

November 17, 2023

Jim Doody Kilgore Companies LLC dba Elam Construction 556 Struthers Ave Grand Junction, CO 81501

RE: Sunny Side Gravel Pit, Permit No. M-1986-160, Proposed Surety Increase SI-5

Dear Mr. Doody:

This reclamation cost update was in response to the site inspection conducted on October 25, 2023. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

The bond was last recalculated in 2018 with SO-1. Below is a table summarizing input values that have been updated in since the SO-1 calculation. 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	Highwall reduction grade to 3H: 1V
		Change to D8, Push -15%, corrected volumes, material type bank
		Grade highwall benches (36,667 BCY)
		• 100'H x 300'W @ 1:1 cut/fill (27,778 BCY)
		• 40'H x 600'W @ 1:1 cut/fill (8,889 BCY)
02a	Ripper	Rip Pit Floor
		Change to D8
03a	Dozer	Place overburden/topsoil on pit floor
		Change to D8, 300 ft push, @ 0%
03b	Dozer	Place overburden/topsoil on slopes only
		Change to D8, 300 ft push, @ 0%



04a	Ripper	Cross rip slopes to control erosion Change to D8, ripper length 200 ft
05a	Reveg	Reveg 9.5 acres with 50% failure Increase job hrs, ~1 hr and ac
06a	Mob	Update equipment used
06b	Mob	Update equipment used

Per policy I wanted to send this out for review prior to issuance. Please look it over and let me know if there are errors or concerns. If no response is received by **Monday**, **January 1**, **2024** then I'll issue SI-5 as is. SI-5 will result in a total required bond amount of \$167,108, which is an increase of \$73,843.62 over the \$93,264.38 currently held.

Sincerely,

Amy Yeldell

**Environmental Protection Specialist** 

Amy Geldell

Ec:

Travis Marshall, Senior EPS, Grand Junction DRMS

# COST SUMMARY WORK

T	ask description:	<b>Post Inspection Update</b>				
Site:	Sunny Side Gravel Pt	Permit Action	on: 2023		Permit/Job	#: <u>M1986160</u>
<u>PF</u>	ROJECT IDENTIFIC	ATION				
	Task #: ACY Date: 11/17/2023 User: ACY	State: Colorac County: Mesa	do		Abbreviation: _ Filename: _	None M160-ACY
		ation name: DRMS				
Tr. A	<i>.</i>					
<u>1</u> F	ASK LIST (DIRECT (	<u></u>	F	El4	Tr1-	
ask	Description		Form Used	Fleet Size	Task Hours	Cost
1a	Grade Highwalls		DOZER	2	59.77	\$53,449
2a	Rip pit floor		RIPPER	2	4.20	\$3,761
3a	Place overburden/tops	oil on pit floor	DOZER	2	28.46	\$24,210
3b	Place overburden/tops		DOZER	2	18.45	\$15,693
4a	Cross rip to terrace slo	pe	RIPPER	2	3.19	\$2,855
5a	Reveg disturbance		REVEGE	1	16.00	\$23,337
6a		Reclamation Equipment	MOBILIZE	1	5.50	\$6,951
6b	Secondary Mobilization Equipment	on of Reclamation	MOBILIZE	1	5.50	\$2,316
			<u>SUBT</u>	OTALS:	141.07	\$132,572
	DIRECT COSTS  /ERHEAD AND PROFIT  Liability insuran  Performance bor  Job superintende  Pro	ce: 2.02 nd: 1.05 nt: 40.00			Total =	,678 ,392 ,603 3,257
	110		NTRACT AMOUN		$LO\&P = \boxed{\$1}$	9,930 52,502
LE	GAL - ENGINEERING	- PROJECT MANAGEMEN	NT:			
	Financial warranty pro	cessing (legal/related costs)	: \$500		Total = \$5	00
		l/or contract/bid preparation				,481
	Reclamation manag	ement and/or administration	: 5.00		\$7	,625
		CONTINGENCY	: 0.00		Total =\$0	
			TOTAL	INDIREC'	$\Gamma \text{ COST} = \frac{\$3}{3}$	4,537
		TOTAL E	BOND AMOUNT	(direct + i	ndirect) = \$1	67,109

# **BULLDOZER WORK**

Task description:	Grade High	walls			
e: Sunny Side Gravel	Pt	Permit Action:	2023	Permit/Job#:	M1986160
PROJECT IDENTI	FICATION				
Task #: 01A	St	ate: Colorado		Abbreviation:	None
Date: 11/17/202	23 Cour			Filename:	M160-01a
User: ACY					
Agency or org	ganization name:	DRMS			
HOURLY EQUIPM	•	210.10			
	at D8T - 8SU		<u> </u>		
	10				
· · · —	emi-Universal		<u> </u>		
	-shank ripper per day		<u>—</u>		
	CRG)		<del>_</del>		
	JKO)				
Cost Breakdown:			TT.:11 .: 0		
Ourmanshin Cost/Hourn		\$241.38	<u>Utilization 9</u>	<u>′o</u>	
Ownership Cost/Hour Operating Cost/Hour		\$143.92	NA 100		
Ripper own. Cost/Hour		\$17.40	NA		
Ripper op. Cost/Hour		\$4.37	50		
Operator Cost/Hour	-	\$40.04	NA		
Operator Cost/Hour	•	ψ+0.0+	IVA		
Total unit Cost/Hour:	\$447.11				
Swell factor: 1.1	,667 180				
Loose volume: 43	,267 LCY				
Source of estimated vol Source of estimated swe		H x 300'W and 4 Handbook	0'H x 600'W 1:1 to	3:1 cut fill	
HOURLY PRODUC	CTION				
Average push distance: Unadjusted hourly prod		et LCY/hr			
Materials consistency d	escription: Co	ompacted fill or e	mbankment 0.9		
Average push gradient: Average site altitude:	-15 % 5,800 feet				
Material weight:	2,400 lbs/LC	Y			
Weight description:	Clay and grav	rel - Dry			
Job Condition Correction Operato		0.750	<u>Source</u> (AVG		
Material consi		0.900	(CAT H		
Dozing n		1.000	(GEN		
	sibility:	1.000	(AVG		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5706

Adjusted unit production: 361.93 LCY/hr
Adjusted fleet production: 723.86 LCY/hr

# **JOB TIME AND COST**

Fleet size: 2 Dozer(s)
Unit cost: \$1.235/LCY

Total job time: 59.77 Hours 553,449

# **BULLDOZER RIPPING WORK**

	Task description:	Rip	pit floor				
Site:	Sunny Side G	ravel Pt	Permit Action:	2023	Permit/J	ob#: <u>M198</u>	6160
	PROJECT ID	ENTIFICATI	ON				
	Task #: 02.	A	State: Colorado		Abbreviation	on: None	
		17/2023	County: Mesa		Filenar		02a
	User: AC	CY	·				
	Agency	or organization	name: DRMS				
	HOURLY EQ	HIPMENT C	OST				
					11	210	
	Ripper Att		t D8T - 8SU Shank Ripper	<del></del>	Horsepower: Shift Basis:	310 1 per day	<del></del>
	Kippei Att	aciiiieiii. <u>3-k</u>	знанк ктррег	<u></u>	Data Source:	(CRG)	
	G . B . 1.1				Butti Bource.	(CRO)	
	Cost Breakdown:	_			Utilization %		
		Ownership C	ost/Hour	\$241.38	NA		
		Operating C		\$143.92	100		
	Rippe	er Ownership C		\$14.11	NA		
	Rip	per Operating C		\$7.45	100		
		Operator C		\$40.04	NA		
		Total Unit C	ost/Hour:	\$446.90			
		Total Fleet C	ost/Hour: \$89	<b>93.79</b>			
	MATERIAL (	)HANTITIES	S <sub>ol</sub>	lected estimatin	a mathadi Araa		
			<u>.</u> Se.	iecteu estimatin	g method: Area		
	Alternate Method	<u>18:</u>					
ismic:	NA 7.40	<u></u>	Bank Volume:	NA	BCY 17.424	NA	DOV (
Area:	5.40	acres	Rip Depth (ft):	2.00	Volume: 17,424		_ BCY or C
		Source of esti	mated quantity: Staff	estimate of pit f	loor 5.4 ac		
	<b>HOURLY PRO</b>	<b>ODUCTION</b>					
	Seismic:						
			Seismic Velocity:	NA	feet/second		
	Area:						
	rica.	Averas	ge Ripping Depth:	2.56	feet/pass		
			ge Ripping Width:	7.08	feet/pass		
		Average	e Ripping Length:	200.00	feet/pass		
			rage Dozer Speed:	88.00	feet/minute		
			Maneuver Time:	0.25	minutes/pass		
		Produc	tion per unit area:	0.773	acres/hour		
	Job Condition Co	orrection Factor	<u>S</u>				
	Un	adjusted Hourly	Unit Production:	0.773	Acres/hr		
			Site Altitude:	5,800	feet		
			Altitude Adj:	1.00	(CAT HB)		
			Job Efficiency:	0.83	(1 shift/day)		
			Net Correction:	0.83	multiplier		
		Adjusted	Hourly Unit Production:	0.64	Acres/hr		
			Hourly Fleet Production:		Acres/hr		
	JOB TIME AN	ND COST					
	Fleet size:	2	Grader(s)	Total job tir	me: <b>4.21</b>	I	Hours
	<del>-</del>	\$COC 400		•			
	Unit cost:	\$696.428	Per acre	Total job co	ost: \$3,761		

# **BULLDOZER WORK**

Task description:	Place overburde	en/topson on	pit 1100r		
Sunny Side Gravel Pt	Per	mit Action:	2023	Permit/Job#:	M1986160
PROJECT IDENTIF	<u>ICATION</u>				
Task #: 03A	State:	Colorado		Abbreviation:	None
Date: 11/17/2023		Mesa		Filename:	M160-03a
User: ACY				_	
Agency or organ	nization name: DI	RMS			
HOURLY EQUIPME	ENT COST				
	t D8T - 8SU				
Horsepower: 310					
• • • • • • • • • • • • • • • • • • • •	ni-Universal				
Attachment: NA Shift Basis: 1 pe			<u> </u>		
	er day RG)				
Cost Breakdown:					
O		¢241.20	<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:		\$241.38 \$143.92	NA 100		
Ripper own. Cost/Hour:		\$0.00	NA		
		\$0.00	50		
Ripper op. Cost/Hour:	-			<del></del>	
Ripper op. Cost/Hour: Operator Cost/Hour:		\$40.04	NA		
Operator Cost/Hour:	\$425.34	\$40.04	NA		
Operator Cost/Hour: Total unit Cost/Hour:	\$425.34 <b>\$850.67</b>	\$40.04	NA NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$850.67	\$40.04	NA NA		
Operator Cost/Hour: Total unit Cost/Hour:	\$850.67	\$40.04	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:	\$850.67 <u>TITIES</u>	\$40.04	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT	\$850.67 TITIES 2	\$40.04	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT  Initial Volume: 8,71 Swell factor: 1.09	\$850.67 TITIES 2	\$40.04	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT  Initial Volume: 8,71 Swell factor: 1.09 Loose volume: 9,49	\$850.67 <u>CITIES</u> 2 0 6 LCY		NA NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT  Initial Volume: 8,71 Swell factor: 1.09	\$850.67  SITIES 2 0 6 LCY me: 5.4 ac 12	" deep	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT  Initial Volume: 8,71 Swell factor: 1.09 Loose volume: 9,49  Source of estimated volum Source of estimated swell	\$850.67  CITIES 2 0 6 LCY me: 5.4 ac 12 Cat Hance	" deep	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT  Initial Volume: 8,71 Swell factor: 1.09 Loose volume: 9,49  Source of estimated volum Source of estimated swell  HOURLY PRODUCT	\$850.67    CITIES	" deep	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT  Initial Volume: 8,71 Swell factor: 1.09 Loose volume: 9,49  Source of estimated volum Source of estimated swell  HOURLY PRODUCT  Average push distance:	\$850.67  TITIES  2 0 6 LCY me: 5.4 ac 12 Cat Hand  TION  300 feet	." deep llbook	NA		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT  Initial Volume: 8,71 Swell factor: 1.09 Loose volume: 9,49  Source of estimated volum Source of estimated swell  HOURLY PRODUCT  Average push distance: Unadjusted hourly product	\$850.67  CITIES  2 0 6 LCY  me: 5.4 ac 12 Cat Hance  FION  300 feet 291.4 LCY	." deep lbook			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT  Initial Volume: 8,71 Swell factor: 1.09 Loose volume: 9,49  Source of estimated volumes Source of estimated swell  HOURLY PRODUCT  Average push distance: Unadjusted hourly product  Materials consistency designed.	\$850.67  CITIES  2 0 6 LCY  me: 5.4 ac 12 Cat Hance  FION  300 feet 291.4 LCY  scription: Consol	." deep llbook			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT  Initial Volume: 8,71 Swell factor: 1.09 Loose volume: 9,49  Source of estimated volum Source of estimated swell  HOURLY PRODUCT  Average push distance: Unadjusted hourly product	\$850.67  CITIES  2 0 6 LCY  me: 5.4 ac 12 Cat Hance  FION  300 feet 291.4 LCY	." deep lbook			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT  Initial Volume: 8,71 Swell factor: 1.09 Loose volume: 9,49  Source of estimated volumes Source of estimated swell  HOURLY PRODUCT  Average push distance: Unadjusted hourly product  Materials consistency des  Average push gradient:	\$850.67  SITIES  2 0 6 LCY me: 5.4 ac 12 Cat Hance  FION  300 feet ction: 291.4 LCY scription: Consol	" deep lbook			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT  Initial Volume: 8,71 Swell factor: 1.09 Loose volume: 9,49  Source of estimated volumes Source of estimated swell  HOURLY PRODUCT  Average push distance: Unadjusted hourly product Materials consistency des  Average push gradient: Average site altitude:	\$850.67	" deep lbook /hr			
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT  Initial Volume: 8,71 Swell factor: 1.09 Loose volume: 9,49  Source of estimated volumes Source of estimated swells  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	" deep lbook  /hr lidated stockp	pile 1.0		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT  Initial Volume: 8,71 Swell factor: 1.09 Loose volume: 9,49  Source of estimated volumes 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	\$850.67	/hr lidated stocky  Dry	bile 1.0  Source (AVG.)		
Operator Cost/Hour: Total unit Cost/Hour: Total Fleet Cost/Hour:  MATERIAL QUANT  Initial Volume: 8,71 Swell factor: 1.09 Loose volume: 9,49  Source of estimated volumes Source of estimated swells  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	" deep lbook  /hr lidated stockp	pile 1.0		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)
		-

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Net correction: 0.5725

Adjusted unit production: 166.83 LCY/hr
Adjusted fleet production: 333.66 LCY/hr

# **JOB TIME AND COST**

Fleet size: 2 Dozer(s)
Unit cost: \$2.550/LCY

Total job time: 28.46 Hours
Total job cost: \$24,210

# **BULLDOZER WORK**

e: _Sunny Side Gravel Pt Permit Action: _2023  PROJECT IDENTIFICATION	
PROJECT IDENTIFICATION	Permit/Job#: M1986160
Task #: 03B State: Colorado	Abbreviation: None
Date: 11/17/2023 County: Mesa	Filename: M160-03b
User: ACY	
Agency or organization name: DRMS	
HOURLY EQUIPMENT COST	
Basic Machine: Cat D8T - 8SU	
Horsepower: 310	
Blade Type: Semi-Universal	
Attachment: NA Shift Basis: 1 per day	
Data Source: (CRG)	
Cost Breakdown:	
Ownership Cost/Hour: \$241.38 Utilizati	
Operating Cost/Hour: \$143.92 100	
Ripper own. Cost/Hour: \$0.00 NA	
Ripper op. Cost/Hour: \$0.00 50	
Operator Cost/Hour: \$40.04 NA	1
Total unit Cost/Hour: \$425.34	
Total Fleet Cost/Hour: \$850.67	
MATERIAL QUANTITIES	
Initial Volume: 5,647	
Swell factor: 1.090	
Loose volume: 6,155 LCY	
Source of estimated volume: 3.5 ac 12" deep	
Source of estimated swell factor: Cat Handbook	
HOURLY PRODUCTION	
Average push distance: 300 feet Unadjusted hourly production: 291.4 LCY/hr	
Materials consistency description: Consolidated stockpile 1.0	
Average push gradient: 0 % Average site altitude: 5,800 feet	
Material weight: 2,400 lbs/LCY	
Weight description: Clay and gravel - Dry	
Job Condition Correction Factor S	ource
Job Condition Correction FactorSOperator Skill:0.750(A	AVG.)
Job Condition Correction FactorSOperator Skill:0.750(AMaterial consistency:1.000(CA	

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5725

Adjusted unit production: 166.83 LCY/hr
Adjusted fleet production: 333.66 LCY/hr

# **JOB TIME AND COST**

Fleet size: 2 Dozer(s)
Unit cost: \$2.550/LCY

Total job time: 18.45 Hours
Total job cost: \$15,693

# **BULLDOZER RIPPING WORK**

	Task description:	Cro	ss rip to terrace slope					
Site	: Sunny Side G	ravel Pt	Permit Action:	2023	P	ermit/Job#	: <u>M1986</u>	160
	PROJECT ID	ENTIFICATI	<u>ION</u>					
	Task #: 042	4	State: Colorado		Abb	reviation:	None	
		17/2023	County: Mesa			Filename:	M160-04	la
	User: AC		, <u> </u>					
	Agency	or organization	n name: DRMS					
	HOURLY EQ	UIPMENT C	<u>OST</u>					
	Basic 1	Machine: Ca	ıt D8T - 8SU		Horsepower:		310	
	Ripper Att	achment: 3-5	Shank Ripper		Shift Basis:	1	per day	
					Data Source:	(	(CRG)	
	Cost Breakdown:	<u>.</u>						
					Utilization %			
		Ownership C		\$241.38	NA	=		
		Operating C		\$143.92	100	-		
		er Ownership C		\$14.11	NA 100	=		
	Кірр	per Operating C		\$7.45	100	-		
		Operator C Total Unit C		\$40.04 \$446.90	NA	-		
			<del>-</del>	·				
		Total Fleet C	Cost/Hour: <b>\$893</b>	3.79				
	MATERIAL C	<u>)UANTITIES</u>	Sele Sele	cted estimating	g method: Area	ı		
	Alternate Method	<u>ls:</u>						
Seismic:	NA		Bank Volume:	NA	BCY		NA	
Area:	4.10	acres	Rip Depth (ft):	1.00	Volume:	6,615		BCY or CC
		Source of esti	mated quantity: Staff es	stimate 4.1 ac o	of slopes			
	HOURLY PRO	ODUCTION						
		<u> </u>						
	Seismic:		Seismic Velocity:	NA	feet/sec	and		
			Scisinic velocity.	IVA	TCCt/ SCC	onu		
	Area:							
			ge Ripping Depth:	2.56	feet/pas			
			ge Ripping Width:  e Ripping Length:	7.08	feet/pas feet/pas			
		_	rage Dozer Speed:	88.00	feet/pas			
			e Maneuver Time:	0.25	minutes			
			ction per unit area:	0.773	acres/ho	-		
	Job Condition Co	orrection Factor	s					
			Unit Production:	0.773	Acres/h	r		
		J	Site Altitude:	5,800	feet	_		
			Altitude Adj:	1.00	(CAT H	IB)		
			Job Efficiency:	0.83	(1 shift/			
			Net Correction:	0.83	multipli			
			Hourly Unit Production:	0.64	Acres/hr			
			Hourly Fleet Production:	1.28	Acres/hr			
	JOB TIME AN	ND COST						
	Fleet size:	2	_ Grader(s)	Total job tin	ne:	3.19	Но	ours
	Unit cost:	\$696,428	Per acre	Total job co	st: \$	2.855		

# REVEGETATION WORK

Sunny Side Gravel Pt	Per	mit Action: 2023	<u> </u>		Permit/Job#	t: <u>M1986160</u>
ROJECT IDENTIFICATI	ON					
Task #: 05A	State:	Colorado		Ał	obreviation:	None
Date: 11/17/2023	County:	Mesa				M160-05a
User: ACY		111054		<del></del>	_	11100 000
Agency or organization	n name: DR	MS				
ERTILIZING						
aterials						
Description		Units / Acre	Unit	Co	st / Unit	Cost /Acre
Ammonium nitrate, 33-0-0		60.00	pound	\$0.	62	\$37.40
					tal Fertilizer Materials Cost/Acre	\$37.40
plication  Description						Cost /Acre
Description	ANS 32 01 90	13 0120)				Cost /Acre
	ANS 32 01 90.		l Fertilizer	Applicatio	on Cost/Acre	Cost /Acre \$41.82
Description	ANS 32 01 90.		l Fertilizer	Application	on Cost/Acre	\$41.82
Description Tractor towed spreader (MEA	ANS 32 01 90.		l Fertilizer	Application	on Cost/Acre	\$41.82
<b>Description</b> Tractor towed spreader (MEA		Total	l Fertilizer	Application	on Cost/Acre	\$41.82 \$41.82
Description Tractor towed spreader (MEA  LLING  Description		Total			on Cost/Acre	\$41.82 \$41.82 Cost /Acre
Description Tractor towed spreader (MEA  LLING  Description		Total				\$41.82 \$41.82 Cost /Acre \$112.82
Description Tractor towed spreader (MEA  LLING  Description Disc harrowing, 6" deep (MEA		Total		Rate – PLS LBS /		\$41.82 \$41.82 Cost /Acre \$112.82
Description Tractor towed spreader (MEA  LLING  Description Disc harrowing, 6" deep (MEA  EEDING  Seed Mix		Total		Cotal Tillin	ng Cost/Acre Seeds per SQ.	\$41.82 \$41.82 Cost /Acre \$112.82
Description Tractor towed spreader (MEA  LLING  Description Disc harrowing, 6" deep (MEA  CEDING	EANS 32 91 13	Total		Rate – PLS LBS / Acre	ng Cost/Acre  Seeds per SQ. FT	\$41.82 \$41.82 Cost /Acre \$112.82 \$112.82
Description Tractor towed spreader (MEA  LLING  Description Disc harrowing, 6" deep (MEA  EEDING  Seed Mix  Indian Ricegrass - Nespar	EANS 32 91 13	Total		Rate – PLS LBS / Acre 4.80	Seeds per SQ. FT	\$41.82 \$41.82 Cost /Acre \$112.82 \$112.82 Cost /Acre

**Description**Drill Seeding (DRMS Survey Cost)

**Cost /Acre** \$232.00

Total Seed Application Cost/Acre	\$232.00

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	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
	<b>Total Mulch Application Cost/Acre</b>	\$284.85

### **NURSERY STOCK PLANTING**

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

### **JOB TIME AND COST**

No. of Acres: 9.5 Cost /Acre: \$1,637.68

Estimated Failure Rate: 50% Cost /Acre\*: \$1,637.68

\*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU

LCHING

Initial Job Cost: \$15,557.96
Reseeding Job Cost: \$7,778.98

Total Job Cost: \$23,337

Job Hours: 16.00

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Initial Mob	ilization of Recla	mation E	quipment		
ite: Sunny Side Gravel Pt		Permit Action:	2023		Permit/Job#	: <u>M1986160</u>
PROJECT IDENTIFIC	<u>CATION</u>					
Task #: 06A	Sta	ate: Colorado		Abb	reviation:	None
Date: 11/17/2023 User: ACY	Cour	nty: Mesa			Filename:	M160-06a
Agency or organi	zation name:	DRMS				
EQUIPMENT TRANS	PORT RIG	COST				
				Shift l	pasis: 1	per day
				Cost Data So		RG Data
Truck Tractor	Description:	GENERIC ON		AY TRUCK TRACT 400 HP (2ND HALI		IESEL POWERED,
Truck Trailer	Description:	GENERIC	C FOLDIN	IG GOOSENECK, I	DROP DECK	EQUIPMENT
			TR	AILER (25T, 50T, A	AND 100T)	_
Cost Breakdown:						
Available Rig Capacities	s 0-25	Tons 26-50	) Tons	51+ Tons		
Ownership Cost/Ho		· ·	6.04	\$47.05		
Operating Cost/Ho	our: \$39	.51 \$70	6.08	\$82.85		
Operator Cost/Ho		· · · · · · · · · · · · · · · · · · ·	2.52	\$22.52		
Helper Cost/Ho	our: \$0.	00 \$2:	3.53	\$23.53		

### **NON ROADABLE EQUIPMENT:**

Total Unit Cost/Hour:

\$82.29

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
_	(TONS)		t		fleet		
Cat D8T - 8SU	53.08	\$255.49	\$175.95	2	\$862.88	\$351.90	\$250.00
Drill/Broadcast	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00
(Bowie LD-90)							

\$158.17

\$175.95

Subtotals: \$1,060.13 \$516.48 \$750.00

### **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	\$92.68	1	\$92.68	\$92.68
Light Duty Pickup, 4x4, 3/4 T.	\$116.86	2	\$233.72	\$233.72

Subtotals: \$326.40 \$326.40	Subtotals:	\$326.40	\$326.40
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### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: GRAND JUNCTION,

Task # 06A

Total one-way travel distance: 35.00 miles
Average Travel Speed: 40.00 mph

\$6,379.33

Total Non-Roadable Mob/Demob Cost \*

\*\* two round trips with haul rig: Total Roadable Mob/Demob Cost \*\*

\*\* one round trip, no haul rig: \$571.20

### **Transportation Cycle Time:**

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.88	0.88
Return Time (Hours):	0.88	0.88
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.75	1.75

### **JOB TIME AND COST**

Total job time: 5.50 Hours

Total job cost: **\$6,951** 

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Secondary Mobilization of Reclamation Equipment				
te: Sunny Side Gravel Pt	Perm	it Action: 2023	Permit/Jo	b#: <u>M1986160</u>	
PROJECT IDENTIFICA	TION				
Task #: 06B	State: 0	Colorado	Abbreviation:	None	
Date: 11/17/2023 User: ACY	County:	Mesa	Filename:	M160-06b	
Agency or organiza	tion name: DRM	IS			
EQUIPMENT TRANSPO	ORT RIG COST				
			Shift basis:	1 per day	
			Cost Data Source:	CRG Data	
Truck Tractor D	escription: GEN	ERIC ON-HIGHW	AY TRUCK TRACTOR, 6X4, 400 HP (2ND HALF, 2006)	DIESEL POWERED,	
Truck Trailer D	escription:	GENERIC FOLDIN	NG GOOSENECK, DROP DEC	K EQUIPMENT	
		TR	AILER (25T, 50T, AND 100T)		
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons		
Ownership Cost/Hour	:: \$20.26	\$36.04	\$47.05		
Operating Cost/Hour	:: \$39.51	\$76.08	\$82.85		
Operator Cost/Hour	:: \$22.52	\$22.52	\$22.52		
Helper Cost/Hour	: \$0.00	\$23.53	\$23.53		

### **NON ROADABLE EQUIPMENT:**

Total Unit Cost/Hour:

\$82.29

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Drill/Broadcast	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00
(Bowie LD-90)							

\$158.17

\$175.95

Subtotals: \$197.25 \$164.58 \$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	\$92.68	1	\$92.68	\$92.68
Light Duty Pickup, 4x4, 3/4 T.	\$72.29	1	\$72.29	\$72.29

Subtotals: \$164.97 \$164.97

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

Nearest Major City or Town within project area region: GRAND JUNCTION,

CO Total one-way travel distance: 35.00 miles Average Travel Speed: 40.00 mph

Total Non-Roadable Mob/Demob Cost \* \$2,027.70 '\* two round trips with haul rig: Total Roadable Mob/Demob Cost \*\* \$288.70

\*\* one round trip, no haul rig:

### **Transportation Cycle Time:**

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.88	0.88
Return Time (Hours):	0.88	0.88
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.75	1.75

### **JOB TIME AND COST**

Total job time: 5.50 Hours

Total job cost: **\$2,316**