# COST SUMMARY WORK

Т	ask descrip	otion:	Post inspection	update 5-24-2	2022			
Site:	Site: White River S & G Pit		Permit Action: 2022		2022	Permit/Job#: M1991009		
<u>P</u> ]	Task #: Date:	<b>IDENTIFIC</b> ACY 6/7/2022	ATION State: County:	Colorado Rio Blanco		Abbreviation: Filename:	None M009-ACY	
	User:	ACY ency or organiz	ation name: DF	RMS				

# TASK LIST (DIRECT COSTS)

Task	Description	Form	Fleet	Task Hours	Cost
01a	DescriptionGrade highwall slopes to 2:1	Used DOZER	Size	11.80	\$2,790
01a 01b	Transport backfill material for grading	LOADER	1	31.95	\$3,486
			1		
02a	Grade east side pit floor	DOZER		13.43	\$3,413
03a	Rip 6.0 acres of pit floor	RIPPER	1	9.16	\$2,397
04a	Transport topsoil throughout pit	LOADER	1	33.70	\$3,677
04b	Grading topsoil	DOZER	1	8.89	\$2,101
05a	Revegetate 6.0 acres	REVEGE	1	16.00	\$10,419
06a	Initial Mobilization	MOBILIZE	1	2.26	\$3,175
06b	Secondary Mobilization	MOBILIZE	1	2.26	\$1,369
		SUBTO	DTALS:	129.45	\$32,827

#### **INDIRECT COSTS**

#### **OVERHEAD AND PROFIT:**

Liability insurance:	2.02	Total =	\$663
Performance bond:	1.05	Total =	\$345
Job superintendent:	64.72	Total =	\$4,662
Profit:	10.00	Total =	\$3,283
		TOTAL O & P =	\$8,952
		CONTRACT AMOUNT (direct + $O \& P$ ) =	\$41,779

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$500 0.00 5.00	Total = Total =	\$500 \$0 \$2,089
CONTINGENCY:	0.00	Total =	\$0
	TOTAL	INDIRECT COST =	\$11,541
TOTAL BO	\$44,368		

# BULLDOZER WORK

Task	description:		Grade	e highwall s	slopes to 2:1				
: <u>W</u>	hite River S &	G Pi		Per	mit Action:	2022		Permit/Job#:	M1991009
<u>PRO</u>	<u>)JECT IDEN</u>	TIFI	CATIO	<u>N</u>					
Та	ask #: 01A			State:	Colorado			Abbreviation:	None
	Date: 6/7/20 User: ACY	)22		County:	Rio Blanco	)		Filename:	M009-01a
			•		DMC				
	Agency or	organ	ization n	ame: Dr	RMS				<u> </u>
HOU	URLY EQUI	PME	NT CO	<u>ST</u>					
	asic Machine:		D8T - 88	SU					
	Horsepower:	310	• • • •	1					
	Blade Type: Attachment:	NA NA	i-Univer	sal		_			
	Shift Basis:		r day						
	Data Source:	$\frac{1 \text{ pc}}{(\text{CR})}$							
			J)						
Cost ]	Breakdown:				I	<b>T</b> 1			
0	norshin Cost/II	011***			\$97.46	<u>U</u>	<u>tilization %</u> NA		
	nership Cost/H erating Cost/H				\$97.46		100		
	er own. Cost/H				\$0.00		NA		
	oper op. Cost/H				\$0.00		0		
-	perator Cost/H				\$41.30		NA		
Init	TERIAL QU	5,575							
	Swell factor: _ ose volume:	1.000	LCY						
	ce of estimated				insported mat	erial to 2	:1 min		
Sourc	ce of estimated	swell	factor:	Cat Hand	lbook				
HOU	URLY PROD	UCT	ION						
Avera	age push distar	ice:		90 feet					
Unad	ljusted hourly p	roduc	tion:	918.4 LCY/	/hr				
Mater	rials consistenc	ey des	cription:	Loose	stockpile 1.2				
	age push gradie		10 %						
Avera	age site altitude	e:	6,200 f	eet					
Mater	rial weight:		2,1001	bs/LCY					
Weig	tht description:	-	Earth -	Loam					
<u>Job C</u>	Condition Corre					1	Source		
	0		1 .11	0	.750		(AVG.)		
		rator S					. ,		
	Material co	onsiste	ncy:	1.	.200		(CAT HB)		
	Material co Dozir		ncy:	1.			. ,		

Job efficienc	y: 0.830	(1 SHIFT/DAY)
Spoil pil	e: 0.800	(FND-RF)
Push gradier	nt: 0.786	(CAT HB)
Altitud	e: 1.000	(CAT HB)
Material Weigh	nt: 1.095	(CAT HB)
Blade typ	e: 1.000	(PAT)
Net correctio	n:0.5143	
Adjusted unit production:	472.33 LCY/hr	
Adjusted fleet production:	472.33 LCY/hr	
-		

Fleet size:	1 Dozer(s)
Unit cost:	\$0.500/LCY

Total job time:	<b>11.80</b> Hours
Total job cost:	\$2,790

### WHEEL LOADER - LOAD AND CARRY WORK

Task description:	Transpo	rt backfill mat	erial for g	rading			
White River S & G	F Pit	Permit Act	tion: <u>202</u>	22		Permit/Job#	: <u>M1991009</u>
PROJECT IDENT	IFICATION						
Task #: 01B		State: Colo	rado			Abbreviation:	None
Date: 6/7/2022	2 (		Blanco			Filename:	M009-01b
User: ACY							
Agency or or	ganization nan	ne: DRMS					
HOURLY EQUIP	MENT COST	-					
Basic Machine	: CAT 938H				Horsepow	er:	172
Attachment 1					Shift Bas		per day
					Data Sour		CRG)
Cost Breakdown:							
Cost Dieakdown.			Ut	ilization %	)		
Ownership Co	st/Hour:	\$35.16		NA			
Operating Co	st/Hour:	\$33.22		100			
Operator Co		\$40.71		NA			
Total Unit Co	st/Hour:	\$109.09					
Total Fleet Co	ost/Hour	\$109.09					
Initial volume: Loose volume: Source	5,000 5,575 ce of estimated		Y	Swell fa		- <u></u> -	
Source of	estimated swe	Il factor: Cat	Handbool	κ.			
HOURLY PRODU	CTION						
Loader Cycle Time:	Unadjust	ed Basic Cycle	Time (load	l, dump, m	aneuver):	0.483	minutes
Cycle Time Fa	ctors				F	actor (min.)	Source
		al 3/4" to 6" dia				0.000	(Cat HB)
		ustment - facto				0.000	(Cat HB)
Truck Owner		ustment - facto		cable 0.00		0.000	(Cat HB)
			04			0.040	$(( \det UD))$
Opera		int operation -0.	.04			-0.040	(Cat HB)
		al target 0.00		ime Adius	tment:	0.000	(Cat HB)
Opera		al target 0.00 N	et Cycle T	ime Adjus		0.000 -0.040	(Cat HB) minutes
Opera Dump Ta	arget: Nomir	nal target 0.00 N A	et Cycle T	ime Adjus asic Cycle		0.000	(Cat HB)
Opera Dump Ta <u>Rolling Resistance – F</u>	arget: Nomin	aal target 0.00 N A	et Cycle T Adjusted B	asic Cycle	Time:	0.000 -0.040 0.443	(Cat HB) minutes
Opera Dump Ta <u>Rolling Resistance – F</u>	rrget: Nomin Road Condition ul: _Rutted d	nal target 0.00 N A	et Cycle T Adjusted B nance, no	asic Cycle water, 2" t	Time:	0.000 -0.040 0.443	(Cat HB) minutes
Opera Dump Ta <u>Rolling Resistance – F</u> Ha	arget: Nomin Road Condition ul: <u>Rutted d</u> rn: <u>Rutted d</u>	aal target 0.00 N A S irt, little mainte	et Cycle T Adjusted B nance, no	asic Cycle water, 2" t	Time:	0.000 -0.040 0.443	(Cat HB) minutes
Opera Dump Ta <u>Rolling Resistance – F</u> Ha Retu	arget: Nomin Road Condition ul: <u>Rutted d</u> rn: <u>Rutted d</u>	aal target 0.00 N A S irt, little mainte	et Cycle T Adjusted B nance, no	asic Cycle water, 2" t water, 2" t	Time:	0.000 -0.040 0.443	(Cat HB) minutes

5.00

5.00

5.00

5.00

450

450

Haul Route:

Return Route:

0.00

0.00

(Cat HB) (Cat HB)

0.4124

0.3698

		Total Travel Total Cycle		minutes minutes
Load Bucket Capacity				
Rated Capac Bucket Fill Fac Adjusted Capac	tor: 1.100	LCY (heaped) Other - rock/dirt mixtures LCY	(100-120%) 1.100	
Job Condition Correcti Site Altitude: <u>6200</u> fee				
		Source		
Altitude Adj:	1.00	(CAT HB)		
Job Efficiency:	0.83	(1 shift/day)		
Net Correction:	0.83	multiplier		
Ŭ	Inadjusted Hourly Unit	Production: 210.19	LCY/Hour	
	Adjusted Hourly Unit		LCY/Hour	
	Adjusted Hourly Fleet	Production: <b>174.46</b>	LCY/Hour	
JOB TIME AND C	<u>OST</u>			
Fleet size:	1 Loader(s)	Total job time:	31.96	Hours

Total job cost: **\$3,486** 

Unit cost: \_\_\_\_\_\$0.625 /LCY

# BULLDOZER WORK

Task description:	Grad	e east side p					
White River S &	G Pit	Per	mit Action:	2022	Permit/.	Job#:	M1991009
PROJECT IDEN	TIFICATIO	<u>DN</u>					
Task #: 02A		State:	Colorado		Abbreviati	ion:	None
Date: 6/7/202	22	County:	Rio Blanco	)	Filenar	me:	M009-02a
User: ACY							
Agency or	organization	name: DF	RMS				
HOURLY EQUIE	PMENT CO	<u>)ST</u>					
Basic Machine:	Cat D8T - 8	SU					
Horsepower:	310						
Blade Type:	Semi-Unive						
Attachment:	3-shank ripp	per		_			
Shift Basis:	1 per day			_			
Data Source:	(CRG)						
Cost Breakdown:							
				Utilization %	<u>-</u>		
Ownership Cost/Ho			\$97.46	NA			
	1144		\$97.63	100			
Operating Cost/Ho			¢17 10				
Ripper own. Cost/Ho	our:		\$15.19 \$2.40	NA			
Ripper own. Cost/Ho Ripper op. Cost/Ho	our:		\$2.49	25			
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou	our: our: cour: cour: cour: s254.0 s254.0						
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QU</u> Initial Volume:	our: our: : : \$254.0 xr: \$254.0 <b>ANTITIES</b> 3,000		\$2.49	25			
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Ho Total unit Cost/Hou Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor:	our:		\$2.49	25			
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated	pur:	)7 Staff estin	\$2.49 \$41.30	25			
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Hou Total unit Cost/Hour Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume:	pur:	)7	\$2.49 \$41.30	25			
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated	our:	)7 Staff estin	\$2.49 \$41.30	25			
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Hour Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL OUA Initial Volume: Swell factor: Loose volume: Source of estimated source o	our:	)7 Staff estin Cat Hand	\$2.49 \$41.30	25			
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Hour Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated source of estimated source of estimated source source and source of estimated source of source so	our:	)7 Staff estin	\$2.49 \$41.30	25			
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distance	our:	Staff estin       Cat Hand       150 feet       634.3 LCY/	\$2.49 \$41.30 	25			
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hou <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated s Source of estimated s HOURLY PROD Average push distant Unadjusted hourly pu	our:	Staff estin       Cat Hand       150 feet       634.3 LCY/	\$2.49 \$41.30 	25 NA			
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated source of estimated source of Average push distant Unadjusted hourly pu	our:	Staff estin          Cat Hand           150 feet           634.3 LCY/          Compa	\$2.49 \$41.30 	25 NA			
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated source of estimated source of Average push distand Unadjusted hourly pu Materials consistency	our:	Staff estin          Cat Hand           150 feet           634.3 LCY/          Compa	\$2.49 \$41.30 	25 NA			
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour <u>MATERIAL QUA</u> Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated HOURLY PROD Average push distand Unadjusted hourly pu Materials consistenc; Average push gradie Average site altitude	pur:	Staff estin         Cat Hand         150 feet         634.3 LCY/         Compa         feet	\$2.49 \$41.30 	25 NA			
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated s HOURLY PROD Average push distand Unadjusted hourly pu Materials consistency Average push gradie Average site altitude Material weight:	our:	Staff estin         Cat Hand         150 feet         634.3 LCY/         Compa         feet         lbs/LCY	\$2.49 \$41.30 	25 NA			
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated Source of estimated Materials consistency Average push distance Average push gradie Average site altitude Material weight: Weight description: Job Condition Correct Oper	our:	7	\$2.49 \$41.30 mates book /hr hcted fill or en .600		()		
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated s Source of estimated s HOURLY PROD Average push distand Unadjusted hourly pu Materials consistency Average push gradie Average site altitude Material weight: Weight description: Job Condition Corree Oper Material co	pur:	7	\$2.49 \$41.30 	25 NA	3)) B))		
Ripper own. Cost/Ho Ripper op. Cost/Ho Operator Cost/Ho Total unit Cost/Hour Total Fleet Cost/Hour MATERIAL QUA Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated Source of estimated Materials consistency Average push distand Unadjusted hourly pu Materials consistency Average push gradie Average site altitude Material weight: Weight description: Job Condition Correct Oper Material co Dozing	our:		\$2.49 \$41.30 mates book /hr hcted fill or en .600		() () ()		

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:	1.095	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3926	
Adjusted unit production: 24	49.03 LCY/hr	
Adjusted fleet production: 24	<b>19.03</b> LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.020/LCY

Total job time:	13.43 Hours
Total job cost:	\$3,413

# BULLDOZER RIPPING WORK

	Task description	: Rip	6.0 acres of pit floor				
Site:	White River S	S & G Pit	Permit Action:	2022	Perm	nit/Job#: <u>M</u>	1991009
	PROJECT ID	ENTIFICATI	ON				
	Task #: 03. Date: $\frac{6}{7}$ User: AC	7/2022	State:ColoradoCounty:Rio Blanco	)	Abbrev File		ne 09-03a
	Agency	or organization	name: DRMS				
	HOURLY EQ	•					
			t D8T - 8SU		Horsepower:	310	
	Ripper Att		Shank Ripper		Shift Basis:	1 per da	у
					Data Source:	(CRG)	
	Cost Breakdown	<u>:</u>		1			
		Ownership C	ost/Hour	\$97.46	Utilization % NA		
		Ownership C Operating C		\$97.63	100		
		er Ownership C	ost/Hour:	\$15.19	NA		
	Rip	per Operating C		\$9.94	100		
		Operator C Total Unit C		\$41.30	NA		
		Total Unit C	ost/Hour:	\$261.52			
		Total Fleet C	ost/Hour: \$261	.52			
	MATERIAL (	QUANTITIES	Sele	cted estimating	method: Area		
	Alternate Method	<u>ds:</u>		-			
nic:	NA		Bank Volume:	NA	BCY	NA	
rea:	6.00	acres	Rip Depth (ft):	2.00	Volume: 19,		BCY of
		Source of esti	mated quantity: Previou	usly accepted va	lues		
	HOURLY PR	ODUCTION					
		obcenton					
	Seismic:		Seismic Velocity:	NA	feet/second	1	
				1111		*	
	Area:	Avera	ge Ripping Depth:	1.00	feet/pass		
			ge Ripping Width:	7.08	feet/pass		
			e Ripping Length:	250.00	feet/pass		
			rage Dozer Speed:	88.00	feet/minute		
			e Maneuver Time:	0.25 0.789	minutes/pa acres/hour	ISS	
			-	0.789			
	Job Condition Co	orrection Factor	<u>8</u>				
	Ur	nadjusted Hourly	Unit Production:	0.789	Acres/hr		
			Site Altitude:	6,200	feet		
			Altitude Adj:	1.00	(CAT HB)		
			Job Efficiency: Net Correction:	0.83	(1 shift/day multiplier	y)	
			Hourly Unit Production: Hourly Fleet Production:	0.65 <b>0.65</b>	Acres/hr Acres/hr		
	JOB TIME AN	· ·	<b>1000000000000000000000000000000</b>				
		<u>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>	Creadar(=)	Total islation		(	Herry
	Fleet size:	1	_ Grader(s)	Total job time	e: 9.1	0	Hours
	Unit cost:	\$399.463	Per acre	Total job cos	t: <b>\$2,3</b>	97	

#### WHEEL LOADER - LOAD AND CARRY WORK

Task description:	Transpo	ort topsoil throug	ghout pit			
e: White River S & C	G Pit	Permit Acti	on: <u>2022</u>		Permit/Job#	M1991009
PROJECT IDENT	FIFICATION					
Task #: 04A		State: Color	ada		Abbreviation:	None
Date: $\frac{6}{7/202}$	2	County: Rio B			Filename:	M009-04a
User: ACY	<u> </u>				T fichume.	
Agency or o	organization nan	ne: DRMS				
HOURLY EQUIP	MENT COST	[				
Basic Machine	e: CAT 938H	[		Horsepo	ower:	172
Attachment 1				Shift B		ber day
			_	Data So		CRG)
Cost Breakdown:						
Cost Dieakuowii.			Utilizatio	on %		
Ownership Co	ost/Hour:	\$35.16	NA			
Operating Co		\$33.22	100			
Operator Co		\$40.71	NA			
Total Unit Co		\$109.09				
Total Fleet C	cost/Hour:	\$109.09				
MATERIAL QUA	NTITIES					
Initial volume: Loose volume:	4,840	CC) LCY		ell factor: <u>1.2</u>	215	
Sour	rce of estimated	volume: 6 ac	at 6"			
	of estimated swe		Handbook			
HOURLY PRODU	UCTION					
						_
Loader Cycle Time:	Unadjust	ed Basic Cycle T	ime (load, dum	p, maneuver):	0.483	minutes
Cycle Time F	actors				Factor (min.)	Source
		ial 3/4" to 6" dia	meter 0.00		0.000	(Cat HB)
		justment - factor			0.000	(Cat HB)
Truck Owne	1 .	justment - factor	11	0.00	0.000	(Cat HB)
		ant operation -0.0	)4		-0.040	(Cat HB)
Dump T	arget: Nomin	nal target 0.00		1	0.000	(Cat HB)
			t Cycle Time A		-0.040	minutes
		A	ljusted Basic C	ycie Time:	0.443	minutes
Rolling Resistance -	Road Condition	<u>s</u>				
ц	aul: Rutted d	irt, little mainten	ance no water	2" tire nenetrat	ion 5.0	
Retu		irt, little mainten				
		,		_ me penedut		
Haul and Return Time	<u>e</u>					
	Length	Grade Res.	Rolling	Total Res.	Travel Time	Course
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source
Haul Route:	450	0.00	5.00	5.00	0.4124	(Cat HB)

Return Route:

450

0.00

5.00

5.00

(Cat HB)

0.3698

			Total Travel T Total Cycle T		minutes
Load Bucket Capacity					
Rated Capac	eity: 3.90	LCY (heap	ped)		
Bucket Fill Fac	tor: 1.100	Other - roo	ck/dirt mixtures	(100-120%) 1.100	
Adjusted Capac	eity: <b>4.29</b>	LCY			
Job Condition Correcti Site Altitude: <u>6200</u> fee					
		Source			
Altitude Adj:	1.00	(CAT HB)	)		
Job Efficiency:	0.83	(1 shift/day	7)		
Net Correction:	0.83	multiplier			
U	Inadjusted Hourly Unit Adjusted Hourly Unit		210.19	LCY/Hour LCY/Hour	
	Adjusted Hourly Fleet		174.46	LCY/Hour	
JOB TIME AND C Fleet size:		\ \	Total ich time:	22 71	Hours
Fleet size.	1 Loader(s)	)	Total job time:	33.71	Hours

Total job cost: \$3,677

Unit cost: \_\_\_\_\_\$0.625 /LCY

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# BULLDOZER WORK

Task description:		Gradin	g topson					
White River S	& G Pit	ţ	Per	mit Action:	2022	Per	mit/Job#:	M1991009
PROJECT IDE	NTIFI	CATION	<u>1</u>					
Task #: 04B			State:	Colorado		Abbre	viation:	None
Date: $\frac{677}{7}$	2022		County:	Rio Blanco	)		ename:	M009-04b
User: ACY			county.		,		· · · · · ·	11007 010
				OMC				
Agency	or organ	ization na	me: Dr	RMS				
HOURLY EQU	IPME	NT COS	<u>T</u>					
Basic Machine:		D8T - 8SU	J					
Horsepower:								
Blade Type:	-	i-Univers	al					
Attachment:	NA	1						
Shift Basis:		r day						
Data Source:	(CR	G)						
Cost Breakdown:								
					<u>Utilization</u>	<u>%</u>		
Ownership Cost/	-			\$97.46	NA			
Operating Cost/				\$97.63	100			
	Hour:			\$0.00	NA			
Ripper own. Cost/					Δ (Δ			
Ripper op. Cost/	Hour:			\$0.00	0			
Ripper op. Cost/ Operator Cost/ Total unit Cost/Ho Total Fleet Cost/H	Hour: Hour: ur: our:	\$236.39 <b>\$236.39</b>		\$0.00	0			
Ripper op. Cost/ Operator Cost/ Total unit Cost/Ho Total Fleet Cost/H <u>MATERIAL Q</u>	Hour: Hour: ur: our: UANT	\$236.39 ITIES			_			
Ripper op. Cost/ Operator Cost/ Total unit Cost/He Total Fleet Cost/H <u>MATERIAL Q</u> Initial Volume:	Hour: Hour: ur: our: <u>U<b>ANT</b></u> 5,881	\$236.39 ITIES			_			
Ripper op. Cost/ Operator Cost/ Total unit Cost/He Total Fleet Cost/H <u>MATERIAL O</u> Initial Volume: Swell factor:	Hour: Hour: ur: our: <u>UANT</u> 5,881 	\$236.39 ITIES			_			
Ripper op. Cost/ Operator Cost/ Total unit Cost/He Total Fleet Cost/H <u>MATERIAL Q</u> Initial Volume: Swell factor: Loose volume:	Hour: Hour: ur: our: <u>UANT</u> 5,881 1.000 <b>5,881</b>	\$236.39 ITIES 		\$41.30	NA			
Ripper op. Cost/ Operator Cost/ Total unit Cost/He Total Fleet Cost/H <u>MATERIAL Q</u> Initial Volume: Swell factor: Loose volume: Source of estimate	Hour: Hour: ur: our: <u>UANT</u> <u>5,881</u> <u>1.000</u> <u>5,881</u> d volun	\$236.39 ITIES LCY ne:		\$41.30	NA			
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Ripper op. Cost/ Operator Cost/ Total unit Cost/Ho Total Fleet Cost/H <u>MATERIAL Q</u> Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate	Hour: Hour: ur: our: <u>UANT</u> <u>5,881</u> <u>1.000</u> <b>5,881</b> d volun d swell	\$236.39 <u>ITIES</u> . LCY he: factor:		\$41.30	NA			
Ripper op. Cost/ Operator Cost/ Total unit Cost/Ho Total Fleet Cost/H <u>MATERIAL Q</u> Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate <u>HOURLY PRO</u>	Hour: Hour: ur: our: <u>UANT</u> <u>5,881</u> <u>1.000</u> <u>5,881</u> d volun d swell <u>DUCT</u>	\$236.39 ITIES . LCY ne: factor: ION	Cat Hand	\$41.30	NA			
Ripper op. Cost/ Operator Cost/ Total unit Cost/Ho Total Fleet Cost/H <u>MATERIAL Q</u> Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate <u>HOURLY PRO</u> Average push dista	Hour: Hour: ur: our: <u>UANT</u> <u>5,881</u> <u>1.000</u> <b>5,881</b> d volun d swell <b>DUCT</b> unce:	\$236.39 <u>ITIES</u> . LCY he: factor: <u>ION</u>	Cat Hand	\$41.30  " deep transpo lbook	NA			
Ripper op. Cost/ Operator Cost/ Total unit Cost/Ho Total Fleet Cost/H <u>MATERIAL Q</u> Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate <u>HOURLY PRO</u> Average push dista Unadjusted hourly	Hour: Hour: ur: our: <u>UANT</u> <u>5,881</u> <u>1.000</u> <u>5,881</u> d volun d swell <u>DUCT</u> unce: produc	\$236.39 <u>ITIES</u> <u>LCY</u> he: factor: <u>ION</u> tion:	Cat Hand 00 feet 52.6 LCY/	\$41.30  " deep transpo lbook	NA			
Ripper op. Cost/ Operator Cost/ Total unit Cost/He Total Fleet Cost/H <u>MATERIAL O</u> Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate <u>HOURLY PRO</u> Average push dista Unadjusted hourly Materials consister	Hour: Hour: ur: our: <u>UANT</u> <u>5,881</u> <u>1.000</u> <u>5,881</u> d volun d swell <u>DUCT</u> unce: produc ncy deso	\$236.39 ITIES ILCY accession of the second s	Cat Hand 00 feet 52.6 LCY/	\$41.30  " deep transpo lbook	NA			
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Ripper op. Cost/ Operator Cost/ Total unit Cost/He Total Fleet Cost/H <u>MATERIAL OP</u> Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate <u>HOURLY PRO</u> Average push dista Unadjusted hourly Materials consiste Average push grad	Hour: Hour: ur: our: 5,881 1.000 5,881 d volun d swell DUCT nce: produc ncy desc lient: de:	\$236.39 [TIES	Cat Hand D0 feet 52.6 LCY/ Loose : et s/LCY	\$41.30  " deep transpo lbook	NA			
Ripper op. Cost/ Operator Cost/ Total unit Cost/He Total Fleet Cost/H MATERIAL Q Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate Source of estimate MOURLY PRO Average push dista Unadjusted hourly Materials consister Average push grac Average site altitu Material weight: Weight description Job Condition Cor	Hour: Hour: ur: our: <u>UANT</u> 5,881 1.000 5,881 d volun d swell DUCT nce: produc ncy desc lient: de: n: rection erator S	\$236.39 [TIES	Cat Hand 00 feet 52.6 LCY/ Loose = et s/LCY 0.	\$41.30	orted	G.)		
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Task # 04B

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.7760	
Adjusted unit production: 66	51.62 LCY/hr	
Adjusted fleet production: 66	51.62 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.357/LCY

Total job time:	8.89 Hours
Total job cost:	\$2,101

# **REVEGETATION WORK**

Т	Task description:		Revegetate 6.0 acr	es			
Site:	e: White River S & G Pit		Perm	it Action:	2022	Permit/Jol	o#: <u>M1991009</u>
<u>P</u> ]	ROJECT	IDENTIFIC	ATION				
	Task #: Date:	05A 6/7/2022		Colorado Rio Blanco		Abbreviation: Filename:	None M009-05a
	User:	ACY					

# **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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$114.56
Total Tilling Cost/Acre	\$114.56

#### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.50	8.09	\$27.81
Crested Wheatgrass - Ephraim	2.00	9.18	\$8.65
Russian Wildrye - Vinal	2.00	8.03	\$12.36
Streambank Wheatgrass - Sodar	2.20	7.17	\$12.54
Western Wheatgrass - Arriba	3.20	8.08	\$20.80
Totals Seed Mix	11.90	40.56	\$82.16

Application

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

### **MULCHING and MISCELLANEOUS**

#### Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.98	\$2.98
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$307.02	\$614.04
Total Mulch Materials Cost/Acre				\$617.02

# Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$71.57
Power mulcher (MEANS 32 91 13.16 0350)		\$106.29
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	Total Mulch Application Cost/Acre	\$240.58

### **NURSERY STOCK PLANTING**

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

	No. of Acres:	6	Cost /Acre:	\$1,286.32
Estimate	ed Failure Rate:	35%	Cost /Acre*:	\$1,286.32
*Selected Replanti	ng Work Items:	TILLING,SEED	ING,MULCHING	
Initial Job Cost: Reseeding Job Cost:				

beeding too cost.	
Total Job Cost:	\$10,419
Job Hours:	16.00

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	i: <u>Ini</u>	tial Mobilization					
: White River	S & G Pit	Permit	Action: 2022			Permit/Job#:	M1991009
PROJECT IDI	ENTIFICATI	ON					
Task #: 06	δA	State: Co	olorado		Abbro	eviation: N	None
	7/2022 CY	County: Ri	o Blanco		F	ilename: N	M009-06a
Agency	or organization	n name: DRMS					
EQUIPMENT	TRANSPOR	T RIG COST					
					Shift ba	1	er day
					Cost Data Sou	rce: CR	G Data
Truc	ck Tractor Desc	cription: GENE	RIC ON-HIGH		UCK TRACTO P (2ND HALF,		ESEL POWERED,
Tru	ck Trailer Desc	cription: G	ENERIC FOLD				EQUIPMENT
		I · · · ·			(25T, 50T, A)		
					· · · · ·	· · · · ·	
Cost Breakdown:							
Available Rig (	Capacities	0-25 Tons	26-50 Tons	51	+ Tons		
	p Cost/Hour:	\$21.28	\$37.94	\$	47.67		
Operatin	g Cost/Hour:	\$26.55	\$50.48	\$	56.21		
	or Cost/Hour:	\$20.54	\$20.54	\$	20.54		
Helpe	er Cost/Hour:	\$0.00	\$23.53	\$	23.53		
	it Cost/Hour:	\$68.37	\$132.49		147.95		
NON ROADAI	BLE EQUIPI	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Tri	ip DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fl	eet Cost/ fleet
*	(TONS)		t		fleet		
Cat D8T - 8SU	53.08	\$112.65	\$147.95	1	\$260.60	\$147.95	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$14.98	\$68.37	1	\$83.35	\$68.37	\$250.00
CAT 938H	16.34	\$35.16	\$68.37	1	\$103.53	\$68.37	\$250.00

Subtotals: **\$523.83 \$353.06 \$1,000.00** 

### **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip
Light Duty Pickup, 4x4, 1 T.	unit		Cost/hr/ fleet	Cost/hr/ fleet
Crew	\$75.87		\$75.87	\$75.87
		Subtotals:	\$75.87	\$75.87

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	MEEKER 2.00 30.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$3,164.58	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$10.12	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.07	0.07
Return Time (Hours):	0.07	0.07
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.13	0.13

#### JOB TIME AND COST

Total job time: 2.27 Hours

Total job cost: \$3,175

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descripti	on: Sec	ondary Mobilizat	tion				
Site: White River S & G Pit		Permit Action: 2022		Permit/Job#: M1991009			
PROJECT II	DENTIFICATI	ON					
Task #:	06B	State: Co	lorado		Abbre	viation: N	one
	6/7/2022		o Blanco				1009-06b
User:	ACY	J					
Agen	cy or organization	n name: DRMS					
<u>EQUIPMEN</u>	T TRANSPOR	<u>T RIG COST</u>					
					Shift bas	sis: 1 pe	er day
				C	Cost Data Sour		B Data
Ti	ruck Tractor Desc	ription: GENE	RIC ON-HIGH	WAY TRU	CK TRACTO	R, 6X4, DIE	SEL POWERED,
					(2ND HALF, 2	,	
Т	ruck Trailer Desc	ription: G	ENERIC FOLD				QUIPMENT
			]	FRAILER (	25T, 50T, AN	D 100T)	
Cost Breakdow	<u>'n:</u>						
Available Rig Capacities		0-25 Tons	26-50 Tons	51+	Tons		
Ownership Cost/Hour:		\$21.28	\$37.94	\$4	7.67		
Operating Cost/Hour:		\$26.55	\$50.48	\$5	6.21		
Operator Cost/Hour:		\$20.54	\$20.54		0.54		
Helper Cost/Hour:		\$0.00	\$23.53		3.53		
Total Unit Cost/Hour:		\$68.37	\$132.49	\$14	17.95		
NON ROAD	ABLE EQUIP	<u>MENT:</u>					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fle	et Cost/ fleet
-	(TONS)		t		fleet		
Drill/Broadcas Seeder with Tractor	t 25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00
Power Mulcher (Bowie LD-90)		\$14.98	\$68.37	1	\$83.35	\$68.37	\$250.00

Subtotals: \$159.70 \$136.74 \$500.00

#### **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$75.87	1	\$75.87	\$75.87
		Subtotals:	\$75.87	\$75.87

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	MEEKER	
Total one-way travel distance:	2.00	miles
Average Travel Speed:	30.00	mph
Tetal New Decideble Mak/Dewak Cent *		
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$1,358.93	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$10.12	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.07	0.07
Return Time (Hours):	0.07	0.07
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.13	0.13

#### JOB TIME AND COST

Total job time: 2.27 Hours

Total job cost: \$1,369