July 16, 2024

Bryan Jorgensen Elam Construction 7057 West 2100 South Salt Lake City, UT 84128



1313 Sherman Street, Room 215 Denver, CO 80203

# RE: Dillon Ranch Pit, Permit # M-1987-064, Reclamation Costs Update

Dear Operator:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed) for this site. Division calculations estimate the cost to reclaim the site to be  $\underline{\$39,999.00}$ . This is an increase of  $\underline{\$8,880.93}$  over the  $\underline{\$31,118.07}$  currently held by the Division.

Within 15 days, please review the attached estimate and notify me if any calculation errors are noted.

If you require additional information, or have questions or concerns, please contact me.

Sincerely,

*Dustin Czapla* Environmental Protection Specialist Division of Reclamation, Mining and Safety Phone: (970) 433-8393



# COST SUMMARY WORK

Task description:202		2024-06-06 Upd	ate						
Site:	Site: Dillon Ranch Pit		Pe	Permit Action: 2024-06-06		Permit/Job#: M1987064			
<u>P</u> ]	ROJECT Task #:	IDENTIFIC	CATION State:	Colorado		Abbreviation:	None		
	Date: User:	6/6/2024 DMC	County:	La Plata		Filename:	M064-000		
Agency or organization name: DRMS									

#### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Remove structures and debris	DEMOLISH	1	5.00	\$3,695
02a	Grade Affected River Channel, remove haul road	DOZER	1	12.51	\$5,605
	and dikes				
03a	Stabilize affected river bank	REVEGE	1	5.00	\$603
04a	Reduce Temporary Highwall to Final Slope	DOZER	1	4.53	\$2,031
06a	Haul Topsoil for Pond Banks	TRUCK1	1	6.40	\$1,841
07a	Spread Topsoil on Upper Slopes	DOZER	1	3.71	\$1,662
09a	Haul Topsoil for Road	TRUCK1	1	1.60	\$460
10a	Spread Topsoil n Haul Road	DOZER	1	0.93	\$416
11a	Rip compacted stockpile and haul areas	RIPPER	1	4.52	\$2,026
12a	Revegetation 7.6 acres	REVEGE	1	8.00	\$10,583
13a	Mobilize	MOBILIZE	1	4.70	\$2,710
		56.9	\$31,632		

# **INDIRECT COSTS**

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$639
Performance bond:	1.05	Total =	\$332
Job superintendent:	28.45	Total =	\$1,852
Profit:	10.00	Total =	\$3,163
		TOTAL O & P =	\$5,986
		CONTRACT AMOUNT (direct + O & P) =	\$37,618

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	0.00	Total =	\$0
Reclamation management and/or administration:	5.00		\$1,881
CONTINGENCY:	0.00	Total =	\$0
		TOTAL INDIRECT COST =	\$8,367

TOTAL BOND AMOUNT (direct + indirect) = \_\_\_\_\_\$39,999

# **DEMOLITION WORK**

	Task description:	Remove struc	ctures and deb	oris		
Site:	<b>Dillon Ranch Pit</b>	P	ermit Action:	2024-06-06	Permit/.	Job#: <u>M1987064</u>
ROJE	CT IDENTIFICATIO	<u>DN</u>				
Task #:	01A	State:	Colorado		Abbreviation:	None
Date:	6/6/2024	County:	La Plata		Filename:	M064-01a

# UNIT COSTS

# Location adjustment: 91.60 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	<b>Total Cost</b>
Remove culverts for	270'L CMP	Pipe, corrugated metal	270.00	LF	\$12.39	\$3,345.22
the low water crossing	culvert	(CMP) - 36 in. diameter				
		pipe				
Misc. debris	30'Lx10'Wx5'H	Bldg. (SN) demo./off- site disposal in approved landfill - Max. 30 mile haul	1,500.00	CF	\$0.46	\$688.80

				<b>Total Cost</b>	
		Subtotal		(adjusted for	
Job Hours:	5.00	(unadjusted):	\$4,034.02	location):	\$3,695.16

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PROJECT IDENTIFICATION         Task #:       02A       State:       County:       La Plata       Filename:       None         User:       DMC       County:       La Plata       Filename:       M064-02a         User:       DMC	Task description:	Grade Affected	River Chanr	iel, remove haul road a	nd dikes	
Task #:       02A       State:       Colorado       Abbreviation:       None         Date:       66/2024       County:       La Plata       Filename:       M064-02a         Use:       DMC	<b>Dillon Ranch Pit</b>	Per	mit Action:	2024-06-06	Permit/Job#:	M1987064
Task #:       02A       State:       Colorado       Abbreviation:       None         Date:       66/2024       County:       La Plata       Filename:       M064-02a         Use:       DMC	PROJECT IDENTIF	ICATION				
Date:       6/6/2024       County:       La Plata       Filename:       M064-02a         User:       DMC       Agency or organization name:       DRMS         HOURLY EOUFPLENT COST         Basic Machine:       Cat D87 - 8SU       Horsepower:       310         Horsepower:       310       Blade Type:       Semi-Universal         Attachment:       3-shank ripper       Shift Basis:       1 per day         Data Source:       (CR6)       Cost Breakdown:       Utilization %         Ownership Cost/Hour:       \$241.38       NA       Operating Cost/Hour:       \$143.92         Goperator Cost/Hour:       \$143.92       100       Operator Cost/Hour:       \$41.30       NA         Total unit Cost/Hour:       \$448.16       MACE       MAE       MAE         MATERIAL OUANTITIES       Initial Volume: <u>5556 LCY</u> Cat Handbook       Maerial consistency description:       Cat Handbook         HOURLY PRODUCTION       Material sconsistency description:       Compacted fill or embankment 0.9       Average site altitude: <u>6560 feet</u> Material weight:       3,250 lbs/LCY       Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source       Operator Skill:       0.750			Colorado		Abbreviation:	None
User: $\overline{DMC}$ Agency or organization name: DRMS HOURLY EOUIPMENT COST Basic Machine: Cat D8T - 8SU Horsepower: 310 Blade Type: Semi-Universal Attachment: 3-shank ripper Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Ownership Cost/Hour: S14.3.18 NA Operating Cost/Hour: S14.3.19 NA Operating Cost/Hour: S14.3.19 NA Operator Cost/Hour: S14.3.10 NA Operator Cost/Hour: S14.3.10 NA Total unit Cost/Hour: S448.16 Total Fleet Cost/Hour: S448.16 MATERIAL QUANTITIES Initial Volume: 5.556 Swell factor: 1.000 Loose volume: <u>5.556 LCY</u> Source of estimated swell factor: <u>Cat Handbook</u> HOURLY PRODUCTION Average push distance: <u>50 feet</u> Unadjusted hourly production: <u>1,400.0 LCY/hr</u> Materials consistency description: <u>Compacted fill or embankment 0.9</u> Average push gradient: <u>0%</u> Average push gradient: <u>0%</u> Average is altitude: <u>6,560 feet</u> Material weight: <u>3.250 lbs/LCY</u> Weight description: <u>Gravel - Pitrun</u> Job Condition Correction Factor <u>Operator Skill: 0.750 (AVG.)</u> Material consistency: <u>0.900 (CAT HBS)</u>					_	
HOURLY EQUIPMENT COST         Basic Machine:       Cat D8T - 8SU         Horsepower:       310         Blade Type:       Semi-Universal         Attachment:       3-shank ripper         Shift Basis:       1 per day         Data Source:       (CRG)         Cost Breakdown:       Utilization %         Operating Cost/Hour:       \$241.38         Operating Cost/Hour:       \$143.10         Operating Cost/Hour:       \$143.12         Operator Cost/Hour:       \$14.11         NA       Operator Cost/Hour:         State Cost/Hour:       \$14.30         NA       NA         Operator Cost/Hour:       \$448.16         Total unit Cost/Hour:       \$448.16         Material Fleet Cost/Hour:       \$448.16         Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated volume:       Cat Handbook         HOURLY PRODUCTION		0000000	La i lata		-	11001 024
Basic Machine:       Cat DST - 8SU         Horsepower:       310         Blade Type:       Semi-Universal         Attachment:       3-shank ripper         Shift Basis:       1 per day         Data Source:       (CRG)         Cost Breakdown:       Utilization %         Ownership Cost/Hour:       \$143.92       100         Ripper ov. Cost/Hour:       \$14.11       NA         Operating Cost/Hour:       \$14.130       NA         Operator Cost/Hour:       \$54.45       100         Operator Cost/Hour:       \$448.16       100         Total unit Cost/Hour:       \$448.16       100         Total Cost/Hour:       \$448.16       100         Total Volume:       \$5.56       Swell factor:       1.000         Loose volume:       5.556 LCY       Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook       1       1         Hutrial consistency description:       Conpacted fill or embankment 0.9       1         Average push distance:       50 feet       1       1         Unadjusted hourly production:       Intuo       1       1       1         Average site altitude: <td>Agency or organ</td> <td>nization name: DI</td> <td>RMS</td> <td></td> <td></td> <td></td>	Agency or organ	nization name: DI	RMS			
Basic Machine:       Cat DST - 8SU         Horsepower:       310         Blade Type:       Semi-Universal         Attachment:       3-shank ripper         Shift Basis:       1 per day         Data Source:       (CRG)         Cost Breakdown:       Utilization %         Ownership Cost/Hour:       \$143.92       100         Ripper ov. Cost/Hour:       \$14.11       NA         Operating Cost/Hour:       \$14.130       NA         Operator Cost/Hour:       \$54.45       100         Operator Cost/Hour:       \$448.16       100         Total unit Cost/Hour:       \$448.16       100         Total Cost/Hour:       \$448.16       100         Total Volume:       \$5.56       Swell factor:       1.000         Loose volume:       5.556 LCY       Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook       1       1         Hutrial consistency description:       Conpacted fill or embankment 0.9       1         Average push distance:       50 feet       1       1         Unadjusted hourly production:       Intuo       1       1       1         Average site altitude: <td>HOURLY FOUIPME</td> <td>NT COST</td> <td></td> <td></td> <td></td> <td></td>	HOURLY FOUIPME	NT COST				
Horsepower:       310         Blade Type:       Semi-Universal         Attachment:       3-shank ripper         Shift Basis:       1 per day         CRG)       (CRG)         Ownership Cost/Hour:       S143.92         Operating Cost/Hour:       S143.92         Operator Cost/Hour:       S14.11         NA       Operator Cost/Hour:         Operator Cost/Hour:       S14.12         Operator Cost/Hour:       S44.30         Operator Cost/Hour:       S44.30         Operator Cost/Hour:       S44.30         Total unit Cost/Hour:       S44.30         MATERIAL QUANTITIES       Initial Volume:         Initial Volume:       5.556         Swell factor:       1.000         Loose volume:       5.556 LCY         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION       Average push distance:       50 feet         Materials consistency description:       Compacted fill or embankment 0.9         Average site altitude:       6.500 feet         Material weight:       3.250 lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill: <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Blade Type:       Semi-Universal         Attachment:       3-shank ripper         Shift Basis       1 per day         Data Source:       (CRG)         Cost Breakdown:       Utilization %         Ownership Cost/Hour:       \$241,38       NA         Operating Cost/Hour:       \$143,92       100         Ripper own. Cost/Hour:       \$141,1       NA         Ripper own. Cost/Hour:       \$448,16         Total unit Cost/Hour:       \$448,16         Matterial Volume:       \$5,556         Swelf factor:       1.000         Loose volume:       \$5,556 LCY         Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION       Average push distance:       50 feet         Material sconsistency description:       Compacted fill or embankment 0.9         Average push gradient: $0\%$ Average site altitude: $6,560$ feet         Material weight:       3,250 lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor.       Source         Operator Skill:       0.750         Material consistency:       0.900						
Attachment: $3$ -shank ripper         Shift Basis:       1 per day         Data Source:       (CRG)         Cost Breakdown:       Utilization %         Ownership Cost/Hour:       \$241.38       NA         Operating Cost/Hour:       \$143.92       100         Ripper own. Cost/Hour:       \$14.11       NA         Operator Cost/Hour:       \$14.30       NA         Operator Cost/Hour:       \$44.30       NA         Total unit Cost/Hour:       \$448.16       NA         Total rot Cost/Hour:       \$448.16       NA         Total rot Cost/Hour:       \$556       State	1					
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Operator Cost/Hour:       \$41.30       NA         Total unit Cost/Hour:       \$448.16         Total Fleet Cost/Hour:       \$448.16         MATERIAL QUANTITIES         Initial Volume: $5,556$ Swell factor:       1.000         Loose volume: $5,556$ LCY         Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION       Average push distance: $50$ feet         Unadjusted hourly production:       1,400.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient: $0$ %         Average site altitude: $6,560$ feet         Material weight: $3,250$ lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill: $0.750$ (AVG,)         Material consistency: $0.900$ (CAT HB))         Dozing method: $1.000$ (GEN,)						
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MATERIAL QUANTITIES         Initial Volume:       5,556         Swell factor:       1.000         Loose volume:       5,556         Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION         Average push distance:       50 feet         Unadjusted hourly production:       Compacted fill or embankment 0.9         Average site altitude:       6,560 feet         Material weight:       3,250 lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Operator Skill:       0.750         Material consistency:       0.900         Material consistency:       0.900         Material consistency:       0.900         Operator Skill:       0.750         Operator Skill:       0.750         Material consistency:       0.900         Material consistency:       0.900	Total unit Cost/Hours	¢119 16				
MATERIAL QUANTIFIES         Initial Volume:       5,556         Swell factor:       1.000         Loose volume:       5,556 LCY         Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION       Average push distance:       50 feet         Unadjusted hourly production:       1,400.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       0 %         Average site altitude:       6,560 feet         Material weight:       3,250 lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Material consistency:       0.900         Material consistency:       0.900         Material consistency:       0.900         Operator Skill:       0.750         Material consistency:       0.900         Operator Skill:       0.750         Material consistency:       0.900						
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Initial Volume:       5,556         Swell factor:       1.000         Loose volume:       5,556 LCY         Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION       Cat Handbook         Average push distance:       50 feet         1,400.0 LCY/hr       1,400.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       0 %         Average site altitude:       6,560 feet         Material weight:       3,250 lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Operator Skill:       0.750         Operator Skill:       0.900         Material consistency:       0.900	MATERIAL OUANT	TITIES				
Swell factor:       1.000         Loose volume:       5,556 LCY         Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor:       Cat Handbook         HOURLY PRODUCTION       Average push distance:       50 feet         Unadjusted hourly production:       1,400.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       0 %         Average site altitude:       6,560 feet         Material weight:       3,250 lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Operator Skill:       0.750         Operator Skill:       0.750         Operator Skill:       0.750         Operator Skill:       0.900         Dozing method:       1.000						
Loose volume: $\overline{5,556 \text{ LCY}}$ Source of estimated volume:       Division of Reclamation, Mining & Safety         Source of estimated swell factor: $\overline{Cat Handbook}$ HOURLY PRODUCTION       Average push distance: $50 \text{ feet}$ Unadjusted hourly production: $\frac{50 \text{ feet}}{1,400.0 \text{ LCY/hr}}$ Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient: $0\%$ Average site altitude: $6,560 \text{ feet}$ Material weight: $3,250 \text{ lbs/LCY}$ Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill: $0.750$ Material consistency: $0.900$ Dozing method: $1.000$						
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HOURLY PRODUCTION         Average push distance:       50 feet         Unadjusted hourly production:       1,400.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       0 %         Average site altitude:       6,560 feet         Material weight:       3,250 lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Material consistency:       0.900         Material consistency:       0.900				on, Mining & Safety		
Average push distance:       50 feet         Unadjusted hourly production: $1,400.0$ LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient: $0$ %         Average site altitude: $6,560$ feet         Material weight: $3,250$ lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill: $0.750$ Material consistency: $0.900$ Image: Note of the system of th	Source of estimated swell	factor: Cat Hand	book			
Average push distance:       50 feet         Unadjusted hourly production: $1,400.0$ LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient: $0$ %         Average site altitude: $6,560$ feet         Material weight: $3,250$ lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill: $0.750$ Material consistency: $0.900$ Operator Skill: $0.900$ Material consistency: $0.900$						
Unadjusted hourly production:       1,400.0 LCY/hr         Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       0 %         Average site altitude:       6,560 feet         Material weight:       3,250 lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Job Dozing method:       1.000	HOURLY PRODUCT	TION				
Materials consistency description:       Compacted fill or embankment 0.9         Average push gradient:       0 %         Average site altitude:       6,560 feet         Material weight:       3,250 lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Dozing method:       1.000	Average push distance:					
Average push gradient:     0 %       Average site altitude:     6,560 feet       Material weight:     3,250 lbs/LCY       Weight description:     Gravel - Pitrun       Job Condition Correction Factor     Source       Operator Skill:     0.750       Material consistency:     0.900       Dozing method:     1.000	Unadjusted hourly produce	ction: 1,400.0 LC	Y/hr			
Average site altitude:       6,560 feet         Material weight:       3,250 lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Dozing method:       1.000	Materials consistency des	cription: Compa	cted fill or e	mbankment 0.9		
Average site altitude:       6,560 feet         Material weight:       3,250 lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Dozing method:       1.000	A	0.0/				
Material weight:       3,250 lbs/LCY         Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill:       0.750         Material consistency:       0.900         Dozing method:       1.000						
Weight description:       Gravel - Pitrun         Job Condition Correction Factor       Source         Operator Skill:       0.750       (AVG.)         Material consistency:       0.900       (CAT HB))         Dozing method:       1.000       (GEN.)	Average site altitude:	6,560 teet				
Job Condition Correction FactorSourceOperator Skill:0.750(AVG.)Material consistency:0.900(CAT HB))Dozing method:1.000(GEN.)	Material weight:	3,250 lbs/LCY				
Operator Skill:0.750(AVG.)Material consistency:0.900(CAT HB))Dozing method:1.000(GEN.)	Weight description:	Gravel - Pitrun				
Operator Skill:0.750(AVG.)Material consistency:0.900(CAT HB))Dozing method:1.000(GEN.)	Job Condition Correction	Factor		Source		
Material consistency:0.900(CAT HB))Dozing method:1.000(GEN.)			750			
Dozing method: 1.000 (GEN.)						
			.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.708	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3173	
Adjusted unit production: 44	4.22 LCY/hr	
Adjusted fleet production: 44	4.22 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.009/LCY
Total job time: Total job cost:	12.51 Hours \$5,605

# **REVEGETATION WORK**

Task description:		Stabilize affected river bank					
Site:	te: Dillon Ranch Pit		Permit Action:		2024-06-06	Permit/Job#: M19870	
<u>PI</u>		IDENTIFIC					
	Task #:	03A		Colorado		Abbreviation:	None
	Date:	6/6/2024	County:	La Plata		Filename:	M064-03a
	User:	DMC					

# **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
	\$
Total Tilling Cost/Acre	\$0.00

# **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
Totals Seed Mix	0.00	0.00	\$0.00

# Application

Description	Cost /Acre
	\$

#### **Total Seed Application Cost/Acre** \$0.00

# **MULCHING and MISCELLANEOUS**

#### Materials

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

#### Application

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

# **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Cottonwood,	86	Tubling, 10 cu. in. container	\$2.14	\$0.00	\$184.04
Narrowleaf		{(MEANS)			
Willow, Sandbar	170	Tubling, 10 cu. in. container	\$2.14	\$0.00	\$363.80
		{(MEANS)			
	·	Totals	Nursery Stoc	ek Cost / Acre	\$547.84

No. of Acres:	1	Cost /Acre:	\$547.84
Estimated Failure Rate:	10%	Cost /Acre*:	\$547.84
*Selected Replanting Work Items:	NURSERY		

Initial Job Cost:	\$547.84
Reseeding Job Cost:	\$54.78
Total Job Cost:	\$603
Job Hours:	5.00

ask description:		• •	l to Final Slope		
Dillon Ranch Pit	Peri	mit Action:	2024-06-06	Permit/Job#:	M1987064
ROJECT IDENTIFI	ICATION				
Task #: 04A	State:	Colorado		Abbreviation:	None
Date: $6/6/2024$	County:	La Plata		Filename:	M064-04a
User: DMC	County.	La I Iala		Filename.	W1004-04a
Agency or organ	nization name: DR	RMS			
IOURLY EQUIPME	<u>ENT COST</u>				
	D8T - 8SU				
Horsepower: 310					
J 1	ni-Universal				
	hank ripper				
	er day				
Data Source: (CR	RG)				
Cost Breakdown:			<b></b>		
o 11 o		<b>AA A A A</b>	<u>Utilization %</u>		
Ownership Cost/Hour:		\$241.38	NA		
Operating Cost/Hour:		\$143.92	100		
ipper own. Cost/Hour:		\$14.11	NA		
Ripper op. Cost/Hour:		\$7.45	100		
Operator Cost/Hour:		\$41.30	NA		
otal unit Cost/Hour: otal Fleet Cost/Hour: <b>IATERIAL QUANT</b>	\$448.16 \$448.16 TTIES				
otal Fleet Cost/Hour:	\$448.16 <u>TTIES</u> 3				
otal Fleet Cost/Hour: <b>IATERIAL QUANT</b> Initial Volume: <u>1,333</u> Swell factor: <u>1.330</u>	\$448.16 <u>TTIES</u> 3				
Total Fleet Cost/Hour: <b>IATERIAL QUANT</b> Initial Volume:       1,333         Swell factor:       1.330         Loose volume:       1,773	\$448.16 TTIES 3 0 3 LCY	 	on Mining & Safety		
otal Fleet Cost/Hour: <b>IATERIAL QUANT</b> Initial Volume: <u>1,333</u> Swell factor: <u>1.330</u>	\$448.16 TTIES 3 0 3 LCY ne: Division (		on, Mining & Safety		
Total Fleet Cost/Hour:         Initial Volume:       1,333         Swell factor:       1.330         Loose volume:       1,773         ource of estimated volume	\$448.16 TITIES 3 0 3 LCY ne:		on, Mining & Safety		
Total Fleet Cost/Hour:         Initial Volume:       1,333         Swell factor:       1.330         Loose volume:       1,773         ource of estimated volume	\$448.16           TTIES           3           0           3 LCY           ne:         Division of factor:           factor:         Cat Hand		on, Mining & Safety		
Total Fleet Cost/Hour:         Initial Volume:       1,333         Swell factor:       1.330         Loose volume:       1,773         ource of estimated volur         ource of estimated swell         IOURLY PRODUCT	\$448.16           ITIES           3           0           3 LCY           ne:         Division of Cat Hand           factor:         Cat Hand		on, Mining & Safety		
Total Fleet Cost/Hour:         Initial Volume:       1,333         Swell factor:       1.330         Loose volume:       1,773         ource of estimated volur         ource of estimated swell	\$448.16           3           0           3 LCY           ne:         Division of Cat Hand           factor:         Cat Hand           CION         50 feet	book	on, Mining & Safety		
Total Fleet Cost/Hour:         Initial Volume:       1,333         Swell factor:       1.330         Loose volume:       1,773         ource of estimated volur       ource of estimated swell         IOURLY PRODUCT       INTRODUCT         Average push distance:       Introduction	\$448.16         ITIES         3         0         3 LCY         ne:       Division of Cat Hand         factor:       Cat Hand         FION         50 feet         ttion:       1,400.0 LC	book Y/hr			
Total Fleet Cost/Hour:         Initial Volume:       1,333         Swell factor:       1.330         Loose volume:       1,773         ource of estimated volum         ource of estimated swell         IOURLY PRODUCT         Average push distance:         Inadjusted hourly product         Atterials consistency destribution	\$448.16           ITIES           3           0           3 LCY           ne:         Division of Cat Hand           factor:         Cat Hand           FION           ction:         50 feet           1,400.0 LC           cription:         Comparison	book Y/hr	on, Mining & Safety 		
Total Fleet Cost/Hour:         Initial Volume:       1,333         Swell factor:       1,333         Loose volume:       1,773         ource of estimated volum       1,773         ource of estimated swell       1,000000000000000000000000000000000000	\$448.16           ITIES           3           0           3 LCY           ne:         Division of Cat Hand           factor:         Cat Hand           CION           ction:         50 feet           1,400.0 LC           cription:         Comparison           10 %	book Y/hr			
Total Fleet Cost/Hour:         Initial Volume:       1,333         Swell factor:       1.330         Loose volume:       1,773         ource of estimated volum         ource of estimated swell         IOURLY PRODUCT         Average push distance:         Inadjusted hourly product         Atterials consistency destinated	\$448.16           ITIES           3           0           3 LCY           ne:         Division of Cat Hand           factor:         Cat Hand           FION           ction:         50 feet           1,400.0 LC           cription:         Comparison	book Y/hr			
Total Fleet Cost/Hour:         Initial Volume:       1,333         Swell factor:       1,333         Loose volume:       1,773         ource of estimated volum       1,773         ource of estimated swell       1,000000000000000000000000000000000000	\$448.16           ITIES           3           0           3 LCY           ne:         Division of Cat Hand           factor:         Cat Hand           CION           ction:         50 feet           1,400.0 LC           cription:         Comparison           10 %	book Y/hr			
Total Fleet Cost/Hour:         Initial Volume:       1,333         Swell factor:       1.330         Loose volume:       1,773         ource of estimated volur       1,773         ource of estimated swell       1,773         Ource of estimated swell       1,000000000000000000000000000000000000	\$448.16           ITIES           3           0           3 LCY           ne:         Division of Cat Hand           factor:         Cat Hand           FION           cription:         1,400.0 LC           cription:         Compare           10 %         6,560 feet	book Y/hr cted fill or en	mbankment 0.9		
Total Fleet Cost/Hour:         Initial Volume:       1,333         Swell factor:       1,333         Loose volume:       1,773         ource of estimated volur       1,773         ource of estimated volur       000000000000000000000000000000000000	\$448.16           ITIES           3           0           3 LCY           ne:         Division of Cat Hand           factor:         Cat Hand           Filon         50 feet           cription:         1,400.0 LCY           cription:         Compa           10 %         6,560 feet           2,900 lbs/LCY         Decomposed rock           Factor         Factor	book Y/hr cted fill or en  - 50% Rock,	mbankment 0.9		
Total Fleet Cost/Hour:         Initial Volume:       1,333         Swell factor:       1,333         Loose volume:       1,773         ource of estimated volur       1,773         ource of estimated volur       000000000000000000000000000000000000	\$448.16           ITIES           3           0           3 LCY           ne:         Division of Cat Hand           factor:         Cat Hand           Compare         50 feet           tion:         1,400.0 LCY           cription:         Compare           10 %         6,560 feet           2,900 lbs/LCY         Decomposed rock           Factor         Skill:         0.	book Y/hr 			
Total Fleet Cost/Hour:         Initial Volume:       1,333         Swell factor:       1,333         Loose volume:       1,773         ource of estimated volur       1,773         ource of estimated volur       000000000000000000000000000000000000	\$448.16           ITIES           3           0           3 LCY           ne:         Division of Cat Hand           factor:         Cat Hand           Compare         50 feet           tion:         1,400.0 LCY           cription:         Compare           10 %         6,560 feet           2,900 lbs/LCY         Decomposed rock           Factor         Skill:         0.	book Y/hr cted fill or en  - 50% Rock,	mbankment 0.9		
Total Fleet Cost/Hour:         Initial Volume:       1,333         Swell factor:       1,333         Loose volume:       1,773         ource of estimated volur       1,773         ource of estimated volur       000000000000000000000000000000000000	\$448.16         ITIES         3         0         3 LCY         ne:       Division of Cat Hand         factor:       Cat Hand         ION         cription: $50$ feet         1,400.0 LC'         cription:       Compare         10 %       6,560 feet         2,900 lbs/LCY       Decomposed rock         Factor       Skill:       0.         ency:       0.	book Y/hr 			

Job efficience	ey:	0.830	(1 SHIFT/DAY)
Spoil pile:		0.800	(SSD-AC)
Push gradient:		0.786	(CAT HB)
Altitude:		1.000	(CAT HB)
Material Weight:		0.793	(CAT HB)
Blade type:		1.000	(PAT)
Net correctio	on: 0.2	2794	
Adjusted unit production:	391.16	6 LCY/hr	
Adjusted fleet production: 39		6 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$1.146/LCY
Total job time:	<b>4.53</b> Hours
Total job cost:	\$2,031

# TRUCK/LOADER TEAM WORK

Site: Dillon Ranch Pi	t	Permit Action	on: 2024-06-06		Permit/Job#: M1987	
DDA IFAT INFN	TIFICATION					
PROJECT IDEN Task #: 06A	TIFICATION	State: Colora	ada	٨٩	breviation: No	<b>n</b> 0
Date: $\frac{6/6}{20}$	024	County: La Pla		A0		)64-06a
User: DMC		J				
Agency or	organization nan	ne: DRMS				
HOURLY EQUI	PMENT COST	<u>[</u>		Shift bas	sis: <u>1 per day</u>	
			Equipment Descri	ption		
]	Fruck Loader Tear		neric 8-10 cy, 6x4	•		
Supp	ort Equipment -L		Т 966Н			
Տարի		imp Area: NA				
Road M	aintenance – Moto					
	-Wa	ter Truck: NA				
Cost Breakdown:	Truck/Loa	der Team	Support	Equipment	Maintenar	nce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	NA	N
Ownership cost/hour:	\$16.85	\$65.69	NA	NA	NA	N
Operating cost/hour:	\$49.69	\$48.09	NA	NA	NA	N
%Utilization-riper:	NA	0	NA	NA	NA	N
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	N
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	N
Operator cost/hour:	\$0.00	\$40.71	NA	NA	NA	N
Unit Subtotals:	\$66.54	\$154.49	NA	NA	NA	N
Number of Units:	2 Work:	1 \$287.57	0	0	0 Maint:	\$0.00
Group Subtotals:			Support:	\$0.00	Maint:	\$0.00
Total work team cos	st/hour: <u>\$287.57</u>					
MATERIAL QU	ANTITIES					
		~~~		2 4 6 6 6		
Initial volume Loose volume		CCY LCY		factor: 1.000		
	urce of estimated of estimated swe		sion of Reclamatic	on, Mining & Safe	ety	
200000	Material Purcha					
	То	tal Cost: \$0.00	)			
	DUCTION					
HOURLY PRO	DUCTION					
Truck Capacity:	abt) D					
<u>Truck Payload (wei</u> Material v			Pounds/LCY	<del>,</del>		
Descr	iption: Earth -	Dry packed				
Rated Pa			Pounds			-
Payload Ca	pacity: 10.70		LCY			

\_\_\_\_

Truck Bed (volume) Basis:						
Struck Volume:	8.00	LCY				
Heaped Volume:	10.00	LCY				
Average Volume:	9.00	LCY				
Adjusted Volume:	10.00	LCY				
	Truck Volume	Based on Number of L	oader Passes:	5.25	LCY	
Loading Tool Capacity						
Detail Canaditan	5 000	LCV (hoursed)	Buc	ket Size Class: <u>N</u>	NA	
Rated Capacity:	5.000	LCY (heaped)	(100.1	100/) 1.050		
Bucket Fill Factor: Adjusted Capacity:	1.050 5.250	Other - moist loan	n (100-1	10%) 1.050		
	5,250					
Job Condition Corrections:	<u>:</u>	Site	Altitude (ft.):	<u>6580</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				
Loading Tool Cycle Time:	Number	of Loading Tool Passe	e Required to	Fill Truck	1	passes
		of Loading 10011 asse	s Required to		1	passes
Excavators and Front Shove						
Machine Cycle Time v	a Job Condition					
Selected Value v						
	within this Basic	e Rating: NA				
Selected Value v	within this Basic Material Descri	e Rating: NA				
Selected Value v Track Loaders –	within this Basic Material Descri	e Rating: NA		 Dump: 0.10	0	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u>	within this Basic Material Descri M	e Rating: <u>NA</u> ption: aneuver: <u>NA</u>		1		
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders -	within this Basic Material Descri M	e Rating: <u>NA</u> ption: aneuver: <u>NA</u>	(load, dump, 1	naneuver): (		inutes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: <u>NA</u> Wheel and Track Loaders – Cycle Time Factors	within this Basic Material Descri M 	e Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle Time	(load, dump, 1	naneuver):( Factor (min.)	0.500 m	inutes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material:	within this Basic Material Descri M Unadjusted Bas Material 3/4"	e Rating: <u>NA</u> ption: aneuver: <u>NA</u> sic Loader Cycle Time to 6" diameter 0.00		naneuver):( Factor (min.) 0.000	0.500 m Source (Cat HB)	inutes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile:	within this Basic Material Descri M Unadjusted Bas Material 3/4" Conveyor or c	c Rating: NA ption:	or less 0.01	maneuver): ( Factor (min.) 0.000 0.010	).500 m Source (Cat HB) (Cat HB)	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership:	within this Basic Material Descri M Unadjusted Bas Material 3/4" Conveyor or c No adjustmen	c Rating: NA ption:	or less 0.01 e 0.00	maneuver):( Factor (min.) 0.000 0.010 0.000	0.500 m Source (Cat HB) (Cat HB) (Cat HB)	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Basic Material Descri M Unadjusted Bas Material 3/4" Conveyor or c No adjustmen No adjustmer	c Rating: NA ption: aneuver: NA sic Loader Cycle Time to 6" diameter 0.00 lozer piled 10 ft. high c t - factor not applicable nt - factor not applicable	or less 0.01 e 0.00	maneuver):( Factor (min.) 0.000 0.010 0.000 0.000	0.500 m Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership:	within this Basic Material Descri M Unadjusted Bas Material 3/4" Conveyor or c No adjustmen	c Rating: NA ption: aneuver: NA sic Loader Cycle Time to 6" diameter 0.00 lozer piled 10 ft. high of t - factor not applicable at - factor not applicable t 0.00	or less 0.01 e 0.00 e 0.00	maneuver):( Factor (min.) 0.000 0.010 0.000 0.000 0.000	0.500 m Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Basic Material Descri M Unadjusted Bas Material 3/4" Conveyor or c No adjustmen No adjustmer	e Rating: NA ption: aneuver: NA sic Loader Cycle Time to 6" diameter 0.00 lozer piled 10 ft. high of t - factor not applicable nt - factor not applicable t 0.00 Net Cycle Time	or less 0.01 e 0.00 e 0.00 Adjustment:	maneuver):( Factor (min.) 0.000 0.010 0.000 0.000 0.000 0.010	0.500 m Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	within this Basic Material Descri M Unadjusted Bas Material 3/4" Conveyor or c No adjustmen No adjustmer	c Rating: NA ption: aneuver: NA sic Loader Cycle Time to 6" diameter 0.00 lozer piled 10 ft. high of t - factor not applicable at - factor not applicable t 0.00	or less 0.01 e 0.00 e 0.00 Adjustment: Cycle Time:	maneuver):( Factor (min.) 0.000 0.010 0.000 0.000 0.000	0.500 m Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descri M Unadjusted Bas Material 3/4" Conveyor or c No adjustmen No adjustmer	e Rating: NA ption: aneuver: NA sic Loader Cycle Time to 6" diameter 0.00 lozer piled 10 ft. high of t - factor not applicable nt - factor not applicable nt - factor not applicable Adjusted Loader of	or less 0.01 e 0.00 e 0.00 Adjustment: Cycle Time:	maneuver):( Factor (min.) 0.000 0.010 0.000 0.000 0.000 0.010 0.510	0.500     m       Source       (Cat HB)       (Cat HB)       (Cat HB)       (Cat HB)       (Cat HB)       (Cat HB)       minutes       minutes	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	within this Basic Material Descri M Unadjusted Bas Material 3/4" Conveyor or c No adjustmen No adjustmer Nominal targe	e Rating: NA ption: aneuver: NA sic Loader Cycle Time to 6" diameter 0.00 lozer piled 10 ft. high of t - factor not applicable at - factor not applicable t 0.00 Net Cycle Time A Adjusted Loader of Net Load Tim	or less 0.01 e 0.00 e 0.00 Adjustment: Cycle Time: e per Truck:	maneuver):( Factor (min.) 0.000 0.010 0.000 0.000 0.000 0.010 0.510 0.100	0.500 m Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	within this Basic Material Descri M Unadjusted Bas Material 3/4" Conveyor or c No adjustmen No adjustmer Nominal targe	c Rating: NA ption:	or less 0.01 e 0.00 Adjustment: Cycle Time: e per Truck: Adjusted	maneuver):( Factor (min.) 0.000 0.010 0.000 0.000 0.000 0.010 0.510 0.100	0.500 m Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.500	    Minutes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	within this Basic Material Descri Material Descri Unadjusted Bas Material 3/4" Conveyor or c No adjustmen No adjustmer No minal targe : 0.50 : 0.100	c Rating: NA ption:	or less 0.01 e 0.00 e 0.00 Adjustment: Cycle Time: e per Truck: Adjusted Adjusted	maneuver):( Factor (min.) 0.000 0.010 0.000 0.000 0.000 0.010 0.510 0.100 for site altitude: for site altitude:	0.500 m Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) 0.500 0.100	   Minutes
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time	within this Basic Material Descri Material Descri Unadjusted Bas Material 3/4" Conveyor or c No adjustmen No adjustmer No minal targe : 0.50 : 0.100	c Rating: NA ption:	or less 0.01 e 0.00 e 0.00 Adjustment: Cycle Time: e per Truck: Adjusted Adjusted	maneuver):( Factor (min.) 0.000 0.010 0.000 0.000 0.000 0.010 0.510 0.100	0.500 m Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes 0.500	
Selected Value v Track Loaders – Cycle Time Elements (min.): Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Exchange Time Truck Load Time	<ul> <li>within this Basic</li> <li>Material Descri</li> <li>Material Descri</li> <li>Unadjusted Basic</li> <li>Material 3/4"</li> <li>Conveyor or conveyor or con</li></ul>	c Rating: NA ption:	or less 0.01 e 0.00 e 0.00 Adjustment: Cycle Time: e per Truck: Adjusted Adjusted Adjusted	maneuver):( Factor (min.) 0.000 0.010 0.000 0.000 0.000 0.010 0.510 0.100 for site altitude: for site altitude: for site altitude: 	D.500         m           Source         (Cat HB)           (Cat HB)         (Cat HB)           (Cat HB)         (Cat HB)           (Cat HB)         (Cat HB)           minutes         minutes           0.500         0.500           0.100         0.800	   Minutes

Haul Rou		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
Seg #	(Ft)	Distance	Grade (%)	(%)	(%)	(fpm)	Time (min)	
1	30.00		0.00	5.00	5.00	2218	0.083	
					Haul Time:	0.083	minutes	
Return Ro	oute:				-			
Seg #	Haul I	Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	30.00		0.00	5.00	5.00	2814	0.039	
					Return Time:	0.039	minutes	
				Total Tru	ck Cycle Time:	1.522	minutes	
Loading Too								
Produ Truck Unit Produ	uction	525.00	LCY/Hour		Adjusted for j	ob efficiency:	435.75	LCY/Hour
	<u>-</u>	206.96	LCY/Hour		Adjusted for j	ob efficiency:	171.78	LCY/Hour
Optimal No. of Tr	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
					k team production			Hour
					er team production			
			Adjusted multip	le truck/loade	er team production	on: 343	.56 LCY/	Hour
JOB TI	ME AN	D COST						
Fleet	size:	1	Team(s)	]	Fotal job time:	6.40	Ηοι	ırs
Unit	cost:	\$0.837	/LCY		Total job cost:	\$1,84	1	

			opes		
Dillon Ranch Pit	Perr	mit Action:	2024-06-06	Permit/Job#:	M1987064
PROJECT IDENTIF	FICATION				
Task #: 07A	State:	Colorado		Abbreviation:	None
Date: $\frac{6/6}{2024}$	County:	La Plata	<u> </u>	Filename:	M064-07a
User: DMC	County.	La I Iata		Thename.	W1004-07a
Agency or orga	anization name: DR	MS			
HOURLY EQUIPM	ENT COST				
Basic Machine: Ca	at D8T - 8SU				
Horsepower: 31	0				
Blade Type: Se	emi-Universal				
	shank ripper				
	per day				
Data Source: (C	CRG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:		\$241.38	NA		
Operating Cost/Hour:		\$143.92	100		
Ripper own. Cost/Hour:		\$14.11	NA		
Ripper op. Cost/Hour:		\$7.45	100		
Operator Cost/Hour:		\$41.30	NA		
Total Fleet Cost/Hour:	\$448.16				
MATERIAL QUAN Initial Volume: 2,20 Swell factor: 1.00	<b>TITIES</b> 00 00				
MATERIAL QUAN Initial Volume: 2,20 Swell factor: 1.00	<b>TITIES</b> 00	_			
MATERIAL QUAN Initial Volume: 2,20 Swell factor: 1.00	TITIES         00         00         00 LCY         1me:       Division of Cat Handle         11 factor:		on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       2,20         Swell factor:       1.00         Loose volume:       2,20         Source of estimated volu       300         Source of estimated swell       300	TITIES 00 00 00 LCY 1me: Division of 11 factor: Cat Handl CTION 50 feet	book	on, Mining & Safety		
MATERIAL QUANT         Initial Volume:       2,20         Swell factor:       1.00         Loose volume:       2,20         Source of estimated volu       2,20         Source of estimated volu       Source of estimated sweld         HOURLY PRODUCC       Average push distance:         Unadjusted hourly product	TITIES         00         00         00 LCY         ume:       Division of Cat Handle         11 factor:       Cat Handle         CTION         action:       50 feet         1,400.0 LCY	book			
MATERIAL QUANT         Initial Volume:       2,20         Swell factor:       1.00         Loose volume:       2,20         Source of estimated volu       2,20         Source of estimated volu       Source of estimated sweld         HOURLY PRODUCC       Average push distance:         Unadjusted hourly product	TITIES         00         00         00 LCY         ume:       Division of Cat Handle         11 factor:       Cat Handle         CTION         action:       50 feet         1,400.0 LCY	book Y/hr			
MATERIAL QUANT         Initial Volume:       2,20         Swell factor:       1.00         Loose volume:       2,20         Source of estimated volu       2,20         Source of estimated volu       Source of estimated volu         Source of estimated sweld       4         HOURLY PRODUC       Average push distance:         Unadjusted hourly produce       4         Average push gradient:       4         Average site altitude:       1	Signal         Signal<	book Y/hr			
MATERIAL QUANT         Initial Volume:       2,20         Swell factor:       1.00         Loose volume:       2,20         Source of estimated volu       2,20         Source of estimated volu       Source of estimated volu         Source of estimated swell       4         HOURLY PRODUC       Average push distance:         Unadjusted hourly produ       Materials consistency de         Average push gradient:       Average site altitude:         Material weight:       Weight description:	Substrain         Substrain <thsubstrain< th=""> <thsubstrain< th=""> <ths< td=""><td>book Y/hr tockpile 1.2</td><td></td><td></td><td></td></ths<></thsubstrain<></thsubstrain<>	book Y/hr tockpile 1.2			
MATERIAL QUANT         Initial Volume:       2,20         Swell factor:       1.00         Loose volume:       2,20         Source of estimated volu       2,20         Source of estimated volu       Source of estimated volu         Source of estimated sweld       Mountain         HOURLY PRODUC       Average push distance:         Unadjusted hourly produ       Materials consistency de         Average push gradient:       Average site altitude:         Material weight:       Weight description:         Job Condition Correction       Job Condition Correction	TITIES           00           00           00 LCY           1me:         Division of Cat Handle           11 factor:         Cat Handle           2TION           action:         50 feet           1,400.0 LCY           escription:         Loose s           10 %         6,560 feet           2,550 lbs/LCY         Earth - Dry packed           n Factor	book Y/hr tockpile 1.2			
MATERIAL QUANT         Initial Volume:       2,20         Swell factor:       1.00         Loose volume:       2,20         Source of estimated volu       Source of estimated volu         Source of estimated swell       MOURLY PRODUC         Average push distance:       Unadjusted hourly produ         Materials consistency de       Average push gradient:         Average site altitude:       Material weight:         Weight description:       Job Condition Correction         Operator       Operator	TITIES         00       00         00 LCY       Division of         11 factor:       Division of         11 factor:       Cat Handle         CTION $50$ feet         action: $50$ feet         action:       Loose s $10 \%$ $6,560$ feet $2,550$ lbs/LCY       Earth - Dry packed         n Factor       0.7	book Y/hr tockpile 1.2			
MATERIAL QUANT         Initial Volume:       2,20         Swell factor:       1.00         Loose volume:       2,20         Source of estimated volu       2,20         Source of estimated volu       Source of estimated volu         Source of estimated swell       MOURLY PRODUC         Average push distance:       Unadjusted hourly produ         Materials consistency de       Average push gradient:         Average site altitude:       Material weight:         Weight description:       Job Condition Correction	TITIES         00       00         00       LCY         1me:       Division of         1l factor:       Cat Handle         TION       Cat Handle         2TION       So feet         1,400.0 LCY       So feet         2,550 lbs/LCY       Earth - Dry packed         Earth - Dry packed       No         Skill:       0.1          1.1	book Y/hr tockpile 1.2			

Job efficiency:	0.830	(1 SHIFT/DAY)		
Spoil pile:	0.800	(SSD-AC)		
Push gradient:	0.786	(CAT HB)		
Altitude:	1.000	(CAT HB)		
Material Weight:	0.902	(CAT HB)		
Blade type:	1.000	(PAT)		
Net correction:	··			
Adjusted unit production: 59	93.18 LCY/hr			
Adjusted fleet production: 59	<b>3.18</b> LCY/hr			

	1 Dozer(s) \$0.756/LCY
otal job time	<b>3 71</b> Hours

Total job time:3.71 HoursTotal job cost:\$1,662

#### Page 1 of 3

# TRUCK/LOADER TEAM WORK

Site: Dillon Ranch Pit		Permit Act	ion: 2024-06-06		Permit/Job#: M	11987064
<u>PROJECT IDEN</u>	TIFICATION					
Task #: 09A		State: Colo	rado	Ab	breviation: No	one
Date: 6/6/20	24 C	ounty: La Pl	ata		Filename: M	064-09a
User: DMC						
Agency or	organization nam	e: DRMS				
HOURLY EQUI	PMENT COST			Shift bas	is: <u>1 per day</u>	
			Equipment Descri	ption		
T	ruck Loader Tean		eneric 8-10 cy, 6x4	•		
	ort Equipment -Lo		АТ 966Н			
Suppo	1 1	mp Area: NA				
Road Ma	aintenance – Moto	r Grader: NA	A			
	-Wate	er Truck: NA	A			
Cost Breakdown:	Truck/Load	ler Team	Support	Equipment	Maintena	nce Equipment
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	NA	N
Ownership cost/hour:	\$16.85	\$65.69	NA	NA	NA	N
Operating cost/hour:	\$49.69	\$48.09	NA	NA	NA	N
%Utilization-riper:	NA	0	NA	NA	NA	N
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	N
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	N
Operator cost/hour:	\$0.00	\$40.71	NA	NA	NA	N
Unit Subtotals:	\$66.54	\$154.49	NA	NA	NA	N.
Number of Units:	2	1	0	0	0	<u></u>
Group Subtotals:	Work:	\$287.57	Support:	\$0.00	Maint:	\$0.00
Total work team cos	t/hour: <u>\$287.57</u>					
MATERIAL OIL	ANTITIES					
MATERIAL QUA						
Initial volume: Loose volume:	550 <b>550</b>	CC' 		factor: <u>1.000</u>		
	arce of estimated v of estimated swel		ision of Reclamatic Handbook	on, Mining & Safe	ety	
Source	Material Purcha					
	Tot	al Cost: \$0.0	00			
HOURLY PRO	<u>DUCTION</u>					
Truck Capacity:						
<u>Truck Payload (weig</u> Material w			Pounds/LCY			
IVIAICIIAL W	orgin. 2,000		I UUIUS/LU I			
Descri	ption: Earth - I	Dry packed				

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:	5.25	LCY	
Loading Tool Capacity						
<del></del>			Buc	ket Size Class:	NA	
Rated Capacity:	5.000	LCY (heaped				
Bucket Fill Factor:	1.050	Other - moist		110%) 1.050		_
Adjusted Capacity:	5.250	LCY	χ	,		
L.L. Constituent Commentioner			$\mathbf{C}^{\prime}$	(590 6)		
Job Condition Corrections:			Site Altitude (ft.):			
Altitude Adj:	Truck 1.000	Loader 1.000	CAT HE			
Job Efficiency:	0.830	0.830	(CAT HE			
JOU Efficiency.	0.830	0.850	(CAT III	3)		
Net Correction:	0.830	0.830				
Leading Teel Crole Times	Na antes		Deserve Deservined to	E:11 Translar		
Loading Tool Cycle Time:		r of Loading Tool I	Passes Required to	Fill Truck:	1	passes
Loading Tool Cycle Time: Excavators and Front Shovels		r of Loading Tool I	Passes Required to	Fill Truck:	1	passes
Excavators and Front Shovels Machine Cycle Time vs	<u>s:</u> . Job Conditio	on Rating: NA	Passes Required to	Fill Truck:	1	passes
Excavators and Front Shovels Machine Cycle Time vs Selected Value w	<u>s:</u> . Job Conditio <i>v</i> ithin this Basi	on Rating: NA ic Rating: NA	Passes Required to	Fill Truck:	<u>I</u>	passes
Excavators and Front Shovels Machine Cycle Time vs	<u>s:</u> . Job Conditio <i>v</i> ithin this Basi	on Rating: NA ic Rating: NA	Passes Required to	Fill Truck:		passes
Excavators and Front Shovels Machine Cycle Time vs Selected Value w	<u>s:</u> . Job Conditio <i>v</i> ithin this Basi	on Rating: NA ic Rating: NA	Passes Required to	Fill Truck:		passes
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – N	<u>s:</u> . Job Conditio vithin this Basi Material Descr	on Rating: NA ic Rating: NA	Passes Required to			passes
Excavators and Front Shovels Machine Cycle Time vs Selected Value w Track Loaders – M Cycle Time Elements (min.):	<u>s:</u> . Job Conditio vithin this Basi Material Descr	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription:	Passes Required to			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 Basi Material Descr Material Descr	on Rating: NA ic Rating: NA ription:		Dump:0.10	00	utes
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	<u>s:</u> . Job Conditio rithin this Basi Material Descr Material Descr Material Descr	on Rating: NA ic Rating: NA ription: Maneuver: NA asic Loader Cycle T		Dump: 0.10 maneuver): Factor (min.)	00 0.500 mir 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 - Cycle Time Factors Material:	s: Job Conditio vithin this Basi Material Descr Material Descr Material 3/4'	on Rating: NA ic Rating: NA ription: Maneuver: NA asic Loader Cycle 7	-  	Dump: 0.10 maneuver): Factor (min.) 0.000	00 0.500 mir Source (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 - Cycle Time Factors Material: Stockpile:	s: Job Conditio vithin this Basi Material Descr M Unadjusted Ba Material 3/4' Conveyor or	on Rating: NA ic Rating: NA ription:	Time (load, dump, 0 igh or less 0.01	Dump: 0.10 maneuver): Factor (min.) 0.000 0.010	00 0.500 mir Source (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 – Cycle Time Factors Material: Stockpile: Truck Ownership:	s: Job Condition vithin this Base Material Descr Munadjusted Ba Material 3/4' Conveyor or No adjustment	on Rating: <u>NA</u> ic Rating: <u>NA</u> ription: Maneuver: <u>NA</u> asic Loader Cycle 7 <u>' to 6" diameter 0.0</u> <u>dozer piled 10 ft. h</u> nt - factor not appli	Time (load, dump, 0 igh or less 0.01 cable 0.00	Dump: 0.10 maneuver): Factor (min.) 0.000 0.010 0.000	00 0.500 mir 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 - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s: Job Condition vithin this Base Material Descr Munadjusted Ba Material 3/4' Conveyor or No adjustmen No adjustmen	on Rating: NA ic Rating: NA ription: Maneuver: NA asic Loader Cycle 7 ' to 6" diameter 0.0 dozer piled 10 ft. h nt - factor not appli ent - factor not appli	Time (load, dump, 0 igh or less 0.01 cable 0.00	Dump: 0.10 maneuver): Factor (min.) 0.000 0.010 0.000 0.000	00 0.500 mir 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 – Cycle Time Factors Material: Stockpile: Truck Ownership:	s: Job Condition vithin this Base Material Descr Munadjusted Ba Material 3/4' Conveyor or No adjustment	on Rating: NA ic Rating: NA ription:	Time (load, dump, 0 igh or less 0.01 cable 0.00 icable 0.00	Dump: 0.10 maneuver): Factor (min.) 0.000 0.010 0.000 0.000 0.000	00 0.500 mir 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 - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s: Job Condition vithin this Base Material Descr Munadjusted Ba Material 3/4' Conveyor or No adjustmen No adjustmen	on Rating: NA ic Rating: NA ription:	Time (load, dump, 1 Time (load, dump, 1 O igh or less 0.01 cable 0.00 icable 0.00 ime Adjustment:	Dump: 0.10 maneuver): Factor (min.) 0.000 0.010 0.000 0.000 0.000 0.010	00 mir 0.500 mir (Cat HB) (Cat HB) (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 - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s: Job Condition vithin this Base Material Descr Munadjusted Ba Material 3/4' Conveyor or No adjustmen No adjustmen	on Rating: NA ic Rating: NA ription:	ime (load, dump, 0 igh or less 0.01 cable 0.00 icable 0.00 ime Adjustment: ider Cycle Time:	Dump: 0.10 maneuver): Factor (min.) 0.000 0.000 0.000 0.000 0.010 0.010 0.010 0.510	00 0.500 mir Source (Cat HB) (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 - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s: Job Condition vithin this Base Material Descr Munadjusted Ba Material 3/4' Conveyor or No adjustmen No adjustmen	on Rating: NA ic Rating: NA ription:	Time (load, dump, 1 Time (load, dump, 1 O igh or less 0.01 cable 0.00 icable 0.00 ime Adjustment:	Dump: 0.10 maneuver): Factor (min.) 0.000 0.010 0.000 0.000 0.000 0.010	00 mir 0.500 mir (Cat HB) (Cat HB) (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 - Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	s: Job Condition vithin this Base Material Descr Munadjusted Ba Material 3/4' Conveyor or No adjustmen No adjustmen	on Rating: NA ic Rating: NA ription:	ime (load, dump, 0 igh or less 0.01 cable 0.00 icable 0.00 ime Adjustment: ider Cycle Time:	Dump: 0.10 maneuver): Factor (min.) 0.000 0.000 0.000 0.000 0.010 0.010 0.010 0.510	00 0.500 mir Source (Cat HB) (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 – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	s: Job Condition ithin this Basi Material Descr Munadjusted Ba Material 3/4' Conveyor or No adjustmen No adjustmen No adjustmen	on Rating: NA ic Rating: NA ription:	Time (load, dump, 0 igh or less 0.01 cable 0.00 icable 0.00 ime Adjustment: der Cycle Time: Time per Truck:	Dump: 0.10 maneuver): Factor (min.) 0.000 0.000 0.000 0.000 0.010 0.010 0.010 0.510	00 0.500 mir Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	iutes
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         Material:         Stockpile:         Truck Ownership:         Operation:         Dump Target:	s: Job Condition ithin this Basi Material Descr Munadjusted Ba Material 3/4' Conveyor or No adjustmen No adjustmen No adjustmen Nominal targ	on Rating: NA ic Rating: NA ription:	Fime (load, dump, 0 igh or less 0.01 cable 0.00 icable 0.00 ime Adjustment: ider Cycle Time: Time per Truck: Adjusted	Dump: 0.10 maneuver): Factor (min.) 0.000 0.000 0.000 0.000 0.000 0.010 0.010 0.510 0.100	00 0.500 min Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	nutes   
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         Material:         Stockpile:         Truck Ownership:         Operation:         Dump Target:	s: Job Condition vithin this Basis Material Descr Munadjusted Ba Material 3/4' Conveyor or No adjustmen No adjustmen No adjustmen Nominal targ	on Rating: NA ic Rating: NA ription:	Time (load, dump, 0 igh or less 0.01 cable 0.00 icable 0.00 ime Adjustment: der Cycle Time: Time per Truck: Adjusted Adjusted	Dump: 0.10 maneuver): Factor (min.) 0.000 0.010 0.000 0.000 0.000 0.000 0.010 0.510 0.100	00 0.500 mir Source (Cat HB) (Cat HB) (C	-

Haul Rout		<b>.</b>			T (1)	<b>T</b> 7 <b>1 1</b>	T1	
Seg #	Haul I (Ft)	Distance	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)	
1	30.00		0.00	5.00	5.00	2218	0.083	
					Haul Time:	0.083	minutes	
Return Ro	oute:				_			
Seg #		Distance	Grade (%)	Roll. Res	Total Res	Velocity	Travel	
	(Ft)			(%)	(%)	(fpm)	Time (min)	
1	30.00		0.00	5.00	5.00	2814	0.039	
				Tatal Tra	Return Time:	0.039	minutes	
				Total Tru	ck Cycle Time:	1.522	minutes	
Loading Too Produ Truck Unit Produ	iction	525.00	LCY/Hour		Adjusted for j	ob efficiency:	435.75	LCY/Hour
Truck Unit Produ	-	206.96	LCY/Hour		Adjusted for j	ob efficiency:	171.78	LCY/Hour
Optimal No. of Tr	ucks:	3	Truck(s)		Selected Num	ber of Trucks:	2	Truck(s)
					k team production			Hour
					er team production			
			Adjusted multip	le truck/loade	er team production	on: 343	.56 LCY/I	Hour
JOB TIN	ME AN	D COST						
Fleet	size:	1	Team(s)	ſ	Fotal job time:	1.60	Hou	rs
Unit o	cost:	\$0.837	/LCY	,	Total job cost:	\$460	)	

Permit Action	: 2024-06-06	D	
ION		Permit/Job#:	M1987064
State: Colorad County: La Plata		Abbreviation: Filename:	None M064-10a
n name: DRMS			
COST			
- 8SU			
1			
ipper			
	Utilization %		
\$241.38	NA		
\$41.30	) NA		
<u>S</u>			
<u> </u>			
	ation, Mining & Safety		
	ation, Mining & Safety		
  Division of Reclama	ation, Mining & Safety		
Division of Reclams r: Cat Handbook	ation, Mining & Safety		
  Division of Reclama	ation, Mining & Safety		
Division of Reclams Cat Handbook	ation, Mining & Safety		
Division of Reclams Cat Handbook 50 feet	ation, Mining & Safety		
Division of Reclams Cat Handbook	ation, Mining & Safety		
Division of Reclams Cat Handbook 50 feet			
Division of Reclama Cat Handbook 50 feet 1,400.0 LCY/hr on: Loose stockpile 1 6			
                                                                                                                                                                                                                                                                                                                                                                                                   _			
Division of Reclama Cat Handbook 50 feet 1,400.0 LCY/hr on: Loose stockpile 1 6			
Division of Reclama         Cat Handbook         50 feet         1,400.0 LCY/hr         on:       Loose stockpile 1         6         10 feet         60 feet         60 lbs/LCY         h - Dry packed         r	.2 Source		
Division of Reclama         r:       Cat Handbook         50 feet         1,400.0 LCY/hr         on:       Loose stockpile 1         6         00 feet         60 lbs/LCY         h - Dry packed         r       0.750	.2 .2 <u>Source</u> (AVG.)		
Division of Reclama         Cat Handbook         50 feet         1,400.0 LCY/hr         on:       Loose stockpile 1         6         10 feet         60 feet         60 lbs/LCY         h - Dry packed         r	.2 Source		
Division of Reclama         r:       Cat Handbook         50 feet         1,400.0 LCY/hr         on:       Loose stockpile 1         6         00 feet         60 lbs/LCY         h - Dry packed         r       0.750	.2 .2 <u>Source</u> (AVG.)		
	20ST - 8SU versal ipper \$241.38 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$143.92 \$1	COST         - 8SU         versal         ipper	2OST         - 8SU         versal         ipper

0.830	(1 SHIFT/DAY)		
0.800	(SSD-AC)		
0.786	(CAT HB)		
1.000	(CAT HB)		
0.902	(CAT HB)		
1.000	(PAT)		
Net correction: 0.4237			
93.18 LCY/hr			
3.18 LCY/hr			
	0.800 0.786 1.000 0.902 1.000 0.4237 3.18 LCY/hr		

1 Dozer(s)	
\$0.756/LCY	
<b>0.93</b> Hours	
\$416	
	\$0.756/LCY <b>0.93</b> Hours

# BULLDOZER RIPPING WORK

Task descrip	otion: Ri	p compacted stockpile and	l haul areas		
Site: Dillon Ra	nch Pit	Permit Action:	2024-06-06	Permit/Job	#: <u>M1987064</u>
<b>PROJEC</b>	<b>IDENTIFICA</b>	<u>FION</u>			
Task #: Date: User:	11A 6/6/2024 DMC	State:ColoradoCounty:La Plata		Abbreviation: Filename:	
	ency or organizati	on name: DRMS			
-					
E	asic Machine:	Cat D8T - 8SU 3-Shank Ripper		Horsepower: Shift Basis: 1 Data Source:	310 per day (CRG)
Cost Break	own:				· · · · · · · · · · · · · · · · · · ·
	Ownership	Cost/Hour:	\$241.38	Utilization % NA	
	Operating Ripper Ownership	Cost/Hour:	\$143.92 \$14.11	100 NA	
	Ripper Operating		\$7.45	100	
	-	Cost/Hour:	\$41.30	NA	
	Total Unit	Cost/Hour:	\$448.16		
	Total Fleet	Cost/Hour: \$44	8.16		
MATERI	AL QUANTITI	E <u>S</u> Sele	ected estimating r	method: Area	
Alternate M	ethods:				
ismic: NA		Bank Volume:	NA	BCY	NA
Area: 3.00	acres	Rip Depth (ft):	1.50	Volume: 7,260	BCY o
	Source of e	stimated quantity: Reclan	nation Plan		
HOURLY	PRODUCTION	<u>N</u>			
Seismic:					
		Seismic Velocity:	NA	feet/second	
Area:					
		rage Ripping Depth: age Ripping Width:	<u>1.50</u> 7.08	feet/pass feet/pass	
		age Ripping Length:	300.00	feet/pass	
		verage Dozer Speed:	88.00	feet/minute	
		ge Maneuver Time:	0.25	minutes/pass	
	Prod	uction per unit area:	0.800	acres/hour	
Job Conditie	on Correction Fact	ors			
	Unadjusted Hou	rly Unit Production:	0.800	Acres/hr	
		Site Altitude:	6,580	feet	
		Altitude Adj:	1.00	(CAT HB)	
		Job Efficiency:	0.83	(1 shift/day)	
		Net Correction:	0.83	multiplier	
		ed Hourly Unit Production: ed Hourly Fleet Production:	0.66 <b>0.66</b>	Acres/hr Acres/hr	
JOB TIM	E AND COST				
Fleet siz	e:1	Grader(s)	Total job time:	4.52	Hours
Unit cos	t: \$675.321	Per acre	Total job cost	\$2,026	

# **REVEGETATION WORK**

Task descri	ption:	<b>Revegetation 7.6 acres</b>			
Site: Dillon Ranch Pit		Permit Action:	2024-06-06	Permit/Job#	#: M1987064
<b>PROJECT</b>	IDENTIFIC	CATION			
Task #:	12A	State: Colorado		Abbreviation:	None
Date:	6/6/2024	County: La Plata		Filename:	M064-12a
User:	DMC	·			

# **FERTILIZING**

#### Materials

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

#### Application

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

# **TILLING**

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

#### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	2.04	6.60	\$18.11
Orchardgrass - Paiute	0.64	7.93	\$2.61
Slender Wheatgrass - San Luis	1.87	6.83	\$7.95
Meadow Foxtail - Garrison	0.48	6.39	\$3.50
Western Wheatgrass - Arriba	2.72	6.87	\$17.68
Needle and Thread	2.72	7.18	\$113.83
Totals Seed Mix	10.47	41.80	\$163.67

Application

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
Straw, delivered {MEANS 31 25 14.16 1200}	1.00	TON	\$429.79	\$429.79
Total Mulch Materials Cost/Acre				\$429.79

#### Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$74.46
Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	<b>Total Mulch Application Cost/Acre</b>	\$222.13

#### **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

No. of Acres:	7.6	Cost /Acre:	\$1,160.41
Estimated Failure Rate:	20%	Cost /Acre*:	\$1,160.41
*Selected Replanting Work Items:	TILLING,SEEDIN	G,MULCHING	

\$8,819.12
\$1,763.82
\$10,583
8.00

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

-	on Ranch P	it	Permit	Action: 2024	-06-06	I	Permit/Job	#: <u>M</u>	1987064
<u>PROJI</u>	ECT IDEN	TIFICATI	ON						
Tas	k#: 13A		State: Co	olorado		Abbre	viation:	None	
	Oate:         6/6/2           Jser:         DMC		County: La	Plata		Fi	lename:	M064	-13a
	Agency or	organization	n name: DRMS						
<u>EQUII</u>	PMENT TI	RANSPOR	<u>T RIG COST</u>						
					(	Shift ba Cost Data Sour		per day RG Dat	
	Truck 7	Fractor Desc	ription: GENE	RIC ON-HIGH	WAY TRU	CK TRACTC	OR, 6X4, I		
	Truck	Trailer Desc	ription: G	ENERIC FOLI	DING GOO	(2ND HALF, SENECK, DR (25T, 50T, AN	OP DECI	K EQUI	PMENT
Cost Br	eakdown:								
	able Rig Ca		0-25 Tons	26-50 Tons	51+	Tons			
	Ownership (		\$20.26	\$36.04		7.05			
Operating Cost/Hour:		\$39.51	\$76.08		2.85				
	Operator (		\$22.52 \$22.52			\$22.52			
		Cost/Hour:	\$0.00	\$23.53		3.53			
	Total Unit (	Cost/Hour:	\$82.29	\$158.17	\$17	75.95			
<u>NON F</u>	ROADABL	E EQUIP	MENT:						
	ne	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return 7		DOT Permit
Machi		Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/	fleet	Cost/ fleet
Machi Descri	ption			t		fleet			
Descri	•	(TONS)			1	\$431.44	\$175.95	-	\$0.00
Descri Cat D8	T - 8SU	53.08	\$255.49	\$175.95	-				
Descri	T - 8SU		\$255.49 \$65.69	\$175.95 \$82.29	1	\$147.98	\$82.29		\$0.00

Machine Description	Total Cost/hr/	Fleet Size	Haul Trip	Return Trip
	unit		Cost/hr/ fleet	Cost/hr/ fleet
Generic 8-10 cy, 6x4	\$98.45	2	\$196.90	\$196.90
Light Duty Pickup, 4x4, 3/4 T.	\$15.83	1	\$15.83	\$15.83
Drill/Broadcast Seeder with	\$14.81	1	\$14.81	\$14.81
Tractor				
Power Mulcher (Bowie LD-90)	\$57.02	1	\$57.02	\$57.02
		Subtotals:	\$284.56	\$284.56

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	DURANGO 7.00 40.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$2,610.86	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$99.60	

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.18	0.18
Return Time (Hours):	0.18	0.18
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.35	0.35

# JOB TIME AND COST

Total job time: **4.70** Hours

Total job cost: \$2,710