

May 23, 2024

John Nichols Nichols Gravel Pit L.L.P. P.O. Box 285 Mesa, CO 81643

### RE: Nichols Gravel Pit, Permit No. M-1981-013, Proposed Surety Increase SI-5 (05-2024)

Dear Mr. Nichols:

This reclamation cost update was in response to the site inspection conducted on May 14, 2024. The inspection documented reclamation work conducted on site compared to the Divisions October 25, 2023 inspection. An initial estimate was provided on November 13, 2023. This estimate has since been updated to reflect current site conditions.

Below is a table summarizing input values. Changes from the 2023 calculation are in red. This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation plan.

Task	Form Used	Description
01a	Dozer	Reduce all slopes to 2H:1V or less = 10,624 BCY North Slope Cut/Fill: 300 LF of 30'H 1:1, 100' push = 625 BCY Fence Corner Backfill: 400LF of 30'H 1:1, 200'push = 6,667 CCY SE Corner Cut/fill: 400 LF of 20'H Near vert, 100' push = 1,110 BCY South bench: 600 LF of 40'H 1:1, 10' push = 2,222 BCY
02a	Truck	Transport overburden (2 ft over 3.5 ac) to pit floor 11,293 CCY Only 3.5 ac of lower pit floor need overburden replaced.
02b	Dozer	Grade transported overburden 12,705 LCY, 50' push





03a	Truck	Truck approx. half of topsoil to north side of pit = 9,000 LCY 900 LF haul (21ac @ 6" = 16,940 CCY)
03b	Dozer	Spread transported topsoil 6" over 21 ac = 20,582 LCY, 100' push, partially consolidated
05a	Reveg	Reveg pit floor 9.5 ac
06a	Reveg	Reveg pit slopes 16.5 ac,
06b	Reveg	Trees on 1 ac with 40% failure-No changes
07a	Mob	No equipment changes
07b	Mob	No equipment changes

Discussed within the inspection report are several potential changes to the Reclamation Plan which affect bonding. Until such time as the TR is submitted and approved these changes cannot be taken into account. Based on the current Reclamation Plan the Division has estimated the total required bond amount to be \$156,574 which is a \$41,100 increase over the \$115,474.00 currently held. Please either submit a TR prior to June 14, 2024, or the Division will issue the Surety Increase as calculated. Note that the Divisions annual inflationary increase goes into effect on July 1, 2024. So, any bonds calculated after that date are likely to increase. Please reach out if you have any questions.

Sincerely,

Amy Geldell

*Amy Yeldell* Environmental Protection Specialist

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS

## COST SUMMARY WORK

Г	Task descrip	otion:	Post 2024 rec wo	ork				
Site:	Nichols C	Gravel Pit	Pe	rmit Action:	05-2024	Permit/Jol	o#: <u>M1981013</u>	
<u>P</u> ]	ROJECT	<u>IDENTIFIC</u>	CATION					
	Task #:	ACY	State:	Colorado		Abbreviation:	None	
	Date:	5/23/2024	County:	Mesa		Filename:	M013-ACY	
	User:	ACY						
	Age	ency or organi	zation name:	RMS				

## TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Reduce highwalls to 2H:1V	DOZER	2	11.29	\$9,608
02a	Haul overburden to lower pit floor	TRUCK1	1	25.64	\$14,341
02b	Grade transported overburden on 3.5 ac lower pit floor	DOZER	2	8.75	\$7,442
03a	Haul topsoil to north side of pit	TRUCK1	1	23.31	\$13,036
03b	Spread 6" topsoil over 21 ac	DOZER	2	15.32	\$13,035
05a	Reveg 9.5 ac pit floor to pasture alfalfa	REVEGE	1	16.00	\$20,125
06a	Reveg on 16.5 ac pit slopes	REVEGE	1	24.00	\$32,163
06b	Reveg on 1 ac PJ	REVEGE	1	10.00	\$3,422
07a	Initial Mobilization	MOBILIZE	1	4.50	\$9,268
07b	Secondary Mobilization	MOBILIZE	1	4.50	\$2,168
		<u>SUBT</u>	DTALS:	143.31	\$124,608

## **INDIRECT COSTS**

### OVERHEAD AND PROFIT:

Total =	\$2,517
Total =	\$1,308
Total =	\$4,663
Total =	\$12,461
TOTAL O & P =	\$20,950
CONTRACT AMOUNT (direct + O & P) = $($	\$145,558
	Total = Total =

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

TOTAL BO	ND AN	IOUNT (direct + indirect) =	\$156,574
		TOTAL INDIRECT COST =	\$31,966
CONTINGENCY:	3.00	Total =	\$3,738
Reclamation management and/or administration:	5.00		\$7,278
Engineering work and/or contract/bid preparation:	0.00	Total =	\$0
Financial warranty processing (legal/related costs):	\$0	Total =	\$0

## BULLDOZER WORK

Task description:	Reduce highwalls	s to 2H:1V			
Nichols Gravel Pit	Perr	nit Action:	05-2024	Permit/Job#:	M1981013
PROJECT IDENTIF	ICATION				
Task #: 01A	State:	Colorado		Abbreviation:	None
Date: $5/23/2024$	County:	Mesa		Filename:	M013-01a
User: ACY					
Agency or orga	nization name: DR	MS			
HOURLY EQUIPMI	ENT COST				
	t D8T - 8SU				
Horsepower: 310					
Blade Type: Ser Attachment: NA	mi-Universal				
	er day				
	RG)				
Cost Breakdown:			TT/11 0/		
Ownership Cost/Hour:		\$241.38	<u>Utilization %</u> NA		
Operating Cost/Hour:		\$241.38 \$143.92	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$40.04	NA		
MATERIAL QUANT	524				
Swell factor: <u>1.18</u> Loose volume: <b>12,5</b>	536 LCY				
Source of estimated volu			I: 1V or less and blend		
Source of estimated swel	l factor: Cat Hand	book			
HOURLY PRODUC	<u>TION</u>				
Average push distance:	100 feet				
Unadjusted hourly produ		hr			
Materials consistency de	scription: <u>Compa</u>	cted fill or e	mbankment 0.9		
Average push gradient: Average site altitude:	-25 % 5,500 feet				
Material weight:	2,400 lbs/LCY				
Material weight: Weight description:	2,400 lbs/LCY Clay and gravel - I	Dry			
Weight description: Iob Condition Correction	Clay and gravel - I		Source		
Weight description: Iob Condition Correctior Operator	Clay and gravel - I <u>1 Factor</u> Skill:0.	750	(AVG.)		
Weight description: Job Condition Correction Operator Material consist	Clay and gravel - I <u>n Factor</u> Skill: 0. tency: 0.	750 900	(AVG.) (CAT HB))		
Weight description: Iob Condition Correction Operator Material consist Dozing me	Clay and gravel - I <u>n Factor</u> Skill: 0. tency: 0. ethod: 1.	750	(AVG.)		

Task # 01A

Job efficient	cy:	0.830	(1 SHIFT/DAY)
Spoil pi	le:	0.800	(SSD-AC)
Push gradie	nt:	1.516	(CAT HB)
Altitud	le:	1.000	(CAT HB)
Material Weig	ht:	0.958	(CAT HB)
Blade typ	be:	1.000	(PAT)
Net correction	on: 0.650	9	
Adjusted unit production:	554.96 LO	CY/hr	
Adjusted fleet production:	<b>1109.92</b> I	LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.766/LCY

Total job time:	<b>11.29</b> Hours
Total job cost:	\$9,608

# TRUCK/LOADER TEAM WORK

Site: <u>Nichols Gravel Pi</u>		Permit .	Actio	on: <u>05-2024</u>	·	Permit/Job#: <u>M</u>	1981013
PROJECT IDENTask #:02ADate:5/23/20User:ACY	)24 (	County: M	olora Iesa	do	Ab	breviation: <u>No</u> Filename: <u>M0</u>	ne 113-02a
HOURLY EQUIE	organization nan <b>MENT COST</b>		)		Shift bas	is: <u>1 per day</u>	
		-	F	Equipment Descri		<u> </u>	
Tı	uck Loader Tea	m -Truck:	Cat				
		-Loader:		Г 966Н			
Suppo	rt Equipment -L	oad Area:	NA NA				
Road Ma	intenance – Moto		NA				
	-Wa	ter Truck:	NA				
Cost Ducal down	True als /L as	1 T		Course and T	7	Maintanan	
Cost Breakdown:	Truck/Loa Truck	Loader		Load Area	Equipment Dump Area	Motor Grader	ce Equipment Water Truck
			00		•		N
%Utilization-machine:	100 \$108.06	<u> </u>	00 60	NA NA	NA NA	NA NA	N. N.
Ownership cost/hour: Operating cost/hour:	\$108.06	\$65. \$48.		NA NA	NA NA	NA NA	N. N.
%Utilization-riper:	\$71.00 NA	<b>φ</b> 40.	.09 0	NA NA	NA NA	NA	N. N.
Ripper own. cost/hour:	NA	\$0.	-	NA	NA	NA	N.
Ripper op. cost/hour:	NA		.00	NA	NA	NA	N
Operator cost/hour:	\$24.82	\$35.	.97	NA	NA	NA	N
Unit Subtotals:	\$204.76	\$149.	.75	NA	NA	NA	N
Number of Units:	2		1	0	0	0	
Group Subtotals:	Work:	\$559.27		Support:	\$0.00	Maint:	\$0.00
Total work team cost <u>MATERIAL QUA</u> Initial volume:	<b>NTITIES</b> 11,293		CCY	Swell	factor: <u>1.125</u>		
Loose volume:	12,70	5 <u> </u>	LCY				
	rce of estimated			2 @ 24"			
Source	of estimated swe Material Purcha		<u>Cat H</u> \$0.00	landbook			
			\$0.00				
HOURLY PRO	DUCTION						
<u>Truck Capacity:</u> <u>Truck Payload (weig</u> Material w Descri	eight: 2,650	posed rock -	25%	Pounds/LCY Rock, 75% Earth			
Rated Pay		r socu rook		Pounds	·		

Struck Volume:	17 10	LCV				
Heaped Volume:		LCY				
		LCY				
Average Volume:		LCY				
Adjusted Volume:	22.10	LCY				
Fina	al Truck Volume	Based on Number of	of Loader Passes:	19.50	LCY	
Loading Tool Capacity						
			Bucl	ket Size Class: <u>N</u>	IA	
Rated Capacity:	5.000	LCY (heaped)				
Bucket Fill Factor:	0.975	Loose material	l - mixed moist ag	gregates (95-100%)	0.975	
Adjusted Capacity:	4.875	LCY				
Job Condition Corrections	<u>s:</u>	S	Site Altitude (ft.): <u></u>	5500 feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB	3)		
Job Efficiency:	0.830	0.830	(CAT HB	3)		
Net Correction:	0.830	0.830				
Loading Tool Cycle Time	: Number	r of Loading Tool Pa	asses Required to l	Fill Truck:	4	passes
Excavators and Front Shov	els:					
		n Dotingu NA				
Machine Cycle Time						
Machine Cycle Time Selected Value	vs. Job Condition	c Rating: NA				
Machine Cycle Time Selected Value	vs. Job Condition within this Basi – Material Descr	c Rating: NA				
Machine Cycle Time Selected Value Track Loaders -	vs. Job Condition within this Basi – Material Descr ):	c Rating: NA		 Dump: 0.100	)	
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: <u>NA</u>	vs. Job Condition within this Basi – Material Descr ): M	c Rating: <u>NA</u> iption: faneuver: <u>NA</u>				
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders	vs. Job Condition within this Basi – Material Descr ):  - Unadjusted Ba	c Rating: <u>NA</u> iption: faneuver: <u>NA</u>	me (load, dump, r	naneuver): 0	.500 mir	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors	vs. Job Condition within this Basi – Material Descr ):  - Unadjusted Ba	c Rating: <u>NA</u> iption: faneuver: <u>NA</u> asic Loader Cycle Ti		naneuver):0 Factor (min.)	.500 mir Source	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> Material:	vs. Job Condition within this Basi – Material Descr ): M - Unadjusted Ba	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00	)	maneuver): 0 Factor (min.) 0.000	0.500 mir Source (Cat HB)	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile:	vs. Job Condition within this Basi – Material Descr ): M - Unadjusted Ba  Material 3/4" Conveyor or	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig	gh and up 0.00	maneuver): 0 Factor (min.) 0.000 0.000	.500 mir Source (Cat HB) (Cat HB)	utes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile: Truck Ownership:	vs. Job Condition within this Basi – Material Descr ): 	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and	gh and up 0.00	maneuver):0 Factor (min.) 0.000 0.000 -0.040	2.500 mir Source (Cat HB) (Cat HB) (Cat HB)	utes 
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vs. Job Condition within this Basi – Material Descr ): – Unadjusted Ba – Unadjusted Ba – Material 3/4" Conveyor or Common own Constant oper	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04	gh and up 0.00	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040	2.500 mir Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes 
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	vs. Job Condition within this Basi – Material Descr ): – Unadjusted Ba – Unadjusted Ba – Material 3/4" Conveyor or Common own Constant oper	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00	gh and up 0.00 d loaders -0.04	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000	2.500 mir Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes 
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vs. Job Condition within this Basi – Material Descr ): – Unadjusted Ba – Unadjusted Ba – Material 3/4" Conveyor or Common own Constant oper	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin	gh and up 0.00 d loaders -0.04 me Adjustment:	naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080	.500minSource(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutes	utes 
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vs. Job Condition within this Basi – Material Descr ): – Unadjusted Ba – Unadjusted Ba – Material 3/4" Conveyor or Common own Constant oper	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.080 0.420	.500     min       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     minutes       minutes     minutes	utes 
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vs. Job Condition within this Basi – Material Descr ): – Unadjusted Ba – Unadjusted Ba – Material 3/4" Conveyor or Common own Constant oper	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	gh and up 0.00 d loaders -0.04 me Adjustment:	naneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080	.500minSource(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)(Cat HB)minutes	utes 
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	vs. Job Condition within this Basi – Material Descr ): – Unadjusted Ba – Unadjusted Ba – Material 3/4" Conveyor or Common own Constant oper	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.080 0.420	.500     min       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     minutes       minutes     minutes	utes 
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	vs. Job Condition within this Basi – Material Descr ):  - Unadjusted Ba  Material 3/4" Conveyor or Common own Constant open Nominal targ	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Fime per Truck:	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.080 0.420	.500     min       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     minutes       minutes     minutes	
Machine Cycle Time Selected Value 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:	vs. Job Condition within this Basi – Material Descr ): – Unadjusted Ba – Unadjusted Ba – Unadjusted Ba – Material 3/4" Conveyor or Common own Constant open Nominal targ	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6'' diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck:	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.080 0.420 1.360	.500     min       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       minutes     minutes       minutes     minutes	    
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim	vs. Job Condition within this Basi – Material Descr ): 	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti ' to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	maneuver): 0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.420 1.360 for site altitude:	.500     min       Source     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     (Cat HB)       (Cat HB)     minutes       minutes     minutes       0.600     0.600	utes 
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim	vs. Job Condition within this Basi – Material Descr ): 	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti 2 to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	maneuver):0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.420 1.360 for site altitude: for site altitude:	2.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.600 1.360	     Minutes
Machine Cycle Time Selected Value Track Loaders - Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Tim Truck Load Tim	vs. Job Condition within this Basi – Material Descr ): 	c Rating: NA iption: Ianeuver: NA asic Loader Cycle Ti 2 to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Tin Adjusted Load Net Load T Minutes Minutes Minutes	gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	maneuver):0 Factor (min.) 0.000 0.000 -0.040 -0.040 0.000 -0.080 0.420 1.360 for site altitude: for site altitude:	2.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.600 1.360 1.000	      Minutes

Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	300.0	0	0.00	4.00	4.00	1774	0.359	
					Haul Time:	0.359	minutes	
Return Re	oute:				=			
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	300.0	0	0.00	4.00	4.00	2855	0.272	
					Return Time:	0.272	minutes	
				Total Tru	ck Cycle Time:	3.591	minutes	
Loading Too								
	iction	596.94	LCY/Hour		Adjusted for j	ob efficiency:	495.46	LCY/Hour
ck Unit Produ	iction _	325.81	LCY/Hour		Adjusted for j	ob efficiency:	270.43	LCY/Hour
mal No. of T	ucks:	2	Truck(s)		Selected Num	per of Trucks:	2	Truck(s)
			Adjuste	d hourly true	k team production	on: 540.	.85 LCY/	Hour
					er team production			
			Adjusted multip	le truck/loade	er team production	on: <b>495.</b>	.46 LCY/	Hour
JOB TI	ME AN	D COST						
Fleet	size:	1	Team(s)	- -	Fotal job time:	25.64	<b>4</b> Hor	urs

### Task # 02B

# BULLDOZER WORK

Task description:	Orace transport	cu overburu	en on 3.5 ac lower pit f	1001	
Nichols Gravel Pit	Perr	nit Action:	05-2024	Permit/Job#:	M1981013
PROJECT IDENTIF	ICATION				
Task #: 02B	State:	Colorado		Abbreviation:	None
Date: 5/23/2024	County:	Mesa		Filename:	M013-02b
User: ACY	county.	10105u		-	11012 020
Agency or organ	nization name: DR	RMS			
HOURLY EQUIPME	<u>ENT COST</u>				
	D8T - 8SU				
Horsepower: 310					
	ni-Universal				
Attachment: NA					
	er day				
Data Source: (CF	(G)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$241.38	NA		
Operating Cost/Hour:		\$143.92	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$40.04	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$425.34 \$850.67				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>12,74</u> Swell factor: <u>1.000</u>	\$850.67 <u>ITIES</u> 05 0				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>12,74</u> Swell factor: <u>1.000</u>	\$850.67 TTIES 05				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>12,74</u> Swell factor: <u>1.000</u>	\$850.67 TTIES 05 0 05 LCY ne:Approx. 2		acres of lower pit floor		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 12,74 Swell factor: 1.004 Loose volume: 12,74 Source of estimated volum	\$850.67 TTIES 05 0 05 LCY ne: <u>Approx. 2</u> 1 factor: <u>Cat Hand</u>		acres of lower pit floor		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 12,7 Swell factor: 1.00 Loose volume: 12,7 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT	\$850.67 TTIES 05 0 05 LCY ne: <u>Approx. 2</u> 1 factor: <u>Cat Hand</u> FION		acres of lower pit floor		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 12,7/ Swell factor: 1.000 Loose volume: 12,7/ Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$850.67 TTIES 05 0 05 LCY ne: <u>Approx. 2</u> 1 factor: <u>Cat Hand</u> FION 50 feet	book	acres of lower pit floor		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 12,7 Swell factor: 1.00 Loose volume: 12,7 Source of estimated volum Source of estimated swell	\$850.67 TTIES 05 0 05 LCY ne: <u>Approx. 2</u> 1 factor: <u>Cat Hand</u> FION 50 feet	book	acres of lower pit floor		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 12,7/ Swell factor: 1.000 Loose volume: 12,7/ Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance:	\$850.67         ITIES         05         0         05 LCY         ne:       Approx. 2         1 factor:       Cat Hand         If factor:       50 feet         ction:       1,400.0 LCY	book	acres of lower pit floor		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 12,74 Swell factor: 1.004 Loose volume: 12,74 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc	\$850.67         ITIES         05         0         05 LCY         ne:       Approx. 2         1 factor:       Cat Hand         If factor:       50 feet         ction:       1,400.0 LCY	book Y/hr	acres of lower pit floor		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 12,7/ Swell factor: 1.00/ Loose volume: 12,7/ Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient:	\$850.67           TTIES           05           0           05 LCY           ne:         Approx. 2           1 factor:         Cat Hand           CION           50 feet           ction:         1,400.0 LC           ccription:         Loose s           0 %	book Y/hr	acres of lower pit floor		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 12,7 Swell factor: 1.00 Loose volume: 12,7 Source of estimated volum Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	\$850.67         ITIES         05         0         05 LCY         ne:       _Approx.2         1 factor:       Cat Hand         Construction:       _Son feet         ction:       _1,400.0 LCY         accription:       _Loose s	book Y/hr stockpile 1.2			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 12,7 Swell factor: 1.00 Loose volume: 12,7 Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	\$850.67           ITIES           05           0           05 LCY           ne:         _Approx. 2           1 factor:         Cat Hand           CION           ction:         _1,400.0 LCY           acription:         Loose s           0 %	book Y/hr stockpile 1.2 - 25% Rock,	 		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 12,7/ Swell factor: 1.000 Loose volume: 12,7/ Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	\$850.67           TTIES           05           0           05 LCY           ne:         _Approx.2           1 factor:         Cat Hand           Construction:         _Son feet           ction:         _1,400.0 LCY           acription:         _Loose s           _0 %         _5,500 feet           _2,650 lbs/LCY         _Decomposed rock           Factor	book Y/hr stockpile 1.2 - 25% Rock, 750			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 12,7/ Swell factor: 1.000 Loose volume: 12,7/ Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly produc Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S Material consistency	\$850.67         ITIES         05         005         005         005         005         005         005         005         005         005         005         005         1         1         1         0         5         0%         5,500 feet         2,650 lbs/LCY         Decomposed rock         Factor         Skill:       0.         ency:       1.	book Y/hr stockpile 1.2 - 25% Rock, 750 200	.75% Earth 		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 12,7/ Swell factor: 1.000 Loose volume: 12,7/ Source of estimated volur Source of estimated volur Source of estimated volur Source of estimated swell HOURLY PRODUCT Average push distance: Unadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator S	\$850.67         ITIES         05         05         05         05         05         05         05         05         05         05         05         05         05         1         1         0         50         1         1         0         5         0         5         0         5         0         5         0         6         0         5         0	book Y/hr stockpile 1.2 - 25% Rock, 750			

Task # 02B

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.5187	
Adjusted unit production: 72	26.18 LCY/hr	
Adjusted fleet production: 14	<b>52.36</b> LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.586/LCY

Total job time:	<b>8.75</b> Hours
Total job cost:	\$7,442

# TRUCK/LOADER TEAM WORK

Site: Nichols Gravel Pi	te: Nichols Gravel Pit Permit Action:			on: <u>05-2024</u>		Permit/Job#: <u>M</u>	1981013
PROJECT IDEN	<b>FIFICATION</b>	[					
Task #:       03A         Date:       5/23/20         User:       ACY		Colora Iesa	ado	Ab	breviation: <u>No</u> Filename: <u>M0</u>	ne 113-03a	
Agency or o	organization nar	ne: DRMS	5				
HOURLY EQUIE	MENT COST	<u>r</u>			Shift bas	is: <u>1 per day</u>	
			]	Equipment Descri	ption		
Tı	uck Loader Tea		Cat	730	•		
-Loader: CAT 9 Support Equipment -Load Area: NA				Г 966Н			
Suppo		ump Area:	NA				
Road Ma	intenance – Mot		NA				
	-W8	ter Truck:	NA				
<u>Cost Breakdown</u> :	Truck/Loa	ader Team		Support I	Equipment	Maintenan	ce Equipment
	Truck	Loader		Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	1	100	NA	NA	NA	NA
Ownership cost/hour:	\$108.06	\$65	.69	NA	NA	NA	NA
Operating cost/hour:	\$71.88	\$48	.09	NA	NA	NA	NA
%Utilization-riper:	NA		0	NA	NA	NA	NA
Ripper own. cost/hour:	NA		.00	NA	NA	NA	NA
Ripper op. cost/hour:	NA		.00	NA	NA	NA	NA
Operator cost/hour: Unit Subtotals:	\$24.82 \$204.76	\$35 \$149		NA NA	NA NA	NA NA	NA NA
Number of Units:	\$204.78	\$149	1	0	0	0	
Group Subtotals:	Work:	\$559.27	1	Support:	\$0.00	Maint:	\$0.00
Total work team cost		-		Support.	φ0.00	ivianit.	ψ0.00
MATERIAL QUA	NTITIES						
Initial volume:	9,000		CCY		factor: <u>1.215</u>		
Loose volume:	10,93	15	LCY				
	rce of estimated			sion of Reclamation	on, Mining & Safe	ety	
Source of	of estimated swe Material Purch		<u>Cat H</u> \$0.00	Handbook			
			\$0.00 \$0.00				
HOURLY PRO	DUCTION						
Truck Capacity:							
Truck Payload (weig				<b>n</b>			
Material w Descri		vil		Pounds/LCY			
Rated Pay				Pounds			
	,			LCY			

** ****		LCY				
Heaped Volume:	22.10	LCY				
Average Volume:	19.60	LCY				
Adjusted Volume:	22.10	LCY				
Fina	I Truck Volume	Based on Number of	of Loader Passes:	19.50	LCY	
Loading Tool Capacity						
			Bucl	ket Size Class: N	A	
Rated Capacity:	5.000	LCY (heaped)				
Bucket Fill Factor:	0.975			gregates (95-100%)	0.975	_
Adjusted Capacity:	4.875	LCY	i inixed monst ug	<u>51054105 (75-10070)</u>	0.975	_
· · · ·						
Job Condition Corrections			Site Altitude (ft.): <u></u>			
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HB	,		
Job Efficiency:	0.830	0.830	(CAT HB	5)		
Net Correction:	0.830	0.830				
	<b>I</b>					
Loading Tool Cycle Time:	Number	of Loading Tool Pa	asses Required to I	Fill Truck:	4	passes
	1					
Excavators and Front Shove	els:					
Excavators and Front Shove		Dating NA				
Machine Cycle Time						
Machine Cycle Time	vs. Job Condition within this Basic	c Rating: NA				
Machine Cycle Time v Selected Value Track Loaders –	vs. Job Conditior within this Basic Material Descri	c Rating: NA				
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.)	vs. Job Conditior within this Basic Material Descri	c Rating: NA				
Machine Cycle Time v Selected Value Track Loaders –	vs. Job Conditior within this Basic Material Descri	c Rating: NA		 Dump:0.100	)	
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA	vs. Job Condition within this Basic Material Descri : M	c Rating: NA		Dump: 0.100	) .500 min	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders	vs. Job Condition within this Basic Material Descri : M	c Rating: NA		Dump: 0.100	.500 min	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders Cycle Time Factors	vs. Job Condition within this Basic Material Descri :  - Unadjusted Bas	c Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle Ti	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.)	.500 min Source	utes
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> Material:	vs. Job Condition within this Basic Material Descri :  - Unadjusted Basic Material 3/4"	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 6" diameter 0.00	ime (load, dump, r	Dump: 0.100 naneuver): 0. Factor (min.) 0.000	.500 min Source (Cat HB)	utes 
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> <u>Material:</u> Stockpile:	<ul> <li>Job Condition</li> <li>within this Basic</li> <li>Material Descri</li> <li>.</li> <li>.<td>c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 6" diameter 0.00 dozer piled 10 ft. hig</td><td>ime (load, dump, r</td><td>Dump: 0.100 naneuver): 0 Factor (min.)</td><td>.500 min Source (Cat HB) (Cat HB)</td><td>utes </td></li></ul>	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 6" diameter 0.00 dozer piled 10 ft. hig	ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.)	.500 min Source (Cat HB) (Cat HB)	utes 
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: <u>NA</u> Wheel and Track Loaders <u>Cycle Time Factors</u> Material:	<ul> <li>Job Condition</li> <li>within this Basic</li> <li>Material Descri</li> <li>.</li> <li>.<td>c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and</td><td>ime (load, dump, r</td><td>Dump: 0.100 naneuver): 0. Factor (min.) 0.000 0.000</td><td>.500 min Source (Cat HB)</td><td>utes </td></li></ul>	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and	ime (load, dump, r	Dump: 0.100 naneuver): 0. Factor (min.) 0.000 0.000	.500 min Source (Cat HB)	utes 
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	<ul> <li>Job Condition</li> <li>within this Basic</li> <li>Material Descri</li> <li>M</li> <li>Unadjusted Basic</li> <li>Material 3/4"</li> <li>Conveyor or content</li> <li>Common own</li> </ul>	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 6'' diameter 0.00 lozer piled 10 ft. hig tership of trucks and ration -0.04	ime (load, dump, r	Dump: 0.100 naneuver): 0. Factor (min.) 0.000 0.000 -0.040	.500 min Source (Cat HB) (Cat HB) (Cat HB)	utes 
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	<ul> <li>Job Condition</li> <li>within this Basic</li> <li>Material Descri</li> <li>M</li> <li>Unadjusted Basic</li> <li>Material 3/4"</li> <li>Conveyor or content</li> <li>Common own</li> <li>Constant oper</li> </ul>	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 6'' diameter 0.00 lozer piled 10 ft. hig hership of trucks and ration -0.04 et 0.00 Net Cycle Ti	ime (load, dump, r ) gh and up 0.00 d loaders -0.04 me Adjustment:	Dump:0.100 naneuver):0 Factor (min.) 0.000 0.000 -0.040 -0.040	.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes 
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	<ul> <li>Job Condition</li> <li>within this Basic</li> <li>Material Descri</li> <li>M</li> <li>Unadjusted Basic</li> <li>Material 3/4"</li> <li>Conveyor or content</li> <li>Common own</li> <li>Constant oper</li> </ul>	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 6'' diameter 0.00 lozer piled 10 ft. hig hership of trucks and ration -0.04 et 0.00 Net Cycle Ti	ime (load, dump, r ) gh and up 0.00 d loaders -0.04	Dump: 0.100 naneuver): 0. Factor (min.) 0.000 -0.040 -0.040 0.000	.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	utes 
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	<ul> <li>Job Condition</li> <li>within this Basic</li> <li>Material Descri</li> <li>M</li> <li>Unadjusted Basic</li> <li>Material 3/4"</li> <li>Conveyor or content</li> <li>Common own</li> <li>Constant oper</li> </ul>	c Rating: NA ption:	ime (load, dump, r ) gh and up 0.00 d loaders -0.04 me Adjustment:	Dump: 0.100 naneuver): 0. Factor (min.) 0.000 -0.040 -0.040 0.000 -0.080	.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	utes 
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	<ul> <li>Job Condition</li> <li>within this Basic</li> <li>Material Descri</li> <li>M</li> <li>Unadjusted Basic</li> <li>Material 3/4"</li> <li>Conveyor or content</li> <li>Common own</li> <li>Constant oper</li> </ul>	c Rating: NA ption:	ime (load, dump, r ) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080 0.420	.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes 
Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	<ul> <li>/s. Job Condition within this Basic</li> <li>Material Descri</li> <li>M</li> <li>Unadjusted Basic</li> <li>Material 3/4"</li> <li>Conveyor or conveyor or conveyor or constant oper</li> <li>Nominal target</li> </ul>	c Rating: NA ption:	ime (load, dump, r ) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.000 0.000 -0.040 0.000 -0.040 0.000 -0.080 0.420 1.360	.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	
Machine Cycle Time v Selected Value 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	<ul> <li>vs. Job Condition within this Basic</li> <li>Material Descri</li> <li>M</li> <li>Unadjusted Basic</li> <li>Material 3/4"</li> <li>Conveyor or content oper</li> <li>Nominal targe</li> <li>e:0.60</li> </ul>	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load T Minutes	ime (load, dump, r ) gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck:	Dump:0.100 naneuver):0 Factor (min.) 0.000 -0.040 -0.040 -0.040 0.000 -0.080 0.420 1.360 for site altitude:	.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600	   
Machine Cycle Time v Selected Value 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	<ul> <li>ys. Job Condition within this Basic</li> <li>Material Descri</li> <li>Material Descri</li> <li>Unadjusted Basic</li> <li>Unadjusted Basic</li> <li>Material 3/4"</li> <li>Conveyor or constant oper</li> <li>Nominal targe</li> <li>e: 0.60</li> <li>e: 0.60</li> </ul>	c Rating: NA ption:	ime (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	Dump:       0.100         naneuver):       0         Factor (min.)       0.000         0.000       0.000         -0.040       0.000         -0.080       0.420         1.360       1.360	.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.600 1.360	      Minutes
Machine Cycle Time v Selected Value 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	<ul> <li>ys. Job Condition within this Basic</li> <li>Material Descri</li> <li>Material Descri</li> <li>Unadjusted Basic</li> <li>Unadjusted Basic</li> <li>Material 3/4"</li> <li>Conveyor or constant oper</li> <li>Nominal targe</li> <li>e: 0.60</li> <li>e: 0.60</li> </ul>	c Rating: NA ption: aneuver: NA sic Loader Cycle Ti to 6" diameter 0.00 dozer piled 10 ft. hig nership of trucks and ration -0.04 et 0.00 Net Cycle Ti Adjusted Load Net Load T Minutes	ime (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	Dump:0.100 naneuver):0 Factor (min.) 0.000 -0.040 -0.040 -0.040 0.000 -0.080 0.420 1.360 for site altitude:	.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes 0.600	   
Machine Cycle Time v Selected Value 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	<ul> <li>ys. Job Condition within this Basic</li> <li>Material Descri</li> <li>Material Descri</li> <li>Unadjusted Basic</li> <li>Unadjusted Basic</li> <li>Material 3/4"</li> <li>Conveyor or constant oper</li> <li>Nominal targe</li> <li>e: 0.60</li> <li>e: 0.60</li> </ul>	c Rating: NA ption:	ime (load, dump, r gh and up 0.00 d loaders -0.04 me Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted Adjusted	Dump:       0.100         naneuver):       0         Factor (min.)       0.000         0.000       0.000         -0.040       0.000         -0.080       0.420         1.360       1.360	.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.600 1.360 1.000	     Minutes 

Haul Rou								
Seg #	Haul D (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	900.00		0.00	4.00	4.00	1774	0.697	
					Haul Time:	0.697	minutes	
Return Re	oute:				=			
Seg #	Haul D (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time	
1			0.00				(min)	
1	900.00		0.00	4.00	4.00	2855	0.483	
					Return Time:	0.483	minutes	
				Total Tru	ck Cycle Time:	4.140	minutes	
	uction	596.94	LCY/Hour		Adjusted for j	ob efficiency:	495.46	_ LCY/Hour
Truck Unit Produ	uction _	282.61	LCY/Hour		Adjusted for j	ob efficiency:	234.57	_ LCY/Hour
Optimal No. of Tr	rucks:	2	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
				le truck/loade	k team productio er team productio er team productio	on: 469.	.13 LCY/H	Iour
JOB TI	ME AN	D COST						
Fleet	size:	1	Team(s)	r	Fotal job time:	23.3	l Hour	rs
Unit	cost:	\$1.192	/LCY		Total job cost:	\$13,0.	36	

Page 1 of 2

## BULLDOZER WORK

Task description:	Spread 6" to	psoil over 21 ac			
: Nichols Gravel Pit		Permit Action:	05-2024	Permit/Job#:	M1981013
PROJECT IDENTIF	<b>TICATION</b>				
Task #: 03B	Sta	te: Colorado		Abbreviation:	None
Date: $5/23/2024$				Filename:	M013-03b
User: ACY					
	nization name:	DRMS			
Agency of orga		DRWS			
HOURLY EQUIPM	<u>ENT COST</u>				
Basic Machine: Ca	t D8T - 8SU				
Horsepower: 31					
•	mi-Universal				
Attachment: NA					
	ber day				
Data Source: (C	RG)				
Cost Breakdown:					
o		*= *	<u>Utilization %</u>		
Ownership Cost/Hour:		\$241.38	NA		
Operating Cost/Hour:		\$143.92	100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00 \$40.04	0		
			NA		
Operator Cost/Hour:		\$40.04	na -		
Total unit Cost/Hour:	\$425.34	<b>ψ+0.0</b> +			
-	\$425.34 <b>\$850.67</b>	\$ <del>1</del> 0.0 <del>1</del>			
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$850.67	ψ <del>1</del> 0.0 <del>1</del>			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN	\$850.67 <u>FITIES</u>	ψτυ.υτ			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume:20,5	\$850.67 FITIES 582				
Total unit Cost/Hour: Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>20,5</u> Swell factor: <u>1.00</u>	\$850.67 FITIES 582 00				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 20,5 Swell factor: 1.00	\$850.67 FITIES 582				
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 20,5 Swell factor: 1.00 Loose volume: 20,5 Source of estimated volu	\$850.67 FITIES 582 00 582 LCY ume:6" top	psoil over 21 ac			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 20,5 Swell factor: 1.00 Loose volume: 20,5	\$850.67 FITIES 582 00 582 LCY ume:6" top				
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       20,5         Swell factor:       1.00         Loose volume:       20,5         Source of estimated volu       Source of estimated swell	\$850.67 FITIES 582 00 582 LCY Ime: <u>6" top</u> 11 factor: <u>Cat F</u>	psoil over 21 ac			
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 20,5 Swell factor: 1.00 Loose volume: 20,5 Source of estimated volu	\$850.67 FITIES 582 00 582 LCY Ime: <u>6" top</u> 11 factor: <u>Cat F</u>	psoil over 21 ac			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       20,5         Swell factor:       1.00         Loose volume:       20,5         Source of estimated volu       Source of estimated swell         HOURLY PRODUCC       100	\$850.67 FITIES 582 00 582 LCY Ime: <u>6" top</u> 11 factor: <u>Cat F</u>	psoil over 21 ac Jandbook			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       20,5         Swell factor:       1.00         Loose volume:       20,5         Source of estimated volu       Source of estimated swell	\$850.67 FITIES 582 00 582 LCY Ill factor: 6" top Cat H TION 100 fee	psoil over 21 ac Iandbook			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUAN?         Initial Volume:       20,5         Swell factor:       1.00         Loose volume:       20,5         Source of estimated volu       Source of estimated sweit         HOURLY PRODUCC       Average push distance:         Unadjusted hourly product	\$850.67         FITIES         582         500         582 LCY         ume:       6" top         11 factor:       Cat H         TION         action:       852.6 L	psoil over 21 ac Iandbook t .CY/hr			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       20,5         Swell factor:       1.00         Loose volume:       20,5         Source of estimated volu       Source of estimated swell         HOURLY PRODUC       Average push distance:         Unadjusted hourly produ       Materials consistency de	\$850.67         FITIES         582         500         582 LCY         ume:       6" top         11 factor:       Cat F         TION         action:       100 fee         852.6 L	psoil over 21 ac Iandbook			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       20,5         Swell factor:       1.00         Loose volume:       20,5         Source of estimated volu       Source of estimated swell         HOURLY PRODUC       Average push distance:         Unadjusted hourly produ       Materials consistency de         Average push gradient:       Entre State	\$850.67         FITTES         582         500         582 LCY         ume:       6" top         100 fee         It factor:       Cat F         TION         action:       852.6 L         escription:       Par         0 %	psoil over 21 ac Iandbook t .CY/hr			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       20,5         Swell factor:       1.00         Loose volume:       20,5         Source of estimated volu       Source of estimated swell         HOURLY PRODUC       Average push distance:         Unadjusted hourly produ       Materials consistency de	\$850.67         FITIES         582         500         582 LCY         ume:       6" top         11 factor:       Cat F         TION         action:       100 fee         852.6 L	psoil over 21 ac Iandbook t .CY/hr			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       20,5         Swell factor:       1.00         Loose volume:       20,5         Source of estimated volu       Source of estimated swell         HOURLY PRODUC       Average push distance:         Unadjusted hourly produ       Materials consistency de         Average push gradient:       Entre State	\$850.67         FITTES         582         500         582 LCY         ume:       6" top         100 fee         It factor:       Cat F         TION         action:       852.6 L         escription:       Par         0 %	psoil over 21 ac landbook t .CY/hr tly consolidated			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANT         Initial Volume:       20,5         Swell factor:       1.00         Loose volume:       20,5         Source of estimated volu       Source of estimated swell         HOURLY PRODUC       Average push distance:         Unadjusted hourly produ       Materials consistency de         Average push gradient:       Average site altitude:	\$850.67         FITIES         582         500         582 LCY         ume:       6" top         100 fee         Cat F         TION         action:       852.6 L         escription:       Par         0 %       5,500 feet	psoil over 21 ac landbook t .CY/hr tly consolidated			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANY         Initial Volume:       20,5         Swell factor:       1.00         Loose volume:       20,5         Source of estimated volu       Source of estimated swell         HOURLY PRODUC         Average push distance:         Unadjusted hourly produ         Materials consistency de         Average site altitude:         Material weight:         Weight description:	\$850.67         FITIES         582         500         582 LCY         ime:       6" top         100 fee         Cat F         TION         action:       852.6 L         excription:       Par         0 %       5,500 feet         1,600 lbs/LCY         Top Soil	psoil over 21 ac landbook t .CY/hr tly consolidated			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANY         Initial Volume:       20,5         Swell factor:       1.00         Loose volume:       20,5         Source of estimated volu       Source of estimated swell         HOURLY PRODUC         Average push distance:         Unadjusted hourly produ         Materials consistency de         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction	\$850.67         FITIES         582         500         582 LCY         ume:       6" top         582 LCY         ume:       6" top         11 factor:       Cat F         TION         action:       852.6 L         excription:       Par         0 %       5,500 feet         1,600 lbs/LCY       Top Soil         n Factor       100 feet	psoil over 21 ac Iandbook t .CY/hr tly consolidated			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANY         Initial Volume:       20,5         Swell factor:       1.00         Loose volume:       20,5         Source of estimated volu       Source of estimated swell         HOURLY PRODUC         Average push distance:         Unadjusted hourly produ         Materials consistency de         Average push gradient:         Average site altitude:         Material weight:         Weight description:         Job Condition Correction         Operator	\$850.67         FITIES         582         500         582 LCY         ume:       6" top         100 fee         TION         action:       100 fee         scription:       Par         0 %       5,500 feet         1,600 lbs/LCY       Top Soil         n Factor       Skill:	psoil over 21 ac Iandbook t .CY/hr tly consolidated			
Total unit Cost/Hour:         Total Fleet Cost/Hour:         MATERIAL QUANY         Initial Volume:       20,5         Swell factor:       1.00         Loose volume:       20,5         Source of estimated volu       Source of estimated swell         HOURLY PRODUC       Average push distance:         Unadjusted hourly produ       Materials consistency de         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Job Condition Correction	\$850.67         FITIES         582         500         582 LCY         ume:       6" top         100 fee         11 factor:       Cat F         TION         action:       100 fee         action:       852.6 L         scription:       Par         0 %       5,500 feet         1,600 lbs/LCY       Top Soil         n Factor       Skill:         tency:	psoil over 21 ac Iandbook t .CY/hr tly consolidated			

Task # 03B

Job efficience	ey: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradier	nt: 1.000	(CAT HB)
Altitud	le: 1.000	(CAT HB)
Material Weigl	ht: 1.438	(CAT HB)
Blade typ	be: 1.000	(PAT)
Net correction	on:0.7877	
Adjusted unit production:	671.59 LCY/hr	
Adjusted fleet production:	1343.18 LCY/hr	

Fleet size:	2 Dozer(s)
Unit cost:	\$0.633/LCY

Total job time:	<b>15.32</b> Hours
Total job cost:	\$13,035

# **REVEGETATION WORK**

Task description:		Reveg 9.5 ac pit floor to past	ure alfalfa		
Site: Nichols	Gravel Pit	Permit Action:	05-2024	Permit/Jol	o#: <u>M1981013</u>
<u>PROJECT</u> Task #:				Abbreviation:	None
Date: User:	05A 5/23/2024 ACY	State:         Colorado           County:         Mesa		Filename:	None M013-05a

## **FERTILIZING**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
8-24-24, 10-15-15, 10-20-20	100.00	pound	\$0.60	\$60.33
			Total Fertilizer Materials	<b>A</b> (0.00
			Cost/Acre	\$60.33

#### **Application**

Description		Cost /Acre
Push rotary spreader (MEANS 32 01 90.13 0110)		\$117.61
	Total Fertilizer Application Cost/Acre	\$117.61

## **TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$112.82

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alfalfa - Golden West Blend	10.00	48.21	\$25.50
Totals Seed Mix	10.00	48.21	\$25.50

### **Application**

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

## **MULCHING and MISCELLANEOUS**

#### Materials

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

#### Application

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

### NURSERY STOCK PLANTING

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

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	30%	 LCHING	Cost /Acre: Cost /Acre*:	
Initial Job Cost: Reseeding Job Cost: Total Job Cost: Job Hours:	\$4,006.90 \$20,125				

## **REVEGETATION WORK**

Task desc	iption:	Reveg on 16.5 ac pit slopes			
ite: Nichols Gravel Pit		Permit Action:	05-2024	Permit/Jol	o#: <u>M1981013</u>
	<u>r identific</u>				Nana
Task # Date		State: <u>Colorado</u> County: Mesa		Abbreviation: Filename:	None M013-06a
User		County:			11012 000

## **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)	\$112.82
Total Tilling Cost/Acre	\$112.82

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	3.00	9.71	\$19.50
Sand Dropseed	0.10	11.94	\$0.98
Sainfoin - Eski	1.00	0.44	\$2.98
Western Wheatgrass - Native	8.00	20.20	\$48.00
Totals Seed Mix	12.10	42.29	\$71.45

### 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	1.00	ACRE	\$4.01	\$4.01
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$863.58

#### Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
	<b>Total Mulch Application Cost/Acre</b>	\$210.39

## NURSERY STOCK PLANTING

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

Estimate	No. of Acres: ed Failure Rate:		Cost /Acre: Cost /Acre*:	
		SEEDING,MULC		φ1,+12.0+
Initial Job Cost:	\$25,170.09			
Reseeding Job Cost:	\$6,992.57			
Total Job Cost:	\$32,163			
Job Hours:	24.00			

# **REVEGETATION WORK**

Task descri	ption:	Reveg on 1 ac PJ			
Site: Nichols Gravel Pit		Permit Action:	05-2024	Permit/Job	#: <u>M1981013</u>
PROJECT	IDENTIFIC	CATION			
Task #:	06B	State: Colorado		Abbreviation:	None
Date:	5/23/2024	County: Mesa		Filename:	M013-06a
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 Cos	t/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
			\$
Totals Seed Mix	0.00	0.00	\$0.00

## Application

Description	Cost /Acre
	\$

#### **Total Seed Application Cost/Acre**

\$0.00

## **MULCHING and MISCELLANEOUS**

#### Materials

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

### Application

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

### **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Juniper, Rocky Mountain	48	Container, 1 gallon (MEANS)	\$24.20	\$2.40	\$1,161.60
Pine, Pinyon	48	Container, 1 gallon (MEANS)	\$26.72	\$2.40	\$1,282.56
Totals Nursery Stock Cost / Acre					\$2,444.16

No. of Acres:	1	Cost /Acre:	\$2,444.16
Estimated Failure Rate:	40%	Cost /Acre*:	\$2,444.16
*Selected Replanting Work Items:	NURSERY		

Initial Job Cost:	\$2,444.16
Reseeding Job Cost:	\$977.66
Total Job Cost:	\$3,422
Job Hours:	10.00

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descriptio	n: <b>Ini</b>	tial Mobilization					
Nichols Gra	vel Pit	Permit	Action: <u>05-20</u>	024	1	Permit/Job#: <u>M</u>	1981013
PROJECT ID	ENTIFICATI	<u>ION</u>					
Date: 5	7A /23/2024 ACY		esa			eviation: <u>None</u> llename: <u>M013</u>	-07a
Agenc	y or organization	n name: DRMS					
EQUIPMENT	TRANSPOR	<u>T RIG COST</u>					
Tru	ick Tractor Desc	cription: GENE	RIC ON-HIGH	WAY TRU	Shift ba Cost Data Sour JCK TRACTO (2ND HALF,	rce: <u>CRG Da</u> DR, 6X4, DIESEL	ta
	uck Trailer Desc	cription: G		ING GOO		ROP DECK EQUI	IPMENT
Cost Breakdown Available Rig		0-25 Tons	26-50 Tons	51+	- Tons		
	nip Cost/Hour:	\$20.26	\$36.04		47.05		
	ng Cost/Hour:	\$39.51	\$76.08		32.85		
	tor Cost/Hour:	\$22.52	\$22.52		22.52		
	er Cost/Hour:	\$0.00	\$23.53		23.53		
	nit Cost/Hour:	\$82.29	\$158.17		75.95		
NON ROADA	BLE EQUIP	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/uni t	Size	Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Cat D8T - 8SU	47.71	\$241.38	\$158.17	2	\$799.10	\$316.34	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher		¢25.04	\$82.29	1	\$108.23	\$82.29	
(Bowie LD-90)	6.00	\$25.94		1			\$250.00
	6.00 25.80 25.19	\$25.94 \$65.69 \$108.06	\$82.29 \$82.29 \$82.29	1 2	\$108.25 \$147.98 \$380.70	\$82.29 \$82.29 \$164.58	\$250.00 \$250.00 \$500.00

Subtotals: \$1,525.03 \$727.79 \$1,500.00

## **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 30K GVW	\$64.45	1	\$64.45	\$64.45
Light Duty Pickup, 4x4, 1 T.	\$128.47	2	\$256.94	\$256.94
Crew				
		Subtotals:	\$321.39	\$321.39

### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	25.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$8,866.09 \$401.74	_

#### Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.63	0.63
Return Time (Hours):	0.63	0.63
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.25	1.25

#### JOB TIME AND COST

Total job time:	4.50	Hours	

Total job cost: \$9,268

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descrip	tion: Sec	ondary Mobiliza	tion				
Nichols G	ravel Pit	Permit	Action: 05-20	024		Permit/Job#:	M1981013
PROJECT	IDENTIFICATI	ON					
Task #:	07B	State: Co	olorado		Abbro	eviation: 1	None
Date:	5/23/2024	County: M	esa		Fi	ilename:	M013-07b
User:	ACY						
Age	ency or organization	n name: DRMS					
EQUIPMEN	NT TRANSPOR	T RIG COST					
					Shift ba	usis: 1 r	ber day
				(	Cost Data Sou		G Data
-	Email: Treator Daga	rintian. CENE	DIC ON LUCH				ESEL DOWEDED
1	Fruck Tractor Desc	ripuon: GENE	KIC UN-HIGH		(2ND HALF,		ESEL POWERED,
	Truck Trailer Desc	ription G	ENERIC FOLI		· · · · ·	<i>(</i>	FOLIPMENT
	Truck Tranci Dese				(25T, 50T, Al		
					(,,,,		
Cost Breakdov	wn:						
	kig Capacities	0-25 Tons	26-50 Tons		Tons		
	ership Cost/Hour:	\$20.26	\$36.04		7.05		
	ating Cost/Hour:	\$39.51	\$76.08		2.85		
	erator Cost/Hour:	\$22.52	\$22.52		2.52		
	elper Cost/Hour:	\$0.00	\$23.53		3.53		
Total	Unit Cost/Hour:	\$82.29	\$158.17	\$1	75.95		
NON ROAL	DABLE EQUIPN	MENT:					
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Tr	ip DOT Permit
Description		Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fl	
Description	(TONS)		t	5120	fleet		
Drill/Broadca	· · · · · ·	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Seeder with		40110	+ • • • • • • • • • • • • • • • • • • •	-	+	, , , , , , , , , , , , , , , , , , ,	<b>+=-------------</b>
Tractor							
Power Mulch		\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00
(Bowie LD-9	0)						
				Subtotals:	\$197.25	\$164.	58 \$500.00
				Subtotals:	\$197 <b>.</b> 25	\$104.	50 \$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	\$128.47	2	\$256.94	\$256.94
		Subtotals:	\$256.94	\$256.94

### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	25.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,846.79 \$321.18	_

#### Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.63	0.63
Return Time (Hours):	0.63	0.63
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.25	1.25

#### JOB TIME AND COST

Total job time: **4.50** Hours

Total job cost: \$2,168