

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

# M1980003, McNulty Cinder Pit, June 2022 Inspection Report

Simmons - DNR, Leigh <leigh.simmons@state.co.us> To: wendy@quartercircle8.com Thu, Sep 8, 2022 at 1:24 PM

Mrs. McNulty,

Please find attached the report of the June 16 inspection of your cinder pit. I apologize for the delay.

As you'll see, I have updated the Reclamation Cost Estimate. Please review the report and the estimate and let me know if you have comments or questions.

Leigh Simmons Environmental Protection Specialist



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

P 303.866.3567 x 8121 | C 720.220.1180 | F 303.832.8106 1313 Sherman Street, Room 215, Denver, CO 80203 leigh.simmons@state.co.us | https://drms.colorado.gov

INSP-REPORTMWP\_M1980003\_LDS\_08302022021145.pdf 5250K



# 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:
McNulty Cinder Pit	M-1980-003	Sand and gravel and	Eagle
		materials (ash, cinder	
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Monitoring	Leigh Simmons	June 16, 2022	12:00
OPERATOR:	<b>OPERATOR REPRESENTATIVE:</b>	<b>TYPE OF OPERAT</b>	TION:
Quarter Circle 8 LLLPdba Cattle Creek Cinde	Sarah McNulty	110c - Construction I	Limited Impact

REASON FOR INSPECTION:		BOND CALCULATION TYPE:	<b>BOND AMOUNT:</b>
Normal I&E Program		Complete Bond	\$23,000.00
DATE OF COMPLAINT:		POST INSP. CONTACTS:	JOINT INSP. AGENCY:
NA		None	None
WEATHER: INSPE		CTOR'S SIGNATURE:	SIGNATURE DATE:
Clear	Afis		August 30, 2022

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:** 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:** 9/30/22

# **OBSERVATIONS**

This inspection was conducted as part of the normal monitoring program established by the Colorado Division of Reclamation, Mining and Safety (Division). The inspection was conducted by Leigh Simmons of the Division, and accompanied by Sarah McNulty of Quarter Circle 8 LLLP (permitee and operator).

The mine affects less than 10 acres making it a "Limited Impact Operation", and volcanic cinders are considered a construction material, so the 110c type permit is appropriate.

The Division currently holds a financial warranty of \$23,000 for the reclamation of the site, based on a calculation made in 2012 of the estimated cost to complete the reclamation plan. The required financial warranty was recalculated following the inspection as is discussed below.

The weather during the inspection was clear and dry. Access to the site was through a locked gate on Upper Cattle Creek Road (County Road 122), approximately 10 miles north east of Carbondale. The mine ID sign was posted at the gate.

For a 110c operation the permit boundary and affected area boundary are considered equivalent. Vertices of the boundary of the site were marked with posts.

### Financial Warranty:

The RCE has been updated with this inspection, using the same tasks as the 2012 estimate but with current unit costs. The new calculation shows that the estimated cost to reclaim the site has increased to \$36,540. The detailed calculation is attached to this inspection report for your review and comment. Please provide any comments by 9/30/2022, after which the Division will initiate a Surety Increase permitting action.

### Gen. Compliance With Mine Plan:

Various stockpiles of material were observed within an approximately 5.6 acre footprint. Some offsite material was observed, as was discussed in the previous inspection report.

### **Revegetation:**

The site was adequately vegetated, however some cheatgrass (Bromus tectorum) was noted, particularly on the high ground at the north east corner of the site. Cheatgrass is a C-list noxious weed in the state of Colorado and in Eagle county. The area should be monitored to see that it doesn't spread further and management of the vegetation at the site to promote more desirable species should be considered. A link to a cheatgrass factsheet is provided:

https://drive.google.com/file/d/1rzVSgQmhdyerHekDpfAvUs4x34BaPoog/view

### <u>Topsoil:</u>

Topsoil had been stockpiled and marked.

#### PERMIT #: M-1980-003 INSPECTOR'S INITIALS: LDS INSPECTION DATE: June 16, 2022

# **PHOTOGRAPHS**



Figure 1: Mine entrance

#### PERMIT #: M-1980-003 INSPECTOR'S INITIALS: LDS INSPECTION DATE: June 16, 2022



Figure 2: Western edge of permit area, looking north



Figure 3: North western corner of permit area, looking south east



Figure 4: North east corner of the permit area, looking south west.



Figure 5: Stockpiled topsoil



Figure 6: South east corner of the permit area, looking north. Imported material visible in foreground.



Figure 7: South east corner of the permit area, looking west. Imported material visible in foreground.

#### PERMIT #: M-1980-003 INSPECTOR'S INITIALS: LDS INSPECTION DATE: June 16, 2022



Figure 8: Cinder pit

#### **GENERAL INSPECTION TOPICS**

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

(AR) RECORDS <u>N</u>	(FN) FINANCIAL WARRANTY PB	(RD) ROADS <u>Y</u>
(HB) HYDROLOGIC BALANCE <u>Y</u>	(BG) BACKFILL & GRADING <u>N</u>	(EX) EXPLOSIVES <u>N</u>
(PW) PROCESSING WASTE/TAILING <u>N</u>	(SF) PROCESSING FACILITIES <u>N</u>	(TS) TOPSOIL <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE <u>N</u>	(RV) REVEGETATION <u>Y</u>
(SM) SIGNS AND MARKERS <u>Y</u>	(SP) STORM WATER MGT PLAN <u>N</u>	(RS) RECL PLAN/COMP <u>N</u>
(ES) OVERBURDEN/DEV. WASTE <u>N</u>	(SC) EROSION/SEDIMENTATION <u>N</u>	(ST) STIPULATIONS <u>N</u>
(AT) ACID OR TOXIC MATERIALS <u>N</u>	(OD) OFF-SITE DAMAGE <u>Y</u>	

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

Inspection Contact Address Sarah McNulty Quarter Circle 8 LLLPdba Cattle Creek Cinders LLC 7747 CR 100 Carbondale, CO 81623

Enclosure: Appendix A – Reclamation Cost Estimate

Appendix A – Reclamation Cost Estimate

# COST SUMMARY WORK

Task description:   Site reclamation	
Site:       McNulty Cinder Pit         Permit Action:       June 16, 2022         Inspection       Permit/Job#:	M1980003
PROJECT IDENTIFICATION	
Task #:   000   State:   Colorado   Abbreviation:   None	ne
Date: 8/26/2022 County: Eagle Filename: M00	03-000
User: LDS	
Agency or organization name: DRMS	
TASK LIST (DIRECT COSTS)	
	1
Task Form Fleet Task	
Description Used Size Hours Co	ost
01aHW slope reductionDOZER19.26\$2,	2,441
02a Rip pit floor RIPPER 1 12.12 \$3,	3,447
03aSpread growth mediumDOZER16.03\$1,	1,592
04a Revegetate disturbed area REVEGE 1 10.00 \$18	18,218

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	HW slope reduction	DOZER	1	9.26	\$2,441
02a	Rip pit floor	RIPPER	1	12.12	\$3,447
03a	Spread growth medium	DOZER	1	6.03	\$1,592
04a	Revegetate disturbed area	REVEGE	1	10.00	\$18,218
05a	Mobilize reclamation crew and equipment	MOBILIZE	1	4.28	\$3,274
		<u>SUBTO</u>	TALS:	41.69	\$28,972

# **INDIRECT COSTS**

## OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$585
Performance bond:	1.05	Total =	\$304
Job superintendent:	20.85	Total =	\$1,566
Profit:	10.00	Total =	\$2,897
		TOTAL O & P =	\$5,353
		CONTRACT AMOUNT (direct + O & P) = $\frac{1}{2}$	\$34,325

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$500 0.00 5.00	Total = Total =	\$500 \$0 \$1,716
CONTINGENCY:	0.00	Total =	\$0
	TOTAL I	NDIRECT COST =	\$7,569
TOTAL BO	OND AMOUNT (d	lirect + indirect) =	\$36,541

## BULLDOZER WORK

10	ask description:	HW	slope reduct	10 <b>n</b>			
: _	McNulty Cinder H	Pit	Per	mit Action:	June 16, 2022 Inspection	Permit/Job#:	M1980003
Р	ROJECT IDENI	TFICAT	ION				
	Task #: 01A		State:	Colorado		Abbreviation:	None
	Date: $\frac{0114}{8/26/20}$	22	County:	Eagle		Filename:	003-01a
	User: LDS						
	Agency or o	rganization	n name: DF	RMS			
H	OURLY EQUIP	MENT C	OST				
	Basic Machine:	Cat D8T -	8SU				
	Horsepower:	310					
	Blade Type:	Semi-Univ	versal				
		NA					
	Shift Basis:	1 per day					
	Data Source:	(CRG)					
<u>C</u>	ost Breakdown:						
					Utilization %		
	Ownership Cost/Ho			\$124.85	NA		
	Operating Cost/Ho			\$97.63	100		
	ipper own. Cost/Ho			\$0.00	NA		
	Ripper op. Cost/Ho	-		\$0.00	0		
	Operator Cost/Hor	ur:		\$41.30	NA		
	otal unit Cost/Hour: otal Fleet Cost/Hour						
M	IATERIAL QUA	NTITIES	<u>8</u>				
	Initial Volume: 5	5,185					
		1.245					
	Loose volume: 6	5,455 LCY					
	Loose volume.	,					
	burce of estimated v	<i>.</i>	Division	of Reclamati	on, Mining & Safety		
So		olume:			on, Mining & Safety		
So	ource of estimated v	olume:			on, Mining & Safety		
So So	ource of estimated v	olume: well factor			on, Mining & Safety		
So So <u>H</u>	ource of estimated v ource of estimated s	rolume: well factor J <u>CTION</u>	: Cat Hand		on, Mining & Safety		
So So <u>H</u>	Durce of estimated v	rolume: well factor J <u>CTION</u> e:		book	on, Mining & Safety		
So So <u>H</u> U	burce of estimated v burce of estimated s OURLY PRODU verage push distanc	rolume: well factor J <b>CTION</b> e: oduction:	: Cat Hand 50 feet 1,400.0 LC	book Y/hr	on, Mining & Safety		
So So <u>H</u> A <sup>+</sup> U <sup>+</sup>	Durce of estimated v ource of estimated s OURLY PRODU verage push distanc nadjusted hourly pro- laterials consistency	rolume: well factor JCTION e: oduction:	: <u>Cat Hand</u> 50 feet 1,400.0 LC n: <u>Compa</u>	book Y/hr			
So So <u>H</u> A <sup>1</sup> U M	burce of estimated v burce of estimated s <b>OURLY PRODU</b> verage push distanc nadjusted hourly pro laterials consistency verage push gradien	rolume: well factor JCTION e: oduction: r descriptio nt:15 9	: <u>Cat Hand</u> 50 feet 1,400.0 LC n: <u>Compa</u> %	book Y/hr			
So So <u>H</u> A <sup>1</sup> U M	Durce of estimated v ource of estimated s OURLY PRODU verage push distanc nadjusted hourly pro- laterials consistency	rolume: well factor JCTION e: oduction: r descriptio nt:15 9	: <u>Cat Hand</u> 50 feet 1,400.0 LC n: <u>Compa</u>	book Y/hr			
So So <u>H</u> A <sup>1</sup> U M A <sup>2</sup>	burce of estimated v burce of estimated s <b>OURLY PRODU</b> verage push distanc nadjusted hourly pro laterials consistency verage push gradien	rolume: well factor JCTION e: oduction: r descriptio nt:	: <u>Cat Hand</u> 50 feet 1,400.0 LC n: <u>Compa</u> %	book Y/hr			
So So <u>H</u> A <sup>1</sup> U M A <sup>2</sup> A <sup>3</sup> M	burce of estimated v burce of estimated s <b>OURLY PRODU</b> verage push distanc nadjusted hourly pro- laterials consistency verage push gradien verage site altitude:	rolume: well factor JCTION e: oduction: r descriptio nt:	: <u>Cat Hand</u> 50 feet 1,400.0 LC n: <u>Compa</u> 6 0 feet 0 lbs/LCY	book Y/hr			
So So <u>H</u> A <sup>1</sup> M A <sup>1</sup> A <sup>1</sup> M W	burce of estimated v burce of estimated s <b>OURLY PRODU</b> verage push distanc nadjusted hourly pro laterials consistency verage push gradien verage site altitude: laterial weight: //eight description: bb Condition Correc	rolume: well factor <u>JCTION</u> e: oduction: r description t: <u>-15 %</u> 7,400 <u>3,300</u> <u>Basa</u> tion Factor	: <u>Cat Hand</u> 50 feet 1,400.0 LC n: <u>Compa</u> % 0 feet 0 lbs/LCY .lt	book Y/hr			
So So <u>H</u> A <sup>1</sup> M A <sup>1</sup> A <sup>1</sup> M W	burce of estimated v burce of estimated s <b>OURLY PRODU</b> verage push distanc nadjusted hourly pro laterials consistency verage push gradien verage site altitude: laterial weight: /eight description: bb Condition Correc Opera	rolume: well factor JCTION e: oduction: r description t: <u>-15 %</u> 7,400 <u>3,300</u> <u>Basa</u> tion Factor tor Skill:	: <u>Cat Hand</u> 50 feet 1,400.0 LC n: <u>Compa</u> 0 feet 0 lbs/LCY llt 0.	book Y/hr cted fill or e			
So So <u>H</u> A <sup>1</sup> M A <sup>1</sup> A <sup>1</sup> M W	Durce of estimated v ource of estimated s OURLY PRODU verage push distanc nadjusted hourly pro- laterials consistency verage push gradien verage site altitude: laterial weight: /eight description: ob Condition Correc Opera Material con	rolume: well factor JCTION e: oduction: r description t: <u>-15 %</u> 7,400 <u>3,300</u> <u>Basa</u> tion Factor tor Skill:	: <u>Cat Hand</u> 50 feet 1,400.0 LC n: <u>Compa</u> 0 feet 0 lbs/LCY   0. 0.	book Y/hr cted fill or e	mbankment 0.9		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4982	
Adjusted unit production: 69	7.48 LCY/hr	

rajusted and production.	077.10 EC 1711
Adjusted fleet production:	<b>697.48</b> LCY/hr

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.378/LCY

Total job time:	9.26 Hours
Total job cost:	\$2,441

# BULLDOZER RIPPING WORK

	Task description:	Rip	o pit floor						
Site:	McNulty Cinc	ler Pit	Permi	t Action:	June 16, 2022 Inspection		Permit/Job#:	M19800	03
	PROJECT ID	<b>ENTIFICAT</b>	ION						
	Task #: 02/	A	State:	Colorado		Ab	breviation:	None	
		6/2022		Eagle			Filename:	003-02a	
	User: LD	os	· · · <u></u>						
	Agency	or organizatio	n name: DRM	IS					
	HOURLY EQ	UIPMENT (	COST						
	Basic	Machine: C	at D8T - 8SU			Horsepower:		310	
	Ripper Att		Shank Ripper			Shift Basis:		er day	
	1					Data Source:		CRG)	
	Cost Breakdown:								
		_				Utilization %			
		Ownership (			\$124.85	NA			
	D.	Operating (			\$97.63	100			
	11	er Ownership (			\$13.10 \$7.30	NA 100			
	Кірі	per Operating ( Operator (	Cost/Hour:		\$7.30	NA			
		Total Unit (			\$284.18	1111			
		Total Fleet (	Cost/Hour:	\$28	4.18				
	MATERIAL C	<b>UANTITIE</b>	<u>S</u>	Sele	ected estimating	method: Ar	ea		
	Alternate Method	<u>ls:</u>							
mic:	NA		Bank V	Volume:	NA	BCY		NA	
Area:	6.00	acres		pth (ft):	2.00	Volume:	19,360		BCY or C
		Source of est	imated quantity:	Inspec	tion observation				
			innated quantity.	mspee	tion observations	5			
	HOURLY PRO	<u>ODUCTION</u>							
	Seismic:								
			Seismic Velocit	y:	NA	feet/se	econd		
	Area:								
			ige Ripping Dept		2.56	feet/pa			
			ge Ripping Widt		7.08	feet/pa			
			ge Ripping Lengt		50.00	feet/pa			
			erage Dozer Spee ge Maneuver Tim		<u>88.00</u> 0.25	feet/m			
			ction per unit are		0.23	acres/l	es/pass		
	Job Condition Co		1	<i>.</i>	0.370		liour		
			<u>15</u> ly Unit Productio	m.	0.596	Acres	/hr		
	Ull	aujusieu noun	-				111		
			Site Altitud	-	7,400	feet			
			Altitude Ac Job Efficienc		0.83	(CAT (1 shif			
			Net Correctio	-	0.83	(1 shii multip	•		
			d Hourly Unit Pr l Hourly Fleet Pr	oduction:	0.49 <b>0.49</b>	Acres/hr Acres/hr			
	JOB TIME AN	·				1 10100/ III			
	Fleet size:	1	Grader(s)		Total job time	e:	12.13	Но	urs
		ф <i>ета</i> с 1 1			-				
	Unit cost:	\$574.511	Per acre		Total job cos	st:	\$3,447		

CIRCES Cost Estimating Software

## BULLDOZER WORK

Task description:	Spre	ad growth n	nedium			
: <u>McNulty Cinder</u>	Pit	Per	mit Action:	June 16, 2022 Inspection	Permit/Job#:	M1980003
PROJECT IDEN	JTIFIC A TI	ON				
$\begin{array}{c} \text{Task #: } \\ \text{Date: } \\ \text{User: } \\ \text{LDS} \end{array} $		State: County:	Colorado Eagle		Abbreviation: Filename:	None 003-03a
	organization	name: DF	RMS			
HOURLY EQUI	-					
Basic Machine:						
Horsepower:	<u>Cat D8T - 8</u> 310	550				
	Semi-Unive					
Blade Type:	-	ersai				
Attachment:	NA					
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/H	lour:		\$124.85	NA		
Operating Cost/H			\$97.63	100		
Ripper own. Cost/H			\$0.00	NA		
Ripper op. Cost/H			\$0.00	0		
Operator Cost/H			\$41.30			
Operator Cost/H	iour:		\$41.50	NA		
Total unit Cost/Hou Total Fleet Cost/Ho						
MATERIAL QU Initial Volume: Swell factor:	ANTITIES 7,260 1.000					
Loose volume:	7,260 LCY					
Source of estimated Source of estimated		9 ac. @ 6 Cat Hand				
HOURLY PROI						
Average push distan		50 feet				
Unadjusted hourly j	production:	1,400.0 LC	Y/hr			
Materials consisten	cy description	: Loose s	stockpile 1.2	,		
Average push gradi Average site altitud		feet				
Material weight:	1,600	lbs/LCY				
Weight description:	Top S	loil				
Job Condition Corre	ection Factor			Source		
	rator Skill:	0.	750	(AVG.)		
	onsistency:		200	(CAT HB)		
	ng method:		000	(GEN.)		
2021						

Job efficiency: Spoil pile:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	
	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	1,203.02 LCY/hr
Adjusted fleet production:	1203.02 LCY/hr

## JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.219/LCY

Total job time:	6.03 Hours
Total job cost:	\$1,592

## **REVEGETATION WORK**

Task descri	ption:	Revegetate distu	irbed area			
te: <u>McNulty</u>	Cinder Pit	Pe	rmit Action:	June 16, 2022 Inspection	Permit/Jol	b#: <u>M1980003</u>
<b>PROJECT</b>	IDENTIFIC	CATION				
Task #:	04A	State:	Colorado		Abbreviation:	None
Date:	8/26/2022	County:	Eagle		Filename:	003-04a
User:	LDS					

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

## Application

Description	Cost /Acre
	\$
Total Fartilizar Ameliastics Cost/Acro	
Total Fertilizer Application Cost/Acre	\$0.00

## **TILLING**

Description		Cost /Acre
Chisel plowing {DMG}		\$98.43
Weed control spraying (MEANS 31 31 16.13 3100)		\$290.40
	Total Tilling Cost/Acre	\$388.83

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	2.50	8.09	\$16.25
Sand Dropseed	0.05	5.97	\$0.49
Thickspike Wheatgrass - Critana	2.50	8.84	\$17.19
Rabbitbrush, Rubber	0.50	7.45	\$32.15
Saltbush, Four Wing	0.50	0.69	\$6.25
Sumac, Skunkbrush	0.50	0.23	\$10.50
		31.27	\$82.82

I Utals Secu IVIIX 0.55	Totals Seed Mix	6.55
-------------------------	-----------------	------

#### 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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$842.72

## Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
	<b>Total Mulch Application Cost/Acre</b>	\$73.00

## 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:	9	Cost /Acre:	
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$1,619.37
*Selected Replanti	ng Work Items:	TILLING,SEEDING,M	ULCHING	
Initial Job Cost:	\$14,574.33			
Reseeding Job Cost:	\$3,643.58			
Total Job Cost:	\$18,218			
Job Hours:	10.00			

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

MeNulty Cinder Pit       Inspection       Permit/Job#: M1980003         PROJECT IDENTIFICATION         Task #:       05A       State:       Colorado         Date:       8/26/2022       County:       Eagle       Filename:       003-05a         User:       LDS			Permit	Action: June	16, 2022			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	McNulty Cind	er Pit			,	]	Permit/Job#: <u>M</u>	1980003
Date: $\boxed{8/26/2022}$ LDSCounty: $\boxed{Eagle}$ Filename: $\boxed{003-05a}$ Agency or organization name:DRMSSouth Sequence of the second seco	PROJECT IDEN	NTIFICATI	<u>ON</u>					
Date: $\boxed{8/26/2022}$ LDSCounty: $\boxed{Eagle}$ Filename: $\boxed{003-05a}$ Agency or organization name:DRMSSouther the second	Task #: 05A	<b>`</b>	State: Co	lorado		Abbre	eviation: None	
User:LDSAgency or organization name:DRMSCost Data Source:Shift basis:1 per day Cost Data Source:Cost Data Source:CRG DataTruck Tractor Description:GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)Truck Trailer 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)ost Breakdown:Available Rig Capacities0-25 Tons26-50 Tons51+ TonsOwnership Cost/Hour:\$25.26\$30.83\$51.41Operating Cost/Hour:\$25.26\$30.83\$51.41Operating Cost/Hour:\$25.26\$30.83\$51.41Operating Cost/Hour:\$25.26\$30.83\$51.41Operating Cost/Hour:\$68.22\$101.82\$20.02Total Unit Cost/Hour:\$68.22\$101.82\$20.00\$20.00\$20.00\$20.01\$20.01<								
Source InterviewSource InterviewShift basis: InterviewShift basis: InterviewCost Data Source: InterviewCost Data Source: InterviewTruck Tractor Description: InterviewGENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)Truck Trailer Description: InterviewGENERIC FOLDING GOOSENEECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)Tost Breakdown:Available Rig Capacities 0-25 Tons 26-50 Tons 51+ Tons Ownership Cost/Hour: \$15.25 \$23.06 \$37.58 Operating Cost/Hour: \$25.26 \$30.83 \$51.41 Operator Cost/Hour: \$27.71 \$27.71 Helper Cost/Hour: \$27.71 \$27.71 Helper Cost/Hour: \$0.00 \$20.22 \$20.22 Total Unit Cost/Hour: \$68.22 \$101.82 \$136.92KON ROADABLE EQUIPMENT:Machine Weight/ Unit Cost/hr/unit Cost/hr/unit Cost/hr/unit Cost/hr/unit Cost/hr/unit Cost/hr/unit Cost/hr/unit Cost/hr/leetReturn Trip Cost/hr/ Return Trip Cost/hr/fleetDOT Permit Cost/fleetMachine Weight/ Unit Cost/hr/unit Cost/hr/unit Cost/hr/unit Cost/hr/unit Cost/hr/unit Size Cost/hr/IsSilo1.82 \$250.00 \$20.22 \$20.22 \$20.22 \$101.82 \$136.92Silo1.82 \$250.00 \$20.22 \$20.22 \$20.22 \$101.82 \$20.00Silo1.82 \$250.00 \$20.22 \$20.00Silo1.82 \$250.00 \$20.22 \$20.00				0				
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Description         Unit (TONS)         Cost/hr/ unit t         Cost/hr/ unit t         Cost/hr/ let fleet         Cost/hr/ fleet         Cost/fleet           Cat D8T - 8SU         47.71         \$124.85         \$101.82         1         \$226.67         \$101.82         \$250.00           CAT 972H         28.00         \$53.96         \$101.82         1         \$155.78         \$101.82         \$250.00           Drill/Broadcast Seeder with         25.00         \$6.25         \$68.22         1         \$74.47         \$68.22         \$250.00	Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00	<b>26-50 Tons</b> \$23.06 \$30.83 \$27.71 \$20.22	TRAILER 51+ \$3 \$5 \$2 \$2 \$2	(25T, 50T, AN - Tons 37.58 51.41 27.71 20.22	•	IPMENT
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r         (TONS)         t         fleet         fleet           Cat D8T - 8SU         47.71         \$124.85         \$101.82         1         \$226.67         \$101.82         \$250.00           CAT 972H         28.00         \$53.96         \$101.82         1         \$155.78         \$101.82         \$250.00           Drill/Broadcast         25.00         \$6.25         \$68.22         1         \$74.47         \$68.22         \$250.00	Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT:	<b>26-50 Tons</b> \$23.06 \$30.83 \$27.71 \$20.22 \$101.82	TRAILER           51+           \$2           \$2           \$2           \$1	(25T, 50T, AN - Tons 37.58 51.41 27.71 20.22 36.92	ND 100T)	DOT Permit
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CAT 972H         28.00         \$53.96         \$101.82         1         \$155.78         \$101.82         \$250.00           Drill/Broadcast         25.00         \$6.25         \$68.22         1         \$74.47         \$68.22         \$250.00           Seeder with         25.00         \$6.25         \$68.22         1         \$74.47         \$68.22         \$250.00	Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/ Unit	0-25 Tons           \$15.25           \$25.26           \$27.71           \$0.00           \$68.22           MENT:           Owner ship	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni	TRAILER 51+ 52 52 52 52 52 52 52 52 52 52 52 52 52	(25T, 50T, AN - Tons 37.58 51.41 27.71 20.22 36.92 Haul Trip Cost/hr/	ND 100T)	DOT Permit
Drill/Broadcast         25.00         \$6.25         \$68.22         1         \$74.47         \$68.22         \$250.00           Seeder with         \$6.25         \$68.22         \$1         \$74.47         \$68.22         \$250.00	Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit (TONS)	0-25 Tons           \$15.25           \$25.26           \$27.71           \$0.00           \$68.22           MENT:           Owner ship           Cost/hr/ unit	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni t	TRAILER 51+ 52 52 52 52 52 52 52 52 52 52 52 52 52	(25T, 50T, AN - Tons 37.58 51.41 27.71 20.22 36.92 Haul Trip Cost/hr/ fleet	ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
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Subtotals: \$456.92 \$271.86 \$750.00	Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat D8T - 8SU CAT 972H Drill/Broadcast Seeder with	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit (TONS) 47.71 28.00	0-25 Tons           \$15.25           \$25.26           \$27.71           \$0.00           \$68.22           MENT:           Owner ship           Cost/hr/ unit           \$124.85           \$53.96	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni t \$101.82 \$101.82	TRAILER           51+           \$2           \$2           \$2           \$1           1	(25T, 50T, AN - Tons 37.58 51.41 27.71 20.22 36.92 Haul Trip Cost/hr/ fleet \$226.67 \$155.78	Return Trip Cost/hr/ fleet \$101.82 \$101.82	DOT Permit Cost/ fleet \$250.00 \$250.00

# **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$24.30	1	\$24.30	\$24.30
		Subtotals:	\$24.30	\$24.30

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	GLENWOOD SPRINGS 20.00 35.00	miles
Total Non-Roadable Mob/Demob Cost *	\$3,246.73	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$27.77	_

Transportation Cycle Time:

Haul Time (Hours): Return Time (Hours): Loading Time (Hours): Unloading Time (Hours):	Non- Roadable Equipment 0.57 0.57 0.50 0.50	Roadable Equipment 0.57 0.57 NA NA NA
Subtotals:	2.14	1.14
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## JOB TIME AND COST

Total job time: **4.29** Hours

Total job cost: \$3,274