

September 26, 2023

Phillip Courtney Martin Marietta Materials, Inc. 1627 Cole Boulevard, Suite 200 Lakewood, CO 80401

Re: Rich Pit, No. M-1985-218, Enforcement Hearing Meeting Follow-Up Correspondence Regarding the Operator's Request to Re-evaluate the Bond, and Abate the Substitute Water Supply Plan Problem Citation

Phillip Courtney,

On Tuesday, September 12, 2023, the Division received your request (via phone conversation) to meet in person to discuss the reasoning behind the possible violation citation, the reclamation cost estimate, and the substitute water supply plan (SWSP) for the Rich Pit, M-1985-218. On September 14, 2023, you had sent the Division items to consider when reviewing the reclamation cost estimate. After the meeting between the Division and the Operators on Monday, September 18, 2023, a new reclamation cost estimate was conducted, and is enclosed with this letter. The Operator will have <u>14 days from the issuance of this letter</u>, (October 10, 2023) to review the cost estimate, and to submit any questions or comments to the Division. If no comments are received, the Division may issue a surety increase notice for the difference. The Operator will have 60 days from the date of the notice to submit and obtain acceptance of the increase from the Division in accordance with Rule 4.2.1(2).

Additionally, the meeting clarified that the SWSP for the Rich Pit is current and accurately accounts for the exposed groundwater on-site. The inspection problem cited for the SWSP in the Division's Inspection Report for the July 13, 2023 inspection is considered **resolved**.

On September 26, 2023, the Division received your request for a continuance to the November 15-16, 2023 MLRB hearing, for the possible violation for failure to comply with the conditions of an order, permit or regulation pursuant to C.R.S. 34-32.5-124 for mining in an area encompassing approximately 29 acres without an approved mining and reclamation plan, cited in the Division's inspection report and Reason to Believe a Violation Exists letters. The Operator stated that this will allow them time to conduct corrective actions prior to the meeting. The Division **approves** your request, and will continue this matter to the November 15-16, 2023 MLRB meeting. In order to be considered at the hearing, all exhibits, materials and witness testimony you wish for the Board to consider must be submitted by 5:00 PM on November



3, 2023 via email to the MLRB Administrator, Camille M. Mojar at: <u>Dnr_drms_mlrb-</u>submittals@state.co.us.

If you have any questions, please send me an email at <u>amber.michels@state.co.us</u>, or call me at 720-836-0967.

Sincerely,

Amber Michels Environmental Protection Specialist

Cc: Jared Ebert, DRMS Brock Bowles, DRMS

COST SUMMARY WORK

Site: Rich Pit		Permit Ac	tion: 2023 Inspection	Permit/Job#: M198521	8
PROJECT II	DENTIFICATI	<u>ON</u>			
Task #:	000	State:	Colorado	Abbreviation:	None
Date:	8/31/2023	County:	Pueblo	Filename:	M218-000
User:	ANM				

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
1 ask	Description	Used	Size	Hours	Cost
001	Backfill silt and freshwater ponds	DOZER	2	25.69	\$21,855
002	Backfill active pit	DOZER	3	784.71	\$1,001,298
003	Import backfill, \$10/CY to fill 1.23 CY pit minus	SITEMAINT	1	0.00	\$11,072,400
	156,000CY	ENANCE			
004	Backslope Lake 2 Pit w/ Overburden	DOZER	2	7.92	\$6,734
005	Slurry Wall Install from Applegate Estimate	SITEMAINT	1	0.00	\$223,125
		ENANCE			
006	Road Reclamation	GRADER	1	8.06	\$1,474
007A	Spread Topsoil over 84.19 acres	SCRAPER1	1	27.45	\$110,371
007B	Revegetation	REVEGE	1	84.00	\$147,967
008	Mob/Demob	MOBILIZE	1	8.04	\$33,344
		<u>SUBTO</u>	TALS:	945.87	\$12,618,568

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: Performance bond: Job superintendent: Profit:	1.05 472.94	Total = Total =	\$254,895 \$132,495 \$30,779 \$1,261,857
-			
Profit:	10.00	Total = TOTAL O & P =	
		CONTRACT AMOUNT (direct + O & P) = $(1 + 1)^{-1}$	
NGINEEDING DDOIEC	T MANAGEMENT.		

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$607,690
Reclamation management and/or administration:	5.00		\$714,930
CONTINGENCY:	0.00	Total =	\$0
		TOTAL INDIRECT COST =	\$3,003,145
ΤΟΤΑ	L BOND A	MOUNT (direct + indirect) =	\$15,621,713

BULLDOZER WORK

Task description:Backfill silt	and freshwater ponds			
te: Rich Pit	Permit Action: 2023 Insp	pection Permit/J	ob#: <u>M198521</u>	8
PROJECT IDENTIFICATION				
Task #: 001 Date: 8/30/2023 User: ANM	State: Colorado County: Pueblo		Abbreviation: Filename:	None M218-001
Agency or organization na	me: DRMS			
HOURLY EQUIPMENT COST				
Basic Machine: Horsepower:Cat D8T - 8SUBlade Type:310Blade Type:Semi-UniversalAttachment:NAShift Basis:1 per dayData Source:(CRG)				
<u>Cost Breakdown</u> :		Utilization %		
Ownership Cost/Hour: Operating Cost/Hour: Ripper own. Cost/Hour: Ripper op. Cost/Hour:	\$241.38 \$143.92 \$0.00 \$0.00	NA 100 NA 0		
Operator Cost/Hour:	\$40.04	NA	_	
	98,010 sqft ponds x 8 ft dee			
	ft— Cat Handbook	or 29040 CY		
	feet 400.0 LCY/hr Wet, highly cohesive 0.8			
Average push gradient:0 %Average site altitude:4,550 feet				
Material weight: 2,700 lbs/	LCY			
Weight description: Earth - W	et excavated			
Job Condition Correction Factor		Source		
Operator Skill: Material consistency: Dozing method: Visibility:	0.750 0.800 1.200 1.000	(AVG.) (CAT HB) (SLOT) (AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.852	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4582

Adjusted unit production:	641.48 LCY/hr
Adjusted fleet production:	1282.96 LCY/hr

JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$0.663/LCY
Total job time: Total job cost:	25.69 Hours \$21,855

BULLDOZER WORK

Task description:Backfill a	ctive pit		
Rich Pit	Permit Action: 2023 Ins	pection Permit/Job#: M198521	18
ROJECT IDENTIFICATION			
Task #: 002	State: Colorado	Abbreviation:	None
Date: $\frac{8/31}{2023}$	County: Pueblo	Filename:	M218-002
User: ANM	·		
Agency or organization	name: DRMS		
rigency of organization			
OURLY EQUIPMENT COST			
Basic Machine: Cat D8T - 8S	J		
Horsepower: 310			
Blade Type: Semi-Univers	al		
Attachment: NA			
Shift Basis: 1 per day			
Data Source: (CRG)			
ost Breakdown:	I	Litilization %	
Ownership Cost/Hour:	\$241.38	<u>Utilization %</u> NA	
Operating Cost/Hour:	\$241.38 \$143.92	<u> </u>	
Ripper own. Cost/Hour:	\$143.92	100 NA	
Ripper op. Cost/Hour:	\$0.00	0	
Operator Cost/Hour:	\$40.04	NA	
•	ψτυιστ		
Total unit Cost/Hour: \$425.34	ļ.		
Total Fleet Cost/Hour: \$1,276.	01		
Initial Volume: 1,263,240 Swell factor: 1.125			
Loose volume:			
Source of estimated volume:		= 34.12mil ft^3 or 1,263,240 CY	
Source of estimated swell factor:	Cat Handbook		
IOURLY PRODUCTION			
0 1	50 feet		
Unadjusted hourly production:	1,400.0 LCY/hr		
Materials consistency description:	Wet, highly cohesive 0.8		
Average push gradient: 0 %			
Average site altitude: $4,550 \text{ fm}$	eet		
Material weight: 2,550 ll	ps/LCY		
Weight description: Earth -	Dry packed		
bb Condition Correction Factor	• 1	Source	
Operator Skill:	0.750	(AVG.)	
Material consistency:	0.800	(CAT HB)	
Dozing method:	1.200	(SLOT)	
Visibility:	1.000	(AVG.)	
Job efficiency:	0.830	(1 SHIFT/DAY)	
Spoil pile:	0.800	(SSD-AC)	
Spon phe.	0.000		

Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4312

Adjusted unit production:	603.68 LCY/hr
Adjusted fleet production:	1811.04 LCY/hr

JOB TIME AND COST

Fleet size:	3 Dozer(s)
Unit cost:	\$0.705/LCY

 Total job time:
 784.71 Hours

 Total job cost:
 \$1,001,298

SITE MAINTENANCE

Site: Ri	k description:	on-site)	tion: 2023 Inspect	it (minus 156,000 CY o	Job#: M1985218
Sile: KI	ch Pit	Permit Act	.10fi:	ion Permit.	JOD#: <u>W11983218</u>
'ROJECT	IDENTIFICATI	<u>DN</u>			
Task #:	003	State: Colorado	C	Abbreviation:	None
Date:	8/31/2023	County: Pueblo		Filename:	M218-003
User:	ANM				
	Agency or organi	zation name: <u>DRMS</u>			
JNIT COST	ſS				
UNIT COS	<u>15</u>				

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Bring in backfill	1.00	USER PROVIDED	1,107,240.00	1	\$10.00	\$11,072,400.00
		ITEM				

Job Hours: 0.00

Total Cost: \$11,072,400.00

BULLDOZER WORK

Task description: Backslop	e Lake 2 Pit w/ Overburden				
e: Rich Pit	Permit Action: 2023 Ins	pection Permit/Job#: <u>M1</u>	ermit/Job#: <u>M1985218</u>		
PROJECT IDENTIFICATION					
Task #: 004 Date: 8/31/2023 User: ANM	State: Colorado County: Pueblo	Abbrevia Filena			
Agency or organization	n name: DRMS				
HOURLY EQUIPMENT COST					
Basic Machine: Cat D8T - 85 Horsepower: 310	,U				
Blade Type: Semi-Univer	sal				
Attachment: NA					
Shift Basis: 1 per day					
Data Source: (CRG)					
Cost Breakdown:		Utilization %			
Ownership Cost/Hour:	\$241.38	NA			
Operating Cost/Hour:	\$143.92	100			
Ripper own. Cost/Hour:	\$0.00	NA			
Ripper op. Cost/Hour:	\$0.00	0			
Operator Cost/Hour:	\$40.04	NA			
Total unit Cost/Hour: \$425.3					
Total Fleet Cost/Hour: \$850.6	7				
Initial Volume: 17,500 Swell factor: 1.000 Loose volume: 17,500 LCY Source of estimated volume: Source of estimated swell factor:	2:1 until 5' from surface, 3: Cat Handbook	1 after. 17'deep, 3750'perm			
HOURLY PRODUCTION					
Average push distance:	60 feet				
Unadjusted hourly production:	1,246.9 LCY/hr				
Materials consistency description:	Partly consolidated stock	pile 1.1			
Average push gradient: -15 %					
Average site altitude: $4,550$	feet				
Material weight: 2,550	lbs/LCY				
Weight description: Earth	Dry packed				
Ob Condition Correction Factor		Source			
Operator Skill:	0.750	(AVG.)			
Material consistency: _ Dozing method:	1.100 1.200	(CAT HB) (SLOT)			
Visibility:	1.000	(SLO1) (AVG.)			
Job efficiency:	0.830	(1 SHIFT/DAY)			
Spoil pile:	0.900	(SSD-FC)			
spon pile	0.000	(522.10)			

Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8865

Adjusted unit production:	1,105.38 LCY/hr
Adjusted fleet production:	2210.76 LCY/hr

JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$0.385/LCY

 Total job time:
 7.92 Hours

 Total job cost:
 \$6,734

SITE MAINTENANCE

	Task description:	Slurry Wal	l Install from A	pplegate Estimate				
Site:	Rich Pit		Permit Action:	2023 Inspection	Permit	/Job#:	M1985218	
<u>PROJF</u>	CCT IDENTIFICATIO	<u>N</u>						
Task Da		State: County:			Abbreviation: Filename:	None M218	-005	
Use		county.	1 40010		i nonume.	11210		
Agency or organization name: DRMS								
<u>UNIT C</u>	OSTS							

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Construct Active	1.00	USER PROVIDED	63,750.00	1	\$3.50	\$223,125.00
Pit Slurry Wall		ITEM				
(3750LFx17ftD)						

Job Hours: <u>0.00</u>

Total Cost: \$223,125.00

MOTOR GRADER WORK

Task description:	Road Reclamati	on				
te: Rich Pit	Pe	rmit Action:	2023 Inspec	tion	Permit/Job#:	M1985218
PROJECT IDENTIF	CATION					
Task #: 006	State:	Colorado		Abb	reviation: N	one
Date: 8/31/2023	County:	Pueblo				218-006
User: ANM	5					
	· .: DI					
Agency or organ	nization name: DF	RMS				
HOURLY EQUIPME	NT COST					
Basic Machine	e: CAT 12M			Horsepower:	158	
Ripper Attachmen	t: Multi-Shank Ri	pper		Shift Basis:	1 per o	lay
				Data Source:	(CRC	G) (G
Cost Breakdown:						
	1.1		*- / - -	Utilization %		
	rship Cost/Hour:		\$74.98	NA	_	
	ating Cost/Hour:		\$55.26 \$3.09	100 NA	_	
	rship Cost/Hour: ating Cost/Hour:		\$3.09 \$2.57	NA 100	_	
	erator Cost/Hour:		\$46.87	NA	_	
-	Unit Cost/Hour:		\$182.77		_	
Total			\$102.77			
	to be graded or rippe				ao	cres
Source	e of estimated acreag	e: <u>Google</u>	e Earth Estimat	e 2023 image		
HOURLY PRODUCT	TION					
	Average Grader Sp		1.50	mph		
	Selected Applicat			ping (0-3 mph)		
	Selected Blade Ar	·	-1	degree	S	
W7: 441	Effective Blade Len		0.00	feet		
	of blade overlap per p or ripping width per p		2.00 7.58	feet feet		
	Hourly Unit Product		1.3782	acres/h	our	
Job Condition Correction	-			ite Altitude: 455		
		Source				
Altitude Adj:	1.00	(CAT HE				
Job Efficiency:	0.90	(1sh/d, fav				
Net Correction:	0.9000	multiplier				
A	djusted Hourly Unit I	Production:	1.2404	acres/Hou	r	
	justed Hourly Fleet		1.2404	acres/Hou		
JOB TIME AND COS	ST					
	1 Grader(s)		Total job time	: 8.0	6 Н	ours
			·			
Unit cost: \$14	7.35 per acre		Total job cost	: \$1,4	/4	

SCRAPER TEAM WORK

Site: Rich Pit		Permit A	tion: 2023 Inspec	tion I	Permit/Job#:N	11985218
PROJECT IDENT	IFICATION					
Task #: 007A Date: 8/31/20 User: ANM		State: Colo unty: Pueb			viation: <u>None</u> ename: <u>M218</u>	8-007A
Agency or or	rganization name	DRMS				
HOURLY EQUIPM	MENT		COST	Shift basis: <u>1 per</u>	day	
		Ear	ipment Description			
	-5	Scraper: Ca	t 657G w/push-pull			
		-Dozer: NA				
Support	t Equipment -Loa Dum-		t D8T - 8SU t D8T - 8SU			
Road Mair	ntenance – Motor	Grader: CA	T 12M			
	-Water	Truck: W	ter Tanker, 2,500 G	ial.		
Cost Breakdown:	Scraper Wo	rk Team	Support Eq	uipment	Maintena	nce Equipn
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water '
%Utilization-machine:	100	N	A 50	50	50	
Ownership cost/hour:	\$379.25	N	A \$241.38	\$241.38	\$74.98	9
Operating cost/hour:	\$358.77	N	A \$71.96	\$71.96	\$27.63	§
%Utilization-ripper:	NA	Ν		NA	NA	
Ripper own. cost/hour:	NA	N		\$0.00	\$0.00	
Ripper op. cost/hour:	NA	N		\$0.00	\$0.00	
Operator cost/hour:	\$47.28	N		\$40.04	\$46.87	
Unit Subtotals:	\$785.30	N		\$353.38	\$149.48	5
Number of Units:	4	<u> </u>	0 1	1	1	
Group Subtotals:	Work:	\$3,141.20	Support:	\$706.76	Maint:	\$172
Total work team cost/h MATERIAL QUAI Initial volume: Loose volume: Sourc		CC LC Dlume: Goo AM	gle Earth dist acrea		mage and .5' TS	
Source of	festimated swell		Handbook			
HOURLY PRODU	CTION					
			a	Bowl (volume) Ba	acic.	
			Scraper	Bowi (volume) Ba	4313.	
Material weight:	1,600 lbs/LCY			x Volume: 32.00		LCY
Material weight: Material description: Rated Payload:	1,600 lbs/LCY Top Soil 104,000 pounds		Strucl)	LCY LCY LCY

Heaped Volume:	44.00	LCY
Average Volume:	38.00	LCY
Adjusted Capacity:	38.00	LCY

Cycle Time:

Scraper Loading Time:	
Maneuver and Spread Time:	(
-	

Job Condition Correction:

1.10 Minutes 0.60 Minutes

Site Altitude: 4550 feet

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

Travel Time:

Road Condition: Hard, smooth, stabilized, surfaced, watered, maintained 2.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	-1.00	2.00	1.00	3004	0.69

Haul Time: 0.69 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	1.00	2.00	3.00	2958	0.67

Return Time:	0.67	minutes
Total Scraper team cycle time:	3.06	minutes
Adjusted for job conditions:	1,236.86	LCY/Hour
Selected Number of Scrapers:	4	Scraper(s)
Adjusted single scraper team (unit) hourly production:	2,473.73	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	2,473.73	LCY/Hour

Unadjusted unit production/hour: <u>1,490.20</u> LCY/Hour Optimal Number of Scrapers per push

dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	27.45	Hours
Unit cost:	\$1.625	/LCY	Total job cost:	\$110,371	

REVEGETATION WORK

-	Rich Pit		Permit Action:	2023 Inspection	Permit/Job	o#: <u>M1985218</u>
PF	ROJECT	IDENTIFICA	<u>TION</u>			
	Task #:	007B	State: Colorado		Abbreviation:	None
	D	8/31/2023	County: Pueblo		Filename:	M218-007
	Date:	0/51/2025				

FERTILIZING

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	120.00	pound	\$0.62	\$74.80
Triple superphosphate, 0-46-0	90.00	pound	\$0.89	\$80.10
			Total Fertilizer Materials	617400
			Cost/Acre	\$154.90

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$41.82
	Total Fertilizer Application Cost/Acre	\$41.82

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.30	11.71	\$8.54
Sand Dropseed	0.10	11.94	\$0.98
Sideoats Grama - Butte	2.70	8.86	\$24.30
Yellow Sweet Clover - Madrid	0.70	4.18	\$1.98
Western Wheatgrass - Arriba	4.80	12.12	\$31.20
Saltbush, Four Wing	0.50	0.69	\$6.25
Totals Seed Mix	9.10	49.50	\$73.25

Description Drill Seeding (DRMS Survey Cost)		Cost /Acre \$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	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$222.13

JOB TIME AND COST

	No. of Acres:	84.19	Cost /Acre	\$1,696.49
Estimate	ed Failure Rate:	20%	Cost /Acre*	\$305.25
*Selected Replantin	ng Work Items:	SEEDING		
Initial Job Cost:	\$142,827.49			
Reseeding Job Cost:	\$5,139.80		_	
Total Job Cost:	\$147,967		-	
Job Hours:	84.00		_	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descri	ption: M	ob/Demob						
ite: <u>Rich Pit</u>		Perm	it Action:2023	Inspectior	<u>1</u> I	Permit/Jo	b#: <u>M</u>	1985218
<u>PROJECT</u>	IDENTIFICAT	ION						
Task #:	008	State: 0	Colorado		Abbrev	viation:	None	
Date:	8/31/2023	County: H	Pueblo			ename:	M218-	008
User:	ANM							
Ag	ency or organizatio	on name: DRM	S					
FOUR								
EQUIPME	<u>ENT TRANSPOI</u>	<u>KT RIG COST</u>						
					Shift bas	is:	1 per day	7
				(Cost Data Sour	ce: (CRG Dat	a
	Truck Tractor Des	crintion: GEN	ERIC ON-HIGH			D 6V/	DIESEI	DOWEDED
	The Tractor Des	cription. OEN			(2ND HALF, 2		DIESEL	I O WERED,
	Truck Trailer Des	cription:	GENERIC FOLD				K EOUI	PMENT
	THUCK TRAILER DES	cription.			(25T, 50T, AN			I IVILIN I
				KAILLK	(251, 501, AI	D 1001)		
Cost Breakd	own:							
Available	Rig Capacities	0-25 Tons	26-50 Tons	51+	- Tons			
	ership Cost/Hour:	\$20.26	\$36.04		47.05			
	erating Cost/Hour:	\$39.51	\$76.08		32.85			
	erator Cost/Hour:	\$22.52	\$22.52		22.52			
1	Helper Cost/Hour:	\$0.00	\$23.53		23.53			
	al Unit Cost/Hour:	\$82.29	\$158.17		75.95			
			·					
NON ROA	DABLE EQUIP	MENT						
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return		DOT Permit
Description		Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr	/ fleet	Cost/ fleet
	(TONS)				fleet			
Cat D8T - 8		\$241.38	\$158.17	3	\$1,198.65	\$474.51		\$250.00
CAT 12M	16.01	\$74.98	\$82.29	1	\$157.27	\$82.29		\$250.00
Drill/Broadd Seeder with	cast 25.00	\$6.73	\$82.29	2	\$178.04	\$164.58		\$250.00

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$73.18	1	\$73.18	\$73.18
Light Duty Pickup, 4x2, 1/2 T.	\$87.62	1	\$87.62	\$87.62
Fuel Tanker, 4x2, 170 HP	\$73.18	1	\$73.18	\$73.18
Lube Truck, 4x2, 190 HP	\$80.73	1	\$80.73	\$80.73

\$82.29

\$175.95

1

4

Subtotals:

\$25.94

\$379.25

6.00

80.25

Tractor Power Mulcher

pull

(Bowie LD-90) Cat 657G w/push\$108.23

\$2,220.80

\$3,862.99

\$82.29

\$703.80

\$1,507.47

\$250.00

\$500.00

\$1,500.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	PUEBLO	_
Total one-way travel distance:	10.00	miles
Average Travel Speed:	55.00	mph
Total Non-Roadable Mob/Demob Cost *	\$33,229.98 \$114.44	_

Transportation Cycle Time:

	Non- Roadable	Roadable
Haul Time (Hours):	Equipment 0.18	Equipment 0.18
Return Time (Hours):	0.18	0.18
Loading Time (Hours):	1.83	NA
Unloading Time (Hours):	1.83	NA
Subtotals:	4.02	0.36

JOB TIME AND COST

Total job time: **8.05** Hours

Total job cost: **\$33,344**