

September 17, 2025

Jason Burkey Oldcastle SW Group, Inc. dba United Companies of Mesa County 2273 River Road Grand Junction, CO 81502

Re: Mamm Creek Sand & Gravel - File No. M-2000-113 Oldcastle SW Group, Inc. dba United Companies of Mesa County Surety Increase (SI-2) Surety Increase to \$237,367.00

Dear Jason Burkey:

On September 17, 2025 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$237,367.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$48,751.00.

Increase in the financial warranty to \$237,367. The increase in the Financial Warranty is due to the increases in the cost of fuel, equipment, and labor since the last update.

Please see the May 27, 2025 inspection report for details regarding why this surety increase is required.

On September 17, 2025, the Division ordered amendment of the current Financial Warranty or submittal of a new Financial Warranty reflecting the increase, within 60 days.

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567, or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit if the amount of any increased Financial Warranty has not been provided by November 16, 2025.

Bond Held:	\$188,616.00
Prior Liability:	\$188,616.00



Change in Liability:	\$48,751.00
Revised Liability:	\$237,367.00
Prior Permit Acreage:	238.10
Change in Permit Acreage:	0.00
Revised Permit Acreage:	238.10
Prior Affected Acreage:	122.96
Change in Affected Acreage:	0.00
Revised Affected Acreage:	122.96

If you have any questions, please contact me by telephone at (720) 688-0626, or by email at Todd.jesse@state.co.us.

Sincerely,

Todd Jesse

Environmental Protection Specialist

M-GR-04

COST SUMMARY WORK

Mamm	Creek Sand &	Gravel Per	rmit Action:	2025-06-17	Permit/Jol	o#: <u>M2000113</u>
<u>PROJECT</u>	DENTIFIC	<u>ATION</u>				
Task #:	000	State:	Colorado		Abbreviation:	None
Date:	6/17/2025	County:	Garfield		Filename:	M113-000
User:	TJ1					

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
01a	Demo onsite support facilities	DEMOLISH	1	80.00	\$70,663
02a	Mining Area E-Removal of Asphalt and Propane	DEMOLISH	1	40.00	\$32,985
	tank		_		
02b	Mining Area E-Rip compacted areas	RIPPER	2	1.90	\$1,314
02c	Mining Area E- Grade misc. stockpiles	DOZER	2	0.48	\$200
02d	Mining Area E- topsoil application	DOZER	2	2.65	\$1,705
02e	Mining Area E-Reveg 3 ac	REVEGE	1	5.00	\$6,729
03a	Mining Area C-Dewater pond	PUMPING	1	117.18	\$8,201
03b	Mining Area C-Grading slopes adjacent to river	DOZER	2	3.16	\$2,031
	and pad		_		
03c	Mining Area C-Topsoil graded slopes	DOZER	2	0.80	\$516
03d	Mining Area C-Reveg 1 ac	REVEGE	1	2.00	\$2,243
04a	Mining Area A-Rip compacted areas	RIPPER	2	7.63	\$5,256
04b	Mining Area B-Transport Topsoil	LOADER	2	35.38	\$7,707
04c	Mining Area A-Spread Topsoil	DOZER	2	6.60	\$4,248
04d	Mining Area A-Reveg 10 ac	REVEGE	1	13.00	\$22,430
05a	Mining Area B-Rip compacted areas	RIPPER	2	1.52	\$1,051
05b	Mining Area B- topsoil application	DOZER	2	2.43	\$1,565
05c	Mining Area B-Reveg 1 ac	REVEGE	1	2.50	\$4,486
06a	Initial Mobilization	MOBILIZE	1	2.40	\$9,611
06b	Secondary Mobilization	MOBILIZE	1	2.40	\$1,448
		SUBTO	OTALS:	327.03	\$184,389

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$3,725
Performance bond:	1.05	Total =	\$1,936
Job superintendent:	105.00	Total =	\$8,323

Total = \$18,439 Profit: 10.00

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$9,215

Reclamation management and/or administration: 5.00 \$10,841

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$52,978

TOTAL BOND AMOUNT (direct + indirect) = \$237,367

DEMOLITION WORK

Site: _	Mamm Creek Sand & Gra	avel	Permit Action:	2025-06-17	Permit/.	Job#:	M2000113
<u>OJE(</u>	CT IDENTIFICATION						
Γask #:	01A	State:	Colorado		Abbreviation:	None	e
Date:	6/17/2025	County:	Garfield		Filename:	M11	3-01a
	TJ1	-		_			

<u>UNIT COSTS</u> <u>Location adjustment: 102.20 %</u>

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale house	60' x 10' x 10'	Bldg. (SN) demo./off- site disposal in approved landfill - Max. 15 mile haul	6,000.00	CF	\$0.42	\$2,525.40
Scale house foundation	60' x 10'	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	140.00	LF	\$4.63	\$647.65
Scale- Loading/Hauling	70' x 8'	Loading and 2 mile haul, no salvage - Machine loading	20.00	CY	\$21.15	\$423.00
Scale-Hauling	70' x 8'	Hauling only, per mile, 12-18 CY truck - 50 mph average speed	10.00	MI	\$4.43	\$44.34
Scale-Footers	70' x 8'	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 10,000 ft. haul	32.00	LF	\$4.63	\$148.04
Conveyor-Belt Strucutre	900 LF x 10" W X 4" H	Conveyor, Demolition Cost only	36,000.00	CF	\$0.44	\$15,685.20
Conveyor-Load/Haul Belt Structure	36000 CF	Loading and 2 mile haul, no salvage - Machine loading	1,333.00	CY	\$21.15	\$28,192.95
Conveyor-Haul Belt Structure	10 mi x 75 trips	Hauling only, per mile, 12-18 CY truck - 50 mph average speed	750.00	MI	\$4.43	\$3,325.13
Conveyor- demo footers	3 pairs	Demo. and on-site disposal in existing pit, 2.0 ft. x 3 ft Max. 10,000 ft. haul	24.00	LF	\$13.88	\$333.08
Conveyor-metal support load/haul	3 pairs (2'Dia x 10'H)	Loading and 2 mile haul, no salvage - Machine loading	9.00	CY	\$21.15	\$190.35
Conveyor-metal support haul	10 mi x 9 cy	Hauling only, per mile, 12-18 CY truck - 50 mph average speed	10.00	MI	\$4.43	\$44.34
Conveyor-disposal fees	All non-rubble material	Dump fees - Building construction materials.	1,584.00	CY	\$11.10	\$17,582.40

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	80.00	(unadjusted):	\$69,141.88	location):	\$70,663.00

DEMOLITION WORK

Mining Area E-Removal of Asphalt and Propane tank

Task description:

Site: Mamm Cree	k Sand & Gravel	Permit Action: 2025-	06-17	Pe	ermit/Job#: _	M2000113
PROJECT IDENTII	FICATION					
Task #: 02A Date: 6/17/2025 User: TJ1	Cou			Abbreviat Filena		3-02a
Agency UNIT COSTS	or organization name	e: _ DRMS		Location	adjustment	: 95.50 %
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Demo asphalt pad	250' x 250'	Pavement, bituminous, demolition only - 4 in. to 6 in. thick	3,472.20	SY	\$8.66	\$30,069.25
Load asphalt for offsite disposal	31250 cu ft	Loading only, open areas (unconfined) - Track loader	1,158.00	CY	\$0.87	\$1,012.09
Haul asphalt to Casey Pit for Disposal	65 trips 12 miles	Hauling only, per mile, 12-18 CY truck - 50 mph average speed	780.00	MI	\$4.43	\$3,458.13
Job Hours:	40.00	Subtotal (unadjusted): \$34	,539.47	(adjı	otal Cost usted for ocation):	\$32,985.19

BULLDOZER RIPPING WORK

	Task description:	Mini	ng Area E-Rip compact	ed areas			
Site	: Mamm Creek	Sand & Grave	Permit Action:	2025-06-17	Permit/Jo	b#: <u>M20001</u>	13
	PROJECT ID	ENTIFICATI	<u>ON</u>				
	Task #: 021	В	State: Colorado		Abbreviatio	n: None	
		7/2025	County: Garfield		Filenam		b
	User: TJ	1					
	Agency	or organization	name: DRMS				
	HOURLY EQ	UIPMENT CO	<u>OST</u>				
	Basic	Machine: Cat	D8T - 8SU		Horsepower:	310	
	Ripper Att	achment: 3-S	hank Ripper		Shift Basis:	1 per day	
					Data Source:	(CRG)	
	Cost Breakdown:	<u>:</u>		ı.			
			. ***	\$150.00	Utilization %		
		Ownership Co Operating Co		\$173.32 \$109.71	NA 100		
	Rinne	er Ownership Co		\$109.71	NA		
		per Operating Co		\$7.95	100		
	11	Operator Co		\$38.59	NA		
		Total Unit Co	ost/Hour:	\$344.10			
		Total Fleet Co	ost/Hour: \$688	3.19			
	MATERIAL (OUANTITIES	Sele	cted estimating	g method: Area		
	Alternate Method		Sele	ottod ostimating	, metrou. <u>Theu</u>		
Seismic:	NA	<u></u>	Bank Volume:	NA	BCY	NA	
Area:	2.50	acres	Rip Depth (ft):	2.00	Volume: 8,067	INA	BCY or CC
		Source of estir	nated quantity: Onsite				
	HOURLY PRO						
		<u> Decrion</u>					
	Seismic:	•	Seismic Velocity:	NA	feet/second		
			Jeisinic velocity.	IVA	record		
	Area:	A	- Dinnin - Donath	2.56	£		
			e Ripping Depth: e Ripping Width:	2.56 7.08	feet/pass feet/pass		
			Ripping Length:	250.00	feet/pass		
		_	age Dozer Speed:	88.00	feet/minute		
			Maneuver Time:	0.25	minutes/pass		
		Product	tion per unit area:	0.789	acres/hour		
	Job Condition Co	orrection Factors					
	Un	adjusted Hourly	Unit Production:	0.789	Acres/hr		
			Site Altitude:	5,350	feet		
			Altitude Adj:	1.00	(CAT HB)		
			Job Efficiency:	0.83	(1 shift/day)		
			Net Correction:	0.83	multiplier		
		Adjusted	Hourly Unit Production:	0.65	Acres/hr		
		Adjusted 1	Hourly Fleet Production:	1.31	Acres/hr		
	JOB TIME AN	ND COST					
	Fleet size:	2	Grader(s)	Total job tim	ne: 1.91	Но	urs
	Unit cost:	\$525.601	Per acre	Total job cos	st: \$1,314		

BULLDOZER WORK

Mamm Creek San		Permit Action:	<u> </u>	_ Permit/Job#:	
PROJECT IDENT	<u>IFICATION</u>				
Task #: 02C	St	ate: Colorado		Abbreviation:	None
Date: 6/17/202	25 Cou			Filename:	M113-02c
User: TJ1		·			
Agency or or	ganization name:	DRMS			
rigency of of	gamzation name.	Didvis			
HOURLY EQUIPM	MENT COST				
Basic Machine:	Cat D8T - 8SU				
	310		<u> </u>		
	Semi-Universal		<u> </u>		
	NA .		<u>—</u>		
	1 per day		<u> </u>		
Data Source:((CRG)		<u> </u>		
Cost Breakdown:					
0 11 0 177		0170.00	<u>Utilization %</u>		
Ownership Cost/Hou		\$173.32 \$109.71	NA 100		
Operating Cost/Hou Ripper own. Cost/Hou		\$0.00	NA		
Ripper op. Cost/Hou		\$0.00	0		
Operator Cost/Hou		\$38.59	NA		
operator cost frou		Ψ30.37	IVA		
Total unit Cost/Hour:	\$321.62				
Total Fleet Cost/Hour:	\$643.23				
MATERIAL QUA	<u>NTITIES</u>				
Initial Volume: 50	00				
Swell factor: 1.	.060				
Loose volume: 53	30 LCY				
a	olume: Divi	sion of Reclamati			
Source of estimated vo	nume. Divi		on Mining & Safety		
Source of estimated vo	vell factor: Cat		on, Mining & Safety		
Source of estimated vo Source of estimated sv	vell factor: Cat	Handbook	on, Mining & Safety		
Source of estimated sv			on, Mining & Safety		
Source of estimated sv HOURLY PRODU	CTION	Handbook	on, Mining & Safety		
Source of estimated sv HOURLY PRODU Average push distance	CTION 50 feet	Handbook i	on, Mining & Safety		
Source of estimated sv HOURLY PRODU	CTION 50 feet	Handbook	on, Mining & Safety		
Source of estimated sv HOURLY PRODU Average push distance	CTION	Handbook i			
HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency	E: 50 feet duction: 1,400.0 description:	Handbook t 0 LCY/hr			
Source of estimated sy HOURLY PRODU Average push distance Unadjusted hourly pro	E: 50 feet duction: 1,400.0 description:	Handbook t 0 LCY/hr			
HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient	CTION	Handbook t 0 LCY/hr			
HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient	CTION	Handbook t 0 LCY/hr onsolidated stockp			
HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight:	SCTION	Handbook t 0 LCY/hr onsolidated stockr			
HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description:	Solution: 50 feet	Handbook t 0 LCY/hr onsolidated stockr	pile 1.0		
HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct	Solution Solution	Handbook t 0 LCY/hr onsolidated stockp	pile 1.0		
HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct Operat	Solution Solution Solution Solution Columbia Solution Columbia Solution Solution	t 0 LCY/hr onsolidated stockr Y vel - Dry 0.750	oile 1.0 Source (AVG.)		
HOURLY PRODU Average push distance Unadjusted hourly pro Materials consistency Average push gradient Average site altitude: Material weight: Weight description: Job Condition Correct Operat Material cons	Solution Solution Solution Solution Columbia Solution Columbia Solution Solution	Handbook t 0 LCY/hr onsolidated 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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3949

Adjusted unit production: 552.86 LCY/hr
Adjusted fleet production: 1105.72 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.582/LCY

Total job time: 0.48 Hours
Total job cost: \$308

BULLDOZER WORK

Task description: Mining	Area E- topsoil appl	ication		
Mamm Creek Sand & Gravel	Permit Action:	2025-06-17	Permit/Job#:	M2000113
PROJECT IDENTIFICATION				
Task #: 02D	State: Colorado		Abbreviation:	None
Date: 6/17/2025	County: Garfield		Filename:	M113-02d
User: TJ1				
Agency or organization nar	ne: DRMS			
HOURLY EQUIPMENT COST				
Basic Machine: Cat D8T - 8SU				
Horsepower: 310				
Blade Type: Semi-Universa	1			
Attachment: NA		<u></u>		
Shift Basis: 1 per day				
Data Source: (CRG)				
Cost Breakdown:				
		<u>Utilization %</u>		
Ownership Cost/Hour:	\$173.32	NA		
Operating Cost/Hour:	\$109.71	100		
Ripper own. Cost/Hour:	\$0.00	NA 0		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$38.59	NA		
Total unit Cost/Hour: \$321.62				
Total Fleet Cost/Hour: \$643.23				
MATERIAL QUANTITIES Initial Volume: 3,630				
Swell factor: 1.115				
Loose volume: 4,047 LCY				
Source of estimated volume:	3 ac at 9" depth			
Source of estimated swell factor:	Cat Handbook			
HOURLY PRODUCTION				
Average push distance: 50	feet			
<u> </u>	400.0 LCY/hr			
Materials consistency description:	Consolidated stock	pile 1.0		
Average push gradient: 0 % Average site altitude: 5,350 fee	t			
Material weight: 2,100 lbs	/LCY		_	
Weight description: Earth - L	oam			
Job Condition Correction Factor		Source		
Operator Skill:	0.750	(AVG.)		
Material consistency:	1.000	(CAT HB)		
Dozing method:	1.000	(GEN.)		
Visibility:	1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5453

Adjusted unit production: 763.42 LCY/hr
Adjusted fleet production: 1526.84 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.421/LCY

Total job time: 2.65 Hours
Total job cost: \$1,705

REVEGETATION WORK

Mamm Creek Sand	& Gravel Per	Reveg 3 ac rmit Action: 2025	5-06-17	Permit/Job	#: <u>M2000113</u>
ROJECT IDENTIFI	<u>ICATION</u>				
Task #: 02E	State:	Colorado		Abbreviation:	None
Date: 6/17/2025 User: TJ1	County:	Garfield		Filename:	M113-02e
	nization name: <u>DR</u>	RMS			
ERTILIZING					
<u> </u>					T
Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
				\$	\$
				Total Fertilizer Materials	
				Cost/Acre	\$0.00
pplication					
ррисацоп					
Description					Cost /Acre
		Total	l Fertilizer A	.pplication Cost/Acre	\$
		Total	l Fertilizer A	pplication Cost/Acre	\$
Description TILLING		Total	l Fertilizer A	pplication Cost/Acre	\$
Description	ep (MEANS 32 91 13		l Fertilizer A	pplication Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	1.50	4.86	\$25.83
Big Bluegrass - Sherman	1.00	20.66	\$15.85
Intermediate Wheatgrass - Rush	1.50	3.20	\$7.10
Milk Vetch, Cicer - Lutana	0.50	1.66	\$4.89
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.50	2.08	\$4.32
Sage, Fringed	0.25	20.89	\$24.81
Saltbush, Shadscale	0.50	0.75	\$9.04
Penstemon, Rocky Mountain	0.25	3.92	\$15.35

Reveg Worksheet Cont'd	Reveg	Wor	ksheet	Cont'	ď
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Totals Seed Mix	7.50	61.81	\$120.75

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.13	\$4.13
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$3.86	\$3.86
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$993.55

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$85.37
Power mulcher (MEANS 32 91 13.16 0350)		\$157.25
Weed spray, truck, non-aquatic area, nox. [DMG]		\$83.26
	Total Mulch Application Cost/Acre	\$325.89

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

JOB TIME AND COST

No. of Acres: $\frac{3}{25\%}$ Cost /Acre: $\frac{\$1,794.44}{\$1,794.44}$ Estimated Failure Rate: $\frac{3}{25\%}$ Cost /Acre*: $\frac{\$1,794.44}{\$1,794.44}$

*Selected Replanting Work Items: __TILLING,SEEDING,MULCHING

Initial Job Cost: \$5,383.32

Reseeding Job Cost: \$1,345.83

Total Job Cost: \$6,729

5.00

PUMPING WORK

		Area C-Dewater	•		
: Mamm Creek Sand &	& Gravel	Permit Action	on: 2025-06-17	Permit/Job#:	M2000113
PROJECT IDENTIF	<u>ICATION</u>				
Task #: 03A		State: Colora	ado	Abbreviation:	None
Date: $\frac{6/18/2025}{}$		County: Garfie		Filename:	M113-03a
User: TJ1					
Agency or orga	nization nan	ne: DRMS			
HOURLY EQUIPME	ENT COST	<u> </u>			
	Description	- on		Quantity	
Make and Model:		ble pump - 460v,	8 in.	3	
Attachment 1:		ose - 6 in. diam.,		3	
Attachment 2:		e hose - 6 in. D., 2		24	
Labor Unit 1:	Pump ope		-5 11.	1	
Horsepower:	95				
	per day	-			
	0.70	.			
	S Tons)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/l	Hour:	\$34.71	NA		
Operating Cost/l	Hour:	\$13.20	100		
Operator Cost/l	Hour:	\$22.07	NA		
Total Unit Cost/l	Hour:	\$69.98			
Total Fleet Cost/	Hour:	\$69.98			
PUMPING QUANTI		7 - 2 - 2			
	<u>_</u>				
Initial Dand Val	uma:	105.00		Conversion factors	225850 5800
Initial Pond Vol		195.00	gallons	Conversion factor:	325850.5800
Final Pond Vol	ume:	195.00 63,540,863.10	gallons		325850.5800
Final Pond Vol Total Pond Inflow Su	ume:	63,540,863.10		Unit inflow rate in	
Final Pond Vol Total Pond Inflow Su	ume: rface Area:		gallons Sq. ft.		325850.5800 0.1758
Final Pond Vol Total Pond Inflow Su Total Pond Inflow Vo	ume: rface Area: lume	63,540,863.10 40,000	Sq. ft.	Unit inflow rate in	
Final Pond Vol Total Pond Inflow Su Total Pond Inflow Vo per H	ume: rface Area: lume Hour:	63,540,863.10 40,000 7,032.00	Sq. ft.	Unit inflow rate in gph/sq. ft.:	
Final Pond Vol Total Pond Inflow Su Total Pond Inflow Vo per F Source of	ume: rface Area: lume	63,540,863.10 40,000 7,032.00	Sq. ft.	Unit inflow rate in gph/sq. ft.:	
Final Pond Vol Total Pond Inflow Su Total Pond Inflow Vo per F Source of	ume: rface Area: lume Hour: of estimated	40,000 7,032.00 volume: 13 ac	Sq. ft. gallons pond, pumped down 1.	Unit inflow rate in gph/sq. ft.:	
Final Pond Vol Total Pond Inflow Su Total Pond Inflow Vo per H Source of PUMPING TIME	ume: rface Area: lume Hour: of estimated	63,540,863.10 40,000 7,032.00 volume: 13 ac	Sq. ft. gallons pond, pumped down 1. 170,000	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump	
Final Pond Vol Total Pond Inflow Su Total Pond Inflow Vo per F Source of PUMPING TIME	ume:	40,000 7,032.00 volume: 13 ac p Capacity: ction Head:	Sq. ft. gallons pond, pumped down 1. 170,000 10	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump feet	
Final Pond Vol Total Pond Inflow Su Total Pond Inflow Vo per H Source of PUMPING TIME	ume: rface Area: lume Hour: of estimated kimum Pump stimated Suc mated Disch	40,000 7,032.00 volume: 13 ac p Capacity: ction Head: arge Head:	Sq. ft. gallons pond, pumped down 1. 170,000 10 10	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump feet feet feet	
Final Pond Vol Total Pond Inflow Su Total Pond Inflow Vo per F Source of PUMPING TIME	ume: rface Area: lume Hour: of estimated ximum Pump stimated Suc mated Disch	63,540,863.10 40,000 7,032.00 volume: 13 accept Capacity: etion Head: arge Head: Fotal Head:	Sq. ft. gallons pond, pumped down 1. 170,000 10 10 20	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump feet feet feet feet	
Final Pond Vol Total Pond Inflow Su Total Pond Inflow Vo per F Source of PUMPING TIME	ume: rface Area: lume Hour: of estimated ximum Pump stimated Suc mated Disch CPB Pump	40,000 7,032.00 volume: 13 ac p Capacity: ction Head: arge Head: Cotal Head: p Capacity: ction Head: ction Head	Sq. ft. gallons pond, pumped down 1 170,000 10 10 20 168,000	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump feet feet feet gph/pump	
Final Pond Vol Total Pond Inflow Su Total Pond Inflow Vo per H Source of PUMPING TIME	ume: rface Area: lume Hour: of estimated ximum Pump stimated Suc mated Disch CPB Pump	63,540,863.10 40,000 7,032.00 volume: 13 accept Capacity: etion Head: arge Head: Fotal Head:	Sq. ft. gallons pond, pumped down 1. 170,000 10 10 20	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump feet feet feet feet	
Final Pond Vol Total Pond Inflow Sur Total Pond Inflow Vol per F Source of PUMPING TIME Max External Estin	ume: rface Area: lume Hour: of estimated ximum Pump stimated Suc mated Disch CPB Pump Sin	40,000 7,032.00 volume: 13 according Capacity: extraction Head: earge Head: Fotal Head: p Capacity: ete Altitude: extractions are considered.	Sq. ft. gallons pond, pumped down 1 170,000 10 10 20 168,000 5,330	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump feet feet feet gph/pump feet feet feet gph/pump feet	
Final Pond Vol Total Pond Inflow Sur Total Pond Inflow Vol per F Source of PUMPING TIME Max External Estin	ume: rface Area: lume Hour: of estimated ximum Pump stimated Suc mated Disch CPB Pump Sin	40,000 7,032.00 volume: 13 according Capacity: extraction Head: exarge Head: Fotal Head: exp Capacity: ete Altitude: exp Capacity: ete Altitude: exp Capacity: exp Capac	Sq. ft. gallons pond, pumped down 1 170,000 10 10 20 168,000 5,330	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump feet feet feet gph/pump feet gph/pump get	
Final Pond Vol. Total Pond Inflow Sur. Total Pond Inflow Vol. per F. Source of PUMPING TIME Max. Estimates a survey of the surv	ume: rface Area: lume Hour: of estimated ximum Pump stimated Disch TCPB Pump Sinted Pumping djusted Pum	40,000 7,032.00 volume: 13 ac p Capacity: ction Head: arge Head: Cotal Head: p Capacity: te Altitude: g Capacity: ping Time:	Sq. ft. gallons pond, pumped down 1 170,000 10 10 20 168,000 5,330 504,000 126.07	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump feet feet feet gph/pump feet gph/pump feet gph/pump	
Final Pond Vol Total Pond Inflow Sur Total Pond Inflow Vol per F Source of PUMPING TIME Max Extin Adjus Initial Unac Inflow of	ume: rface Area: lume Hour: of estimated ximum Pump stimated Disch CPB Pump Sireted Pumping djusted Pum during Initia	40,000 7,032.00 volume:13 acc p Capacity:ction Head: arge Head: fotal Head: p Capacity: te Altitude: g Capacity: ping Time: 1 Pumping:	Sq. ft. gallons pond, pumped down 1 170,000 10 10 20 168,000 5,330 504,000 126.07 886,546	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump feet feet feet gph/pump feet gph/pump feet gph hours gallons	
Final Pond Vol Total Pond Inflow Sur Total Pond Inflow Vol per F Source of PUMPING TIME Max Extin Adjus Initial Unac Inflow of Net Unac	ume: rface Area: lume Hour: of estimated kimum Pump stimated Disch CPB Pump Sin sted Pumping djusted Pum during Initia djusted Pum	40,000 7,032.00 volume: 13 ac p Capacity: ction Head: arge Head: p Capacity: te Altitude: g Capacity: ping Time: 1 Pumping: ping Time:	Sq. ft. gallons pond, pumped down 1 170,000 10 10 20 168,000 5,330 504,000 126.07 886,546 127.83	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump feet feet feet gph/pump feet gph/pump feet deet gph/pump feet Hours gallons Hours	
Final Pond Vol Total Pond Inflow Sur Total Pond Inflow Vol per H Source of PUMPING TIME Max Ex Extin Adjus Initial Unad Inflow of Net Unad Altitu	ume: rface Area: lume Hour: of estimated ximum Pump stimated Suc mated Disch CPB Pump Sir sted Pumping djusted Pum during Initia djusted Pum ude Adjustm	40,000 7,032.00 volume: 13 acc p Capacity: etion Head: arge Head: Cotal Head: p Capacity: et Altitude: g Capacity: ping Time: 1 Pumping: ping Time: lent Factor:	Sq. ft. gallons pond, pumped down 1 170,000 10 10 20 168,000 5,330 504,000 126.07 886,546 127.83 1.0000	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump feet feet feet gph/pump feet gph hours gallons Hours (3% rule)	
Final Pond Vol Total Pond Inflow Sur Total Pond Inflow Vol per F Source of PUMPING TIME Max Extra Estin Adjus Initial Unad Inflow of Net Unad Altitu	ume: rface Area: lume Hour: of estimated ximum Pump stimated Suc mated Disch CPB Pump Sin sted Pumping djusted Pum during Initia djusted Pum ude Adjustm ump Efficie	40,000 7,032.00 volume: 13 according Capacity: etion Head: earge Head: Fotal Head: p Capacity: et Altitude: et Altitude: et Capacity:	Sq. ft. gallons pond, pumped down 1. 170,000 10 10 20 168,000 5,330 504,000 126.07 886,546 127.83 1.0000 0.9167	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump feet feet feet gph/pump feet gph/pump feet deet gph/pump feet Hours gallons Hours	
Final Pond Vol. Total Pond Inflow Sur. Total Pond Inflow Vol. Per F. Source of PUMPING TIME Max. Extin Adjust Initial Unact Inflow of Net Unact Altitut P. Total Ad	ume: rface Area: lume Hour: of estimated kimum Pump stimated Disch CPB Pump Sin sted Pumping djusted Pum during Initia djusted Pum ude Adjusted rump Efficie djusted Pum	40,000 7,032.00 volume: 13 according Capacity: etion Head: earge Head: Fotal Head: p Capacity: et Altitude: et Altitude: et Capacity:	Sq. ft. gallons pond, pumped down 1 170,000 10 10 20 168,000 5,330 504,000 126.07 886,546 127.83 1.0000	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump feet feet feet gph/pump feet gph hours gallons Hours (3% rule) (55 min./hr.)	0.1758
Final Pond Vol. Total Pond Inflow Sur. Total Pond Inflow Vol. per H. Source of PUMPING TIME Max. Extra Extra Adjust Initial Unact Inflow of Net Unact Altitut P	ume: rface Area: lume Hour: of estimated kimum Pump stimated Disch CPB Pump Sin sted Pumping djusted Pum during Initia djusted Pum ude Adjusted rump Efficie djusted Pum	40,000 7,032.00 volume: 13 according Capacity: etion Head: earge Head: Fotal Head: p Capacity: et Altitude: et Altitude: et Capacity:	Sq. ft. gallons pond, pumped down 1. 170,000 10 10 20 168,000 5,330 504,000 126.07 886,546 127.83 1.0000 0.9167	Unit inflow rate in gph/sq. ft.: 5 ft deep gph/pump feet feet feet gph/pump feet gph hours gallons Hours (3% rule) (55 min./hr.) hours	

BULLDOZER WORK

DDA IEAT IDENTIEIA	'A TION				
PROJECT IDENTIFIC					
Task #: 03B	State:	Colorado		Abbreviation:	None
Date: 6/17/2025 User: TJ1	County:	Garfield		Filename:	M113-03b
Agency or organiz	zation name: <u>DR</u>	MS			
HOURLY EQUIPMEN	T COST				
Basic Machine: Cat D	98T - 8SU				
Horsepower: 310					
• • • • • • • • • • • • • • • • • • • •	-Universal		<u> </u>		
Attachment: NA			<u> </u>		
Shift Basis: 1 per			<u> </u>		
Data Source: (CRC	1)		<u></u>		
Cost Breakdown:		ı			
Overnoushin Cont/Hann		¢172.22	<u>Utilization %</u>		
Ownership Cost/Hour: Operating Cost/Hour:		\$173.32 \$109.71	NA 100		
Ripper own. Cost/Hour:		\$0.00	NA		
Ripper op. Cost/Hour:		\$0.00	0		
Operator Cost/Hour:		\$38.59	NA		
		,			
	\$321.62				
Total Fleet Cost/Hour:	\$643.23				
MATERIAL QUANTI	<u> </u>				
Initial Volume: 3,125					
Swell factor: 1.050					
Loose volume: 3,281	LCY	_			
Source of estimated volume	2000 LE 1	— 15'H 2:1 to 3	2 ∙ 1		
Source of estimated wording).1		
	<u> </u>	0001			
HOURLY PRODUCTI	ON				
Average push distance:	50 feet	i7 /h.a.			
Unadjusted hourly producti	on: 1,400.0 LC	1 / III			
Materials consistency descr	iption: Compa	cted fill or e	mbankment 0.9		
Average push gradient:	-10 %				
	5,350 feet	_			
	2 400 # ~ ====				
Material weight:	3,400 lbs/LCY			_	
Weight description:	Sand and gravel - '	Wet			
Job Condition Correction F	actor		<u>Source</u>		
Operator Sk		750	(AVG.)		
Material consisten	cy: 0.	900	(CAT HB))		
Dozing meth		000	(GEN.)		
Visibil	ity: 1	000	(AVG.)		

0.830	(1 SHIFT/DAY)
0.800	(FND-RF)
1.225	(CAT HB)
1.000	(CAT HB)
0.676	(CAT HB)
1.000	(PAT)
	0.800 1.225 1.000 0.676

Net correction: 0.3712

Adjusted unit production: 519.68 LCY/hr
Adjusted fleet production: 1039.36 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.619/LCY

Total job time: 3.16 Hours
Total job cost: \$2,031

BULLDOZER WORK

Task description:	Mining	Area C-Topsoil gra	aded slopes		
e: Mamm Creek Sa	nd & Gravel	Permit Action	2025-06-17	Permit/Job#:	M2000113
PROJECT IDEN	<u> </u>	<u>I</u>			
Task #: 03C		State: Colorado)	Abbreviation:	None
Date: $\frac{6/17/26}{6}$	025	County: Garfield		Filename:	M113-03c
User: TJ1				1 11011011101	1,1110 000
	organization na	me: DRMS			
HOURLY EQUIP					
Basic Machine:	Cat D8T - 8SU	_			
Horsepower:	310)			
Blade Type:	Semi-Universa	a1			
Attachment:	NA	#I			
Shift Basis:	1 per day				
Data Source:	(CRG)				
Data Source:	(CNU)				
Cost Breakdown:			1		
			<u>Utilization %</u>		
Ownership Cost/Ho		\$173.32			
Operating Cost/Ho		\$109.71			
Ripper own. Cost/Ho	our:	\$0.00	NA		
Ripper op. Cost/Ho	our:	\$0.00	0		
Operator Cost/Ho	our:	\$38.59	NA		
T . 1 C TI	\$221.62				
Total unit Cost/Hour					
Total Fleet Cost/Hou	r: \$643.23				
MATERIAL QUA	ANTITIFS				
Initial Volume:	1,210				
Swell factor:	1.115				
Loose volume:	1,349 LCY				
Course of estimated		1 ac @ 9"			
Source of estimated source of estimated		Cat Handbook			
Source of estimated	swell factor:	Cat Halldbook			
HOURLY PROD	<u>UCTION</u>				
Average push distant	ce: 50) feet			
Unadjusted hourly pr		400.0 LCY/hr			
Materials consistency	y description:	Compacted fill or	embankment 0.9		
Average push gradie Average site altitude		et			
Material weight:		s/LCY			
Weight description:	Earth - L	oam			
Job Condition Correct		0.750	Source		
	ator Skill:	0.750	(AVG.)		
Material co		0.900	(CEN.)		
	g method:	1.000	(GEN.)		
`	Visibility:	1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6012

Adjusted unit production: 841.68 LCY/hr
Adjusted fleet production: 1683.36 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.382/LCY

Total job time: 0.80 Hours
Total job cost: \$516

REVEGETATION WORK

Mamm Creek Sand & G	ravel Permi	reg 1 ac t Action: 2025	-06-17	Permit/Job#	: <u>M2000113</u>
PROJECT IDENTIFICA	<u>TION</u>				
Task #: 03D Date: 6/17/2025 User: TJ1 Agency or organizat	County: G	colorado Farfield			None M113-03d
<u>FERTILIZING</u>					
Materials Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
				\$	\$
				Total Fertilizer	
				Materials Cost/Acre	\$0.00
Application					\$0.00
Application Description					\$0.00 Cost /Acre
		Total	Fertilizer A		Cost /Acre
Description		Total	Fertilizer A	Cost/Acre	Cost /Acre
Description FILLING Description			Fertilizer A	Cost/Acre	Cost /Acre \$ \$0.00
TILLING	MEANS 32 91 13.23		Fertilizer A	Cost/Acre	Cost /Acre \$ \$0.00

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	1.50	4.86	\$25.83
Big Bluegrass - Sherman	1.00	20.66	\$15.85
Intermediate Wheatgrass - Rush	1.50	3.20	\$7.10
Milk Vetch, Cicer - Lutana	0.50	1.66	\$4.89
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.50	2.08	\$4.32
Sage, Fringed	0.25	20.89	\$24.81
			\$

Totals Seed Mix	\$
	Cost /Acre
	\$
	Totals Seed Mix

Total Seed Application Cost/Acre

MULCHING and MISCELLANEOUS

Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.13	\$4.13
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$3.86	\$3.86
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$993.55

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$85.37
Power mulcher (MEANS 32 91 13.16 0350)		\$157.25
Weed spray, truck, non-aquatic area, nox. [DMG]		\$83.26
	Total Mulch Application Cost/Acre	\$325.89

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Totals 2	Nursery Stoc	ck Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres:	1	Cost /Acre:	\$1,794.44	
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,794.44	
*Selected Replanting Work Items:	TILLING,SEEDIN	IG,MULCHING		
Initial Job Cost: \$1,794.44				

Initial Job Cost: \$1,794.44

Reseeding Job Cost: \$448.61

Total Job Hours: \$2,243

2.00

BULLDOZER RIPPING WORK

	Task description:	Mini	ng Area A-Rip compact	ed areas			
Site:	: Mamm Creek	Sand & Grave	Permit Action:	2025-06-17	Permit/Joh	o#: <u>M20001</u>	13
	PROJECT IDI	ENTIFICATION	<u>ON</u>				
	Task #: 04A	A	State: Colorado		Abbreviation	: None	
		7/2025	County: Garfield		Filename		·a
	User: TJ1	:					
	Agency	or organization	name: DRMS				
	HOURLY EQ	UIPMENT CO	<u>OST</u>				
	Basic I	Machine: Cat	D8T - 8SU		Horsepower:	310	
	Ripper Atta	achment: 3-S	hank Ripper			1 per day	
					Data Source:	(CRG)	
	Cost Breakdown:			1			
		0 11 0	. ***	0150.00	Utilization %		
		Ownership Co		\$173.32 \$109.71	NA 100		
	Rinne	Operating Co er Ownership Co		\$109.71	100 NA		
		per Operating Co		\$7.95	100		
		Operator Co		\$38.59	NA		
		Total Unit Co	ost/Hour:	\$344.10			
		Total Fleet Co	ost/Hour: \$688	3.19			
	MATERIAL Q	UANTITIES	Sele	ected estimating	method: Area		
	Alternate Method		Sele	etea estimating	method: Thed		
Seismic:	NA		Bank Volume:	NA	ВСҮ	NA	
Area:	10.00	acres	Rip Depth (ft):	2.00	Volume: 32,267	IVA	BCY or CCY
		Source of estir	nated quantity: Onsite				
	HOURLY PRO		1 7				
		<u>DECTION</u>					
	Seismic:	5	Seismic Velocity:	NA	feet/second		
	Area:	Avarag	e Ripping Depth:	2.56	feet/pass		
			e Ripping Width:	7.08	feet/pass		
			Ripping Length:	250.00	feet/pass		
		_	age Dozer Speed:	88.00	feet/minute		
			Maneuver Time:	0.25	minutes/pass		
		Product	ion per unit area:	0.789	acres/hour		
	Job Condition Co	rrection Factors					
	Un	adjusted Hourly	Unit Production:	0.789	Acres/hr		
			Site Altitude:	5,350	feet		
			Altitude Adj:	1.00	(CAT HB)		
			Job Efficiency:	0.83	(1 shift/day)		
			Net Correction:	0.83	multiplier		
			Hourly Unit Production:	0.65	Acres/hr		
		Adjusted l	Hourly Fleet Production:	1.31	Acres/hr		
	JOB TIME AN	ID COST					
	Fleet size:	2	Grader(s)	Total job tim	e: 7.64	Но	urs
	Unit cost:	\$525.601	Per acre	Total job cos	st: \$5,256		

WHEEL LOADER – LOAD AND CARRY WORK

PROJECT IDENTIFICATION	Task description:	Mining A	Area B-Transpo	ort Topsoil			
Task #:	: _Mamm Creek Sa	nd & Gravel	Permit Acti	on: 2025-06-	17	Permit/Job#:	M2000113
Task #: 04B	PROJECT IDEN	TIFICATION					
Basic Machine:	Task #: 04B Date: 6/18/2						None M113-04b
Basic Machine: CAT 950H Horsepower: 197	Agency or	organization nam	ne: DRMS				
Attachment 1: ROPS Cab Bais: Data Source: 1 per day (CRG)	HOURLY EQUI	PMENT COST	1				
Ownership Cost/Hour: \$36.61 NA				_	Shift Ba	asis: 1 p	er day
Ownership Cost/Hour: \$35.43 100	Cost Breakdown:			11/11	0/		,
MATERIAL QUANTITIES	Operating C Operator C	Cost/Hour:	\$35.43 \$36.85	NA 100			
Initial volume: 12,100							
Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.500 minute Cycle Time Factors Factor (min.) Source Material: Material 3/4" to 6" diameter 0.00 0.000 (Cat HE Stockpile: Conveyor or dozer piled 10 ft. high or less 0.01 0.010 (Cat HE Truck Ownership: Common ownership of trucks and loaders -0.04 -0.040 (Cat HE Operation: Constant operation -0.04 -0.040 (Cat HE Dump Target: Nominal target 0.00 0.000 (Cat HE Net Cycle Time Adjustment: -0.070 minute Adjusted Basic Cycle Time: 0.430 minute Rolling Resistance - Road Conditions Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 8.0 Haul and Return Time Length (feet) Grade Res. Rolling Res. (%) Total Res. Travel Time (minutes) Source Haul Route: 250 0.00 8.00 8.00 0.2899 (Cat HE	Loose volume:	13,492 arce of estimated	LCY volume: 12 a	c @ 9" depth		13	
Cycle Time Factors Factor (min.) Source Material: Material 3/4" to 6" diameter 0.00 0.000 (Cat HE Stockpile: Conveyor or dozer piled 10 ft. high or less 0.01 0.010 (Cat HE Truck Ownership: Common ownership of trucks and loaders -0.04 -0.040 (Cat HE Operation: Constant operation -0.04 -0.040 (Cat HE Operation: Dump Target: Nominal target 0.00 0.000 (Cat HE Operation: Net Cycle Time Adjustment: -0.070 minute Adjusted Basic Cycle Time: 0.430 minute Rolling Resistance - Road Conditions Haul: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Return: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Haul and Return Time Length (feet) Grade Res. (Rolling Res. (%) Travel Time (minutes) Source (minutes) Haul Route: 250 0.00 8.00 8.00 0.2899 (Cat HE Operation)	HOURLY PROD	<u>UCTION</u>					
Material: Material 3/4" to 6" diameter 0.00 0.000 (Cat HE Stockpile: Conveyor or dozer piled 10 ft. high or less 0.01 0.010 (Cat HE Truck Ownership: Common ownership of trucks and loaders -0.04 -0.040 (Cat HE Operation: Operation: Constant operation -0.04 -0.040 (Cat HE Operation: Dump Target: Nominal target 0.00 0.000 (Cat HE Operation: Net Cycle Time Adjustment: -0.070 minute Adjusted Basic Cycle Time: 0.430 minute Rolling Resistance - Road Conditions Adjusted Basic Cycle Time: 0.430 minute Return: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Soft, rutted Res. Travel Time (minutes) Source (minutes) Cat HE Operation:	<u>Loader Cycle Time:</u>	Unadjuste	ed Basic Cycle T	ime (load, dum	p, maneuver):	0.500	minutes
Stockpile: Conveyor or dozer piled 10 ft. high or less 0.01 0.010 (Cat HE Truck Ownership: Common ownership of trucks and loaders -0.04 -0.040 (Cat HE Operation: Constant operation -0.04 -0.040 (Cat HE Dump Target: Nominal target 0.00 0.000 (Cat HE Adjustment: -0.070 minute Adjusted Basic Cycle Time: 0.430 minute Mall: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Return: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Mall and Return Time Length Grade Res. Rolling Total Res. Travel Time Source (feet) (%) Res. (%) (%) (minutes) Source (Cat HE Cat	Cycle Time I	Factors				Factor (min.)	Source
Truck Ownership: Common ownership of trucks and loaders -0.04 -0.040 (Cat HE Operation: Constant operation -0.04 -0.040 (Cat HE Dump Target: Nominal target 0.00 0.000 (Cat HE Net Cycle Time Adjustment: -0.070 minute Adjusted Basic Cycle Time: 0.430 minute Malice Resistance - Road Conditions Haul: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Haul and Return Time Length Grade Res. Rolling Total Res. Travel Time (feet) (%) Res. (%) (%) (minutes) Source Malice Res. Rolling Res. (%) (%) (%) (minutes) Source Res. (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)							(Cat HB)
Operation: Constant operation -0.04 -0.040 (Cat HE Dump Target: Nominal target 0.00 0.000 (Cat HE Dump Target: Net Cycle Time Adjustment: -0.070 minute Rolling Resistance – Road Conditions Haul: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Return: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Haul and Return Time Length (feet) (%) Res. (%) (%) (minutes) Source Haul Route: 250 0.00 8.00 8.00 0.2899 (Cat HE							(Cat HB)
Dump Target: Nominal target 0.00 (Cat HE Net Cycle Time Adjustment: 40.070 minute 20.070 minute 20.070 minute 20.0430 m					lers -0.04		(Cat HB)
Net Cycle Time Adjustment:)4			
Adjusted Basic Cycle Time: 0.430 minute Rolling Resistance – Road Conditions Haul: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Return: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Haul and Return Time Length Grade Res. Rolling Total Res. Travel Time (feet) (%) Res. (%) (%) (minutes) Haul Route: 250 0.00 8.00 8.00 0.2899 (Cat HE	Dunip	rarget: Nomin		t Cycle Time A	diustment:		
Rolling Resistance – Road Conditions Haul: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Return: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Haul and Return Time Length Grade Res. Rolling Total Res. Travel Time (feet) (%) Res. (%) (%) (minutes) Haul Route: 250 0.00 8.00 8.00 0.2899 (Cat HE							minutes
Return: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0 Haul and Return Time Length (feet) (%) Res. (%) (%) (minutes) Source (feet) (%) 8.00 8.00 0.2899 (Cat HE	Rolling Resistance –	Road Condition		.,	,		
Length (feet) Grade Res. (%) Rolling Res. (%) Total Res. (%) Travel Time (minutes) Source (minutes) Haul Route: 250 0.00 8.00 8.00 0.2899 (Cat HE							
Length (feet) Grade Res. (%) Rolling Res. (%) Total Res. (%) Travel Time (minutes) Source (minutes) Haul Route: 250 0.00 8.00 8.00 0.2899 (Cat HE	Haul and Return Tin	ne					
Haul Route: 250 0.00 8.00 8.00 0.2899 (Cat HE		Length		_			Source
	Uaul Danta	` '					
Kenun Konte / 750 100 XOO XOO 17679 16af HF	Return Route:	250	0.00	8.00	8.00	0.2629	(Cat HB)

Total Travel Time: 0.5529 minutes
Total Cycle Time: 0.9829 minutes

Load Bucket Capacity

Rated Capacity: 4.30 LCY (heaped)

Bucket Fill Factor: 0.875 Loose material - 1/2" to 3/4" (85 - 90%) 0.875

Adjusted Capacity: 3.76 LCY

Job Condition Correction Factors

Site Altitude: 5350 feet

		Source
Altitude Adj:	1.00	(CAT HB)
Job Efficiency:	0.83	(1 shift/day)
Net Correction:	0.83	multiplier

Unadjusted Hourly Unit Production: 229.68 LCY/Hour Adjusted Hourly Unit Production: 190.64 LCY/Hour Adjusted Hourly Fleet Production: 381.27 LCY/Hour

JOB TIME AND COST

Fleet size:	2	Loader(s)	Total job time:	35.39	Hours
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Unit cost: \$0.571 /LCY Total job cost: \$7,707

BULLDOZER WORK

Task description:	Mining A	rea A-Spread Tops	soil		
: Mamm Creek San	d & Gravel	Permit Action:	2025-06-17	Permit/Job#:	M2000113
PROJECT IDENT	<u>IFICATION</u>				
Task #: 04C		State: Colorado		Abbreviation:	None
Date: $\frac{6}{17/202}$	25 C	ounty: Garfield		Filename:	M113-04c
User: TJ1		<u> </u>			
Agency or or	ganization name	e: DRMS			
HOURLY EQUIPM					
	Cat D8T - 8SU				
_	310				
	Semi-Universal				
	NA				
Shift Basis:	l per day				
	(CRG)		_		
Cost Breakdown:			1		
O		¢172.22	<u>Utilization %</u>		
Ownership Cost/Hou		\$173.32	NA 100		
Operating Cost/Hou Ripper own. Cost/Hou		\$109.71 \$0.00	100 NA		
Ripper own. Cost/Hou		\$0.00	0 NA		
		\$38.59			
Operator Cost/Hou	r:	\$38.39	NA		
Total unit Cost/Hour:	\$321.62				
Total Fleet Cost/Hour:					
MATERIAL QUA	<u>NTITIES</u>				
Initial Volume: 1	2,100				
	.000				
	2,100 LCY				
Loose volume. 1	2,100 LC 1				
Source of estimated vo	olume: 1	2 ac @ 9"			
Source of estimated sy	vell factor: <u>C</u>	at Handbook			
HOURLY PRODU	CTION				
Average push distance	e: 50 f	eet			
Unadjusted hourly pro	duction: 1,40	00.0 LCY/hr			
Materials consistency	description:	Loose stockpile 1.2			
Average push gradient Average site altitude:	0 % 5,350 feet				
Material weight:		LCY		_	
Weight description:	Earth - Lo	am			
Job Condition Correct			Source		
	or Skill:	0.750	(AVG.)		
Material cons		1.200	(CAT HB)		
	method:	1.000	(GEN.)		
V	isibility:	1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6544

Adjusted unit production: 916.16 LCY/hr
Adjusted fleet production: 1832.32 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.351/LCY

Total job time: 6.60 Hours
Total job cost: \$4,248

REVEGETATION WORK

Mamm Creek Sand & Gravel Per	mit Action: 2025	-06-17	Permit/Job#	: <u>M2000113</u>
ROJECT IDENTIFICATION				
Task #: 04D State: Date: 6/17/2025 County: User: TJ1	Colorado Garfield			None M113-04d
Agency or organization name: <u>DR</u> ERTILIZING	MS			
aterials				
Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00
pplication				
Description				Cost /Acre
				\$
	Total	Fertilizer A	application Cost/Acre	\$0.00
ILLING				
Description				Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13				\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	1.50	4.86	\$25.83
Big Bluegrass - Sherman	1.00	20.66	\$15.85
Intermediate Wheatgrass - Rush	1.50	3.20	\$7.10
Milk Vetch, Cicer - Lutana	0.50	1.66	\$4.89
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.50	2.08	\$4.32
Sage, Fringed	0.25	20.89	\$24.81
Saltbush, Shadscale	0.50	0.75	\$9.04
Penstemon, Rocky Mountain	0.25	3.92	\$15.35

	Totals Seed Mix	7.50	61.81	\$120.75
31 4				

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.13	\$4.13
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$3.86	\$3.86
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$993.55

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$85.37
Power mulcher (MEANS 32 91 13.16 0350)		\$157.25
Weed spray, truck, non-aquatic area, nox. [DMG]		\$83.26
	Total Mulch Application Cost/Acre	\$325.89

NURSERY STOCK PLANTING

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

JOB TIME AND COST

 No. of Acres:
 10
 Cost /Acre:
 \$1,794.44

 Estimated Failure Rate:
 25%
 Cost /Acre*:
 \$1,794.44

*Selected Replanting Work Items: <u>TILLING,SEEDING,MULCHING</u>

Initial Job Cost: \$17,944.40

Reseeding Job Cost: \$4,486.10

Total Job Cost: \$22,430

Job Hours: 13.00

BULLDOZER RIPPING WORK

	Task description:	: Mir	ning Area B-Rip compact	ed areas				
Site:	Mamm Creek	Sand & Grav	el Permit Action:	2025-06-17	Pe	rmit/Job#	: <u>M2000</u>	113
	PROJECT ID	ENTIFICAT	<u>ION</u>					
	Task #: 05.	A	State: Colorado		Abbr	eviation:	None	
		7/2025	County: Garfield			ilename:	M113-05	5a
	User: TJ							
	Agency	or organization	n name: DRMS					
	HOURLY EQ	UIPMENT C	OST					
			 nt D8T - 8SU		Horsepower:		310	
	Ripper Att		Shank Ripper		Shift Basis:		per day	
	rr · · ·		FF		Data Source:		CRG)	
	Cost Breakdown	:			_			
		_			Utilization %			
		Ownership C		\$173.32	NA			
		Operating C		\$109.71	100			
		er Ownership C		\$14.53	NA			
	Ripj	per Operating C		\$7.95	100			
		Operator C		\$38.59	NA			
		Total Unit C		\$344.10				
		Total Fleet C	Cost/Hour: \$688	3.19				
	MATERIAL (<u>DUANTITIES</u>	Sele	cted estimating	g method: Area			
	Alternate Method	ds:						
smic:	NA		Bank Volume:	NA	BCY		NA	
Area:	2.00	acres	Rip Depth (ft):	2.00		,453	- 11.2	BCY or C
		Source of esti	imated quantity: Onsite	observations				
			mates quantity. Siste	ocser various				 ,
	HOURLY PRO	<u>ODUCTION</u>						
	Seismic:							
			Seismic Velocity:	NA	feet/seco	ond		
	Area:							
			ge Ripping Depth:	2.56	feet/pass			
			ge Ripping Width:	7.08	feet/pass			
		_	ge Ripping Length:	250.00	feet/pass			
			rage Dozer Speed:e Maneuver Time:	88.00 0.25	feet/min minutes/			
			ction per unit area:	0.23	acres/ho			
	Job Condition Co		•	0.702	ucres/110	uı		
	Job Condition Co			. =				
	Un	adjusted Hourl	y Unit Production:	0.789	Acres/hr			
			Site Altitude:	5,350	feet			
			Altitude Adj:	1.00	(CAT H			
			Job Efficiency:	0.83	(1 shift/c			
			Net Correction:	0.83	multiplie	er		
			d Hourly Unit Production:	0.65	Acres/hr			
	IOD WEST SEC.	•	Hourly Fleet Production:	1.31	Acres/hr			
	JOB TIME AN	ND COST						
	Fleet size:	2	_ Grader(s)	Total job tin	ne: <u>1</u>	.53	Но	ours
	Unit cost:	\$525.601	Per acre	Total job co	ost: \$1	.051		

BULLDOZER WORK

Task description: Mining	g Area B- topsoil appl	ication		
: Mamm Creek Sand & Gravel	Permit Action:	2025-06-17	Permit/Job#:	M2000113
PROJECT IDENTIFICATION	<u>v</u>			
Task #: 05B	State: Colorado		Abbreviation:	None
Date: 6/17/2025	County: Garfield		Filename:	M113-05b
User: TJ1	•		-	
Agency or organization na	me: DRMS			
HOURLY EQUIPMENT COS	<u>T</u>			
Basic Machine: Cat D8T - 8S	U	<u></u>		
Horsepower: 310				
Blade Type: Semi-Univers	al			
Attachment: NA Shift Basis: 1 per day				
Data Source: (CRG)		<u></u>		
Cost Breakdown:		T.14:11:		
Ownership Cost/Hour:	\$173.32	<u>Utilization %</u> NA		
Operating Cost/Hour:	\$109.71	100		
Ripper own. Cost/Hour:	\$0.00	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$38.59	NA		
Total unit Cost/Hour: \$321.62				
Total Fleet Cost/Hour: \$643.23				
MATERIAL QUANTITIES				
Initial Volume: 2,420				
Swell factor: 1.115				
Loose volume: 2,698 LCY				
Source of estimated volume:	2 ac at 9" depth			
Source of estimated swell factor:	Cat Handbook			
HOURLY PRODUCTION				
	~ 0			
	5 feet			
	,017.1 LCY/hr			
Materials consistency description:	Consolidated stock	pile 1.0		
Average push gradient: 0 % Average site altitude: 5,350 fe	et			
Material weight: 2,100 lb	s/LCY			
Weight description: Earth - I	Loam			
Job Condition Correction Factor		Source		
Operator Skill:	0.750	(AVG.)		
Material consistency:	1.000	(CAT HB)		
Dozing method:	1.000	(GEN.)		
Visibility:	1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5453

Adjusted unit production: 554.62 LCY/hr
Adjusted fleet production: 1109.24 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)
Unit cost: \$0.580/LCY

Total job time: 2.43 Hours \$1,565

REVEGETATION WORK

	ption:	Milling	, Area D-F	Reveg 1 ac			
Mamm (Creek Sand &	Gravel	Per	mit Action: 2025	5-06-17	Permit/Job	#: <u>M2000113</u>
PROJECT	<u>IDENTIFIC</u>	CATION	<u>I</u>				
Task #:	05C		State:	Colorado		Abbreviation:	None
Date:	6/18/2025		County:	Garfield		Filename:	M113-05c
User:	TJ1						
Ag	ency or organi	zation na	me: DR	MS			
FERTILIZ	ING						
Materials				77.1			
	ion			Units / Acre	Unit	Cost / Unit	Cost /Acre
Materials	ion				Unit	Cost / Unit	Cost /Acre

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.61
Total Tilling Cost/Acre	\$117.61

Total Fertilizer Application Cost/Acre

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	1.50	4.86	\$25.83
Big Bluegrass - Sherman	1.00	20.66	\$15.85
Intermediate Wheatgrass - Rush	1.50	3.20	\$7.10
Milk Vetch, Cicer - Lutana	0.50	1.66	\$4.89
Western Wheatgrass - Arriba	1.50	3.79	\$13.55
Needlegrass, Green - Lodorm	0.50	2.08	\$4.32
Sage, Fringed	0.25	20.89	\$24.81
Saltbush, Shadscale	0.50	0.75	\$9.04
Penstemon, Rocky Mountain	0.25	3.92	\$15.35

\$

\$0.00

Totals Seed Mix	7.50	61.81	\$120.75

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$236.64
	Total Seed Application Cost/Acre	\$236.64

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.13	\$4.13
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$3.86	\$3.86
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$993.55

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$85.37
Power mulcher (MEANS 32 91 13.16 0350)		\$157.25
Weed spray, truck, non-aquatic area, nox. [DMG]		\$83.26
	Total Mulch Application Cost/Acre	\$325.89

NURSERY STOCK PLANTING

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

JOB TIME AND COST

 No. of Acres:
 2
 Cost /Acre:
 \$1,794.44

 Estimated Failure Rate:
 25%
 Cost /Acre*:
 \$1,794.44

*Selected Replanting Work Items: _TILLING,SEEDING,MULCHING

Initial Job Cost: \$3,588.88

Reseeding Job Cost: \$897.22

Total Job Cost: \$4,486

2.50

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Initial Mobilization

Site: Mamm Creek Sand & Gravel Permit Action: 2025-06-17 Permit/Job#: M2000113

PROJECT IDENTIFICATION

Task #: 06A State: Colorado Abbreviation: None

Date: 6/18/2025 County: Garfield Filename: M113-06a
User: TJ1

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT

TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Grove RT760E, 110', 54.40 MT	42.34	\$176.37	\$122.78	1	\$299.15	\$122.78	\$250.00
Cat 385C L 18'-1" Stick	95.42	\$220.92	\$125.64	1	\$346.56	\$125.64	\$250.00
CAT 950H	20.13	\$36.61	\$59.44	2	\$192.10	\$118.88	\$500.00
CAT 973D	29.07	\$120.46	\$122.78	1	\$243.24	\$122.78	\$250.00
Cat D8T - 8SU	53.08	\$187.85	\$125.64	2	\$626.98	\$251.28	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$27.21	\$59.44	1	\$86.65	\$59.44	\$250.00
Submersible pump - 460v, 8 in.	0.70	\$9.89	\$59.44	1	\$69.33	\$59.44	\$250.00

Subtotals: \$1,964.47 \$919.68 \$2,500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip
	unit		Cost/hr/ fleet	Cost/hr/ fleet

Light Duty Pickup, 4x4, 1 T.	\$75.09	1	\$75.09	\$75.09
Crew				
Flatbed Truck, 4x2, 15K GVW	\$64.31	1	\$64.31	\$64.31
Generic 15-18 cy, 6x4	\$129.15	3	\$387.45	\$387.45

Subtotals: \$526.85 \$526.85

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

RIFLE, CO
miles
5.00
mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.10	0.10
Return Time (Hours):	0.10	0.10
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.20	0.20

JOB TIME AND COST

Total job time:	2.40	Hours
Total job cost:	\$9,611	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Site:	Mamm Creek Sand & Gravel	Permit Action:	2025-06-17	Permit/Job#:	M2000113	
		•		<u> </u>		

PROJECT IDENTIFICATION

Task description:

Task #:06BState:ColoradoAbbreviation:NoneDate:6/18/2025County:GarfieldFilename:M113-06b

User: TJ1

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT

TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

Secondary Mobilization

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni	Fleet Size	Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
T. T.	(TONS)		t		fleet		
Drill/Broadcast	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00
Seeder with							
Tractor							
Power Mulcher	6.00	\$27.21	\$59.44	1	\$86.65	\$59.44	\$250.00
(Bowie LD-90)							

Subtotals: \$187.11 \$118.88 \$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, 15K GVW	\$64.31	1	\$64.31	\$64.31

Subtotals: \$64.31 \$64.31

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

RIFLE, CO
miles
5.00
mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.10	0.10
Return Time (Hours):	0.10	0.10
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.20	0.20

JOB TIME AND COST

Total job cost: 2.40 Hours

Total job cost: \$1,448