COST SUMMARY WORK

]	Task description:	Reclamation Cost Update So	03			
Site:	Gleason Pit	Permit Action:	2024-07-03		Permit/Job#	#: <u>M1983159</u>
<u>P</u>	ROJECT IDENTIFICA	<u>ATION</u>				
	Task #: 000 Date: 7/3/2024 User: DMC	State: Colorado County: Montrose			Abbreviation: _ Filename: _	None M159-000
	-	ation name:DRMS				
<u>T</u>	ASK LIST (DIRECT (COSTS)				
ask	Description		Form Used	Fleet Size	Task Hours	Cost
1a	Reduce all mined slop	es to 3H:1V	DOZER	1	3.33	\$1,070
2a	Rip pit floor		RIPPER	1	7.63	\$2,628
3a	Spread topsoil		DOZER	1	19.08	\$6,138
4a	Revegetate disturbed a		REVEGE	1	12.00	\$26,623
5a	Mobilize reclamation	crew and equipment	MOBILIZE	1	3.30	\$2,947
	NDIRECT COSTS		SUBTO	TALS.	45.34	\$39,406
'	VERHEAD AND PROFIT	<u>:</u>				
	Liability insurance Performance bore Job superintender Prof	d: 1.05 nt: 22.67 it: 10.00	RACT AMOUNT		Total = $\frac{\$3}{\$6}$, O & P = $\frac{\$6}{\$6}$,	
LI	EGAL - ENGINEERING -	PROJECT MANAGEMENT:				
	Engineering work and	cessing (legal/related costs): _/or contract/bid preparation: _ement and/or administration: _	\$500 0.00 5.00	- - -	$Total = \underbrace{\begin{array}{c} \$50 \\ \text{Total} = \\ \hline \$2, \end{array}}$	318
		CONTINGENCY:	0.00		Total =\$0	
			TOTAL I	NDIRECT	$\Gamma COST = \$9,$	765
		TOTAL BO	ND AMOUNT (d	lirect + ir	ndirect) = \$49	0,171

BULLDOZER WORK

Task description:	Reduce all	l mined slopes to 3	H:1V		
Gleason Pit		Permit Action:	2024-07-03	Permit/Job#:	M1983159
PROJECT IDEN	TIFICATION				
Task #: 01A	;	State: Colorado		Abbreviation:	None
Date: $\frac{7}{3/20}$	24 Co	ounty: Montrose		Filename:	01a
User: DMC				-	
Agency or	organization name	DRMS			
HOURLY EQUI	PMENT COST				
Basic Machine:	Cat D8T - 8SU				
Horsepower:	310				
Blade Type:	Semi-Universal				
Attachment:	NA				
Shift Basis:	1 per day		<u> </u>		
Data Source:	(CRG)		<u></u>		
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/He		\$173.32	NA		
Operating Cost/He		\$109.71	100		
Ripper own. Cost/He		\$0.00	NA		
Ripper op. Cost/He		\$0.00	0		
Operator Cost/He	our:	\$38.59	NA		
Initial Volume: Swell factor:	2,448 1.125				
Loose volume: _	2,754 LCY				
Source of estimated Source of estimated		isting Conditions t Handbook			
HOURLY PROD	<u>UCTION</u>				
Average push distan Unadjusted hourly p		oet 0.0 LCY/hr			
Materials consistence	y description:	Compacted fill or e	mbankment 0.9		
Average push gradie Average site altitude					
Material weight:	2,550 lbs/L	CY			
Weight description:	Earth - Dry	packed			
Job Condition Corre		0.750	Source		
	ator Skill:	0.750	(AVG.)		
Material co	nsistency: g method:	0.900 1.100	(CAT HB))		
	g metnod: Visibility:	1.000	(50% SL) (AVG.)		
	v isidility:	1.000	(AVG.)		

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5910

Adjusted unit production: 827.40 LCY/hr
Adjusted fleet production: 827.4 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.389/LCY

Total job time: 3.33 Hours
Total job cost: \$1,070

BULLDOZER RIPPING WORK

	Task description:	_Rip p	it floor				
Site	: Gleason Pit		Permit Action:	2024-07-03	Per	mit/Job#: <u>M1</u>	983159
	PROJECT IDE	ENTIFICATION ENTIF	<u>ON</u>				
	Task #: 02A	A	State: Colorado		Abbre	viation: Non	e
		/2024	County: Montrose		Fi	lename: 02a	
	User: DM	<u>IC</u>					
	Agency	or organization i	name: DRMS				
	HOURLY EQ	UIPMENT CO	<u>OST</u>				
	Basic I	Machine: Cat	D8T - 8SU		Horsepower:	310	
	Ripper Atta	achment: 3-Sh		_	Shift Basis:	1 per day	7
					Data Source:	(CRG)	
	Cost Breakdown:	-					
		0 1: 0	. /**	0152.22	Utilization %		
		Ownership Co		\$173.32	NA 100		
	Rinne	Operating Co er Ownership Co		\$109.71 \$14.53	NA		
		per Operating Co		\$7.95	100		
		Operator Co		\$38.59	NA		
		Total Unit Co	st/Hour:	\$344.10			
		Total Fleet Co	st/Hour: \$344	.10			
	MATEDIAL O						
	MATERIAL Q		Sele	cted estimating	g method: Area		
	Alternate Method	<u>ls:</u>					
Seismic:	NA		Bank Volume:	NA	BCY	NA	
Area:	5.00	acres	Rip Depth (ft):	2.00	Volume:16	,133	BCY or CC
		Source of estim	nated quantity: <u>DRMS</u>				
	HOURLY PRO	DDUCTION					
		 					
	Seismic:	S	eismic Velocity:	NA	feet/secor	nd	
		~					
	Area:	Average	Ripping Depth:	2.56	feet/pass		
			Ripping Width:	7.08	feet/pass		
			Ripping Length:	250.00	feet/pass		
		Avera	ge Dozer Speed:	88.00	feet/minu	ite	
			Maneuver Time:	0.25	minutes/p		
		Producti	on per unit area:	0.789	acres/hou	r	
	Job Condition Co	orrection Factors					
	Una	adjusted Hourly	Unit Production:	0.789	Acres/hr		
			Site Altitude:	6,600	feet		
			Altitude Adj:	1.00	(CAT HE	3)	
			Job Efficiency:	0.83	(1 shift/d	• /	
			Net Correction:	0.83	multiplier	ſ	
		Adjusted I	Hourly Unit Production:	0.65	Acres/hr		
		Adjusted F	Iourly Fleet Production:	0.65	Acres/hr		
	JOB TIME AN	ND COST					
	Fleet size:	1	Grader(s)	Total job tim	ne: 7.	64	Hours
	Unit cost:	\$525.601	Per acre	Total job cos	st: \$2.	.628	

BULLDOZER WORK

Task description:	Spread to	psoil			
: Gleason Pit		Permit Action:	2024-07-03	Permit/Job#:	M1983159
PROJECT IDENT	ΓΙΓΙCATION				
Task #: 03A		State: Colorado		Abbreviation:	None
Date: $\frac{7/3}{202}$	24 C	ounty: Montrose		Filename:	03a
User: DMC				-	
Agency or o	organization name	e: DRMS			
HOURLY EQUIP	MENT COST				
Basic Machine:	Cat D8T - 8SU				
Horsepower:	310		 ;		
Blade Type:	Semi-Universal				
Attachment:	NA				
Shift Basis:	1 per day				
Data Source: _	(CRG)				
Cost Breakdown:			ı		
			<u>Utilization %</u>		
Ownership Cost/Ho		\$173.32	NA 100		
Operating Cost/Ho		\$109.71	100		
Ripper own. Cost/Ho		\$0.00	NA 0		
Ripper op. Cost/Ho		\$0.00	0		
Operator Cost/Ho	ur:	\$38.59	NA		
Total unit Cost/Hour	\$321.62				
Total Fleet Cost/Hou					
MATERIAL QUA	<u>NTITIES</u>				
Initial Volume:	8,067				
——————————————————————————————————————	1.000				
	8,067 LCY				
	,				
Source of estimated v		0 ac. @ 6"			
Source of estimated s	well factor: C	at Handbook			
HOURLY PRODU	<u>UCTION</u>				
Average push distance	e: 200	feet			
Unadjusted hourly pr		.9 LCY/hr			
Materials consistency	description:	Loose stockpile 1.2			
Average push gradier Average site altitude:					
Material weight:	1,600 lbs/I	LCY			
Weight description:	Top Soil				
Job Condition Correct			Source		
	tor Skill:	0.750	(AVG.)		
Material cor		1.200	(CAT HB)		
	g method:	1.000	(GEN.)		
I	/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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 422.69 LCY/hr
Adjusted fleet production: 422.69 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.761/LCY

Total job time: 19.08 Hours
Total job cost: \$6,138

REVEGETATION WORK

Gleason Pit	Perm	it Action: <u>2024</u>	l-07-03		Permit/Job#	: <u>M1983159</u>
ROJECT IDENTIFIC	TATION					
		C . 1 1 .		A 1. 1.		NT
Task #: 04A Date: 7/3/2024		Colorado Montrose			_	None 04a
User: DMC	County	wontrose		ľ	ilename.	U 4 a
Agency or organization	zation name: DRM	IS				
ERTILIZING						
aterials						
Description		Units / Acre	Unit		/ Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-	5	200.00	pound	\$0.51		\$102.32
					Fertilizer Materials Cost/Acre	\$102.32
Description	(MEANIC 22 01 00 12	2.0120)				Cost /Acre
Description Tractor towed spreader	(MEANS 32 01 90.13	3 0120)				Cost /Acre \$43.12
	(MEANS 32 01 90.13		l Fertilizer Aj	oplication	Cost/Acre	
Tractor towed spreader	(MEANS 32 01 90.13		l Fertilizer Aj	pplication	Cost/Acre	\$43.12
Tractor towed spreader	(MEANS 32 01 90.13		l Fertilizer A _l	oplication	Cost/Acre	\$43.12
LLING Description Chisel plowing {DMG}		Total	l Fertilizer A _l	pplication	Cost/Acre	\$43.12 \$43.12
Tractor towed spreader LLING Description		Total	l Fertilizer A _l	oplication	Cost/Acre	\$43.12 \$43.12 Cost/Acre
Tractor towed spreader (LLING Description Chisel plowing {DMG}		Total			Cost/Acre	\$43.12 \$43.12 Cost /Acre \$102.41 \$338.80
Tractor towed spreader (LLING Description Chisel plowing {DMG} Weed control spraying (Total				\$43.12 \$43.12 Cost /Acre \$102.41 \$338.80
LLING Description Chisel plowing {DMG} Weed control spraying (Total	Tot	tal Tilling Rate – PLS LBS /		\$43.12 \$43.12 Cost /Acre \$102.41 \$338.80
Tractor towed spreader of the control spraying (EEDING Seed Mix		Total	Tot	tal Tilling Rate – PLS LBS / Acre	Cost/Acre Seeds per SQ. FT	\$43.12 \$43.12 Cost /Acre \$102.41 \$338.80 \$441.21
Tractor towed spreader of the	(MEANS 31 31 16.13	Total	Total	tal Tilling Rate – PLS LBS /	Cost/Acre Seeds per SQ.	\$43.12 \$43.12 Cost /Acre \$102.41 \$338.80 \$441.21

Application

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

Totals Seed Mix

\$78.39

42.78

8.90

Total Seed Application Cost/Acre	\$236.64

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$492.78	\$985.56
Total Mulch Materials Cost/Acre				\$985.56

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$85.37
Power mulcher (MEANS 32 91 13.16 0350)		\$157.25
	Total Mulch Application Cost/Acre	\$242.63

NURSERY STOCK PLANTING

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

JOB TIME AND COST

Cost /Acre: \$2,129.87 Cost /Acre*: \$2,129.87 No. of Acres: 10

Estimated Failure Rate: 25%

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

LCHING

Initial Job Cost: **\$21,298.70** Reseeding Job Cost: \$5,324.68 Total Job Cost: \$26,623 Job Hours: **12.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mobilize i	eciamai	tion crew and	equipment				
Site: Gleason Pit		Permit Action: 2024-07-03			Permit/Jo	Permit/Job#: M1983159		
PROJECT IDENT	<u> </u>							
Task #: 05A	S	State:	Colorado		Abbreviation:	None		
Date: $7/3/20$	024 Co	unty:	Montrose		Filename:	05a		
User: DMC								
Agency or o	organization name: ANSPORT RIG							
Truck T	ractor Description:	GEN	NERIC ON-HIG		RUCK TRACTOR, 6X4,	1 per day CRG Data DIESEL POWERED,		
			~=====================================		IP (2ND HALF, 2006)			
Truck Trailer Description:			GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)					
Cost Breakdown:								
Available Rig Cap	acities 0-25	5 Tons	26-50 To	ns 5	1+ Tons			
Ownership C		0.44	\$22.18		\$23.94			
Operating C		26.48	\$54.55		\$55.65			
Operator Co		22.52	\$22.52		\$22.52			
Helper Co		0.00	\$23.53		\$23.53			
Total Unit C	Total Unit Cost/Hour: \$59		\$122.78	3 9	\$125.64			

NON ROADABLE EQUIPMENT:

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D8T - 8SU	47.71	\$173.32	\$122.78	1	\$296.10	\$122.78	\$250.00
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: \$483.21 \$241.66 \$750.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$13.77	1	\$13.77	\$13.77

Subtotals: \$13.77 \$13.77

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

NORWOOD

miles

40.00

mph

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.33	0.33
Return Time (Hours):	0.33	0.33
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.65	0.65

JOB TIME AND COST

Total job cost: 3.30 Hours

Total job cost: \$2,947