June 11, 2018

Leon Moores Mores Mining, LLC 32906 Highway 141 Gateway, CO 81522



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

1313 Sherman Street, Room 215 Denver, CO 80203

RE: Moores Pit, Permit No. M-1980-178, Reclamation Costs Update and Notice of Surety Increase (SI-4)

Dear Mr. Moores:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed).

Division calculations estimate the cost to reclaim the above referenced site to be <u>\$91,850.61</u> rounded down to <u>\$91,850.00</u> this is an increase of <u>\$25,615</u> over the <u>\$66,235</u> currently held by the Division. This estimate is based on conditions observed during the May 31, 2018 inspection. Please note that this site has not had an increase since the approval of CN-1 in 2010. *Therefore, pursuant to Section 34–32.5– 117(4) of the Colorado Land Reclamation Act, adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter.* The additional amount needs to be accepted prior to Friday, August 10, 2018. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Barbara Coria.

If you require additional information, or have questions or concerns, please feel free to contact me. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 970-254-8511 or via email at amy.yeldell@ state.co.us

Sincerely,

Amy Geldell

Amy Yeldell Environmental Protection Specialist

Ec: Wally Erickson, Senior EPS, Grand Junction DRMS Jennifer Maiolo, BLM Little Snake Field Office

Enc: Financial Warranty Cost Estimate



COST SUMMARY WORK

Г	Task descrip	otion:	Post inspection u	ıpdate				
Site:	Moores I	Pit	Pe	rmit Action:	2018-05	Permit/Jol	o#: <u>M1980178</u>	
<u>P</u>]		<u>IDENTIFIC</u> ACY	CATION State:	Colorado		Abbreviation:	None	
	Date: User:		County:	Mesa		Filename:	M178-acy	
	Age	ency or organi	zation name: DF	RMS				

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
1 45K	Description	Used	Size	Hours	Cost
01a	reduce 50'H x 350'L highwall	DOZER	1	58.97	\$11,234.00
02a	backfill and sloping in Phase 1	DOZER	1	67.81	\$12,918.00
03a	Replace 6" of fines as growth medium over 18 ac	DOZER	1	50.96	\$9,708.00
04a	Reveg approx. 8 acres with "Type A" seed mix	REVEGE	1	16.00	\$17,479.00
05a	Reveg approx. 10 acres with "Type B" seed mix	REVEGE	1	20.00	\$19,590.00
06a	Initial mobilization of equipment	MOBILIZE	1	6.00	\$3,778.00
07a	Secondary mobilization of equipment	MOBILIZE	1	6.00	\$2,237.00
		<u>SUBTC</u>	DTALS:	225.74	\$76,944

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$1,554.27
Performance bond:	1.05	Total =	\$807.91
Job superintendent:	0.00	Total =	\$0.00
Profit:	10.00	Total =	\$7,694.40
		TOTAL O & P =	\$10,056.58
		CONTRACT AMOUNT (direct + $O \& P$) =	\$87,000.58

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	500.00	Total =	500.00
Engineering work and/or contract/bid preparation:	0.00	Total =	\$0.00
Reclamation management and/or administration:	5.00		\$4,350.03
-			
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL IN	DIRECT COST =	\$14,906.61
TOTAL BO	ND AMOUNT (d	irect + indirect) =	\$91,850.61
TOTAL BOND AM	OLINIT (D	- (bobau	\$01 850 00
I UIAL DUND ANI		unueu) =	φ 71,030.00

BULLDOZER WORK

Task description:	Keu	uce 30 11 x 3.	50'L highwa	111		
: Moores Pit		Perm	nit Action:	2018-05	Permit/Job#:	M1980178
PROJECT IDEN	TIFICATI	ON				
Task #: 01A		State:	Colorado		Abbreviation:	None
Date: $6/8/20$	18	County:	Mesa		Filename:	M178-01a
User: ACY		· ·			-	
Agency or	organization	name: DR	MS			
HOURLY EQUI	PMENT C	OST				
Basic Machine:	Cat D8T -					
Horsepower:	310					
Blade Type:	Semi-Univ	ersal				
Attachment:	NA					
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:			1			
			\$03.01	<u>Utilization %</u>		
Ownership Cost/He			\$83.81	NA		
Operating Cost/He			\$66.17	100 NA		
Ripper own. Cost/He Ripper op. Cost/He			\$0.00 \$0.00	<u>NA</u> 0		
			\$40.52			
Operator Cost/He	our:		\$40.32	NA		
MATERIAL QU						
Initial Volume: Swell factor:	16,052 1.430	_				
		7				
Swell factor: Loose volume: Source of estimated	1.430 22,954 LCY volume:	Max high	 wal dimensio	ons		
Swell factor: Loose volume:	1.430 22,954 LCY volume:	Max high		ons		
Swell factor: Loose volume: Source of estimated Source of estimated	1.430 22,954 LCY volume: swell factor:	Max high		ons		
Swell factor: Loose volume: Source of estimated Source of estimated	1.430 22,954 LCY volume: swell factor: UCTION	Max high Cat Handl		ons		
Swell factor: Loose volume: Source of estimated Source of estimated <u>HOURLY PROD</u> Average push distan	1.430 22,954 LCY volume: swell factor: <u>UCTION</u> ce:	Max high Cat Handl	book	ons		
Swell factor: Loose volume: Source of estimated Source of estimated	1.430 22,954 LCY volume: swell factor: <u>UCTION</u> ce:	Max high Cat Handl	book	ons		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan	1.430 22,954 LCY volume: swell factor: UCTION ce: roduction:	Max high Cat Handl 75 feet 1,017.1 LCY	book Z/hr	ons mbankment 0.9		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p	1.430 22,954 LCY volume: swell factor: UCTION ce: roduction: y description ent: -10 %	<u>Max high</u> Cat Handl 75 feet 1,017.1 LCY	book Z/hr			
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistenc Average push gradie	1.430 22,954 LCY volume: swell factor: UCTION ce: roduction: y description ent: -10 % :: 6,100	<u>Max high</u> Cat Handl 75 feet 1,017.1 LCY	book Z/hr			
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistenc Average push gradie Average site altitude	1.430 22,954 LCY volume: swell factor: UCTION ce: roduction: y description ent: -10 % 6,100 3,300	<u>Max high</u> <u>Cat Handl</u> 75 feet 1,017.1 LCY a: <u>Compac</u> 6) feet	book //hr 	mbankment 0.9		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistenc Average push gradie Average site altitude Material weight:	1.430 22,954 LCY volume: swell factor: UCTION ce: roduction: y description ent: -10 % 6,100	Max high Cat Handl 75 feet 1,017.1 LCY a: Compace b) feet 0 lbs/LCY mposed rock	book //hr 	mbankment 0.9		
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre Oper	1.430 22,954 LCY volume: swell factor: UCTION ce: roduction: y description ent: -10 % 6,100 3,300 Deco ction Factor ator Skill:	Max high Cat Handl 75 feet 1,017.1 LCY a: Compace b feet) lbs/LCY mposed rock 0.7	2000k 7/hr 2000 fill or en 2000 fill or en 200			
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistenc Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre Oper Material co	1.430 22,954 LCY volume: swell factor: UCTION ce: roduction: y description ent: -10 % 6,100 3,300 Deco ction Factor ator Skill: nsistency:	<u>Max high</u> <u>Cat Handl</u> 75 feet 1,017.1 LCY a: <u>Compac</u> 6 0 feet 0 lbs/LCY mposed rock 0.7 0.7	200k 7/hr 			
Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistenc Average push gradie Average site altitude Material weight: Weight description: Job Condition Corre Oper Material co Dozin	1.430 22,954 LCY volume: swell factor: UCTION ce: roduction: y description ent: -10 % 6,100 3,300 Deco ction Factor ator Skill:	<u>Max high</u> Cat Handl 75 feet 1,017.1 LCY a: <u>Compac</u> b) feet 0 lbs/LCY mposed rock 0.7 0.7 0.7	2000k 7/hr 2000 fill or en 2000 fill or en 200			

cy: 0.830	(1 SHIFT/DAY)
ile: 0.800	(FND-RF)
ent: 1.225	(CAT HB)
de: 1.000	(CAT HB)
ht: 0.697	(CAT HB)
pe: 1.000	(PAT)
on: 0.3827	
389.24 LCY/hr	
389.24 LCY/hr	
	ile: 0.800 int: 1.225 de: 1.000 ht: 0.697 pe: 1.000 on: 0.3827

Fleet size:	1 Dozer(s)
Unit cost:	\$0.489/LCY

Total job time:	58.97 Hours
Total job cost:	\$11,234

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BULLDOZER WORK

Task description:	Datki	ll and sloping in Phase	e 1		
: Moores Pit		Permit Action:	2018-05	Permit/Job#:	M1980178
PROJECT IDEN	TIFICATIO	N			
Task #: 02A		State: Colorado		Abbreviation:	None
Date: $6/8/20$	18	County: Mesa		Filename:	M178-02a
User: ACY		J			
Agency or	organization n	ame: DRMS			
HOURLY EQUI	PMENT COS	<u>ST</u>			
Basic Machine:	Cat D8T - 8S	U			
Horsepower:	310				
Blade Type:	Semi-Univer	sal			
Attachment:	NA				
Shift Basis:	1 per day				
Data Source:	(CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Ho		\$83.81	NA		
Operating Cost/Ho		\$66.17	100		
Ripper own. Cost/He		\$0.00	NA		
Ripper op. Cost/Ho	-	\$0.00	0		
Operator Cost/He	our:	\$40.52	NA		
MATERIAL QUA Initial Volume:					
Initial Volume:	18,415 1.215				
Initial Volume:	18,415				
Initial Volume:	18,415 1.215 22,374 LCY	CN-1 Cost Estimate			
Initial Volume:	18,415 1.215 22,374 LCY volume:	CN-1 Cost Estimate Cat Handbook			
Initial Volume:	18,415 1.215 22,374 LCY volume: swell factor:				
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	18,415 1.215 22,374 LCY volume: swell factor: UCTION	Cat Handbook			
Initial Volume:	18,415 1.215 22,374 LCY volume: swell factor: <u>UCTION</u> ce:				
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant	18,415 1.215 22,374 LCY volume: swell factor: UCTION ce: 1 roduction: 8	Cat Handbook 00 feet	 		
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant Unadjusted hourly pr	18,415 1.215 22,374 LCY volume: swell factor: UCTION ce: 1 roduction: 8 y description: ent: -5 %	Cat Handbook 100 feet 352.6 LCY/hr Consolidated stock	 pile 1.0		
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant Unadjusted hourly p Materials consistenc	18,415 1.215 22,374 LCY volume: swell factor: UCTION ce: 1 roduction: 8 y description: ent: -5 %	Cat Handbook 100 feet 352.6 LCY/hr Consolidated stock	 bile 1.0		
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant Unadjusted hourly p Materials consistenc Average push gradie	18,415 1.215 22,374 LCY volume: swell factor: UCTION ce: 1 roduction: 8 y description: ent: -5 %	Cat Handbook Cat Handbook Cat Handbook Consolidated stock Consolidated stock	 pile 1.0		
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Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant Unadjusted hourly p Materials consistenc Average push gradie Average site altitude Material weight: Weight description: Job Condition Correc Oper	18,415 1.215 22,374 LCY volume: swell factor: UCTION ce: 1 roduction: 8 y description: ent: -5 % 3,300 II Decom ction Factor ator Skill:	Cat Handbook Cat Handbook Cat Handbook Consolidated stock Consolidated stock ceet cos/LCY posed rock - 75% Rock 0.750	, 25% Earth		
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant Unadjusted hourly p Materials consistenc Average push gradie Average site altitude Material weight: Weight description: Job Condition Correc Oper Material co	18,415 1.215 22,374 LCY volume: swell factor: UCTION ce: 1 roduction: 8 y description: ent: -5 % 3,300 II Decom ction Factor ator Skill: nsistency:	Cat Handbook Cat Handbook Cat Handbook Consolidated stock Consolidated	, 25% Earth <u>Source</u> (AVG.) (CAT HB)		
Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distant Unadjusted hourly p Materials consistenc Average push gradie Average site altitude Material weight: Weight description: Job Condition Corree Oper Material co Dozin	18,415 1.215 22,374 LCY volume: swell factor: UCTION ce: 1 roduction: 8 y description: ent: -5 % 3,300 II Decom ction Factor ator Skill:	Cat Handbook Cat Handbook Cat Handbook Consolidated stock Consolidated stock ceet cos/LCY posed rock - 75% Rock 0.750	, 25% Earth <u>Source</u> (AVG.)		

Job efficienc	y:	0.830	(1 SHIFT/DAY)
Spoil pi	e:	0.800	(FND-RF)
Push gradier	nt:	1.115	(CAT HB)
Altitud	e:	1.000	(CAT HB)
Material Weigl	nt:	0.697	(CAT HB)
Blade typ	e:	1.000	(PAT)
Net correctio	n: 0.38	70	
Adjusted unit production:	329.96 L	CY/hr	
Adjusted fleet production:	329.96 L	CY/hr	
=			

Fleet size:	1 Dozer(s)
Unit cost:	\$0.577/LCY

Total job time:	67.81 Hours
Total job cost:	\$12,918

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BULLDOZER WORK

Task description:	A		n medium over 18 ac		
Moores Pit	Perr	nit Action:	2018-05	Permit/Job#:	M1980178
PROJECT IDENTIFI	ICATION				
Task #: 03A Date: 6/8/2018 User: ACY	State: County:	Colorado Mesa		Abbreviation: Filename:	None M178-03a
Agency or organ	nization name: DR	MS			
HOURLY EQUIPME	<u>ENT COST</u>				
	D8T - 8SU				
Horsepower: 310					
• • • • • • • • • • • • • • • • • • • •	ni-Universal				
Attachment: NA Shift Basis: 1 pe					
	er day				
Data Source: (CR	(U)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$83.81	NA		
Operating Cost/Hour:		\$66.17	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$40.52	NA		
	\$190.50 TTIES				
Total Fleet Cost/Hour: <u>MATERIAL QUANT</u> Initial Volume: <u>16,00</u> Swell factor: <u>1.000</u>	<u>ITIES</u> 00 0				
MATERIAL QUANT Initial Volume: 16,00 Swell factor: 1.000	<u>ITIES</u> 00				
MATERIAL QUANTInitial Volume:16,00Swell factor:1.000Loose volume:16,00	TTIES 00 0 00 LCY				
MATERIAL QUANT Initial Volume: 16,00 Swell factor: 1.000 Loose volume: 16,00 Source of estimated volume	TTIES 00 0 00 LCY ne: 6" over 15				
MATERIAL QUANTInitial Volume:16,00Swell factor:1.000Loose volume:16,00	TTIES 00 0 00 LCY ne: 6" over 15				
MATERIAL QUANT Initial Volume: 16,00 Swell factor: 1.000 Loose volume: 16,00 Source of estimated volur Source of estimated swell	OD OD 00 00 00 LCY 00 LCY ne: 6" over 11 factor: Cat Hand				
MATERIAL QUANT Initial Volume: 16,00 Swell factor: 1.000 Loose volume: 16,00 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT	TTIES 00 0 00 LCY ne: 6" over 18 1 factor: Cat Hand CION				
MATERIAL QUANT Initial Volume: 16,00 Swell factor: 1.000 Loose volume: 16,00 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance:	TTIES 00 0 00 LCY ne: 6" over 13 factor: Cat Hand CION 200 feet	book			
MATERIAL QUANT Initial Volume: 16,00 Swell factor: 1.000 Loose volume: 16,00 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT	TTIES 00 0 00 LCY ne: 6" over 13 factor: Cat Hand CION 200 feet	book			
MATERIAL QUANT Initial Volume: 16,00 Swell factor: 1.000 Loose volume: 16,00 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance:	TTIES 00 0 00 LCY ne: 6" over 18 factor: Cat Hand TION 200 feet ction: 491.9 LCY/	book			
MATERIAL QUANT Initial Volume: 16,00 Swell factor: 1.000 Loose volume: 16,00 Source of estimated volur 16,00 Source of estimated volur swell HOURLY PRODUCT Average push distance: Unadjusted hourly product 1000	TTIES 00 0 00 LCY ne: 6" over 18 factor: Cat Hand TION 200 feet ction: 491.9 LCY/	book hr			
MATERIAL QUANT Initial Volume: 16,00 Swell factor: 1.000 Loose volume: 16,00 Source of estimated volur 300 Source of estimated volur 300 Source of estimated swell 400 HOURLY PRODUCT 400 Average push distance: 1000 Unadjusted hourly product 400 Materials consistency des 400 Average push gradient: 400	200 00 00 00 00 00 00 00 00 00 00 00 00 00 00 1 factor: 6" over 18 Cat Hand CION 200 feet ction: 200 feet 491.9 LCY/ cription: Loose s -5 %	book hr			
MATERIAL QUANT Initial Volume: 16,00 Swell factor: 1.000 Loose volume: 16,00 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	TTIES 00 0 00 LCY ne: 6" over 18 1 factor: Cat Hand CION ction: 200 feet ction: 491.9 LCY/ cription: Loose s -5 % 6,100 feet	book hr			
MATERIAL QUANT Initial Volume: 16,00 Swell factor: 1.000 Loose volume: 16,00 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight:	200 00 00 00 00 00 00 00 00 1 factor:	book hr			
MATERIAL QUANT Initial Volume: 16,00 Swell factor: 1.000 Loose volume: 16,00 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	TTIES 00 00 00 00 00 00 00 00 01 02 00 00 00 1 factor: $Cat Hand CION ction: 200 feet 491.9 LCY/ cription: Loose s -5 \% 6,100 feet 2,400 lbs/LCY Sand - Dry, loose Factor Skill: 0. $	hr hr tockpile 1.2	(AVG.)		
MATERIAL QUANT Initial Volume: 16,00 Swell factor: 1.000 Loose volume: 16,00 Source of estimated volur Source of estimated volur Source of estimated swell MOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistence	200 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 100 100 100 100 100 100 11 11	book hr tockpile 1.2	(AVG.) (CAT HB)		
MATERIAL QUANT Initial Volume: 16,00 Swell factor: 1.000 Loose volume: 16,00 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	TTIES 00 0 00 LCY ne: 6" over 18 1 factor: Cat Hand FION ction: 200 feet ction: 491.9 LCY/ cription: Loose s -5% 6,100 feet 2,400 lbs/LCY Sand - Dry, loose Factor Skill: 0. ency: 1. thod: 1.	hr hr tockpile 1.2	(AVG.)		

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:	0.958	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.6383	
Adjusted unit production: 31	3.98 LCY/hr	
Adjusted fleet production: 31	13.98 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.607/LCY
Total ich time	50 06 Hours

l'otal job time:	50.96 Hours
Total job cost:	\$9,708

REVEGETATION WORK

Task descrij	ption:	Reveg approx. 8 acres with	"Type A" seed m	ix	
Site: Moores I	Pit	Permit Action:	2018-05	Permit/Jol	o#: <u>M1980178</u>
PROJECT Task #:	IDENTIFIC	ATION State: Colorado		Abbreviation:	None
Date: User:	6/8/2018 ACY	County: Mesa		Filename:	M178-04a
Ag	ency or organiz	zation name: DRMS			

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.34	\$68.00
			Total Fertilizer Materials	
			Cost/Acre	\$68.00

Application

Description	Cost /Acre
Push rotary spreader (MEANS 32 01 90.13 0110)	\$181.65
Total Fertilizer Application Cost/Acre	\$181.65

TILLING

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alfalfa - Common	12.00	57.85	\$30.60
Indian Ricegrass - Paloma	3.00	9.71	\$29.25
Sand Dropseed	0.25	29.84	\$2.71
Sideoats Grama - Butte	0.75	2.46	\$7.25
Hard Fescue - Discovery	5.00	64.85	\$18.55
Galleta	5.00	18.25	\$123.50
Western Wheatgrass - Arriba	7.50	18.94	\$60.60
Needle and Thread	0.25	0.66	\$10.38
Timothy, Alpine - Native	2.00	59.69	\$48.34
Totals Seed Mix	35.75	262.26	\$331.18

Application

Description Drill Seeding (DRMS Survey Cost)		Cost /Acre \$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	\$2.74	\$2.74
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$261.00	\$522.00
Total Mulch Materials Cost/Acre				\$524.74

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$66.02
Power mulcher (MEANS 32 91 13.16 0350)		\$99.32
Weed spray, truck, non-aquatic area, nox. [DMG]		\$71.50
	Total Mulch Application Cost/Acre	\$236.84

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

Estimate	No. of Acres: ed Failure Rate:	8 30%	Cost /Acre: Cost /Acre*:	\$1,680.70 \$1,680.70	
		FERTILIZING,TII	LLING,SEEDING,MU	φ1,000.70	
		LCHING			
Initial Job Cost:	\$13,445.60				
Reseeding Job Cost:	\$4,033.68				
Total Job Cost:	\$17,479				
Job Hours:	16.00				

REVEGETATION WORK

Task descrip	otion:	Reveg approx. 10 act	res with "Type B" seed	mix	
Site: Moores H	Pit	Permit A	Action: 2018-05	Permit/Job	o#: M1980178
PROJECT Task #:	IDENTIFIC		lorado	Abbreviation:	None
Date: User:	6/8/2018 ACY	County: Me		Filename:	M178-05a
Age	ency or organiz	zation name: DRMS			

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.34	\$68.00
			Total Fertilizer Materials	
			Cost/Acre	\$68.00

Application

Description	Cost /Acre
Push rotary spreader (MEANS 32 01 90.13 0110)	\$181.65
Total Fertilizer Application Cost/Acre	\$181.65

TILLING

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.25	0.31	\$17.55
Indian Ricegrass - Paloma	1.00	3.24	\$9.75
Bitterbrush, Antelope	0.12	0.04	\$2.34
Galleta	2.00	7.30	\$49.40
Sage, Fringed	0.06	5.01	\$2.46
Globemallow, Scarlet (or copper)	0.50	5.66	\$67.75
Timothy - Climax	2.00	57.39	\$3.14
Yarrow, Western	0.12	7.30	\$5.02
Totals Seed Mix	6.05	86.25	\$157.41

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
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.74	\$2.74
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$261.00	\$522.00
Total Mulch Materials Cost/Acre				\$524.74

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$66.02
Power mulcher (MEANS 32 91 13.16 0350)		\$99.32
Weed spray, truck, non-aquatic area, nox. [DMG]		\$71.50
	Total Mulch Application Cost/Acre	\$236.84

NURSERY STOCK PLANTING

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

	No. of Acres:	10	Cost /Acre:	\$1,506.93
Estimate	ed Failure Rate:	30%	Cost /Acre*:	\$1,506.93
*Selected Replanti	ng Work Items:	FERTILIZING,TIL	LING,SEEDING,MU	
	-	LCHING		
Initial Job Cost:	\$15,069.30			
Reseeding Job Cost:	\$4,520.79			
Total Job Cost:	\$19,590			
Job Hours:	20.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Moores Pit			of equipment				
		Permit	Action: 2018	3-05]	Permit/Job#: M	1980178
PROJECT IDEN	NTIFICATI	<u>ON</u>					
Task #: 06A	L L	State: Co	olorado		Abbre	eviation: None	;
Date: 6/8/ User: AC	2018 Y	County: M	esa		Fi	ilename: M178	8-06a
Agency c	or organization	name: DRMS					
EQUIPMENT T	<u>'RANSPOR'</u>	<u>T RIG COST</u>					
					Shift ba	1	
				(Cost Data Sour	rce: CRG Da	ata
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH	IWAY TRU	UCK TRACTO	OR, 6X4, DIESEI	L POWERED,
					(2ND HALF,		
Truck	c Trailer Descr	ription: G				ROP DECK EQU	IPMENT
				TRAILER	(25T, 50T, AN	ND 100T)	
Cost Breakdown:							
	nacitica	0-25 Tons	26-50 Tons	51	Tons		
Available Rig Ca	Cost/Hour:	\$16.63	\$18.37		2.33		
	Cost/Hour:	\$44.38	\$46.13		50.07		
	Cost/Hour:	\$27.66	\$27.66		27.66		
	Cost/Hour:	\$0.00	\$25.39		25.39		
	Cost/Hour:	\$88.67	\$117.55		25.45		
10000 0100	Cost Hour	<i>QCCIC</i> ,	<i><i><i>q</i>11100</i></i>	ψı			
NON ROADAB		/FNT.					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D8T - 8SU	47.71	\$83.81	\$117.55	1	\$201.36	\$117.55	\$250.00
	25.00	\$12.22	\$88.67	1	\$100.89	\$88.67	\$250.00
Drill/Broadcast		1					
Seeder with							
Seeder with Tractor	6.00	\$7.02	000 67	1	#05.70	400 (7	#250.00
Seeder with	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$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	\$47.96	1	\$47.96	\$47.96
		Subtotals:	\$47.96	\$47.96

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 *	\$3,681.58 \$95.92	_

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

Total job time:	6.00	Hours
Total job cost:	\$3,778	-

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Sec	ondary mobilizat	ion of equipme	nt			
e: Moores Pit		Permit	Action: _2018-	05	1	Permit/Job#:	M1980178
PROJECT IDE	NTIFICATI	ON					
Task #: 074	A	State: Co	lorado		Abbre	eviation: No	one
	/2018	County: Me					178-07a
User: AC	Y	•					
Agency of	or organization	n name: DRMS					
EQUIPMENT 1	RANSPOR	<u>T RIG COST</u>					
					Shift ba	sis: 1 per	dav
				(Cost Data Sour	I	
	Tractor Desc			400 HP	(2ND HALF,	2006)	EL POWERED,
Truc	k Trailer Desc	ription: G	ENERIC FOLD				QUIPMENT
]	RAILER	(25T, 50T, AN	ND 100T)	
Cost Breakdown:							
Available Rig C	anacities	0-25 Tons	26-50 Tons	51-	+ Tons		
	Cost/Hour:	\$16.63	\$18.37		22.33		
	Cost/Hour:	\$44.38	\$46.13		50.07		
Operator	Cost/Hour:	\$27.66	\$27.66	\$2	27.66		
	Cost/Hour:	\$0.00	\$25.39	\$2	25.39		
Total Unit	Cost/Hour:	\$88.67	\$117.55	\$1	25.45		
NON ROADAB	LE EQUIPN	<u>MENT:</u>					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ flee	
r	(TONS)		t		fleet		
Drill/Broadcast Seeder with Tractor	25.00	\$12.22	\$88.67	1	\$100.89	\$88.67	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00

Subtotals: **\$196.59 \$177.34 \$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	\$47.96	1	\$47.96	\$47.96
		Subtotals:	\$47.96	\$47.96

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 *	\$2,141.04	_
** one round trip, no haul rig:	\$95.92	

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

Total job time:	6.00	Hours
Total job cost:	\$2,237	_