

January 10, 2024

Leon Moores Moores Mining, LLC 32905 Hihgway 141 Gateway, CO 81522

RE: Moores Pit, Permit No. M-1980-178, Proposed Surety Increase SI-5 Rev 2.

Dear Mr. Moores:

This reclamation cost update was in response to the site inspection conducted on December 19, 2023. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

The bond was last recalculated in 2018 with SI-4. Below is a table summarizing input values that have been updated since the SI-4 calculation. This calculation takes into account fully affecting phase 1-4 for a total disturbance of 22.8 ac and a similar highwall configuration to that observed at the Divisions last inspection. Changes from V1 are highlighted in Red. This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation plan.

Task	Form Used	Description	
01a	Dozer	Reduce main highwall on West side to 3H: 1V 45'H, 500LF @ 1H: 1V = 9,375 BCY	
02a	Dozer	Misc grading and sloping Phase 1, 2, 3, 4 = 37, 192 CCY CN-1 estimate 18,412 CCY for phases 1-2 + highwall 01a task total of 16,052 BCY. Backfill & Sloping Phase 1 - 4 (25,755 + 8,712 + 4,035 + 8,065) =	
		46,567 – 9,375 (current task 01a) = 37,192 CCY	



Task	Form Used	Description
03a	Dozer	Replace 6" of fines as growth material
		21.2 (reveg 1-4) – 2 ac completed = 19.2 ac @ 6" = 15,448 CCY, push 250 LF
04a	Reveg	Reveg with Type A seed mix- Pit Floor
		Reveg <mark>8.9 ac</mark> (Phase 1, 2 ,3, <mark>4</mark> rec plan), remove secondary fertilizer app, use tractor to apply fertilizer rather than push spreader
05a	Reveg	Reveg with Type B seed mix- Slopes
		Reveg 12.3 ac (Phase 1, 2, 3, 4 rec plan), - 2 ac in phase 1 completed = 10.3 Ac remove secondary fertilizer app, corrected seed mix, use tractor to apply fertilizer rather than push spreader
06a	Demo	Add in scale house Demo
		10' x 25' x 8' wood bldg. on site bury
07a/b	Mob	Mob all equipment used
Indirect		Update hrs

• To move into phase 4 you will need a TR to increase maximum disturbance to 22.8 ac. Note that currently approximately 2 acres are currently reclaimed. That reclamation has been accounted for in the estimate above.

Please look it over and let me know if there are errors or concerns. The current disturbance of phases 1-3 requires a bond of \$154,622. If you wish to move into phase 4 that would result in a total required bond amount of **\$201,362**, which is an increase of <u>\$109,512</u> over the \$91,850 currently held. Please let the Division know which option you would like.

Sincerely,

Amy Geldell

Amy Yeldell Environmental Protection Specialist

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS

COST SUMMARY WORK

Task description:		Bonding for Pha	ses 1-4					
Site: Moores Pit		Per	mit Action:	Rev2	Permit/Job	o#: <u>M1980178</u>		
<u>P</u>]	ROJECT Task #:	<u>IDENTIFIC</u> ACY	CATION State:	Colorado		Abbreviation:	None	
	Date:	1/10/2024 ACY	County:	Mesa		Filename:	M178-ACY	
	Age	ency or organi	zation name:	RMS				

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Reduce main highwall on west side to 3H: 1V	DOZER	2	25.45	\$21,652
02a	Misc grading and sloping Phase 1, 2, 3, 4	DOZER	2	68.48	\$58,250
03a	Replace 6" of fines of growth medium	DOZER	2	33.71	\$28,675
04a	Reveg with "Type A" seed mix	REVEGE	1	12.00	\$22,088
05a	Reveg with "Type B" seed mix	REVEGE	1	14.00	\$23,817
06a	Demo on site features	DEMOLISH	1	4.00	\$389
07a	Initial mobilization of equipment	MOBILIZE	1	6.00	\$6,978
07b	Secondary mobilization of equipment	MOBILIZE	1	6.00	\$2,454
		SUBTO	DTALS:	169.64	\$164,303

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$3,319
Performance bond:	1.05	Total =	\$1,725
Job superintendent:	84.82	Total =	\$5,520
Profit:	10.00	Total =	\$16,430
		TOTAL O & P =	\$26,994
		CONTRACT AMOUNT (direct + O & P) = $($	\$191,297

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	0.00	Total =	\$0
Reclamation management and/or administration:	5.00		\$9,565
CONTINGENCY:	0.00	Total =	\$0
	TOTAI	L INDIRECT COST =	\$37,059
TOTAL BO	ND AMOUNT	(direct + indirect) =	\$201,362

Task # 01A

BULLDOZER WORK

Task description:	Reduce main hig	hwall on we	st side to 3H: 1V		
Moores Pit	Perr	nit Action:	Rev2	Permit/Job#:	M1980178
PROJECT IDENTI	FICATION				
Task #: 01A	State:	Colorado		Abbreviation:	None
Date: $1/10/2024$		Mesa		Filename:	M178-01a
User: ACY		111000			
Agency or orga	anization name: <u>DR</u>	MS			
HOURLY EQUIPM	<u>ENT COST</u>				
	at D8T - 8SU				
Horsepower: <u>31</u>					
• •	emi-Universal				
Attachment: NA					
	per day				
Data Source: (C	CRG)				
Cost Breakdown:		I	TT/11 / 0/		
Ownership Cast/II		¢241 20	<u>Utilization %</u>		
Ownership Cost/Hour:		\$241.38 \$143.92	<u>NA</u>		
Operating Cost/Hour: Ripper own. Cost/Hour:		\$143.92	100 NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour:		\$0.00	<u> </u>		
		\$0.00	-		
Operator Cost/Hour:		\$40.04	NA		
MATERIAL QUAN' Initial Volume: 9,3 Swell factor: 1.4	75	_			
	406 LCY				
Source of estimated volu	ume: 45' H 500)FL @ 1:1 ci	ıt/fill		
Source of estimated swe	ell factor: Cat Hand	book			
HOURLY PRODUC	TION				
Average push distance:	150 feet				
Unadjusted hourly produ		hr			
Materials consistency de	escription: <u>Compa</u>	cted fill or er	mbankment 0.9		
Average push gradient:	-15 %				
Average site altitude:	6,100 feet				
Material weight:	3,300 lbs/LCY				
Weight description:	Decomposed rock	- 75% Rock,	, 25% Earth		
Job Condition Correctio			Source		
Operator	Skill: 0.	750	(AVG.)		
		200			
Material consis	stency: 0.	900	(CAT HB))		
Dozing m	ethod: 0.9	900 000 000	(CAT HB)) (GEN.) (AVG.)		

Task # 01A

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:	0.4152	
Adjusted unit production:	263.36 LCY/hr	
Adjusted fleet production:	526.72 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$1.615/LCY

Total job time:	25.45 Hours
Total job cost:	\$21,652

BULLDOZER WORK

	Misc grading and sloping Phase 1, 2, 3, 4				
Moores Pit	Peri	mit Action:	Rev2	Permit/Job#:	M1980178
PROJECT IDENTI	FICATION				
Task #: 02A	State:	Colorado		Abbreviation:	None
Date: 1/10/2024	County:	Mesa		Filename:	M178-02a
User: ACY	,			-	
Agency or org	anization name: DR	RMS			
HOURLY EQUIPM					
	at D8T - 8SU				
Horsepower: 31					
1	emi-Universal				
Attachment: N					
Shift Basis: 1	per day				
	CRG)				
Cost Breakdown:					
<u>2051 DICARUOWII</u> .			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:	\$425.34				
Total Fleet Cost/Hour:	\$850.67				
	4020107				
MATERIAL QUAN					
MATERIAL QUAN	TITIES				
MATERIAL QUAN Initial Volume: _37,	TITIES 192				
MATERIAL QUAN Initial Volume: <u>37,</u> Swell factor: <u>1.2</u>	TITIES 192 15				
MATERIAL QUANInitial Volume:37,Swell factor:1.2Loose volume:45,	TITIES 192 15 188 LCY				
MATERIAL QUANInitial Volume:37,Swell factor:1.2Loose volume:45,Source of estimated volume	TITIES 192 15 188 LCY ume:		es 1-4 backfilling and slo	ping totals	
MATERIAL QUANInitial Volume:37,Swell factor:1.2Loose volume:45,	TITIES 192 15 188 LCY ume:CN-1 Min		es 1-4 backfilling and slo	ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated swell	TITIES 192 15 188 LCY ume: CN-1 Min cat Hand		es 1-4 backfilling and slo	ping totals	
MATERIAL QUANInitial Volume:37,Swell factor:1.2Loose volume:45,Source of estimated volume	TITIES 192 15 188 LCY ume: CN-1 Min cat Hand		es 1-4 backfilling and slo	ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated swe HOURLY PRODUCC	TITIES 192 15 188 LCY ume: CN-1 Min cat Hand		es 1-4 backfilling and slo	ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Stantage	TITIES 192 15 188 LCY ume:	book	es 1-4 backfilling and slo	ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated swe HOURLY PRODUCC	TITIES 192 15 188 LCY ume:	book	es 1-4 backfilling and slo	ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Stantage	TITIES 192 15 188 LCY ume: CN-1 Min ell factor: Cat Hand CTION uction: 100 feet 852.6 LCY/	book		ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produce Materials consistency definition	TITIES 192 15 188 LCY ume: CN-1 Min ell factor: Cat Hand CTION uction: 100 feet 852.6 LCY/ escription: Consol	book hr		ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produce Materials consistency de Average push gradient:	TITIES 192 15 188 LCY ume: CN-1 Min ell factor: Cat Hand CTION uction: 100 feet scription: Consol 5 %	book hr		ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly product	TITIES 192 15 188 LCY ume: CN-1 Min ell factor: Cat Hand CTION uction: 100 feet 852.6 LCY/ escription: Consol	book hr		ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly produce Materials consistency de Average push gradient:	TITIES 192 15 188 LCY ume: CN-1 Min ell factor: Cat Hand CTION uction: 100 feet scription: Consol 5 %	book hr		ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated sweet HOURLY PRODUC Average push distance: Unadjusted hourly product Materials consistency de Average push gradient: Average site altitude: Material weight:	TITIES19215188 LCYume: $CN-1$ Mincat Handcat HandCTIONuction: 100 feetascription:Consol -5% 6,100 feet3,300 lbs/LCY	book hr idated stockp		ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated swell Source of estimated swell Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly product Materials consistency defined Average push gradient: Average site altitude: Material weight: Weight description:	TITIES 192 15 188 LCY ume: _CN-1 Min ell factor: Cat Hand CTION uction: _100 feet uction: _100 feet escription: _Consol	book hr idated stockp	 bile 1.0	ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated volu Source of estimated sweet HOURLY PRODUC Average push distance: Unadjusted hourly product Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Lob Condition Correction	TITIES 192 15 188 LCY ume: _CN-1 Min ell factor: _Cat Hand CTION uction: _100 feet uction: _100 feet escription: _Consol	book hr idated stockp - 75% Rock,	 pile 1.0 . 25% Earth Source	ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated volu Source of estimated volu Source of estimated volu Source of estimated volu Material sconsistency de Average push distance: Unadjusted hourly produce Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correctio Operator Operator	TITIES 192 15 188 LCY ume: CN-1 Min cat Hand CTION uction: 100 feet asscription: Consol -5% 6,100 feet 3,300 lbs/LCY Decomposed rock on Factor 0.	book hr idated stockp - 75% Rock, 750	 pile 1.0 , 25% Earth <u>Source</u> (AVG.)	ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly product Materials consistency defined Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correction Operator Material consist	TITIES 192 15 188 LCY ume: CN-1 Min cat Hand CTION uction: 100 feet asscription: Consol -5% 6,100 feet 3,300 lbs/LCY Decomposed rock m Factor 0. r Skill: 0.	book hr idated stockp - 75% Rock, 750 000	bile 1.0 5.25% Earth <u>Source</u> (AVG.) (CAT HB)	ping totals	
MATERIAL QUAN Initial Volume: 37, Swell factor: 1.2 Loose volume: 45, Source of estimated volu Source of estimated swell HOURLY PRODUC Average push distance: Unadjusted hourly product Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correction Operator Material consis Dozing m	TITIES 192 15 188 LCY ume: $CN-1$ Min ell factor: Cat Hand 2TION uction: 100 feet scription: Consol -5% 6,100 feet $3,300$ lbs/LCY Decomposed rock on Factor r r Skill: 0. stency: 1. nethod: 1.	book hr idated stockp - 75% Rock, 750	 pile 1.0 , 25% Earth <u>Source</u> (AVG.)	ping totals	

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3870	
Adjusted unit production: 32	29.96 LCY/hr	
Adjusted fleet production: 65	59.92 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$1.289/LCY

Total job time:	68.48 Hours
Total job cost:	\$58,250

BULLDOZER WORK

Task description:	Replace 6" of fi	nes of growth	medium		
Moores Pit	Pe	rmit Action:	Rev2	Permit/Job#:	M1980178
PROJECT IDENTI	FICATION				
Task #: 03A	State:	Colorado		Abbreviation:	None
Date: $1/10/2024$		Mesa		Filename:	M178-03a
User: ACY				-	
A gency or ore	ganization name: D	RMS			
Agency of org					
HOURLY EQUIPM	IENT COST				
	at D8T - 8SU				
1	10				
• • •	emi-Universal				
	IA				
	per day CRG)				
	UNU)				
Cost Breakdown:		i			
		60.11.00	<u>Utilization %</u>		
Ownership Cost/Hours		\$241.38	NA		
Operating Cost/Hour		\$143.92	100 NA		
Ripper own. Cost/Hour: Ripper op. Cost/Hour:		\$0.00 \$0.00	<u>NA</u> 0		
Operator Cost/Hour		\$0.00			
Operator Cost/Hours	·	\$40.04	NA		
	\$425.34 \$850.67				
Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: 15,	\$850.67				
MATERIAL QUAN Initial Volume: 15, Swell factor: 1.0	\$850.67 [TITIES ,448 060				
MATERIAL QUAN Initial Volume: 15, Swell factor: 1.0	\$850.67				
MATERIAL QUANInitial Volume:15,Swell factor:1.0Loose volume:16,	\$850.67 [TITIES ,448 060 ,375 LCY	 			
MATERIAL QUAN Initial Volume: 15, Swell factor: 1.0	\$850.67 TITIES ,448 060 , 375 LCY lume:6" over				
MATERIAL QUAN Initial Volume: 15, Swell factor: 1.0 Loose volume: 16, Source of estimated vol	\$850.67 TITIES ,448 060 , 375 LCY lume: _6" over				
MATERIAL QUAN Initial Volume: 15, Swell factor: 1.0 Loose volume: 16, Source of estimated vol	\$850.67				
MATERIAL QUAN Initial Volume: 15. Swell factor: 1.0 Loose volume: 16. Source of estimated vol Source of estimated sweet HOURLY PRODUCT	\$850.67 (TITIES ,448)60 , 375 LCY lume: <u>6'' over</u> ell factor: <u>Cat Han</u> <u>CTION</u>				
MATERIAL QUAN Initial Volume: 15, Swell factor: 1.0 Loose volume: 16, Source of estimated vol Source of estimated sweet HOURLY PRODUC Average push distance:	\$850.67	dbook			
MATERIAL QUAN Initial Volume: 15. Swell factor: 1.0 Loose volume: 16. Source of estimated vol Source of estimated sweet HOURLY PRODUCT	\$850.67	dbook			
MATERIAL QUAN Initial Volume: 15, Swell factor: 1.0 Loose volume: 16, Source of estimated vol Source of estimated sweet HOURLY PRODUC Average push distance:	\$850.67 (TITIES ,448 060 ,375 LCY lume: 6" over ell factor: Cat Han CTION luction: 377.8 LCY	dbook			
MATERIAL QUAN Initial Volume: 15, Swell factor: 1.0 Loose volume: 16, Source of estimated vol Source of estimated swee HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient:	\$850.67 (TITIES ,448)60 ,375 LCY lume: <u>6" over</u> ell factor: <u>Cat Han</u> CTION Luction: <u>250 feet</u> luction: <u>377.8 LCY</u> lescription: <u>Partly</u> 10 %	dbook Z/hr	stockpile 1.1		
MATERIAL QUAN Initial Volume: 15, Swell factor: 1.0 Loose volume: 16, Source of estimated vol Source of estimated sweet HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency destinated set	\$850.67 (TITIES ,448)60 ,375 LCY lume: 6" over ell factor: Cat Han CTION luction: 250 feet arrow 250 feet luction: 277.8 LCY	dbook Z/hr			
MATERIAL QUAN Initial Volume: 15, Swell factor: 1.0 Loose volume: 16, Source of estimated vol Source of estimated swee HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient:	\$850.67 (TITIES ,448)60 ,375 LCY lume: <u>6" over</u> ell factor: <u>Cat Han</u> CTION Luction: <u>250 feet</u> luction: <u>377.8 LCY</u> lescription: <u>Partly</u> 10 %	dbook Z/hr			
MATERIAL QUAN Initial Volume: 15. Swell factor: 1.0 Loose volume: 16. Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude:	\$850.67 (TITIES ,448 060 ,375 LCY lume: 6" over ell factor: Cat Han CTION luction: 377.8 LCY lescription: Partly -10 % 6,100 feet	dbook //hr consolidated			
MATERIAL QUAN Initial Volume: 15, Swell factor: 1.0 Loose volume: 16, Source of estimated vol Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description:	\$850.67 (TITIES ,448 060 ,375 LCY lume: 6" over ell factor: Cat Han CTION luction: 377.8 LCY lescription: Partly -10 % 6,100 feet 2,400 lbs/LCY Sand - Dry, loose	dbook //hr consolidated			
MATERIAL QUAN Initial Volume: 15, Swell factor: 1.0 Loose volume: 16, Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency de Average push gradient: Average site altitude: Material weight:	\$850.67 (TITIES ,448 060 ,375 LCY lume: 6" over ell factor: Cat Han CTION luction: 250 feet luction: 377.8 LCY lescription: Partly	dbook //hr consolidated			
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MATERIAL QUAN Initial Volume: 15. Swell factor: 1.0 Loose volume: 16. Source of estimated vol Source of estimated vol Source of estimated swee HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency de Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operato Material consist Dozing m	\$850.67 (TITTIES ,448)60 ,375 LCY lume: 6" over ell factor: Cat Han CTION luction: 250 feet arrly	dbook //hr consolidated	Source (AVG.)		

Job efficien	ey:	0.830	(1 SHIFT/DAY)
Spoil pi	le:	0.800	(FND-RF)
Push gradie	nt:	1.225	(CAT HB)
Altitu	le:	1.000	(CAT HB)
Material Weig	ht:	0.958	(CAT HB)
Blade ty	be:	1.000	(PAT)
Net correction	on: 0.6429		
	242.89 LCY	/hr	
Adjusted unit production:	272.07 LC I	. / 111	

Fleet size:	2 Dozer(s)
Unit cost:	\$1.751/LCY

Total job time:	33.71 Hours
Total job cost:	\$28,675

REVEGETATION WORK

ion:	Reveg with "Type A" seed n	nix		
t	Permit Action:	Rev2	Permit/Job	o#: <u>M1980178</u>
			Abbreviation	None
1/10/2024	County: Mesa		Filename:	M178-04a
]	t DENTIFIC 04A	t Permit Action: DENTIFICATION 04A State: Colorado 1/10/2024 County: Mesa	t Permit Action: <u>Rev2</u> DENTIFICATION 04A State: <u>Colorado</u> 1/10/2024 County: <u>Mesa</u>	t Permit Action: <u>Rev2</u> Permit/Joh DENTIFICATION 04A State: <u>Colorado</u> Abbreviation: 1/10/2024 <u>Mesa</u> Filename:

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.50	\$99.34
			Total Fertilizer Materials	
			Cost/Acre	\$99.34

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
Alfalfa - Common	12.00	57.85	\$30.60
Indian Ricegrass - Paloma	3.00	9.71	\$33.38
Sand Dropseed	0.25	29.84	\$2.44
Sideoats Grama - Butte	0.75	2.46	\$6.75
Hard Fescue - Discovery	5.00	64.85	\$14.63
Galleta	5.00	18.25	\$111.75
Western Wheatgrass - Arriba	7.50	18.94	\$48.75
Needle and Thread	0.25	0.66	\$10.46
Timothy, Alpine - Native	2.00	59.69	\$48.50
Totals Seed Mix	35.75	262.26	\$307.25

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$863.58

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$284.85

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 1	Nursery Stoc	k Cost / Acre	\$0.00

	No. of Acres:	8.9	Cost	t /Acre:	\$1,941.66	
Estimate	ed Failure Rate:	30%	Cost	Acre*:	\$1,800.50	
*Selected Replanti	ng Work Items:	TILLING,SEEDI	NG,MULCHING			
Initial Job Cost:	\$17,280.77					
Reseeding Job Cost:	\$4,807.34					
Total Job Cost:	\$22,088					
Job Hours:	12.00					

REVEGETATION WORK

Tas	sk descripti	ion:	Reveg with "Type B	" seed mix		
Site: <u>N</u>	Moores Pi	t	Permit	Action: <u>Rev2</u>	Permit/Jol	o#: <u>M1980178</u>
		DENTIFIC			411	N
		05A 1/10/2024		olorado esa	Abbreviation: Filename:	<u>None</u> M178-05a
	User:		County	-5 u		000u

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.50	\$99.34
			Total Fertilizer Materials	
			Cost/Acre	\$99.34

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
Arrowleaf Balsamroot	0.25	0.31	\$17.55
Indian Ricegrass - Paloma	1.00	3.24	\$11.13
Bitterbrush, Antelope	0.12	0.04	\$2.34
Galleta	2.00	7.30	\$44.70
Sage, Fringed	0.06	5.01	\$2.46
Saltbush, Gardner	2.00	5.10	\$22.75
Globemallow, Scarlet (or copper)	0.50	5.66	\$67.75
Timothy - Climax	2.00	57.39	\$3.20
Yarrow, Western	0.12	7.30	\$5.02
Totals Seed Mix	8.05	91.35	\$176.89

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$863.58

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$284.85

NURSERY STOCK PLANTING

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

	No. of Acres:	10.3	Cost /A	cre:	\$1,811.30	
Estimate	ed Failure Rate:	30%	Cost /Ac	re*:	\$1,670.14	
*Selected Replanti	ng Work Items:	TILLING,SEEDIN	IG,MULCHING			
Initial Job Cost: Reseeding Job Cost:	\$5,160.73			-		
Total Job Cost:	\$23,817					
Job Hours:	14.00					

DEMOLITION WORK

Task description	on: Demo	on site features				
Site: Moores Pit	ite: Moores Pit Permit Action: Rev2			Permit/Job#: <u>M1980178</u>		
PROJECT IDENTI	FICATION					
Task #: 06A Date: 1/10/2024 User: ACY Agency		tate: <u>Colorado</u> unty: <u>Mesa</u> ne: <u>DRMS</u>		Abbreviat Filena		
<u>UNIT COSTS</u>				Location	adjustment	<u>: 89.80 %</u>
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale house	10' x25' x 8'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 200 ft. push	2,000.00	CF	\$0.22	\$432.80
				т	atal Cast	

				Total Cost		
		Subtotal		(adjusted for		
Job Hours:	4.00	(unadjusted):	\$432.80	location):	\$388.65	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

-	Init	ial mobilization o					
Moores Pit		Permit	Action: <u>Rev2</u>			Permit/Job#: <u>M</u>	1980178
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: $07A$ Date: $1/10$ User: AC	0/2024		lorado esa			eviation: <u>None</u> ilename: <u>M178</u>	-07a
		n name: DRMS					
EQUIPMENT T	RANSPOR	<u>T RIG COST</u>					
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TRU		rce: <u>CRG Da</u> DR, 6X4, DIESEL	ta
Truc	k Trailer Desc	ription: G		NG GOC		ROP DECK EQU	IPMENT
			- -	FRAILER	(25T, 50T, A)	ND 100T)	
Cost Breakdown:		0-25 Tons				ND 100T)	
Cost Breakdown: Available Rig Ca	apacities	0-25 Tons \$20.26	26-50 Tons	51+	- Tons	ND 100T)	
Cost Breakdown: Available Rig Ca Ownership		0-25 Tons \$20.26 \$39.51		51 +		ND 100T)	
Cost Breakdown: Available Rig Ca Ownership Operating	apacities Cost/Hour:	\$20.26	26-50 Tons \$36.04	51 +	Tons 47.05	ND 100T)	
<u>Cost Breakdown:</u> Available Rig Ca Ownership Operating Operator	apacities Cost/Hour: Cost/Hour:	\$20.26 \$39.51	26-50 Tons \$36.04 \$76.08	51 -1 \$2 \$8 \$2	+ Tons 47.05 32.85	ND 100T)	
<u>Cost Breakdown:</u> Available Rig Ca Ownership Operating Operator Helper	apacities Cost/Hour: Cost/Hour: Cost/Hour:	\$20.26 \$39.51 \$22.52	26-50 Tons \$36.04 \$76.08 \$22.52	51 -1 \$4 \$8 \$2 \$2 \$2	+ Tons 47.05 32.85 22.52	ND 100T)	
<u>Cost Breakdown:</u> Available Rig Ca Ownership Operating Operator Helper	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$20.26 \$39.51 \$22.52 \$0.00 \$82.29	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53	51 -1 \$4 \$8 \$2 \$2 \$2	Tons 47.05 32.85 22.52 23.53	ND 100T)	
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$20.26 \$39.51 \$22.52 \$0.00 \$82.29	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53	51 -1 \$4 \$8 \$2 \$2 \$2	Tons 47.05 32.85 22.52 23.53	ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat D8T - 8SU	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit (TONS) 47.71	\$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$241.38	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$158.17	51- \$2 \$8 \$2 \$2 \$1 Fleet	+ Tons 47.05 32.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet \$799.10	Return Trip Cost/hr/ fleet \$316.34	Cost/ fleet \$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: Cost/Hour: LE EQUIPM Weight/ Unit (TONS)	\$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t	51+ \$2 \$2 \$2 \$2 \$1 Fleet Size	+ Tons 47.05 32.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	Cost/ fleet
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat D8T - 8SU Drill/Broadcast Seeder with	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit (TONS) 47.71	\$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$241.38	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$158.17	51+ \$2 \$2 \$2 \$2 \$1 Fleet Size 2	+ Tons 47.05 32.85 22.52 23.53 75.95 Haul Trip Cost/hr/ fleet \$799.10	Return Trip Cost/hr/ fleet \$316.34	\$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.	\$83.90	1	\$83.90	\$83.90
Crew				
Light Duty Pickup, 4x4, 3/4 T.	\$88.63	1	\$88.63	\$88.63
Flatbed Truck, 4x2, 30K GVW	\$92.68	1	\$92.68	\$92.68
		Subtotals:	\$265.21	\$265.21

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	50.00	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost *	\$6,447.24	_
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$530.42	

Transportation Cycle Time:

Non-	
Roadable	Roadable
Equipment	Equipment
1.00	1.00
1.00	1.00
0.50	NA
0.50	NA
3.00	2.00
	Roadable Equipment 1.00 0.50 0.50

JOB TIME AND COST

Total job time:	6.00	Hours
Total job cost:	\$6,978	_

CIRCES Cost Estimating Software

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task desc	cription:	Sec	condary mobilizat	tion of equipm	ent			
: <u>Moore</u>	es Pit		Permit	Action: <u>Rev2</u>			Permit/Job#: <u>N</u>	11980178
PROJEC	<u>T IDEN</u>	TIFICAT	<u>ION</u>					
Task #	#: 07B		State: Co	olorado		Abbre	eviation: Non	9
Date		/2024	County: M	esa		Fi	ilename: M17	8-07b
User	r: ACY	7						
A	Agency or	organizatio	n name: DRMS					
EQUIPM	IENT TI	RANSPOR	T RIG COST					
						Shift ba Cost Data Sou		
	Truck '	Tractor Desc	cription: GENE	RIC ON-HIGH		UCK TRACTO P (2ND HALF,	DR, 6X4, DIESE 2006)	L POWERED,
	Truck	Trailer Desc	cription: G	ENERIC FOLI			ROP DECK EQU	JIPMENT
			1 			(25T, 50T, AN		
Cost Break	<u>down:</u>							
Availabl	e Rig Ca	pacities	0-25 Tons	26-50 Tons	51	+ Tons		
		Cost/Hour:	\$20.26	\$36.04		47.05		
		Cost/Hour:	\$39.51	\$76.08		82.85		
(Cost/Hour:	\$22.52	\$22.52		22.52		
		Cost/Hour:	\$0.00	\$23.53		23.53		
Тс	otal Unit (Cost/Hour:	\$82.29	\$158.17	\$1	175.95		
NON RO	ADABL	E EQUIP	MENT:					
Machine		Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Descripti		Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
			COSUM/ unit		SIZC			
Descripti	1011			t		fleet		
Drill/Broa Seeder wit Tractor	adcast	(TONS) 25.00	\$6.73	t \$82.29	1	\$89.02	\$82.29	\$250.00

Subtotals: **\$197.25 \$164.58 \$500.00**

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	\$83.90	2	\$167.80	\$167.80
		Subtotals:	\$167.80	\$167.80

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	50.00	miles
Average Travel Speed:	50.00	mph
Total Non-Roadable Mob/Demob Cost *	\$2,118.16 \$335.60	_

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.00	1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.00	2.00

JOB TIME AND COST

Total job time:	6.00	Hours
Total job cost:	\$2,454	_

CIRCES Cost Estimating Software