COST SUMMARY WORK

te: Pickering	g Family Pit	Per	mit Action:	2022 AM1 Bond Estimate	Permit/Jol	b#: <u>M2009086</u>
PROJECT Task #: Date: User:	020 8/10/2022 PSH	State: County:	Colorado Grand		Abbreviation: Filename:	None M086-020
Age		zation name:DR	MS			

Task		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
021	Backfill all slopes from 2H:1V to 3H:1V	DOZER	1	236.97	\$62,509
022	Scarify Pit Only - 17.25 Acres	RIPPER	1	25.54	\$7,261
023	Topsoil Replacement	DOZER	1	14.78	\$3,899
024	Revegetate, Fertilizer and Mulch - 17.5 Acres	REVEGE	1	40.00	\$44,052
025	Mob / Demob	MOBILIZE	1	4.57	\$1,717
		321.86	\$119,438		

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:2.02Total =\$2,413Performance bond:1.05Total =\$1,254Job superintendent:143.21Total =\$10,759

Profit: 10.00 Total = $\frac{\$11,944}{\$26,370}$

CONTRACT AMOUNT (direct + O & P) = $\frac{$23,576}{$145,808}$

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500 Total = \$500

Engineering work and/or contract/bid preparation: Reclamation management and/or administration: 5.00

Total = \$6,197

\$7,290

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$40,357

TOTAL BOND AMOUNT (direct + indirect) = \$160,000 (Rounded)

BULLDOZER WORK

Task description:	Backfill all slope	s from 2H:1	V to 3H:1V		
te: Pickering Family I		rmit Action:	2022 AM1 Bond Estimate	Permit/Jol	p#: M2009086
PROJECT IDENTI	FICATION				
Task #: 021 Date: 8/10/202	State:	Colorado Grand		Abbreviation: Filename:	None M086-021
User: PSH	County.	Grunu		i ilename.	141000 021
Agency or or	ganization name: DR	MS			
HOURLY EQUIPM	IENT COST				
	Cat D8T - 8SU				
	310		_		
	Semi-Universal		=		
	NA		_		
	1 per day		_		
	(CRG)		_		
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/Hou		\$124.85	NA		
Operating Cost/Hou		\$97.63	100		
Ripper own		\$0.00	NA		
Cost/Hou					
Ripper op. Cost/Hou		\$0.00	0		
Operator Cost/Hou	r:	\$41.30	NA		
Swell factor: 1	5,260 .000 5,260 LCY olume: Division		on, Mining & Safety		
HOURLY PRODUC					
Average push distance Unadjusted hourly production:	e: 100 feet 852.6 LCY	/hr			
Materials consistency	description: Loose s	stockpile 1.2			
Average push	10 %				
gradient:					
Average site altitude:	8,150 feet				
Material weight:	2,900 lbs/LCY				
Weight description:	Sand and gravel -	Dry			
Job Condition Correction	on Factor		Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(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:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3725

Adjusted unit production: 317.59 LCY/hr

Adjusted fleet production: 317.59 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.831/LCY

Total job time: 236.97 Hours
Total job cost: \$62,509

BULLDOZER RIPPING WORK

Task description:	Scarify Pit Only - 17.25 Ac	eres				
	Permit Action		Bond		3.53.00000	
Site: Pickering Family	<u>Pit</u>	Estimate		Permit/Job#:	M2009086	
PROJECT IDENT	<u>TIFICATION</u>					
Task #: 022	State: Colorado)	Abbı	reviation: N	Vone	
Date: 8/10/2	022 County: Grand		F	Filename: N	И086-022	
User: PSH						
Agency or o	organization name: DRMS					
HOURLY EQUIP	MENT COST					
Basic Mac			Horsepower:	310	n	
Ripper Attach			Shift Basis:	1 per		
rapper rataem	ment. 3 Shank Ripper		Data Source:	(CR		
Cost Breakdown:						
Cost Breakdown.			Utilization %			
0	wnership Cost/Hour:	\$124.85	NA			
	Operating Cost/Hour:	\$97.63	100	-		
Ripper O	wnership Cost/Hour:	\$13.10	NA	-		
	Operating Cost/Hour:	\$7.30	100	_		
	Operator Cost/Hour:	\$41.30	NA	-		
T	otal Unit Cost/Hour:	\$284.18				
т	otal Fleet Cost/Hour: \$28	84.18				
nic: <u>NA</u> rea: 17.25	Bank Volume acres Rip Depth (ft)		BCY Volume:	13,915	NA B	CY or
	urce of estimated quantity: Permi					
HOURLY PRODU	· · ·	ii i ippii uui oii				
Seismic:	(CITOI)					
<u>Seisinie.</u>	Seismic Velocity:	NA	feet/sec	ond		
Aran	·					
Area:	Average Ripping Depth:	2.56	feet/pas	. c		
	Average Ripping Width:	7.08	feet/pas			
	Average Ripping Length:	400.00	feet/pas			
	Average Dozer Speed:	88.00	feet/min			
	Average Maneuver Time:	0.25	minutes	s/pass		
	Production per unit area:	0.813	acres/h	our		
Job Condition Correct	tion Factors					
Unadju	sted Hourly Unit Production:	0.813	Acres/h	nr		
	Site Altitude:	8,150	feet			
	Altitude Adj:	1.00	(CAT I			
	Job Efficiency:	0.83	(1 shift			
	Net Correction:	0.83	multipl	ier		
	Adjusted Hourly Unit Production:	0.68	Acres/hr			
	Adjusted Hourly Fleet Production:	0.68	Acres/hr			
JOB TIME AND (COCT					
	.051					
Fleet size:	1 Grader(s)	Total job tim	ne: 2	25.55	Hours	

Unit cost:	\$420.909	Per acre	Total job cost:	\$7,261

BULLDOZER WORK

Task description:	Topsoil Replace	ment			
ite: Pickering Family P		rmit Action:	2022 AM1 Bond Estimate	Permit/Jol	b#: M2009086
PROJECT IDENTII	FICATION				
Task #: 023 Date: 8/10/202 User: PSH	State: County:	Colorado Grand		Abbreviation: Filename:	None M086-023
	ganization name:DF	ams.			
HOURLY EQUIPM	ENT COST				
Basic Machine: C Horsepower: 3 Blade Type: S Attachment: N Shift Basis: 1	Cat D8T - 8SU 810 Semi-Universal NA per day		- - - -		
Data Source:(Cost Breakdown:	CRG)		_		
Ownership Cost/Hour Operating Cost/Hour		\$124.85 \$97.63	Utilization % NA 100		
Ripper own Cost/Hour	1.	\$0.00	NA		
Ripper op. Cost/Hour		\$0.00	0		
Operator Cost/Hour	r:	\$41.30	NA		
Swell factor: 1.	184 000 184 LCY		on, Mining & Safety		
factor:	ven Cai Hand	DOOK			
HOURLY PRODUC	<u>CTION</u>				
Average push distance Unadjusted hourly production:	200 feet 491.9 LCY	/hr			
Materials consistency	description: Loose	stockpile 1.2			
Average push gradient:	-10 %				
Average site altitude:	8,150 feet				
Material weight:	1,600 lbs/LCY				
Weight description:	Top Soil				
Job Condition Correctio	n Factor		Source		

Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.200	(SLOT)
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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 1.2632

Adjusted unit production:

Adjusted fleet 621.37 LCY/hr

621.37 LCY/hr

production: 621.37 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.425/LCY

Total job time: 14.78 Hours
Total job cost: \$3,899

REVEGETATION WORK

Task #:024State:ColoradoAbbreviation:NoneDate:8/10/2022County:GrandFilename:M086-024User:PSH

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	2.00	pound	\$0.29	\$0.58
			Total Fertilizer Materials	
			Cost/Acre	\$0.58

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$39.64
	Total Fertilizer Application Cost/Acre	\$39.64

TILLING

Description		Cost /Acre
Chisel plowing {DMG}		\$98.43
Weed control spraying (MEANS 31 31 16.13 3100)		\$290.40
	Total Tilling Cost/Acre	\$388.83

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Smooth Brome - Manchar	7.00	23.30	\$23.28
Pubescent Wheatgrass - Luna	7.00	14.46	\$23.80
Totals Seed Mix	14.00	37.76	\$47.08

Application

Description	Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)	\$484.00

Ī		
	Total Seed Application Cost/Acre	\$484.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$3.04	\$3.04
Total Mulch Materials Cost/Acre				\$845.76

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$73.00
Weed spray, truck, non-aquatic area, nox. [DMG]		\$62.72
Weed spray, truck, non-aquatic areas, ann. [DMG]		\$22.81
	Total Mulch Application Cost/Acre	\$158.53

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: 17.25 Cost /Acre: \$1,964.42

Estimated Failure Rate: 30% Cost /Acre*: \$1,964.42

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

LCHING

Initial Job Cost: \$33,886.25

Reseeding Job Cost: \$10,165.87

Total Job Cost: Job Hours: \$44,052

40.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: M	lob / Demob				
te: Pickering Family Pit	Permi	t Action: 2022 B	ond Estimate	Permit/Job	p#: <u>M2009086</u>
PROJECT IDENTIFICAT	CION				
Task #: 025	State: C	Colorado	Ab	breviation:	None
Date: 8/9/2022	County: C	Grand		Filename:	M086-025
User: PSH					
Agency or organization	on name: DRM	S			
EQUIPMENT TRANSPO	RT RIG COST				
			Ch; ft	basis:	I non doss
			Cost Data S		l per day CRG Data
					 -
Truck Tractor Des	scription: GEN	ERIC ON-HIGHW			DIESEL POWERED,
			400 HP (2ND HAI	, ,	
Truck Trailer Des	scription:		IG GOOSENECK,		K EQUIPMENT
		TR	AILER (25T, 50T,	AND 100T)	
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons		
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58		
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41		
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71		
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22		

NON ROADABLE EQUIPMENT:

Total Unit Cost/Hour:

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
Cat D8T - 8SU	53.08	\$137.95	\$136.92	1	\$274.87	\$136.92	\$250.00

\$136.92

\$101.82

\$68.22

Subtotals: \$274.87 \$136.92 \$250.00

ROADABLE EQUIPMENT:

	Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
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Subtotals: \$0.00 \$0.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

GRANBY, CO
miles
5.00
mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.14	0.14
Return Time (Hours):	0.14	0.14
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.29	0.29

JOB TIME AND COST

Total job cost: 4.57 Hours

Total job cost: \$1,717