84	#1234
		Subtotals:	\$153.24	\$153.24

\$1,250.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	PUEBLO	—
Total one-way travel distance:	45.00	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost *	\$10,652.80	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$275.83	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.90	0.90
Return Time (Hours):	0.90	0.90
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	3.80	1.80

JOB TIME AND COST

Total job time: **7.60** Hours

Total job cost: **\$10,929**