

April 10, 2023

Jason Burkey Oldcastle SW Group, Inc. dba United Companies of Mesa County 2273 River Road Grand Junction, CO 81502

### Re: Otter Creek Pit - File No. M-2012-050 Oldcastle SW Group, Inc. dba United Companies of Mesa County Surety Increase (SI-1) Surety Increase after inspection

Dear Jason Burkey:

On April 10, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$212,111.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$86,829.00.

Please see the March 29, 2023 inspection report for details regarding why this surety increase is required.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter (April 10, 2023).

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit after June 9, 2023, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$125,282.00
Prior Liability:	\$125,282.00
Change in Liability:	\$86,829.00
Revised Liability:	\$212,111.00
Prior Permit Acreage:	95.00



Change in Permit Acreage:	0.00
Revised Permit Acreage:	95.00
Prior Affected Acreage:	0.00
Change in Affected Acreage:	0.00
Revised Affected Acreage:	0.00

If you have any questions, please contact me by telephone at (303) 866-3567 x 8183, or by email at Amy.yeldell@state.co.us.

Sincerely,

Amy Geldell

Amy C. Yeldell Environmental Protection Specialist

cc: Jason Burkey

M-GR-04

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		*internal seed cost have gone up significantly
08a	Reveg	No Change
09a	Mob	No Change
09b	Mob	No Change

Per policy I wanted to send this out for review prior to issuance. Please look it over and provide feedback and make corrections if/where necessary. If no feedback is provided by Friday, April 28, 2023 then I'll issued you have no objections SI-1 as calculated and the increase will be issued the following Monday.

Please feel free to contact me with any further questions.

Sincerely,

Amy Geldell

*Amy Yeldell* Environmental Protection Specialist

Enclosures- 2022 Mesa County Assessors website map with notes

## **DEMOLITION WORK**

Task description:	Equipment Removal				
Site: Otter Creek Pit	Site: Otter Creek Pit Permit Action: 2023			Permit/Job#:	M2012050
PROJECT IDENTIFICATIO	N				
Task #: 01A	State: Colorado		Abbrev	iation: None	
Date: 4/4/2023	County: Mesa		File	name: M050	-01a
User: ACY					
Agency or organiza	tion name: DRMS				
UNIT COSTS			Locati	on adjustment:	100.00 %
Structure or Item Description Dimensio	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Removal of Buried 15' x 60'	USER PROVIDED	1.00	1	\$3,500.00	\$3,500.00
Truck Scale	ITEM				

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	16.00	(unadjusted):	\$3,500.00	location):	\$3,500.00

### WHEEL LOADER - LOAD AND CARRY WORK

Task description:	Backfill	Perimeter Hig	hwall				
: Otter Creek Pit		Permit Act	tion: <u>2023</u>		Permit/Job#: <u>M2012050</u>		
PROJECT IDEN	<b>IFICATION</b>						
Task #: 02A		State: Colo	rado		Abbreviation:	None	
Date: $\frac{4}{4}/202$	3	County: Mesa			Filename:	M050-02a	
User: ACY		5					
Agency or c	organization nam	e: DRMS					
HOURLY EQUIP	MENT COST						
Basic Machine	e: CAT 980H	high lift		Horsepo	ower.	315	
Attachment		ingii int		Shift B	-	ber day	
				Data Sou	1	CRG)	
Cost Decoludorum							
Cost Breakdown:			Utilizatio	on %			
Ownership C	ost/Hour:	\$54.58	NA				
Operating C		\$53.14	100				
Operator C		\$35.97	NA				
Total Unit C	ost/Hour:	\$143.69	i				
Total Fleet C	Cost/Hour:	\$143.69					
MATERIAL QUA	NIIIES						
Initial volume: Loose volume:	5,352 5,967	CC		ell factor: <u>1.1</u>	15		
	rce of estimated		00 LF @ 17'H 2: Handbook	1 to 3:1 backfill			
Source	of estimated swel		папароок				
HOURLY PROD	UCTION						
Loader Cycle Time:	Unadjuste	ed Basic Cycle	Time (load, dum	p, maneuver):	0.550	minutes	
Cycle Time F					Factor (min.)	Source	
		al 3/4" to 6" dia			0.000	(Cat HB)	
			ed 10 ft. high or		0.010	(Cat HB)	
Truck Owne	1	1	of trucks and load	ters -0.04	-0.040	(Cat HB)	
•		nt operation -0.	.04		-0.040	(Cat HB)	
Dump T	arget:   Nomin	al target 0.00	-+ C1 T' +	1:	0.000	(Cat HB)	
			et Cycle Time A		-0.070	minutes	
		P	djusted Basic C	yele Time:	0.480	minutes	
Rolling Resistance -	Road Conditions	<u> </u>					
н	aul: Rutted di	rt little mainte	nance, no water,	2" tire penetrati	ion 5.0		
Ret			nance, no water,				
Haul and Return Tim		,	,, ,	F 100			
	Length	Grade Res.	Rolling	Total Res.	Travel Time	_	
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source	
Haul Route:	1300	0.00	5.00	5.00	1.1492	(Cat HB)	

5.00

5.00

Return Route:

1300

0.00

(Cat HB) (Cat HB)

1.0392

		-	otal Travel Tim Total Cycle Tim		minutes minutes
Load Bucket Capacity					
Rated Capacity: Bucket Fill Factor:		LCY (heaped) Loose materia		(90 - 95%) 0.925	
Adjusted Capacity:	6.94	LCY			
Job Condition Correction I Site Altitude: <u>4630</u> feet	Factors				
		Source			
Altitude Adj:	1.00	(CAT HB)			
Job Efficiency:	0.83	(1 shift/day)			
Net Correction:	0.83	multiplier	_		
	ljusted Hourly Unit		155.99	LCY/Hour	
Ad	Production:	129.47	LCY/Hour		
Ad	Production:	129.47	LCY/Hour		
JOB TIME AND COS	T				

Fleet size:	1	Loader(s)	Total job time:	46.09	Hours
Unit cost:	\$1.110	/LCY	Total job cost:	\$6,623	

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## BULLDOZER WORK

Task description:	Grad	e backfilled	perimeter s	lopes		
: Otter Creek Pit		Peri	mit Action:	2023	Permit/Job#:	M2012050
PROJECT IDEN	TIFICATIO	<u>DN</u>				
Task #: 03A Date: $\frac{4/4/20}{4CY}$ User: ACY		State: County:	Colorado Mesa		Abbreviation: Filename:	None M050-03a
Agency or	organization 1	name: DR	MS			
HOURLY EQUI	PMENT CO	ST				
Basic Machine:	Cat D9T - 9	SU		_		
Horsepower:	405			_		
Blade Type:	Semi-Unive			_		
Attachment: Shift Basis:	3-shank ripp	ber		_		
	$\frac{1 \text{ per day}}{(CPC)}$			_		
Data Source:	(CRG)			_		
Cost Breakdown:						
				Utilization %		
Ownership Cost/H	our:		\$146.30	NA		
Operating Cost/H			\$141.41	100		
Ripper own. Cost/H			\$17.01	NA		
Ripper op. Cost/H			\$8.85	100		
Operator Cost/H	-		\$40.04	NA		
Initial Volume:	5,967					
Swell factor: Loose volume:	1.000 <b>5,967</b> LCY					
Source of estimated Source of estimated		Transport Cat Hand	ed Volume f book	rom 02a		
HOURLY PROD	<b>UCTION</b>					
Average push distan Unadjusted hourly p		50 feet 2,110.5 LC	Y/hr			
Materials consistence	ey description:	Loose s	stockpile 1.2			
Average push gradic Average site altitude		feet				
Material weight:	2,500	lbs/LCY				
Weight description:	Clay -	Dry				
-						
Job Condition Corre	ection Factor	Δ	750	$\frac{\text{Source}}{(AVG)}$		
Ope	ection Factor rator Skill:		750	(AVG.)		
Oper Material co	ection Factor rator Skill: onsistency:	1.	200	(AVG.) (CAT HB)		
Oper Material co	ection Factor rator Skill: onsistency: ng method:	1.	200 000	(AVG.) (CAT HB) (GEN.)		
Ope: Material co Dozir	ection Factor rator Skill: onsistency:	1. 1. 1.	200	(AVG.) (CAT HB)		

0.900	(SSD-FC)
0.666	(CAT HB)
1.000	(CAT HB)
0.920	(CAT HB)
1.000	(PAT)
0.4119	
9.31 LCY/hr	
	0.666 1.000 0.920 1.000 0.4119

## JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.407/LCY

Adjusted fleet production: 869.31 LCY/hr

Total job time:	6.86 Hours
Total job cost:	\$2,427

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## BULLDOZER WORK

		slopes			
Otter Creek Pit	Pe	rmit Action:	2023	Permit/Job#:	M2012050
PROJECT IDEN	<b>TIFICATION</b>				
Task #: 03B	State:	Colorado		Abbreviation:	None
Date: 4/4/20	023 County:	Mesa		Filename:	M050-03b
User: ACY				-	
Agency or	organization name:	RMS			
HOURLY EQUI	PMENT COST				
Basic Machine:	Cat D9T - 9SU				
Horsepower:	405				
Blade Type:	Semi-Universal				
Attachment:	3-shank ripper				
Shift Basis:	1 per day				
Data Source:	(CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/H		\$146.30	NA		
Operating Cost/H		\$141.41	100		
Ripper own. Cost/H		\$17.01	NA		
Ripper op. Cost/H		\$8.85	100		
Operator Cost/H	lour:	\$40.04	NA		
MATERIAL QU					
Initial Volume:	2,676				
Initial Volume: Swell factor:	2,676 1.230				
Initial Volume: Swell factor: Loose volume:	2,676 1.230 <b>3,291</b> LCY				
Initial Volume: Swell factor: Loose volume: ource of estimated	2,676 1.230 <b>3,291</b> LCY volume: 1000 LF		H:1V @ 17'H		
Initial Volume: Swell factor: Loose volume:	2,676 1.230 <b>3,291</b> LCY volume: 1000 LF		H:1V @ 17'H		
Initial Volume: Swell factor: Loose volume: ource of estimated	2,676 1.230 <b>3,291</b> LCY volume: 1000 LF swell factor: Cat Han		H:1V @ 17'H		
Initial Volume: Swell factor: Loose volume: ource of estimated ource of estimated	2,676 1.230 <b>3,291</b> LCY volume: 1000 LF swell factor: Cat Han DUCTION		H:1V @ 17'H		
Initial Volume: Swell factor: Loose volume: ource of estimated ource of estimated HOURLY PROE	2,676 1.230 3,291 LCY volume: 1000 LF swell factor: Cat Han DUCTION nce: 50 feet	dbook	H:1V @ 17'H		
Initial Volume: Swell factor: Loose volume: ource of estimated ource of estimated	2,676 1.230 3,291 LCY volume: 1000 LF swell factor: Cat Han DUCTION nce: 50 feet	dbook	H:1V @ 17'H		
Initial Volume: Swell factor: Loose volume: ource of estimated ource of estimated HOURLY PROE	2,676 1.230 3,291 LCY volume: 1000 LF swell factor: Cat Han DUCTION nce: 50 feet production: 2,110.5 LC	dbook			
Initial Volume: Swell factor: Loose volume: ource of estimated ource of estimated <b>HOURLY PROD</b> Average push distar Jnadjusted hourly p	2,676         1.230         3,291 LCY         volume:       1000 LF         swell factor:       Cat Han         DUCTION         nce:       50 feet         production:       2,110.5 L0         cy description:       Conso	dbook CY/hr			
Initial Volume: Swell factor: Loose volume: ource of estimated ource of estimated <b>HOURLY PROD</b> Average push distar Jnadjusted hourly p Materials consistence	2,676 $1.230$ $3,291 LCY$ $volume: 1000 LF$ $swell factor: Cat Han$ $DUCTION$ $nce: 50 feet$ $2,110.5 LC$ $cy description: Consc ent: -15 %$	dbook CY/hr			
Initial Volume: Swell factor: Loose volume: ource of estimated ource of estimated <b>HOURLY PROD</b> Average push distar Jnadjusted hourly p	2,676 $1.230$ $3,291 LCY$ $volume: 1000 LF$ $swell factor: Cat Han$ $DUCTION$ $nce: 50 feet$ $2,110.5 LC$ $cy description: Consc ent: -15 %$	dbook CY/hr			
Initial Volume: Swell factor: Loose volume: ource of estimated ource of estimated <b>HOURLY PROD</b> Average push distar Jnadjusted hourly p Materials consistence	2,676 $1.230$ $3,291 LCY$ $volume: 1000 LF$ $swell factor: Cat Han$ $DUCTION$ $nce: 50 feet$ $2,110.5 LC$ $cy description: Consc ent: -15 %$	dbook CY/hr			
Initial Volume: Swell factor: Loose volume: cource of estimated ource of estimated <b>HOURLY PROD</b> Average push distar Inadjusted hourly p Materials consistence average push gradie	2,6761.230 $3,291 LCY$ volume:1000 LFswell factor:Cat HanDUCTIONnce:50 feetproduction:2,110.5 LCcy description:Consoent:-15 %e:4,630 feet2,500 lbs/LCY	dbook CY/hr			
Initial Volume: Swell factor: Loose volume: ource of estimated ource of estimated <b>HOURLY PROE</b> Average push distar Inadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Veight description: ob Condition Corre	2,6761.230 $3,291 LCY$ volume:1000 LFswell factor:Cat HanDUCTIONnce:50 feetproduction:2,110.5 LGcy description:Conscent:-15 %e:4,630 feet2,500 lbs/LCYClay - Dryection Factor	dbook CY/hr blidated stockj			
Initial Volume: Swell factor: Loose volume: ource of estimated ource of estimated <b>IOURLY PROD</b> Average push distar Inadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Veight description: <u>ob Condition Corre</u> Ope	2,676         1.230 <b>3,291</b> LCY         volume:       1000 LF         swell factor:       Cat Han <b>DUCTION</b> nce:       50 feet         production:       2,110.5 LC         cy description:       Conso         ent:       -15 %         e:       4,630 feet         2,500 lbs/LCY       Clay - Dry         ection Factor       rator Skill:	dbook CY/hr blidated stockj			
Initial Volume: Swell factor: Loose volume: ource of estimated ource of estimated <b>HOURLY PROD</b> Average push distar Inadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Veight description: <u>ob Condition Correc</u> Ope Material co	2,676         1.230         3,291 LCY         volume:       1000 LF         swell factor:       Cat Han         DUCTION         nce:       50 feet         production:       2,110.5 LC         cy description:       Conso         ent:       -15 %         e:       4,630 feet         2,500 lbs/LCY       Clay - Dry         ection Factor       rator Skill:         onsistency:       0	dbook CY/hr blidated stockj	 pile 1.0 <u>Source</u> (AVG.) (CAT HB)		
Initial Volume: Swell factor: Loose volume: ource of estimated ource of estimated <b>HOURLY PROD</b> Average push distar Inadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Veight description: <u>ob Condition Correc</u> Ope Material co	2,676         1.230         3,291 LCY         volume:       1000 LF         swell factor:       Cat Han         DUCTION         nce:       50 feet         production:       2,110.5 LC         cy description:       Conso         ent:       -15 %         e:       4,630 feet         2,500 lbs/LCY       Clay - Dry         ection Factor       rator Skill:         mag method:       0	dbook CY/hr blidated stockj			

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:	0.920	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.7307	
Adjusted unit production: 1,	542.14 LCY/hr	
Adjusted fleet production: 15	542.14 LCY/hr	

## JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.229/LCY

Total job time:	<b>2.13</b> Hours
Total job cost:	\$755

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## BULLDOZER WORK

Task description:	Grade	Topsoil				
Otter Creek Pit		Perr	nit Action:	2023	Permit/Job#:	M2012050
PROJECT IDEN	TIFICATIO	N				
Task #: 04A		State:	Colorado		Abbreviation:	None
Date: $\frac{0.11}{4/4/20}$	023	County:	Mesa		Filename:	M050-04a
User: ACY		county.	111054		-	11000 0 14
Agency or	organization n	ame: DR	MS			
HOURLY EQUI	PMENT COS	<u>ST</u>				
Basic Machine:	Cat D9T - 9S	SU				
Horsepower:	405	1				
Blade Type:	Semi-Univer					
Attachment:	3-shank rippe	er				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:				· · · · ·		
	r		¢146.00	<u>Utilization %</u>		
Ownership Cost/H			\$146.30	NA 100		
Operating Cost/H Ripper own. Cost/H			\$141.41 \$17.01	100 NA		
Ripper own. Cost/H Ripper op. Cost/H			\$17.01 \$8.85	NA 100		
Kipper op. Cost/H			\$8.85	NA		
			840.04	NIA		
Operator Cost/H	lour:		φ <del>+</del> 0.0+	INA		
•		1	ψ+0.0+	NA		
Total unit Cost/Hou Total Fleet Cost/Ho	ur: \$353.61 our: <b>\$353.6</b> 1		ψ <del>τ</del> υ.υτ			
Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume: Swell factor:	ur: \$353.61 bur: <b>\$353.6</b> [ANTITIES 41,946 1.115					
Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume:	ur: \$353.61 ur: <b>\$353.6</b> 1 [ <b>ANTITIES</b> 41,946					
Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume: Swell factor:	ur: \$353.61 ur: \$353.61 (ANTITIES 41,946 1.115 46,770 LCY	1				
Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL OU</u> Initial Volume: Swell factor: Loose volume:	ur: \$353.61 bur: \$353.61 (ANTITIES) 41,946 1.115 46,770 LCY volume:	1	 			
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	ur: \$353.61 bur: \$353.61 (ANTITIES) 41,946 1.115 46,770 LCY volume:	1 26 ac affe	 			
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated	ur:       \$353.61         yur:       \$353.61         (ANTITIES)         41,946         1.115         46,770 LCY         volume:         swell factor:	1 26 ac affe	 			
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROE	ur: \$353.61 ur: \$353.61 (ANTITIES 41,946 1.115 46,770 LCY volume: swell factor: DUCTION	1 26 ac affe	 			
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar	ur:       \$353.61         ur:       \$353.61         ANTITIES         41,946         1.115         46,770 LCY         volume:         swell factor:         DUCTION         nce:       9	1 26 ac affe Cat Handl	cted @ 12"			
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROE	ur:       \$353.61         ur:       \$353.61         (ANTITIES)         41,946         1.115         46,770 LCY         volume:         swell factor:         DUCTION         nce:       9         production:       1	26 ac affe Cat Handl 20 feet 1,351.7 LCY	  book Y/hr			
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROE Average push distar Unadjusted hourly p	ur:       \$353.61         yur:       \$353.61         (ANTITIES)         41,946         1.115         46,770 LCY         volume:         swell factor:         DUCTION         nce:       9         production:       1         cy description:	26 ac affe Cat Handl 20 feet 1,351.7 LCY	  book Y/hr	 D		
Total unit Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar Unadjusted hourly p	ur:       \$353.61         ur:       \$353.61         (ANTITIES)         41,946         1.115         46,770 LCY         volume:         swell factor:         DUCTION         nce:       9         production:       1         cy description:         ent:       0 %	1 26 ac affe Cat Handl 20 feet 1,351.7 LCY Partly c	  book Y/hr	 D		
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROE Average push distar Unadjusted hourly p Materials consistence Average push gradie	ur: $$353.61$ yur: $$353.61$ $$41,946$ $1.115$ $41,946$ $1.115$ $46,770$ LCY       volume:         volume:       swell factor: $0$ $0$ production: $1$ cy description: $0$ ent: $0$ %         e: $4,630$ for	1 26 ac affe Cat Handl 20 feet 1,351.7 LCY Partly c	  book Y/hr	 D		
Total unit Cost/Hou Total Fleet Cost/Hou Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated MOURLY PROE Average push distar Unadjusted hourly p Materials consistence Average push gradie Average push gradie	ur: $$353.61$ yar: $$353.61$ yar: $$353.61$ ANTITIES       41,946         1.115       46,770 LCY         volume:       well factor:         wolume:       9         swell factor:       9         DUCTION       1         nce:       9         production:       1         cy description:       1         e:       0 %         2,500 II       2,500 II	26 ac affe Cat Handl 20 feet 1,351.7 LCY Partly c eet bs/LCY	  book Y/hr	 D		
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated <b>HOURLY PROD</b> Average push distar Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Correct	ur: $$353.61$ yar: $$353.61$ yar: $$353.61$ ANTITIES       41,946         1.115       46,770 LCY         volume:       well factor:         your       9         ovolume:       9         swell factor:       9         production:       1         cy description:       1         ent:       0 %         e:       4,630 fm         2,500 ll       Clay - I         ection Factor       1	26 ac affe Cat Handl 20 feet 1,351.7 LCY Partly c eet bs/LCY Dry	 cted @ 12" book Y/hr consolidated	D 		
Total unit Cost/Hou Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated <b>HOURLY PROD</b> Average push distar Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Correc Ope	ur: $$353.61$ ur: $$353.61$ aur: $$353.61$ aur: $$353.61$ aur: $$353.61$ aur: $$353.61$ aur: $$41,946$ 1.115 $$46,770$ LCYvolume: $$well$ factor:bucched $$1.115$ aur: $$000$ bucched $$1.115$ bucched $$1.115$ bucched $$000$ bucched $$000$ bucched $$1.15$ bucched $$000$ bucched<	26 ac affe Cat Handl 20 feet 1,351.7 LCY Partly c eet bs/LCY Dry 0.		D stockpile 1.1  		
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated <b>HOURLY PROE</b> Average push distar Unadjusted hourly p Materials consistence Average push gradid Average site altitude Material weight: Weight description: Job Condition Correc Ope Material co	ur:       \$353.61         yur:       \$353.61         (ANTITIES)         41,946         1.115         46,770 LCY         volume:         swell factor:         DUCTION         nce:       9         production:       1         cy description:         ent:       0 %         e:       4,630 fe         2,500 ll         Clay - I         ection Factor         rator Skill:         posisiency:	1 26 ac affe Cat Handl 20 feet 1,351.7 LCY Partly c eet bs/LCY Dry 0.7 1.		D 		
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated <b>HOURLY PROE</b> Average push distar Unadjusted hourly p Materials consistence Average push gradid Average site altitude Material weight: Weight description: Job Condition Correc Ope Material co	ur: $$353.61$ ur: $$353.61$ aur: $$353.61$ aur: $$353.61$ aur: $$353.61$ aur: $$353.61$ aur: $$41,946$ 1.115 $$46,770$ LCYvolume: $$well$ factor:bucched $$1.115$ aur: $$000$ bucched $$1.115$ bucched $$1.115$ bucched $$000$ bucched $$000$ bucched $$1.15$ bucched $$000$ bucched<	26 ac affe         26 ac affe         Cat Handl         00 feet         1,351.7 LCY         Partly c         eet         bs/LCY         Dry         0.7         1.1		D stockpile 1.1  		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5040	
Adjusted unit production: 6	81.26 LCY/hr	
Adjusted fleet production: <b>6</b>	81.26 LCY/hr	

## JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.519/LCY

Total job time:	<b>68.65</b> Hours
Total job cost:	\$24,276

## Page 1 of 3

## TRUCK/LOADER TEAM WORK

Task description:	Move to	psoil to 6 acr	re ov	erburden storag	e area		
Site: Otter Creek Pit		Permit A	Actic	on: 2023		Permit/Job#: <u>M</u>	2012050
PROJECT IDEN	TIFICATION	r					
			olora	1.	. 1	the intervent NT-	
Task #: $05A$ Date: $4/4/20$	23	.do	Ab	breviation: <u>No</u> Filename: <u>M0</u>	ne 150-05a		
User: ACY	23	County: <u>M</u>	lesa				.50 05u
Agency or	organization nar	ne: DRMS					
	-				<b>C1</b> · C 1		
HOURLY EQUI	PMENT COST	<u>L</u>				sis: <u>1 per day</u>	
T	ruck Loader Tea	m Truck		Equipment Descri 770D	ption		
1	ruck Loader Tea			Γ980H high lift			
Supp	ort Equipment -L		NA				
				D9T - 9SU			
Road Ma	aintenance – Mot	or Grader:		Г 140M er Tanker, 5,000	Gal		
	- ••• a	llef Truck.	vv at	er Taliker, 5,000	Gal.		
Cost Breakdown:	Truck/Loa	ader Team		Support I	Equipment	Maintenan	ce Equipment
	Truck	Loader		Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	1	00	NA	100	100	100
Ownership cost/hour:	\$79.42	\$54.	58	NA	\$146.30	\$75.87	\$37.19
Operating cost/hour:	\$70.82	\$53.	14	NA	\$141.41	\$53.81	\$51.30
%Utilization-riper:	NA		0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.	00	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.	00	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$24.82	\$35.	97	NA	\$40.04	\$46.87	\$0.00
Unit Subtotals:	\$175.06	\$143.	69	NA	\$327.75	\$176.55	\$88.49
Number of Units:	2		1	0	1	1	1
Group Subtotals:	Work:	\$493.81		Support:	\$327.75	Maint:	\$265.04
Total work team cos MATERIAL QU		60					
Initial volume: Loose volume:			CCY LCY	Swell	factor: <u>1.115</u>		
	arce of estimated			@12" D			
Source	of estimated swe Material Purch		<u>Cat H</u> 50.00	landbook			
			<u>50.00</u> 50.00				
		<u>-</u>					
HOURLY PRO	<b>DUCTION</b>						
<u>Truck Capacity:</u> <u>Truck Payload (weig</u> Matarial y				Dounda/L CV			
Material w Descri		Drv		Pounds/LCY			
Rated Pa	· .			Pounds			
Payload Car				Founds			

Struck Volume:	21.60 L	.CY				
Heaped Volume:		.CY				
Average Volume:		.CY				
Adjusted Volume:		.CY				
Adjusted volume.	<u> </u>					
Final	Truck Volume E	Based on Number of I	Loader Passes:	27.75	LCY	
Loading Tool Capacity						
			Buck	et Size Class: N	А	
Rated Capacity:	7.500	LCY (heaped)				
Bucket Fill Factor:	0.925	Loose material -	1/8" to 3/8" (90	- 95%) 0.925		-
Adjusted Capacity:	6.938	LCY	· · · · · · · · · · · · · · · · · · ·			-
Job Condition Corrections:	_	Site	Altitude (ft.): 4	<u>1630</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB			
Job Efficiency:	0.830	0.830	(CAT HB			
too Emerency.	0.020	0.020				
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	Number	of Loading Tool Pass	as Doquirad to I	Cill Transler	4 r	00000
		of Loading 1001 Pass	es Required to I		ŀ	asses
Excavators and Front Shovel	<u>IS:</u>					
Machine Cycle Time vs						
Selected value v	VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Rating: NA				
	vithin this Basic Material Descrir	<u> </u>				
Track Loaders – Cycle Time Elements (min.):	Material Descrip	<u> </u>				
Track Loaders – Cycle Time Elements (min.):	Material Descrip	<u> </u>		 Dump: 0.100		
Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u>	Material Descrip Ma	neuver: NA		<b>I I I I I I I I I I</b>	)	
Track Loaders – Cycle Time Elements (min.):	Material Descrip Ma	neuver: NA	e (load, dump, n	<b>I I I I I I I I I I</b>		ıtes
Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders - Cycle Time Factors	Material Descrip  Unadjusted Basi	neuver: <u>NA</u> NA		naneuver): 0. Factor (min.)	.550 minu Source	ites
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material:	Material Descrip  Unadjusted Basi Material 1/8" t	otion:NA neuver:NA ic Loader Cycle Time o 3/4" diameter -0.02		naneuver):0. Factor (min.) -0.020	.550 minu Source (Cat HB)	ites
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	Material Descrip Ma Unadjusted Basi Material 1/8" t Conveyor or do	otion: neuver:NA ic Loader Cycle Time o 3/4" diameter -0.02 ozer piled 10 ft. high	or less 0.01	naneuver): 0. Factor (min.) -0.020 0.010	.550 minu Source (Cat HB) (Cat HB)	ites 
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Material Descrip Ma Unadjusted Bass Material 1/8" t Conveyor or de Common owne	otion:NA ineuver:NA ic Loader Cycle Time o 3/4" diameter -0.02 ozer piled 10 ft. high ership of trucks and lo	or less 0.01	naneuver): 0. Factor (min.) -0.020 0.010 -0.040	550 minu Source (Cat HB) (Cat HB) (Cat HB)	ites 
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descrip Ma Unadjusted Bas Material 1/8" t Conveyor or do Common owne Constant opera	otion: neuver:NA ic Loader Cycle Time o 3/4" diameter -0.02 ozer piled 10 ft. high ership of trucks and lo ttion -0.04	or less 0.01	naneuver): 0. Factor (min.) -0.020 0.010 -0.040 -0.040	550 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites 
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership:	Material Descrip Ma Unadjusted Bass Material 1/8" t Conveyor or de Common owne	otion:NA ineuver:NA ic Loader Cycle Time o 3/4" diameter -0.02 ozer piled 10 ft. high ership of trucks and lo tion -0.04 t 0.00	or less 0.01 paders -0.04	naneuver): 0. Factor (min.) -0.020 0.010 -0.040 -0.040 0.000	550 mim Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	ites    
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descrip Ma Unadjusted Bas Material 1/8" t Conveyor or do Common owne Constant opera	otion: neuver:NA ic Loader Cycle Time o 3/4" diameter -0.02 ozer piled 10 ft. high ership of trucks and lo tion -0.04 t 0.00 Net Cycle Time	or less 0.01 paders -0.04 Adjustment:	naneuver): 0. Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090	550 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	Ites    
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descrip Ma Unadjusted Bas Material 1/8" t Conveyor or do Common owne Constant opera	otion: neuver: NA ic Loader Cycle Time o 3/4" diameter -0.02 ozer piled 10 ft. high ership of trucks and lo tion -0.04 t 0.00 Net Cycle Time Adjusted Loader	or less 0.01 paders -0.04 Adjustment: Cycle Time:	naneuver): 0. Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090 0.460	550 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites   
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descrip Ma Unadjusted Bas Material 1/8" t Conveyor or do Common owne Constant opera	otion: neuver:NA ic Loader Cycle Time o 3/4" diameter -0.02 ozer piled 10 ft. high ership of trucks and lo tion -0.04 t 0.00 Net Cycle Time	or less 0.01 paders -0.04 Adjustment: Cycle Time:	naneuver): 0. Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090	550 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	ites 
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	Material Descrip Ma Unadjusted Bas Material 1/8" t Conveyor or do Common owne Constant opera	otion: neuver: NA ic Loader Cycle Time o 3/4" diameter -0.02 ozer piled 10 ft. high ership of trucks and lo tion -0.04 t 0.00 Net Cycle Time Adjusted Loader	or less 0.01 paders -0.04 Adjustment: Cycle Time:	naneuver): 0. Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090 0.460	550 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	ites    
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	Material Descrip Ma Unadjusted Basi Material 1/8" t Conveyor or de Common owne Constant opera Nominal target	otion: neuver: NA ic Loader Cycle Time o 3/4" diameter -0.02 ozer piled 10 ft. high ership of trucks and lo tion -0.04 t 0.00 Net Cycle Time Adjusted Loader	Adjustment: Cycle Time: ne per Truck:	naneuver): 0. Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090 0.460	550 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: <b>Truck Cycle Time:</b>	Material Descrip Ma Unadjusted Bas Material 1/8" t Conveyor or do Common owne Constant opera Nominal target	otion: neuver: NA ic Loader Cycle Time o 3/4" diameter -0.02 ozer piled 10 ft. high ership of trucks and lo tion -0.04 t 0.00 Net Cycle Time Adjusted Loader Net Load Tin	or less 0.01 paders -0.04 Adjustment: Cycle Time: ne per Truck: Adjusted	naneuver): 0. Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090 0.460 1.480	550minuSource(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutesminutesminutesminutes	
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time: Truck Load Time:	Material Descrip Ma Unadjusted Bas Material 1/8" t Conveyor or de Common owne Constant opera Nominal target	otion: neuver:NA ic Loader Cycle Time o 3/4" diameter -0.02 ozer piled 10 ft. high ership of trucks and lo tion -0.04 t 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes	Adjustment: Cycle Time: he per Truck: Adjusted Adjusted	naneuver): 0. Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090 0.460 1.480 for site altitude:	550 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600	Ites 
Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time:	Material Descrip Ma Unadjusted Basi Material 1/8" t Conveyor or do Common owne Constant opera Nominal target	otion: neuver: NA ic Loader Cycle Time o 3/4" diameter -0.02 ozer piled 10 ft. high ership of trucks and lo tion -0.04 t 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes Minutes	Adjustment: Cycle Time: ne per Truck: Adjusted Adjusted Adjusted	naneuver): 0. Factor (min.) -0.020 0.010 -0.040 -0.040 0.000 -0.090 0.460 1.480 for site altitude: for site altitude: for site altitude:	550minuSource(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutesminutesminutes0.6001.4801.000	    Minute

Haul Rou	te:							
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	1000.0	00	0.00	4.00	4.00	2051	0.735	
					Haul Time:	0.735	minutes	
Return Ro	oute:					00000		
Seg #	Haul I	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	1000.0	00	0.00	4.00	4.00	3891	0.638	
					Return Time:	0.638	minutes	
				Total Tru	ck Cycle Time:	4.453	minutes	
Loading Too	ol unit							
Produ		800.48	LCY/Hour		Adjusted for j	ob efficiency:	664.40	LCY/Hour
Truck Unit Produ	iction _	373.91	LCY/Hour		Adjusted for j	ob efficiency:	310.34	_ LCY/Hour
Optimal No. of Tr	ucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
			Adjuste	d hourly true	k team production	on: 620	.68 LCY/F	Iour
					er team production			
			Adjusted multip	le truck/loade	er team production	on: 620	.68 LCY/H	Iour
JOB TIN	ME AN	D COST						
Fleet	size:	1	Team(s)	]	Fotal job time:	17.3	9 Hour	rs
Unit	cost:	\$1.751	/LCY	,	Total job cost:	\$18,8	95	

## BULLDOZER RIPPING WORK

	Task description	: <u>Tops</u>	oil Compaction Relief				
Site	: Otter Creek I	Pit	Permit Action:	2023	Per	mit/Job#:M	2012050
	PROJECT ID	ENTIFICATIO	<u>DN</u>				
	Task #:       06         Date:       4/4         User:       AC	4/2023	State: Colorado County: Mesa			viation: <u>No</u> lename: <u>M</u> (	ne )50-06a
	Agency	or organization	name: DRMS				
	HOURLY EQ	UIPMENT CO	DST				
		Machine: Cat	D9T - 9SU nank Ripper		Horsepower:	405 1 per da (CRG	
	Cost Breakdown	<u>:</u>					
		Ownership Co Operating Co er Ownership Co per Operating Co Operator Co	st/Hour: st/Hour: st/Hour: st/Hour:	\$146.30 \$141.41 \$17.01 \$8.85 \$40.04	Utilization % NA 100 NA 100 NA		
		Total Unit Co	st/Hour:	\$353.61			
		Total Fleet Co	st/Hour: \$35	3.61			
	MATERIAL (	<u>QUANTITIES</u>	Sel	ected estimating	method: Area		
	Alternate Metho	ds:					
Seismic: Area:	NA 26.00	acres	Bank Volume: Rip Depth (ft):	NA 1.00	BCY Volume: 41	,947	BCY or CC
		Source of estin	nated quantity: Staff e	estimates			
	HOURLY PR	<b>ODUCTION</b>					
	Seismic:						
		S	eismic Velocity:	NA	feet/secor	nd	
	Area:			2 (2	0		
			e Ripping Depth: e Ripping Width:	2.63 7.67	feet/pass feet/pass		
			Ripping Length:	250.00	feet/pass		
			ge Dozer Speed:	88.00	feet/minu		
			Maneuver Time:	0.25	minutes/p		
			ion per unit area:	0.855	acres/hou	r	
	Job Condition Co						
	Ur	nadjusted Hourly	Unit Production:	0.855	Acres/hr		
			Site Altitude:	4,630	feet		
			Altitude Adj:	1.00	(CAT HB	/	
			Job Efficiency:	0.83	(1 shift/da	• /	
			Net Correction:	0.83	multiplier		
			Hourly Unit Production:		Acres/hr		
		•	Iourly Fleet Production:	0.71	Acres/hr		
	JOB TIME A	ND COST					
	Fleet size:	1	Grader(s)	Total job tim	e: <u>36</u>	.66	Hours
	Unit cost:	\$498.579	Per acre	Total job cos	st: \$12	,963	

## **REVEGETATION WORK**

Task description: lite: Otter Creek Pit		Revegetate 24.8 acres + Tree           Permit Action:	Permit/Job#: M201205	
PROJECT	IDENTIFI	CATION		
Task #:	07A	State: Colorado	Abbreviation:	None
Date:	4/4/2023	County: Mesa	Filename:	M050-07a
User:	ACY			

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
1248	100.00	pound	\$0.47	\$47.00
			Total Fertilizer Materials Cost/Acre	\$47.00

### Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$39.64
	Total Fertilizer Application Cost/Acre	\$39.64

## **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Total Tilling Cost/Acre	\$117.18

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sand Dropseed	1.90	226.81	\$18.53
Sandberg Bluegrass - VNS	1.50	31.85	\$12.60
Galleta	1.90	6.94	\$42.47
Rabbitbrush, Rubber	0.20	2.98	\$12.86
Winter Fat	1.13	2.87	\$23.06
Yarrow, Western	0.40	24.32	\$16.72
Kochia, Forage (Prostrate)	0.20	28.09	\$1.80
Globemallow, Munro	0.40	4.53	\$35.00
Totals Seed Mix	7.63	328.39	\$163.03

### Application

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
Herbicide - 2,4D @ 1.0 pt/ac	100.00	ACRE	\$3.04	\$304.00
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$1,146.72

### Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Power mulcher (MEANS 32 91 13.16 0350)		\$141.57
Weed spray, truck, aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$277.29

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre	
Cottonwood,	9	Container, 1 gallon (MEANS)	\$15.83	\$0.00	\$142.47	
Narrowleaf						
Totals Nursery Stock Cost / Acre						

### JOB TIME AND COST

	No. of Acres:	24.8	Cost /Acre:	\$2,165.33
Estimate	ed Failure Rate:	40%	Cost /Acre*:	\$1,819.04
*Selected Replanting Work Items:		SEEDING, MULCHING		
Initial Job Cost:	\$53,700.18			
Reseeding Job Cost:	\$18,044.88			

Reseeding Job Cost:	\$18,044.88
Total Job Cost:	\$71,745
Job Hours:	35.00

## **REVEGETATION WORK**

Task description:		otion:	Revegetate 1.2 Acres V			
Site: Otter Creek Pit		eek Pit	Permit A	ction: 2023	Permit/Jol	o#: M2012050
<u>P</u> ]	<u>ROJECT</u>	IDENTIFIC	ATION			
	Task #:	08A	State: Colo	orado	Abbreviation:	None
	Date:	4/4/2023	County: Mes	a	Filename:	M050-08a
	User:	ACY				
		ency or organiz	zation name: DRMS			

## **FERTILIZING**

#### Materials

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

## Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

## **TILLING**

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	2.00	78.05	\$56.95
Aquatic Sedge	0.20	5.29	\$35.00
Orchardgrass - Paiute	2.00	24.79	\$8.15
Slender Wheatgrass - Native	6.00	21.90	\$27.75
Western Wheatgrass - Native	0.20	0.51	\$1.20
Red Top	2.00	229.11	\$15.75
Reedgrass, Canadian (or Blue Joint)	0.40	41.14	\$81.30
Reedgrass, Northern - Native	1.00	102.85	\$136.65
Saltgrass, Inland	2.00	27.72	\$85.60

Snowberry, Western	2.00	3.44	\$127.00
Sumac, Skunkbrush	0.80	0.37	\$16.80
Timothy - Climax	2.00	57.39	\$3.20
Basin Wildrye - Trailhead	3.00	12.19	\$46.23
Greasewood, Black	2.00	280.90	\$38.00
Totals Seed Mix	25.60	885.66	\$679.58

### Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	100.00	ACRE	\$3.04	\$304.00
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Total Mulch Materials Cost/Acre				\$1,146.72

### Application

Description		Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)		\$3,726.80
Weed spray, hand, aquatic area, nox. [DMG]		\$183.16
	Total Mulch Application Cost/Acre	\$3,909.96

## 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

### JOB TIME AND COST

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	25%	CHING	Cost /Acre: Cost /Acre*:	
Initial Job Cost:	\$7,204.18				
Reseeding Job Cost:	\$1,801.04				
Total Job Cost:	\$9,005				
Job Hours:	8.00				

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	1. <u>1111</u>	tial Mobilization					
: Otter Creek	Pit	Permit	Action: 2023		1	Permit/Job#: <u>M</u>	2012050
PROJECT IDI	ENTIFICATI	<u>ON</u>					
Task #: 09	A	State: Co	lorado		Abbre	eviation: None	
	4/2023	County: Me				lename: M050	-09a
	CY						
Agency	or organization	n name: DRMS					
EQUIPMENT	TRANSPOR	T RIG COST					
					Shift ba	sis: 1 per da	V
				(	Cost Data Sou		
	ck Tractor Desc ck Trailer Desc		ENERIC FOLD	400 HP ING GOO	(2ND HALF,	ROP DECK EQUI	
			1	IN HEEK	(231, 301, 71	(1) 1001)	
Cost Breakdown:							
Available Rig (	Capacities	0-25 Tons	26-50 Tons	51-	+ Tons		
Ownershi	ip Cost/Hour:	\$15.25	\$23.06	\$	37.58		
Operatin	ng Cost/Hour:	\$25.26	\$30.83	\$	51.41		
Operato	or Cost/Hour:	\$27.71	\$27.71	\$	27.71		
	er Cost/Hour:	¢0.00					
T / 1 I I		\$0.00	\$20.22	\$2	20.22		
I otal Un	nit Cost/Hour:	\$68.22	\$20.22 \$101.82	-	20.22 36.92		
NON ROADAL	ļ	\$68.22		-			
NON ROADAI	ļ	\$68.22		-		Return Trip	DOT Permit
NON ROADAI	BLE EQUIPN Weight/ Unit	\$68.22	\$101.82	\$1	36.92 Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
NON ROADA Machine Description	BLE EQUIPM Weight/	\$68.22 MENT: Owner ship Cost/hr/ unit	\$101.82 Haul Rig Cost/hr/uni t	Fleet	36.92 Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	Cost/ fleet
NON ROADA Machine Description Cat D9T - 9SU	BLE EQUIPM Weight/ Unit (TONS) 60.01	\$68.22 MENT: Owner ship Cost/hr/ unit \$146.30	\$101.82 Haul Rig Cost/hr/uni t \$136.92	Fleet	36.92 Haul Trip Cost/hr/ fleet \$283.22	Cost/hr/ fleet \$136.92	Cost/ fleet \$250.00
NON ROADA Machine Description Cat D9T - 9SU Cat D6T LGP	BLE EQUIPM Weight/ Unit (TONS) 60.01 28.63	\$68.22 MENT: Owner ship Cost/hr/ unit	\$101.82 Haul Rig Cost/hr/uni t	Fleet Size	36.92 Haul Trip Cost/hr/ fleet	Cost/hr/ fleet \$136.92 \$101.82	Cost/ fleet
NON ROADA Machine Description Cat D9T - 9SU	BLE EQUIPM Weight/ Unit (TONS) 60.01	\$68.22 MENT: Owner ship Cost/hr/ unit \$146.30	\$101.82 Haul Rig Cost/hr/uni t \$136.92	Fleet Size	36.92 Haul Trip Cost/hr/ fleet \$283.22	Cost/hr/ fleet \$136.92	Cost/ fleet \$250.00
NON ROADA Machine Description Cat D9T - 9SU Cat D6T LGP CAT 980H high lift	BLE EQUIPM Weight/ Unit (TONS) 60.01 28.63 33.12	\$68.22 MENT: Owner ship Cost/hr/ unit \$146.30 \$84.20 \$54.58	\$101.82 Haul Rig Cost/hr/uni t \$136.92 \$101.82 \$101.82	Fleet Size	36.92 Haul Trip Cost/hr/ fleet \$283.22 \$186.02 \$156.40	Cost/hr/ fleet \$136.92 \$101.82 \$101.82	Cost/ fleet \$250.00 \$250.00 \$250.00
NON ROADA Machine Description Cat D9T - 9SU Cat D6T LGP CAT 980H high lift Cat 770D	BLE EQUIPM Weight/ Unit (TONS) 60.01 28.63 33.12 37.54	\$68.22 MENT: Owner ship Cost/hr/ unit \$146.30 \$84.20 \$54.58 \$79.42	\$101.82 Haul Rig Cost/hr/uni t \$136.92 \$101.82 \$101.82 \$101.82	Fleet Size	36.92 Haul Trip Cost/hr/ fleet \$283.22 \$186.02 \$156.40 \$362.48	Cost/hr/ fleet \$136.92 \$101.82 \$101.82 \$203.64	Cost/ fleet \$250.00 \$250.00 \$250.00 \$500.00
NON ROADA Machine Description Cat D9T - 9SU Cat D6T LGP CAT 980H high lift Cat 770D CAT 140M	BLE EQUIPM Weight/ Unit (TONS) 60.01 28.63 33.12 37.54 16.68	\$68.22 <b>MENT:</b> Owner ship Cost/hr/ unit \$146.30 \$84.20 \$54.58 \$79.42 \$75.87	\$101.82 Haul Rig Cost/hr/uni t \$136.92 \$101.82 \$101.82 \$101.82 \$68.22	\$1           Fleet           Size           1           1           2           1           1	36.92 Haul Trip Cost/hr/ fleet \$283.22 \$186.02 \$156.40 \$362.48 \$144.09	Cost/hr/ fleet \$136.92 \$101.82 \$101.82 \$203.64 \$68.22	Cost/ fleet \$250.00 \$250.00 \$250.00 \$500.00 \$250.00
NON ROADA Machine Description Cat D9T - 9SU Cat D6T LGP CAT 980H high lift Cat 770D CAT 140M Drill/Broadcast	BLE EQUIPM Weight/ Unit (TONS) 60.01 28.63 33.12 37.54	\$68.22 MENT: Owner ship Cost/hr/ unit \$146.30 \$84.20 \$54.58 \$79.42	\$101.82 Haul Rig Cost/hr/uni t \$136.92 \$101.82 \$101.82 \$101.82	Fleet Size	36.92 Haul Trip Cost/hr/ fleet \$283.22 \$186.02 \$156.40 \$362.48	Cost/hr/ fleet \$136.92 \$101.82 \$101.82 \$203.64	Cost/ fleet \$250.00 \$250.00 \$250.00 \$500.00
NON ROADA Machine Description Cat D9T - 9SU Cat D6T LGP CAT 980H high lift Cat 770D CAT 140M Drill/Broadcast Seeder with	BLE EQUIPM Weight/ Unit (TONS) 60.01 28.63 33.12 37.54 16.68	\$68.22 <b>MENT:</b> Owner ship Cost/hr/ unit \$146.30 \$84.20 \$54.58 \$79.42 \$75.87	\$101.82 Haul Rig Cost/hr/uni t \$136.92 \$101.82 \$101.82 \$101.82 \$68.22	\$1           Fleet           Size           1           1           2           1           1	36.92 Haul Trip Cost/hr/ fleet \$283.22 \$186.02 \$156.40 \$362.48 \$144.09	Cost/hr/ fleet \$136.92 \$101.82 \$101.82 \$203.64 \$68.22	Cost/ fleet \$250.00 \$250.00 \$250.00 \$500.00 \$250.00
NON ROADA Machine Description Cat D9T - 9SU Cat D6T LGP CAT 980H high lift Cat 770D CAT 140M Drill/Broadcast	BLE EQUIPM Weight/ Unit (TONS) 60.01 28.63 33.12 37.54 16.68	\$68.22 <b>MENT:</b> Owner ship Cost/hr/ unit \$146.30 \$84.20 \$54.58 \$79.42 \$75.87	\$101.82 Haul Rig Cost/hr/uni t \$136.92 \$101.82 \$101.82 \$101.82 \$68.22	\$1           Fleet           Size           1           1           2           1           1	36.92 Haul Trip Cost/hr/ fleet \$283.22 \$186.02 \$156.40 \$362.48 \$144.09	Cost/hr/ fleet \$136.92 \$101.82 \$101.82 \$203.64 \$68.22	Cost/ fleet \$250.00 \$250.00 \$250.00 \$500.00 \$250.00

Subtotals: **\$1,289.69 \$748.86** 

# \$748.86 \$2,000.00

### **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 5,000 Gal.	\$88.49	1	\$88.49	\$88.49
Light Duty Pickup, 4x4, 3/4 T.	\$70.69	3	\$212.07	\$212.07

Subtotals: \$300.56

\$300.56

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	GRAND JUNCTION 5.00 35.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$7,161.82	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$85.87	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.14	0.14
Return Time (Hours):	0.14	0.14
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.29	0.29

### JOB TIME AND COST

Total job time: 2.57 Hours

Total job cost: \$7,248

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	: Sec	ondary Mobiliza	tion				
: Otter Creek I	Pit	Permit	Action: 2023			Permit/Job#:	M2012050
PROJECT IDE	NTIFICATI	ON					
Task #: 09	В	State: Co	olorado		Abbro	eviation: Nor	ne
	4/2023	County: M	esa		Fi	ilename: M0	50-09b
User: AC	CY						
Agency	or organization	n name: DRMS					
EQUIPMENT (	TRANSPOR	T RIG COST					
•••••					Shift ba	usis: 1 per	dav
				C	Cost Data Sou	<b>I</b>	
Tma	la Tractor Dece	rintian. CENE					EL POWERED,
Truc	k Tractor Desc	ription: GENE	KIC UN-HIGH		(2ND HALF,		EL POWERED,
Truc	ck Trailer Desc	ription <sup>.</sup> G	ENERIC FOLD			,	UIPMENT
1100	in Trailer Dese				(25T, 50T, Al		
					(,,,,,		
Cost Breakdown:							
Available Rig (	Capacities	0-25 Tons	26-50 Tons	51+	Tons		
	p Cost/Hour:	\$15.25	\$23.06		7.58		
	g Cost/Hour:	\$25.26	\$30.83		1.41		
Operato	r Cost/Hour:	\$27.71	\$27.71	\$2	7.71		
Helpe	r Cost/Hour:	\$0.00	\$20.22	\$2	0.22		
Total Uni	it Cost/Hour:	\$68.22	\$101.82	\$1.	36.92		
NON ROADAB	BLE EQUIPN	MENT:					
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	t Cost/ fleet
r	(TONS)		t		fleet		
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00
				California 1	¢1 <b>57</b> 40	¢136.44	¢500.00
				Subtotals:	\$157.48	\$136.44	\$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, 3/4 T.	\$70.69	3	\$212.07	\$212.07
		Subtotals:	\$212.07	\$212.07

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	GRAND JUNCTION 5.00 35.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$1,398.94	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$60.59	_

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.14	0.14
Return Time (Hours):	0.14	0.14
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.29	0.29

### JOB TIME AND COST

Total job time: 2.57 Hours

Total job cost: \$1,460