

August 18, 2023

Baxter W. Kirkland Midway Aggregates, RLLP P.O. Box 580 Rye, CO 81069

Re: Midway Pit - File No. M-1988-018; Technical Revision (TR-4) Adequacy Notice and Bond Review

Dear Mr. Kirkland:

The Division of Reclamation, Mining and Safety (DRMS) received responses to our June 14th adequacy review letter from Telesto on August 11, 2023. The responses were adequate. The DRMS generated an updated reclamation cost estimate based on the original submittal and the responses from Telesto. The resulting bond estimate is a significant increase over the \$62,260 bond we currently hold. The increase is primarily a result of increasing the bonded area by roughly 10 percent, combined with increases in material and equipment unit costs. There is one new task for hauling the estimated 350 CY of stockpiled asphalt and concrete offsite. The DRMS assumed it would be hauled to the nearby Midway landfill, thus reducing haul costs.

I have attached a copy of the updated bond estimate. Please review it. This Technical Revision (TR-4) is open until September 5th. If you would like to make additional changes to the mine or reclamation plans, it could be done under this TR.

Please remember that the extended decision date for this application is September 5, 2023. If we do hear from you before the current decision date, we will assume you accept the new bond estimate, and we will approve this TR and issue a surety increase. Please contact me at (303) 328-5229 with any questions.

Sincerely,

Timothy A. Cazier, P.E. Environmental Protection Specialist

Enclosure: Revised Bond Estimate

ec: Michael Cunningham, DRMS DRMS file Tim Gerken, Telesto



Physical Address: 1313 Sherman Street, Room 215, Denver, CO 80203 P 303.866.3567 F 303.832.8106 Mailing Address: DRMS Room 215, 1001 E 62nd Ave, Denver, CO 80216 <u>https://drms.colorado.gov</u> Jared S. Polis, <u>Governor J</u> Dan Gibbs, Executive Director | Virginia Brannon, Director

COST SUMMARY WORK

Task description:		Cost Summary	(updated)					
Site:	Midway 1	Pit	Pe	rmit Action:	TR-4	Permit/Jol	o#: <u>M1988018</u>	
<u>P</u> I	ROJECT	IDENTIFIC	CATION					
	Task #:	000	State:	Colorado		Abbreviation:	None	
	Date:	8/17/2023	County:	El Paso		Filename:	Yes	
	User:	TC1						
	Age	ency or organi	zation name:	RMS				

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill 3 Ponds	DOZER	1	12.55	\$5,534
0011	Remove all asphalt and concrete materials to LF	TRUCK1	1	1.34	\$516
002	Knockdown Near Vert. West Highwalls	DOZER	1	0.92	\$405
003	Knockdown Northside Highwalls	DOZER	1	0.89	\$394
004	Place 3" Topsoil on Disturbed Area (32.5 acres)	SCRAPER1	1	42.17	\$28,423
06A	Reveg using seed drill (R1): 31.5 acres	REVEGE	1	36.00	\$69,045
06B	Reveg using broadcast method	REVEGE	1	4.00	\$2,092
070	Mob/Demob (revised)	MOBILIZE	1	2.84	\$4,341
		<u>SUBTC</u>	DTALS:	100.71	\$110,750

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$2,237
Performance bond:	1.05	Total =	\$1,163
Job superintendent:	50.35	Total =	\$3,277
Profit:	10.00	Total =	\$11,075
		TOTAL O & P =	\$17,752
		CONTRACT AMOUNT (direct + O & P) = $\frac{1}{2}$	\$128,502

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	\$0 4.25 5.00	Total = Total =	\$0 \$5,461 \$6,425
CONTINGENCY:	0.00	Total =	\$0
	TOTAL IN	DIRECT COST =	\$29,638
TOTAL BO	ND AMOUNT (d	irect + indirect) =	\$140,388

Page 1 of 2

BULLDOZER WORK

Midway Pit	D 14 A 41	TD 4	D '//	L.H. MI100001
	Permit Action:	1R-4	Permit/Jo	b#: <u>M198801</u>
ROJECT IDENTIFI	CATION			
Task #: 001	State: Colorado		Abbreviation:	None
Date: $\frac{8}{17/2023}$			Filename:	X
User: TC1				
	mization nome: DBMS			
Agency or orga	nization name: DRMS			
IOURLY EQUIPME	NT COST			
Basic Machine: Ca	tt D9T - 9SU			
Horsepower: 40	5			
Blade Type: Se	mi-Universal			
Attachment: NA	ł			
Shift Basis: 1 p	ber day			
1	RG)			
ost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$238.76	NA		
Operating Cost/Hour:	\$162.29	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$40.04	NA		
Fotal Fleet Cost/Hour:		_		
Initial Volume: 14, Swell factor: 1.12 Loose volume: 16,	25			
Swell factor: 1.12 Loose volume: 16,4	25 599 LCY			
Swell factor: 1.12	25 599 LCY ume: See spread sheets - assu	ıme 12 ft depth		
Swell factor: 1.12 Loose volume: 16, Source of estimated vol Source of estimated swe	25 599 LCY ume: See spread sheets - assu ell Cat Handbook	ıme 12 ft depth		
Swell factor: 1.12 Loose volume: 16,5 Source of estimated vol Source of estimated swe factor: IOURLY PRODUCT Average push distance:	25 599 LCY ume: See spread sheets - assu ell Cat Handbook <u>FION</u> 75 feet	<u>ume 12 ft depth</u>		
Swell factor: 1.12 Loose volume: 16,5 Source of estimated vol Source of estimated swe factor:	25 599 LCY ume: See spread sheets - assu ell Cat Handbook <u>FION</u>	<u>ume 12 ft depth</u>		
Swell factor: 1.12 Loose volume: 16,5 Source of estimated vol Source of estimated swe factor: IOURLY PRODUCT Average push distance: Unadjusted hourly	25 599 LCY ume: See spread sheets - assu Cat Handbook <u>CION</u> <u>75 feet</u> 1,514.3 LCY/hr			
Swell factor: 1.12 Loose volume: 16,4 Source of estimated vol Source of estimated swe factor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de	25 599 LCY ume: See spread sheets - assu Cat Handbook <u>75 feet</u> 1,514.3 LCY/hr escription: Partly consolidated st			
Swell factor: 1.12 Loose volume: 16,4 Source of estimated vol Source of estimated swell Source of estimated swell Source factor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency defined Average push Instance:	25 599 LCY ume: See spread sheets - assu Cat Handbook <u>CION</u> <u>75 feet</u> 1,514.3 LCY/hr			
Swell factor: 1.12 Loose volume: 16,4 Source of estimated vol Source of estimated swe factor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de	25 599 LCY ume: See spread sheets - assu Cat Handbook <u>75 feet</u> 1,514.3 LCY/hr escription: Partly consolidated st			
Swell factor: 1.12 Loose volume: 16,5 Source of estimated vol Source of estimated swe factor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency de Average push gradient:	25 599 LCY ume: See spread sheets - assu Cat Handbook <u>75 feet</u> 1,514.3 LCY/hr escription: Partly consolidated st -10 %			
Swell factor: 1.12 Loose volume: 16,5 Source of estimated vol Source of estimated swe Source of estimated swe factor: IOURLY PRODUCT Average push distance: Unadjusted hourly production: Materials consistency defaulter: Average push gradient: Average site altitude:	25 599 LCY ume: See spread sheets - assu Cat Handbook <u>75 feet</u> 1,514.3 LCY/hr escription: Partly consolidated st -10 % <u>5,400 feet</u>	tockpile 1.1		

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8737

Adjusted unit production:	1,323.04 LCY/hr			
Adjusted fleet production:	1323.04 LCY/hr			

Fleet size:	1 Dozer(s)
Unit cost:	\$0.333/LCY

Total job time:	12.55 Hours
Total job cost:	\$5,534

Permit/Job#: M1988018

TRUCK/LOADER TEAM WORK

Remove all asphalt and concrete materials to LF

Permit Action: TR-4

Task description:

Site: Midway Pit

PROJECT IDEN		-						
Task #: 0011			Colora		Ab		lone	
Date: $\frac{8}{17/2}$	2023	County:	El Pas	0		Filename: N	1018-0011	
User: <u>TC1</u>								
Agency or	organization nar	ne: DRM	S					
HOURLY EQUI	PMENT COS	Г			Shift bas	sis: <u>1 per day</u>		
<u>HOURLI LQUI</u>		<u>-</u>	1	Equipment Descri		ns. <u>1 per day</u>		
Т	ruck Loader Tea	m -Truck:		eric 8-10 cy, 6x4	ption			
-		-Loader:		Г 928Hz				
Supp	ort Equipment -I		NA					
		ump Area:	NA					
Road M	aintenance – Mot		NA NA					
	- W 8	ater Truck:	NA					
Cost Breakdown:	Truck/Lo	ader Team		Support 1	Equipment	Maintena	ance Equipme	ent
	Truck	Loader		Load Area	Dump Area	Motor Grader		
%Utilization-machine:	100		100	NA	NA	NA		NA
Ownership cost/hour:	\$16.85	\$4	7.37	NA	NA	NA		NA
Operating cost/hour:	\$49.69	\$34	4.52	NA	NA	NA		NA
%Utilization-riper:	NA		0	NA	NA	NA		NA
Ripper own. cost/hour:	NA	\$	0.00	NA	NA	NA		NA
Ripper op. cost/hour:	NA	\$	0.00	NA	NA	NA		NA
Operator cost/hour:	\$0.00	\$3	5.97	NA	NA	NA		NA
Unit Subtotals:	\$66.54	\$11	7.86	NA	NA	NA		NA
Number of Units:	4		1	0	0	0)	(
Group Subtotals:	Work:	\$384.02		Support:	\$0.00	Maint	\$0.00	
Total work team cos <u>MATERIAL QU</u> Initial volume: Loose volume:	ANTITIES 350		CCY LCY	Swell	factor: <u>1.000</u>			
So	urce of estimated of estimated swo Material Purch	l volume:	TR-4	landbook	Truck to Midway I	LF		
<u>HOURLY PRO</u> <u>Truck Capacity:</u>	DUCTION							
<u>Truck Payload (weig</u> Material w Descr	veight: 2,700	- crushed		Pounds/LCY				
Rated Pa				Pounds				
Payload Cap				LCY				
				201				

Truck Bed (volume) Basis:						
Struck Volume:	8.00	LCY				
Heaped Volume:	10.00	LCY				
Average Volume:	9.00	LCY				
Adjusted Volume:	10.00	LCY				
Final	Truck Volume	e Based on Number	of Loader Passes:	8.10	LCY	
Loading Tool Capacity						
			Buc	ket Size Class: <u>N</u>	IA	
Rated Capacity:	3.000	LCY (heaped)			
Bucket Fill Factor:	0.900	Other - cemer	nted materials (85	- 95%) 0.900		_
Adjusted Capacity:	2.700	LCY				
Job Condition Corrections:			Site Altitude (ft.): <u>:</u>	5 <u>400</u> feet		
	Truck	Loader	Source			
Altitude Adj:	1.000	1.000	(CAT HE			
Job Efficiency:	0.830	0.830	(CAT HE	3)		
Net Correction:	0.830	0.830				
Net Collection.	0.030	0.030				
<u>Loading Tool Cycle Time:</u> <u>Excavators and Front Shovels</u> Machine Cycle Time vs Selected Value w	<u>s:</u> s. Job Conditic		Passes Required to	Fill Truck:	3 1	basses
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – N	<u>s:</u> 5. Job Conditic vithin this Bas	on Rating: <u>NA</u> ic Rating: <u>NA</u>	Passes Required to	Fill Truck:	3	passes
Excavators and Front Shovels Machine Cycle Time vs Selected Value w	<u>s:</u> 5. Job Conditic vithin this Bas Material Descr	on Rating: <u>NA</u> ic Rating: <u>NA</u>	Passes Required to	Fill Truck:		passes
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – M Cycle Time Elements (min.):	<u>s:</u> Job Conditic vithin this Bas Material Descr Material Descr	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u>		 Dump:0.100		
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – M Cycle Time Elements (min.): Load: <u>NA</u>	<u>s:</u> Job Conditic vithin this Bas Material Descr Material Descr	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u>		 Dump:0.100	0	
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – M Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	<u>s:</u> Job Conditic vithin this Bas Material Descr Material Descr Material Descr Material Descr Mixed mater	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle T		Dump: 0.100 naneuver):0 Factor (min.) 0.020	0 min	
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – M Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - Cycle Time Factors Material: Stockpile:	s: Job Conditic vithin this Bas Material Descr Material Descr N Unadjusted Ba Mixed mater Dumped by t	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle T rial 0.02 truck 0.02	`ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.020	0 0.475 min Source	
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – M Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - 1 Cycle Time Factors Material: Stockpile: Truck Ownership:	s: Job Conditic vithin this Bas Material Descr N Unadjusted Ba <u>Mixed mater</u> Dumped by t Common ow	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle T rial 0.02 truck 0.02 mership of trucks ar	`ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.020 -0.040	0 0.475 min Source (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – M Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - 1 Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s: Job Condition vithin this Bas Material Descr Material Descr Mixed Ba Mixed mater Dumped by to Common ow Constant ope	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle 7 rial 0.02 truck 0.02 mership of trucks ar eration -0.04	`ime (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040	0 0.475 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – M Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - 1 Cycle Time Factors Material: Stockpile: Truck Ownership:	s: Job Conditic vithin this Bas Material Descr N Unadjusted Ba <u>Mixed mater</u> Dumped by t Common ow	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle 7 rial 0.02 truck 0.02 mership of trucks ar eration -0.04 get 0.00	Time (load, dump, r	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000	0 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – M Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - 1 Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s: Job Condition vithin this Bas Material Descr Material Descr Mixed Ba Mixed mater Dumped by to Common ow Constant ope	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u>NA</u> asic Loader Cycle T rial 0.02 truck 0.02 vnership of trucks ar eration -0.04 get 0.00 Net Cycle T	Time (load, dump, r nd loaders -0.04 ime Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000 -0.040	0 .475 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – N Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - 1 Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s: Job Condition vithin this Bas Material Descr Material Descr Mixed Ba Mixed mater Dumped by to Common ow Constant ope	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u>NA</u> asic Loader Cycle T rial 0.02 truck 0.02 /nership of trucks ar eration -0.04 get 0.00 Net Cycle T Adjusted Loa	Time (load, dump, r nd loaders -0.04 ime Adjustment: ader Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000 -0.040 0.000 0.435	0 Source (Cat HB) (Cat HB)	
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – N Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - 1 Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s: Job Condition vithin this Bas Material Descr Material Descr Mixed Ba Mixed mater Dumped by to Common ow Constant ope	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u>NA</u> asic Loader Cycle T rial 0.02 truck 0.02 /nership of trucks ar eration -0.04 get 0.00 Net Cycle T Adjusted Loa	Time (load, dump, r nd loaders -0.04 ime Adjustment:	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000 -0.040	0 .475 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – M Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - 1 Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s: Job Condition vithin this Bas Material Descr Material Descr Mixed Ba Mixed mater Dumped by to Common ow Constant ope	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u>NA</u> asic Loader Cycle T rial 0.02 truck 0.02 /nership of trucks ar eration -0.04 get 0.00 Net Cycle T Adjusted Loa	Time (load, dump, r nd loaders -0.04 ime Adjustment: ader Cycle Time:	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000 -0.040 0.000 0.435	0 Source (Cat HB) (Cat HB)	
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – N Cycle Time Elements (min.): Load: NA Wheel and Track Loaders - N Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s: Job Condition vithin this Bas Material Description Material Description Nunadjusted Ba Mixed mater Dumped by the Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle T rial 0.02 truck 0.02 mership of trucks an eration -0.04 get 0.00 Net Cycle T Adjusted Loa Net Load Minutes	Time (load, dump, r nd loaders -0.04 ime Adjustment: nder Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000 -0.040 0.435 0.970 for site altitude:	0 .475 minutes (Cat HB) (Cat HB)	utes
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – N Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	s: Job Condition vithin this Bas Material Description Material Description Nunadjusted Ba Mixed mater Dumped by the Common ow Constant ope Nominal targ	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: <u></u> Maneuver: <u>NA</u> asic Loader Cycle T rial 0.02 truck 0.02 /nership of trucks an eration -0.04 get 0.00 Net Cycle T Adjusted Loa Net Load	Time (load, dump, r nd loaders -0.04 ime Adjustment: nder Cycle Time: Time per Truck:	Dump: 0.100 naneuver): 0 Factor (min.) 0.020 0.020 -0.040 -0.040 0.000 -0.040 0.000 -0.040 0.035 0.970	0 Source (Cat HB) (Cat	

Task # 0011

Truck Travel (Haul & Return) Time: maintained 3.0 Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered,

_	Haul Rou									
	Seg #	Haul (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)		
	1	5280	.00	1.00	3.00	4.00	2665	2.081		
	D (D					Haul Time:	2.081	minu	ıtes	
	Return Ro		Distance	$C_{\rm res} = \frac{1}{\sqrt{2}} \left(\frac{1}{\sqrt{2}} \right)$	Roll. Res	Total Res	Valasia.	Travel		
	Seg #	(Ft)	Distance	Grade (%)	(%)	(%)	Velocity (fpm)	Time (min)		
	1	5280	.00	-1.00	3.00	2.00	2905	1.846		
					T (1 T		1.846		nutes	
					Total Tru	ck Cycle Time:	6.197	mii	nutes	
	oading Too Produ	iction	330.61	LCY/Hour		Adjusted for j	ob efficiency:	274.4	41 LCY/Hour	
Truck	Unit Produ	iction	78.43	LCY/Hour		Adjusted for j	ob efficiency:	65.0	9 LCY/Hour	
Optima	l No. of Tr	ucks:	4	Truck(s)		Selected Num	ber of Trucks:	4	Truck(s)	
				Adjuste	d hourly true	k team production	on: 260.	.37 I	LCY/Hour	
						er team production			LCY/Hour	
				Adjusted multip	le truck/loade	er team production	on: 260.	.37 I	LCY/Hour	
	JOB TIM	ME A	ND COST							
	Fleet	size:	1	Team(s)]	Fotal job time:	1.34	ļ	Hours	
	Unit	cost: _	\$1.475	/LCY	,	Total job cost:	\$516	<u>ó</u>		

BULLDOZER WORK

Task description:	Knockdown	Near Vert. West	: Highwalls		
Midway Pit		Permit Action:	TR-4	Permit/Job#:	M1988018
PROJECT IDENTIF	ICATION				
Task #: 002 Date: 8/17/2023 User: TC1	Sta	ate: <u>Colorado</u> nty: <u>El Paso</u>		Abbreviation: Filename:	None Y
Agency or organ	nization name:	DRMS			
HOURLY EQUIPME	ENT COST				
	t D9T - 9SU		_		
Horsepower: 405 Blade Type: Ser	ni-Universal				
Attachment: NA					
	er day				
	RG)		_		
	-,				
Cost Breakdown:		I	T 14:1:4: 0/		
Ownership Cost/Hour:		\$238.76	<u>Utilization %</u> NA		
Ownership Cost/Hour: Operating Cost/Hour:		\$238.76	<u> </u>		
Ripper own. Cost/Hour:		\$162.29	NA		
Ripper op. Cost/Hour:		\$0.00	0		
		\$40.04	NA		
Operator Cost/Hour:					
Operator Cost/Hour: Fotal unit Cost/Hour: Fotal Fleet Cost/Hour:	\$441.09 \$441.09				
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>1,86</u> Swell factor: <u>1.12</u>	\$441.09 <u>SITIES</u> 54 54				
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>1,86</u> Swell factor: <u>1.12</u>	\$441.09 FITIES 64				
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>1,86</u> Swell factor: <u>1.12</u>	\$441.09 <u>SITIES</u> 4 5 7 LCY me: <u>See 1</u>		ets - assume 10 ft height		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,86 Swell factor: 1.12 Loose volume: 2,09 Source of estimated volum	\$441.09 FITIES 64 55 77 LCY me: See 1 1 factor: Cat 1	revised spreadshee			
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,86 Swell factor: 1.12 Loose volume: 2,09 Source of estimated volu Source of estimated swell HOURLY PRODUCT	\$441.09 FITIES 64 55 77 LCY me: See 1 1 factor: Cat 1	revised spreadshee Handbook			
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,86 Swell factor: 1.12 Loose volume: 2,09 Source of estimated volu Source of estimated swell	\$441.09 FITIES 64 55 77 LCY me: See 1 1 factor: Cat 1 FION 50 feet	revised spreadshee Handbook			
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,86 Swell factor: 1.12 Loose volume: 2,09 Source of estimated volu Source of estimated swell HOURLY PRODUCT Average push distance:	\$441.09 FITIES 64 55 97 LCY me: See 1 1 factor: Cat 1 FION ction: 2,110.5	revised spreadshee Handbook	 ets - assume 10 ft height 		
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Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,86 Swell factor: 1.12 Loose volume: 2,09 Source of estimated volut Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Materials consistency des Average push gradient: Average site altitude:	\$441.09 \$1711ES \$44 \$5 \$71CY me: See 1 1 factor: Cat 1 TION ction: 2,110.5 scription: Pa -25 % 5,400 feet 2,650 lbs/LCY	revised spreadshea Handbook 5 LCY/hr rtly consolidated	ets - assume 10 ft height		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,86 Swell factor: 1.12 Loose volume: 2,09 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	\$441.09 FITIES 64 55 77 LCY me: See 1 1 factor: Cat 1 FION ction: 2,110.5 scription: Pa -25 % 5,400 feet 2,650 lbs/LCY Decomposed	revised spreadshea Handbook	 ets - assume 10 ft height stockpile 1.1 75% Earth		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,86 Swell factor: 1.12 Loose volume: 2,09 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Tob Condition Correction	\$441.09 FITIES 64 55 77 LCY me: See 1 1 factor: Cat 1 FION ction: 2,110.5 scription: Pa -25 % 5,400 feet 2,650 lbs/LCY Decomposed n Factor Factor	revised spreadshea Handbook	ets - assume 10 ft height		
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,86 Swell factor: 1.12 Loose volume: 2,09 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	\$441.09 STITIES 64 55 77 LCY me: See 1 1 factor: Cat 1 TION ction: 2,110.5 scription: Pa -25 % 5,400 feet _2,650 lbs/LC Decomposed n Factor Skill:	revised spreadshea Handbook 5 LCY/hr rtly consolidated s Y rock - 25% Rock,			
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour: Fotal Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,86 Swell factor: 1.12 Loose volume: 2,09 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Ob Condition Correction Operator	\$441.09 \$1711ES \$4 \$5 \$7 LCY me: See 1 1 factor: Cat 1 FION ction: 50 feet \$2,110.5 scription: Pa -25 % 5,400 feet \$2,650 lbs/LCY Decomposed \$4,000 feet 1000000000000000000000000000000000000	revised spreadshea Handbook 5 LCY/hr rtly consolidated Y rock - 25% Rock, 0.750			

Job efficiency	0.830	(1 SHIFT/DAY)
Spoil pile	1.000	(DOZ-OC)
Push gradient	1.516	(CAT HB)
Altitude	1.000	(CAT HB)
Material Weight	0.868	(CAT HB)
Blade type	1.000	(PAT)
Net correction	: 1.0813	
Adjusted unit production:	2,282.08 LCY/hr	
Adjusted fleet production:	2282.08 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.193/LCY

Total job time:	0.92 Hours
Total job cost:	\$405

BULLDOZER WORK

	Knockdown No	rthside High	walls		
Midway Pit	Pe	rmit Action:	TR-4	Permit/Job#:	M1988018
PROJECT IDENTI	FICATION				
Task #: 003	State:	Colorado		Abbreviation:	None
Date: $\frac{8/17/202}{2}$				Filename:	Z
User: TC1			_		
Agency or org	ganization name:	RMS			
HOURLY EQUIPM	<u>IENT COST</u>				
	Cat D9T - 9SU				
1	05		_		
<i>v</i> 1	Semi-Universal				
	NA non day		_		
	per day CRG)				
Data Source. (CKU)				
Cost Breakdown:					
·			Utilization %		
Ownership Cost/Hour		\$238.76	NA		
Operating Cost/Hour		\$162.29	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 OUAN	\$441.09 \$441.09 NTITIES				
Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume:	\$441.09 NTITIES 813				
Total Fleet Cost/Hour: <u>MATERIAL QUAN</u> Initial Volume: <u>1,8</u> Swell factor: <u>1.1</u>	\$441.09 NTITIES				
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,8 Swell factor: 1.1 Loose volume: 2,0 Source of estimated vol Source of estimated sw	\$441.09 NTITIES 813 125 040 LCY lume: See revi rell factor: Cat Han		ets - assume 15 ft height		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,8 Swell factor: 1.1 Loose volume: 2,0 Source of estimated vol Source of estimated sw HOURLY PRODUC Average push distance:	\$441.09 NTITIES 813 125 040 LCY lume: See revi rell factor: Cat Han CTION 50 feet	dbook	ets - assume 15 ft height		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,8 Swell factor: 1.1 Loose volume: 2,0 Source of estimated vol Source of estimated sw HOURLY PRODUC	\$441.09 NTITIES 813 125 040 LCY lume: See revi rell factor: Cat Han CTION tuction: 50 feet	dbook			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,8 Swell factor: 1,1 Loose volume: 2,0 Source of estimated vol Source of estimated sw HOURLY PRODUC Average push distance: Unadjusted hourly prod	\$441.09 NTITIES 813 125 040 LCY lume: See revi rell factor: Cat Han CTION : 50 feet duction: 2,110.5 LC description: Partly	dbook CY/hr			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,8 Swell factor: 1.1 Loose volume: 2,0 Source of estimated vol Source of estimated sw HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient:	\$441.09 NTITIES 813 125 040 LCY lume: See revi rell factor: Cat Han CTION image: 50 feet duction: 2,110.5 LC description: Partly : -25 %	dbook CY/hr			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,8 Swell factor: 1.1 Loose volume: 2,0 Source of estimated vol Source of estimated sw HOURLY PRODUC Average push distance: Unadjusted hourly proc Materials consistency d Average push gradient: Average site altitude:	\$441.09 NTITIES 813 125 040 LCY lume: See revi rell factor: Cat Han CTION : 50 feet duction: 2,110.5 LC lescription: Partly : -25 % 5,400 feet	dbook CY/hr consolidated	stockpile 1.1		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,8 Swell factor: 1,1 Loose volume: 2,0 Source of estimated vol Source of estimated vol Source of estimated vol Source of estimated sw HOURLY PRODUC Average push distance: Unadjusted hourly proc Materials consistency d Average push gradient: Average site altitude: Material weight:	\$441.09 813 125 040 LCY lume: See revi rell factor: Cat Han CTION : 50 feet duction: 2,110.5 LC description: Partly : -25 % 5,400 feet 2,650 lbs/LCY Decomposed roc Decomposed roc	dbook CY/hr consolidated	stockpile 1.1		
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,8 Swell factor: 1.1 Loose volume: 2,0 Source of estimated vol Source of estimated sw HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	\$441.09 NTITIES 813 125 040 LCY lume: See revi rell factor: Cat Han CTION : 50 feet duction: $2,110.5$ LC description: Partly : -25% $5,400$ feet $2,650$ lbs/LCY Decomposed roc On Factor on Factor 0	dbook CY/hr consolidated k - 25% Rock			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,8 Swell factor: 1.1 Loose volume: 2,0 Source of estimated vol Source of estimated vol Source of estimated sw HOURLY PRODUC Average push distance: Unadjusted hourly proc Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Material consi	\$441.09 NTITIES 813 125 $040 LCY$ lume: See revi rell factor: Cat Han CTION : 50 feet duction: $2,110.5 LC$ description: Partly : -25% $5,400$ feet 2,650 lbs/LCY Decomposed roci on Factor or Skill: ()	dbook CY/hr consolidated k - 25% Rock 0.750 1.100			
Total Fleet Cost/Hour: MATERIAL QUAN Initial Volume: 1,8 Swell factor: 1.1 Loose volume: 2,0 Source of estimated vol Source of estimated vol Source of estimated vol Source of estimated sw HOURLY PRODUC Average push distance: Unadjusted hourly proc Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Material consi Dozing m	\$441.09 NTITIES 813 125 $040 LCY$ lume: See revi rell factor: Cat Han CTION : 50 feet duction: $2,110.5 LC$ lescription: Partly : -25% $5,400$ feet 2,650 lbs/LCY Decomposed roc on Factor or Skill: () istency:	dbook CY/hr consolidated k - 25% Rock	stockpile 1.1 .75% Earth 		

Task # 003

Job efficiency	0.830	(1 SHIFT/DAY)
Spoil pile	1.000	(DOZ-OC)
Push gradient	1.516	(CAT HB)
Altitude	1.000	(CAT HB)
Material Weight	0.868	(CAT HB)
Blade type	1.000	(PAT)
Net correction	: 1.0813	
Adjusted unit production:	2,282.08 LCY/hr	
Adjusted fleet production:	2282.08 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.193/LCY

Total job time:	0.89 Hours
Total job cost:	\$394

SCRAPER TEAM WORK

Site: Midway Pit	Permi	t Action:	TR-4	Perr	nit/Job#: <u>M1988</u>	3018
PROJECT IDENT	TIFICATION					
Task #: 004	State:	Colorado		Abbrey	viation: None	
Date: 8/17/20		El Paso			ename: Xa	
User: TC1						
Agency or o	organization name: <u>DRM</u>	1S				
HOURLY EQUIP	MENT		COST	Shift basis: <u>1 per d</u>	lav	
<u>HOUKET EQUI</u>				mint basis. <u>I per e</u>	<u>la y</u>	
	-Scraper:	Equipme Cat 631	ent Description			
	-Dozer:	NA	0			
Suppor	rt Equipment -Load Area:	NA				
Road Mai	-Dump Area: intenance –Motor Grader:	NA NA				
Road Ma	-Water Truck:	NA				
						- -
<u>Cost Breakdown</u> :	Scraper Work Team Scraper Do	zer	Support Equi	Dump Area	Maintenance Motor Grader	Equipn Wate
A / T.T. 11	1			-		
%Utilization-machine:	100	NA	NA	NA	NA	
Ownership cost/hour:	\$341.67	NA	NA	NA	NA	
Operating cost/hour:	\$285.26	NA	NA	NA	NA	
%Utilization-ripper:	NA	NA	NA	NA NA	NA NA	
Ripper own. cost/hour: Ripper op. cost/hour:	NA NA	NA NA	NA NA	NA NA	NA NA	
Operator cost/hour:	\$47.07	NA	NA	NA	NA	
Unit Subtotals:	\$674.00	NA	NA	NA	NA	
Number of Units:	1	0	0	0	0	
Group Subtotals:		4.00	Support:	\$0.00	Maint:	9
Total work team cost	/hour: \$674.00		11			
MATERIAL QUA						
Initial volume: Loose volume:	13,108	CCY LCY	Swell fact	tor: <u>1.125</u>		
	· · · · · · · · · · · · · · · · · · ·		22.5			
	rce of estimated volume: of estimated swell factor:	3" depth Cat Hand	over 32.5 acres (book	1 K-4 Map)		
HOURLY PRODU			Scraper R	owl (volume) Basi	s:	
Material weight:	2,650 lbs/LCY		-	Volume: 24.00		CY
Material description:	Decomposed rock - 25% 75% Earth	Rock,		Volume: 24.00 Volume: 34.00		
Rated Payload:	81,600 pounds		Average		LC	
Payload Capacity:	30.79 LCY		Adjusted C	Capacity: 29.00	LC	CY

<u>0.80</u> Minutes

0.70 Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

Site Altitude: 5400 feet

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	-5.00	8.00	3.00	2227	0.97

Haul Time: **0.97** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1500.00	5.00	8.00	13.00	918	1.66

Return Time:	1.66	minutes
Total Scraper team cycle time:	4.13	minutes
Adjusted for job conditions:	349.69	LCY/Hour
Selected Number of Scrapers:	1	Scraper(s)
Adjusted single scraper team (unit) hourly production:	349.69	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	349.69	LCY/Hour
Unadjusted unit production/hour: 421.31 LCY/Hour		

Optimal Number of Scrapers per push dozer:

Fleet size:	1	Team(s)	Total job time:	42.17	Hours
Unit cost:	\$1.927	/LCY	Total job cost:	\$28,423	-

REVEGETATION WORK

Т	ask descrip	otion:	Reveg using seed drill (R1):	31.5 acres		
Site:	Midway	Pit	Permit Action:	TR-4	Permit/Job	#: <u>M1988018</u>
<u>PI</u>	ROJECT	IDENTIFIC	CATION			
	Task #:	06A	State: Colorado		Abbreviation:	None
	Date: User:	8/17/2023 TC1	County: El Paso		Filename:	V1
	Age	ency or organ	ization name: DRMS			

FERTILIZING

Materials

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

Application

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

TILLING

Description	Cost /Acre
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
Alkali Sacaton	0.15	5.85	\$4.27
Sand Dropseed	0.05	5.97	\$0.49
Little Bluestem - Pastura	1.34	8.00	\$18.07
Sideoats Grama - Vaughn	1.82	5.97	\$15.24
Galleta	0.37	1.35	\$8.27
Needle and Thread	1.09	2.88	\$45.62
Western Wheatgrass - Native	3.20	8.08	\$19.20
Saltbush, Four Wing	1.00	1.38	\$12.50
Winter Fat	0.02	0.05	\$0.41
Totals Seed Mix	9.04	39.53	\$124.06

Application

Description		Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)		\$468.00
	Total Seed Application Cost/Acre	\$468.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				¢950.57
				\$859.57

Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$147.67

NURSERY STOCK PLANTING

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

	No. of Acres: ed Failure Rate:	30%	-	Cost /Acre: Cost /Ac <u>re*:</u>	
*Selected Replanti	ng Work Items:	SEEDING, MULC	HING		
Initial Job Cost:	\$53,931.78				
Reseeding Job Cost:	\$15,113.39				
Total Job Cost:	\$69,045				
Job Hours:	36.00				

REVEGETATION WORK

Task descrij	ption:	Reveg using broadcast method	od		
te: <u>Midway</u>	Pit	Permit Action:	TR-4	Permit/Job#	#: <u>M1988018</u>
PROJECT	IDENTIFIC	CATION			
Task #:	06B	State: Colorado		Abbreviation:	None
Date:	8/17/2023	County: El Paso		Filename:	V1
User:	TC1				

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
Alkali Sacaton	0.30	11.71	\$8.54
Sand Dropseed	0.10	11.94	\$0.98
Little Bluestem - Pastura	2.68	16.00	\$36.14
Sideoats Grama - Vaughn	3.64	11.95	\$30.49
Galleta	0.74	2.70	\$16.54
Needle and Thread	2.18	5.76	\$91.23
Western Wheatgrass - Native	6.40	16.16	\$38.40
Saltbush, Four Wing	2.00	2.75	\$25.00
Winter Fat	0.04	0.10	\$0.82
Totals Seed Mix	18.08	79.07	\$248.13

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

Application

Description		Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	Total Mulch Application Cost/Acre	\$147.67

NURSERY STOCK PLANTING

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

No. of Acres:	1	Cost /Acre:	\$1,635.41
Estimated Failure Rate:	30%	Cost /Acre*:	\$1,522.59
*Selected Replanting Work Items:	SEEDING, MULCHING		
Initial Job Cost: \$1,635.41			

miniai job Cost.	\$1,033.41
Reseeding Job Cost:	\$456.78
Total Job Cost:	\$2,092
Job Hours:	4.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descr							
: Midway	y Pit	Permit	Action: <u>TR-4</u>		I	Permit/Job#: <u>N</u>	11988018
PROJECT	FIDENTIFICAT	ION					
Task #:	070	State: Co	olorado		Abbre	viation: None	e
Date: User:		County: El	Paso		Fi	lename: <u>M</u>	
A	gency or organizatio	n name: DRMS					
EQUIPM	ENT TRANSPOR	<u>AT RIG COST</u>					
					Shift ba	sis: 1 per da	ay
				C	Cost Data Sour	ce: CRG Da	ata
	Truck Tractor Des	cription: GENE	RIC ON-HIGH	WAY TRU	CK TRACTC	OR, 6X4, DIESE	L POWERED,
		1			(2ND HALF,		
				100 111	(_ 0000)	
	Truck Trailer Des	cription: G	ENERIC FOLD			OP DECK EQU	JIPMENT
	Truck Trailer Des	cription: G		ING GOO		OP DECK EQU	JIPMENT
^C ost Break		cription: G		ING GOO	SENECK, DR	OP DECK EQU	JIPMENT
Cost Break	down:		7	DING GOO ΓRAILER (SENECK, DR (25T, 50T, AN	OP DECK EQU	JIPMENT
Available	down: e Rig Capacities	0-25 Tons	26-50 Tons	DING GOO ΓRAILER (51+	SENECK, DR (25T, 50T, AN	OP DECK EQU	JIPMENT
Available Ow:	down: • Rig Capacities nership Cost/Hour:	0-25 Tons \$20.26	26-50 Tons \$36.04	DING GOO FRAILER 51+ \$4	SENECK, DR (25T, 50T, AN • Tons 7.05	OP DECK EQU	JIPMENT
Available Ow Op	down: Rig Capacities nership Cost/Hour: perating Cost/Hour:	0-25 Tons \$20.26 \$39.51	26-50 Tons \$36.04 \$76.08	DING GOO <u>FRAILER</u> 51+ \$4 \$8	SENECK, DR (25T, 50T, AN Tons 7.05 (2.85	OP DECK EQU	JIPMENT
Available Ow Op	down: e Rig Capacities nership Cost/Hour: perating Cost/Hour: operator Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52	26-50 Tons \$36.04 \$76.08 \$22.52	DING GOO <u>FRAILER</u> 51+ \$4 \$8 \$2	SENECK, DR (25T, 50T, AN Tons 7.05 (2.85 (2.52)	OP DECK EQU	JIPMENT
Available Ow Op O	down: PRig Capacities nership Cost/Hour: perating Cost/Hour: perator Cost/Hour: Helper Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53	DING GOO FRAILER (51+ \$4 \$8 \$2 \$2 \$2	SENECK, DR (25T, 50T, AN 7.05 (2.85) (2.52) (3.53)	OP DECK EQU	JIPMENT
Available Ow Op O	down: e Rig Capacities nership Cost/Hour: perating Cost/Hour: operator Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52	26-50 Tons \$36.04 \$76.08 \$22.52	DING GOO FRAILER (51+ \$4 \$8 \$2 \$2 \$2	SENECK, DR (25T, 50T, AN Tons 7.05 (2.85 (2.52)	OP DECK EQU	JIPMENT
Available Ow Op O Tot	down: Rig Capacities nership Cost/Hour: perating Cost/Hour: Perator Cost/Hour: Helper Cost/Hour: tal Unit Cost/Hour:	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53	DING GOO FRAILER (51+ \$4 \$8 \$2 \$2 \$2	SENECK, DR (25T, 50T, AN 7.05 (2.85) (2.52) (3.53)	OP DECK EQU	JIPMENT
Available Ow Op O Tot	down: Price Rig Capacities nership Cost/Hour: perating Cost/Hour: perator Cost/Hour: Helper Cost/Hour: tal Unit Cost/Hour: ADABLE EQUIP	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT:	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17	DING GOO FRAILER (51+ \$4 \$8 \$2 \$2 \$1	SENECK, DR (25T, 50T, AN 7.05 2.85 2.52 3.53 75.95	OP DECK EQU ND 100T)	
Available Ow Op O Tot NON ROA Machine	down: e Rig Capacities nership Cost/Hour: berating Cost/Hour: Derator Cost/Hour: Helper Cost/Hour: tal Unit Cost/Hour: ADABLE EQUIP Weight/	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig	DING GOO FRAILER (51+ \$4 \$8 \$2 \$2 \$1' Fleet	SENECK, DR (25T, 50T, AN 7.05 2.85 2.52 3.53 75.95 Haul Trip	OP DECK EQU ND 100T) Return Trip	DOT Permit
Available Ow Op O Tot	down: e Rig Capacities nership Cost/Hour: perating Cost/Hour: Derator Cost/Hour: Helper Cost/Hour: tal Unit Cost/Hour: ADABLE EQUIP Weight/ Unit	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT:	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni	DING GOO FRAILER (51+ \$4 \$8 \$2 \$2 \$1	SENECK, DR (25T, 50T, AN 7.05 2.85 2.52 3.53 75.95 Haul Trip Cost/hr/	OP DECK EQU ND 100T)	
Available Ow Op O Tot NON ROA Machine Descriptic	down: e Rig Capacities nership Cost/Hour: perating Cost/Hour: Derator Cost/Hour: Helper Cost/Hour: tal Unit Cost/Hour: ADABLE EQUIP Meight/ Unit (TONS)	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t	PING GOO FRAILER (51+ \$4 \$8 \$2 \$2 \$1 \$1 Fleet Size	SENECK, DR (25T, 50T, AN 7.05 2.85 2.52 3.53 75.95 Haul Trip Cost/hr/ fleet	OP DECK EQU ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Available Ow Op O Tot NON ROA Machine Descriptic Cat D9T - 9	down: e Rig Capacities nership Cost/Hour: perator Cost/Hour: operator Cost/Hour: Helper Cost/Hour: tal Unit Cost/Hour: ADABLE EQUIP on Weight/ Unit (TONS) 9SU	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$238.76	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$175.95	PING GOO FRAILER (51+ \$4 \$8 \$2 \$2 \$2 \$1 \$1 Fleet Size 1	SENECK, DR (25T, 50T, AN 7.05 2.85 2.52 3.53 75.95 Haul Trip Cost/hr/ fleet \$414.71	OP DECK EQU ND 100T) Return Trip Cost/hr/ fleet \$175.95	DOT Permit Cost/ fleet \$250.00
Available Ow Op O Tot NON ROA Machine Descriptic Cat D9T - 9 Cat 631G	down: e Rig Capacities nership Cost/Hour: perator Cost/Hour: operator Cost/Hour: Helper Cost/Hour: tal Unit Cost/Hour: ADABLE EQUIP weight/ Unit (TONS) 9SU 60.01 52.50	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$238.76 \$341.67	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$175.95 \$175.95	DING GOO FRAILER (51+ \$4 \$8 \$2 \$2 \$2 \$1' Fleet Size 1 1	SENECK, DR (25T, 50T, AN 7.05 2.85 2.52 3.53 75.95 Haul Trip Cost/hr/ fleet \$414.71 \$517.62	OP DECK EQU ND 100T) Return Trip Cost/hr/ fleet \$175.95 \$175.95	DOT Permit Cost/ fleet \$250.00 \$250.00
Available Ow Op O Tot NON ROA Machine Descriptic Cat D9T - 9	down: e Rig Capacities nership Cost/Hour: perator Cost/Hour: operator Cost/Hour: Helper Cost/Hour: tal Unit Cost/Hour: ADABLE EQUIP weight/ Unit (TONS) 9SU 60.01 52.50	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$238.76	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$175.95	PING GOO FRAILER (51+ \$4 \$8 \$2 \$2 \$2 \$1 \$1 Fleet Size 1	SENECK, DR (25T, 50T, AN 7.05 2.85 2.52 3.53 75.95 Haul Trip Cost/hr/ fleet \$414.71	OP DECK EQU ND 100T) Return Trip Cost/hr/ fleet \$175.95	DOT Permit Cost/ fleet \$250.00
Available Ow Op O Tot NON ROA Machine Descriptic Cat D9T - 9 Cat 631G	down: e Rig Capacities nership Cost/Hour: perator Cost/Hour: operator Cost/Hour: Helper Cost/Hour: tal Unit Cost/Hour: ADABLE EQUIP weight/ Unit (TONS) 9SU 60.01 52.50	0-25 Tons \$20.26 \$39.51 \$22.52 \$0.00 \$82.29 MENT: Owner ship Cost/hr/ unit \$238.76 \$341.67	26-50 Tons \$36.04 \$76.08 \$22.52 \$23.53 \$158.17 Haul Rig Cost/hr/uni t \$175.95 \$175.95 \$82.29	DING GOO FRAILER (51+ \$4 \$8 \$2 \$2 \$2 \$1' Fleet Size 1 1	SENECK, DR (25T, 50T, AN 7.05 2.85 2.52 3.53 75.95 Haul Trip Cost/hr/ fleet \$414.71 \$517.62	OP DECK EQU ND 100T) Return Trip Cost/hr/ fleet \$175.95 \$175.95	DOT Permit Cost/ fleet \$250.00 \$250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Drill/Broadcast Seeder with Tractor	\$14.81	1	\$14.81	\$14.81
	¢57.00	1	¢57.02	¢57.00
Power Mulcher (Bowie LD-90)	\$57.02	1	\$57.02	\$57.02
Generic 8-10 cy, 6x4	\$91.36	4	\$365.44	\$365.44
		Subtotals:	\$437.27	\$437.27

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	COLORADO SPRINGS 23.00 50.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$3,938.48	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$402.29	_

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.46	0.46
Return Time (Hours):	0.46	0.46
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.42	0.92

JOB TIME AND COST

Total job time: 2.84 Hours

Total job cost: **\$4,341**