

April 4, 2023

Jason Burkey Oldcastle SW Group, Inc. 2273 River Road Grand Junction, CO 81505

RE: Otter Creek, Permit No. M-2012-050, Proposed Surety Increase (SI-1), Draft Estimate

Dear Mr. Burkey:

Attached is the proposed Surety Increase (SI-1). This draft reclamation cost update was in response to the Divisions' March 29, 2023 site inspection. The Division is mandated to recalculate the reclamation cost estimate to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

Below is a table summarizing input values that have been updated with calculation as compared to previous revision (AM-1) calculation. This table does not account for price changes resulting from inflation or other RS Means cost changes

Task	Form Used	Change	Justification
01a	Demo	-	Removal of temporary features
02a	Loader	-	Update volume hauled 1000 LF of 2H: 1V to 3H: 1V @ 17'H is 5,352 CY. Previously 5,350
03a	Dozer	+	Updated volume 5,967 CY. Previously 5,965 CY
03b	Dozer	+	Added task for grading of internal pit slopes 1000LF of 1H:1V to 3H:1V @ 17'H is 2,676 CY
04a	Dozer	+	Previously 12.5 ac @ 1 ft = 18,518 cy, uphill push Per inspection 26 ac affected @ 1 ft = 41,946 cy, flat push
05a	Truck		No change
06a	Ripper	+	Previously 12.5 ac, Per inspection 26 ac affected
07a	Reveg	+	Previously 12.5 ac, Per inspection 24.8 ac upland affected



M-2012-050 April 4, 2023 Page 2

		*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

COST SUMMARY WORK

Otte	er Creek Pit	Pe	ermit Action:	2023	Permit/Job	#: <u>M2012050</u>
'ROJI	ECT IDENTI	FICATION				
Tas	sk #: ACY	State:	Colorado		Abbreviation:	None
D	Date: 4/4/202	3 County:	Mesa		Filename:	M050-ACY
U	ser: ACY					

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Equipment Removal	DEMOLISH	1	16.00	\$4,000
02a	Backfill Perimeter Highwall	LOADER	1	46.09	\$6,623
03a	Grade backfilled perimeter slopes	DOZER	1	6.86	\$2,427
03b	Grade interior slopes	DOZER	1	2.13	\$755
04a	Grade Topsoil	DOZER	1	68.65	\$24,276
05a	Move topsoil to 6 acre overburden storage area	TRUCK1	1	17.39	\$18,895
06a	Topsoil Compaction Relief	RIPPER	1	36.65	\$12,963
07a	Revegetate 24.8 acres + Trees	REVEGE	1	35.00	\$71,745
08a	Revegetate 1.2 Acres Wetland Area	REVEGE	1	8.00	\$9,005
09a	Initial Mobilization	MOBILIZE	1	2.57	\$7,248
09b	Secondary Mobilization	MOBILIZE	1	2.57	\$1,460
		241.91	\$159,397		

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: Performance bond: Job superintendent:		Total = Total = Total =	\$3,220 \$1,674 \$9,087
Profit:	10.00	Total =	\$15,940
		TOTAL O & P =	\$29,921
		CONTRACT AMOUNT (direct + O & P) = $($	\$189,318
LEGAL - ENGINEERING - PRO	DJECT MANA	GEMENT:	

TOTAL BO	\$212,111		
	TOTAL	INDIRECT COST =	\$52,714
CONTINGENCY:	3.00	Total =	\$4,782
Reclamation management and/or administration:	5.00		\$9,466
Engineering work and/or contract/bid preparation:	4.25	Total =	\$8,046
Financial warranty processing (legal/related costs):	\$500	Total =	\$500

DEMOLITION WORK

Task description:	Equipment Removal				
Site: Otter Creek Pit	Permit Action: 202	Permit/Job#: <u>M2012050</u>			
PROJECT IDENTIFICATIO	N				
Task #: 01A	State: Colorado		Abbrev	iation: None	
Date: 4/4/2023	County: Mesa		Filename: 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#:	M2012050
PROJECT IDEN	IFICATION					
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	ljusted Hourly Unit	Production:	129.47	LCY/Hour	
Ad	justed Hourly Fleet	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	

Page 1 of 2

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 5,967 LCY					
Source of estimated Source of estimated		Transport Cat Hand	ed Volume f book	rom 02a		
HOURLY PROD	UCTION					
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

Page 1 of 2

BULLDOZER WORK

		slopes			
Otter Creek Pit	Pe	rmit Action:	2023	Permit/Job#:	M2012050
PROJECT IDEN	TIFICATION				
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 3,291 LCY				
Initial Volume: Swell factor: Loose volume: ource of estimated	2,676 1.230 3,291 LCY volume: 1000 LF		H:1V @ 17'H		
Initial Volume: Swell factor: Loose volume:	2,676 1.230 3,291 LCY volume: 1000 LF		H:1V @ 17'H		
Initial Volume: Swell factor: Loose volume: ource of estimated	2,676 1.230 3,291 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 3,291 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 HOURLY PROD 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 HOURLY PROD 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 HOURLY PROD 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 HOURLY PROD 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 HOURLY PROD 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 HOURLY PROE 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 IOURLY PROD Average push distar Inadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Veight description: <u>ob Condition Corre</u> Ope	2,6761.230 $3,291 LCY$ volume:1000 LFswell factor:Cat HanDUCTIONnce:50 feetproduction:2,110.5 LCcy description:Consoent:-15 %e:4,630 feet2,500 lbs/LCYClay - Dryection Factor rator Skill:0	dbook CY/hr blidated stockj			
Initial Volume: Swell factor: Loose volume: ource of estimated ource of estimated HOURLY PROD 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 HOURLY PROD 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:	2.13 Hours
Total job cost:	\$755

Page 1 of 2

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 + 0.0+	INA		
•		1	ψ+0.0+	NA		
Total unit Cost/Hou Total Fleet Cost/Ho	ur: \$353.61 our: \$353.6 1		ψ τ υ.υτ			
Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume: Swell factor:	ur: \$353.61 bur: \$353.6 [ANTITIES 41,946 1.115					
Total unit Cost/Hou Total Fleet Cost/Ho <u>MATERIAL QU</u> Initial Volume:	ur: \$353.61 ur: \$353.6 1 [ANTITIES 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 yur: \$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$ ANTITIES 41,946 1.115 46,770 LCY volume: swell factor: DUCTION nce: 9 production: 1 cy description: ent: 0 % e: 4,630 fe	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: $$353.61$ ANTITIES 41,946 1.115 46,770 LCY volume: well factor: wolume: 9 swell factor: 9 DUCTION 1 nce: 9 production: 1 cy description: 1 e: 0 % 2,500 II 2,500 II	26 ac affe Cat Handl 20 feet 1,351.7 LCY Partly c eet bs/LCY	 book Y/hr	 D		
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distar Unadjusted hourly p Materials consistence Average push gradie Average site altitude Material weight: Weight description: Job Condition Correct	ur: $$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 Total Fleet Cost/Ho MATERIAL QU Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Average push distar Unadjusted hourly p Materials consistence Average push gradie 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 LCY$ volume: $$well factor:$ bucched $$000 LCY$ volume: $$000 LCY$ swell factor: $$000 LCY$ bucched $$000 L$	26 ac affe Cat Handl 20 feet 1,351.7 LCY Partly c eet bs/LCY Dry 0.		D stockpile 1.1 		
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROE Average push distar Unadjusted hourly p Materials consistence Average push gradid Average site altitude Material weight: Weight description: Job Condition Correc Ope Material co	ur: \$353.61 yur: \$353.61 (ANTITIES) 41,946 1.115 46,770 LCY volume: swell factor: DUCTION nce: 9 production: 1 cy description: ent: 0 % e: 4,630 fe 2,500 ll Clay - I ection Factor rator Skill: posisiency:	1 26 ac affe Cat Handl 20 feet 1,351.7 LCY Partly c eet bs/LCY Dry 0.7 1.		D 		
Total unit Cost/Hou Total Fleet Cost/Hou Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROE Average push distar Unadjusted hourly p Materials consistence Average push gradid Average site altitude Material weight: Weight description: Job Condition Correc Ope Material co	ur: $$353.61$ ur: $$353.61$ aur: $$353.61$ aur: $$353.61$ aur: $$353.61$ aur: $$353.61$ aur: $$41,946$ 1.115 $$46,770 LCY$ volume: $$well factor:$ bucched $$000 LCY$ volume: $$000 LCY$ swell factor: $$000 LCY$ bucched $$000 L$	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: 6	81.26 LCY/hr	

JOB TIME AND COST

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

Total job time:	68.65 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	rmit Action: 2023			Permit/Job#: M2012050		
PROJECT IDEN	TIFICATION	r					
			. 1	1.	. 1	the intervent NT-	
Task #: $05A$ Date: $4/4/20$	23		olora lesa	.do	Ab	breviation: <u>No</u> Filename: <u>M0</u>	ne 150-05a
User: ACY	23		USU				.50 05u
Agency or	organization nar	ne: DRMS					
	-				61 • 6 • 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	DUCTION						
<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		I I I I I I I I I I)	
Track Loaders – Cycle Time Elements (min.):	Material Descrip Ma	neuver: NA	e (load, dump, n	I I I I I I I I I I	. <u></u>	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: Truck Cycle Time:	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>Mo</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	ODUCTION					
	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: Site: Otter Creek Pit		Revegetate 24.8 acres + Trees Permit Action: 2023 Permit		Permit/Jol	ermit/Job#: <u>M2012050</u>		
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 Stoc	ek Cost / Acre	\$142.47

JOB TIME AND COST

	No. of Acres:	24.8	Cost /Acre:	\$2,165.33
Estimated Failure Rate:		40%	Cost /Acre*:	\$1,819.04
*Selected Replanti	ng 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

Г	Fask descrip	otion:	Revegetate 1.2 Acres V	Vetland Area			
Site: Otter Creek Pit		eek Pit	Permit Action: 2023		Permit/Job#: 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	n: Ini t	tial Mobilization						
: Otter Creek	Pit	Permit	Action: 2023]	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				ilename: M050		
	CY						, 0, u	
Agency	or organization	n name: DRMS						
EQUIPMENT	TRANSPOR	<u>T RIG COST</u>						
					Shift ba	sis: 1 per da	Ŋ	
				(Cost Data Sou			
	ck Tractor Desc ck Trailer Desc		ENERIC FOLD	400 HP ING GOO	(2ND HALF,	ROP DECK EQU		
			1	MAILLN	(251, 501, A	(D 1001)		
Cost Breakdown:								
Available Rig	Capacities	0-25 Tons	26-50 Tons	51-	- Tons			
Ownershi	p Cost/Hour:	\$15.25	\$23.06	\$3	37.58			
Operatin	g Cost/Hour:	\$25.26	\$30.83	\$	51.41			
Operato	or Cost/Hour:	\$27.71	\$27.71	\$2	27.71			
Helpe	er Cost/Hour:	\$0.00	\$20.22	\$2	20.22			
Total Un	it Cost/Hour:	\$68.22	\$101.82	\$1	26.02			
			\$10110 =	ψı	36.92			
NON ROADAI	BLE EQUIPN	<u>AENT:</u>	\$10110 <u>2</u>	ψι	36.92			
Machine	BLE EQUIPM	MENT: Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit	
	Weight/ Unit	-			Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet	
Machine Description	Weight/	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	Cost/ fleet	
Machine Description Cat D9T - 9SU	Weight/ Unit (TONS) 60.01	Owner ship Cost/hr/ unit \$146.30	Haul Rig Cost/hr/uni t \$136.92	Fleet	Haul Trip Cost/hr/ fleet \$283.22	Cost/hr/ fleet \$136.92	Cost/ fleet \$250.00	
Machine Description Cat D9T - 9SU Cat D6T LGP	Weight/ Unit (TONS) 60.01 28.63	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Cost/hr/ fleet \$136.92 \$101.82	Cost/ fleet	
Machine Description Cat D9T - 9SU	Weight/ Unit (TONS) 60.01	Owner ship Cost/hr/ unit \$146.30	Haul Rig Cost/hr/uni t \$136.92	Fleet Size	Haul Trip Cost/hr/ fleet \$283.22	Cost/hr/ fleet \$136.92	Cost/ fleet \$250.00	
Machine Description Cat D9T - 9SU Cat D6T LGP CAT 980H high lift	Weight/ Unit (TONS) 60.01 28.63 33.12	Owner ship Cost/hr/ unit \$146.30 \$84.20 \$54.58	Haul Rig Cost/hr/uni t \$136.92 \$101.82 \$101.82	Fleet Size 1 1 1	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	
Machine Description Cat D9T - 9SU Cat D6T LGP CAT 980H high lift Cat 770D	Weight/ Unit (TONS) 60.01 28.63 33.12 37.54	Owner ship Cost/hr/ unit \$146.30 \$84.20 \$54.58 \$79.42	Haul Rig Cost/hr/uni t \$136.92 \$101.82 \$101.82 \$101.82	Fleet Size	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	
Machine Description Cat D9T - 9SU Cat D6T LGP CAT 980H high lift Cat 770D CAT 140M	Weight/ Unit (TONS) 60.01 28.63 33.12 37.54 16.68	Owner ship Cost/hr/ unit \$146.30 \$84.20 \$54.58 \$79.42 \$75.87	Haul Rig Cost/hr/uni t \$136.92 \$101.82 \$101.82 \$101.82 \$68.22	Fleet Size 1 1 1 2 1	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	
Machine Description Cat D9T - 9SU Cat D6T LGP CAT 980H high lift Cat 770D CAT 140M Drill/Broadcast	Weight/ Unit (TONS) 60.01 28.63 33.12 37.54	Owner ship Cost/hr/ unit \$146.30 \$84.20 \$54.58 \$79.42	Haul Rig Cost/hr/uni t \$136.92 \$101.82 \$101.82 \$101.82	Fleet Size	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	
Machine Description Cat D9T - 9SU Cat D6T LGP CAT 980H high lift Cat 770D CAT 140M Drill/Broadcast Seeder with	Weight/ Unit (TONS) 60.01 28.63 33.12 37.54 16.68	Owner ship Cost/hr/ unit \$146.30 \$84.20 \$54.58 \$79.42 \$75.87	Haul Rig Cost/hr/uni t \$136.92 \$101.82 \$101.82 \$101.82 \$68.22	Fleet Size 1 1 1 2 1	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	
Machine Description Cat D9T - 9SU Cat D6T LGP CAT 980H high lift Cat 770D CAT 140M Drill/Broadcast	Weight/ Unit (TONS) 60.01 28.63 33.12 37.54 16.68	Owner ship Cost/hr/ unit \$146.30 \$84.20 \$54.58 \$79.42 \$75.87	Haul Rig Cost/hr/uni t \$136.92 \$101.82 \$101.82 \$101.82 \$68.22	Fleet Size 1 1 1 2 1	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	condary Mobiliza	tion				
: Otter Creek F	Pit	Permit	Action: 2023			Permit/Job#:	M2012050
PROJECT IDE	NTIFICATI	ON					
Task #: 091	В	State: Co	olorado		Abbro	eviation: Non	e
	/2023	County: M	esa		Fi	ilename: M05	50-09b
User: AC	CY						
Agency	or organization	n name: DRMS					
EQUIPMENT 1	ΓRANSPOR	T RIG COST					
					Shift ba	sis: 1 per d	lav
				(Cost Data Sou	1	
Tanal	r Tractor Dece	mintion. CENE	DIC ON LUCH				
Truci	k Tractor Desc	mpuon: GENE	KIC UN-HIGH		(2ND HALF,	OR, 6X4, DIESE 2006)	EL POWERED,
True	k Trailer Desc	ription: G	ENERIC FOLD			ROP DECK EQ	IIPMENT
True	K Hanel Dese				(25T, 50T, Al		
					(201,001,11	(2 1001)	
Cost Breakdown:							
Available Rig C	apacities	0-25 Tons	26-50 Tons	51+	Tons		
	o Cost/Hour:	\$15.25	\$23.06		7.58		
	g Cost/Hour:	\$25.26	\$30.83	\$5	1.41		
Operator	r Cost/Hour:	\$27.71	\$27.71	\$2	7.71		
Helpe	r Cost/Hour:	\$0.00	\$20.22	\$2	0.22		
Total Uni	t Cost/Hour:	\$68.22	\$101.82	\$1.	36.92		
NON ROADAB	LE 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	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
				Cubtotola.	¢1 27 40	¢126.44	\$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



Messa County Map The Georaphic Information system (GIS) and its components are designed as a source of reference for answering inquiries, for planning and for modeling GIS is not interded or does not replace legal description information in the dhain of title and ther information contained in d'fical government records such as the County Clerk and Recorders office or the carts. In addition, the representations of location in this GIS cannot be substute for advaila legal surveys. The information contained herein is believed accuste and suitable for the in inted uses, and subject to the limit atoms, set forth dover. Mess County maks no warrarry as to the accuracy or suitability of any information contained herein. Users assume all risk and responsibility for any and all damages, including consequential damages, which may flow from the user's use of this information.

0	0.03	0.06		0.12 mi
\vdash	,,,,,		- , _ ,	I
0	0.035 0.0	7	0.14 km	

