COST SUMMARY WORK

Т	Task description: Reclamation Cost Estimate Summary						
Site:	Tomahawk Mine	Pe	rmit Action:	2023 Inspection	1	Permit/Job	#: <u>M1991003</u>
<u>PI</u>	ROJECT IDENTIFICA	ATION					
	Task #: 000 Date: 11/2/2023 User: AMG	State: County:	Colorado Pueblo		A	Abbreviation: _ Filename: _	None M003-000
	Agency or organiza	ation name:	RMS				
T	TASK LIST (DIRECT COSTS)						
Task	Description			Form Used	Fleet Size	Task Hours	Cost
001	Grade Highwall to 3H:	1V		DOZER	1	8.77	\$2,267
002	Spread 6 inches of tops			DOZER	1	45.56	\$11,656
003	Revegetation of max. a	inticipated disturb	ance	REVEGE	1	21.00	\$44,130
004	Mobilization/Demobili	zation		MOBILIZE	1	8.72	\$6,452
				<u>SUBTO</u>	OTALS:	84.05	\$64,505
INDIRECT COSTS							

OVERHEAD AND PROFIT:

Liability insurance:	2.02		Total =	\$1,303
Performance bond:	1.05		Total =	\$677
Job superintendent:	42.03		Total =	\$2,735
Profit:	10.00		Total =	\$6,450
			TOTAL O & $P =$	\$11,166
	CONT	RACT AMOUNT ((direct + O & P) =	\$75,671
LEGAL - ENGINEERING - PR	OJECT MANAGEMENT	:		
Financial warranty process	\$500	Total =	\$500	
Engineering work and/or contract/bid preparation:		4.25	Total =	\$3,216

TOTAL BO	ND AMOUNT (di	irect + indirect) =	\$83,170	
	TOTAL IN	DIRECT COST =	\$18,665	
CONTINGENCY:	0.00	Total =	\$0	
Reclamation management and/or administration:	-	1 otal =	\$3,784	
ngineering work and/or contract/bid preparation:	4.25	Total =	\$3.216	

BULLDOZER WORK

Task description:	Grade Highwall to 3H:1V			
Site: Tomahawk Mine	Permit Action:	2023 Inspection	Permit/Jo	b#: M1991003
<u>PROJECT IDENTIFI</u>	CATION			
Task #: 001 Date: $11/2/2023$	State: <u>Colorado</u> County: Pueblo		Abbreviation: Filename:	None
User: AMG	County. <u>1 ucoio</u>		T nename.	001
Agency or organ	ization name: DRMS			
HOURLY EQUIPME	NT COST			
	D7R DS Series II LGP	_		
Horsepower: 240		_		
	aight	-		
	hank ripper	-		
	er day	-		
Data Source: (CF	(G)	_		
Cost Breakdown:	1			
	011476	<u>Utilization %</u>		
Ownership Cost/Hour:	\$114.76	NA		
Operating Cost/Hour:	\$91.98	100		
Ripper own. Cost/Hour:	\$9.06	NA		
Ripper op. Cost/Hour:	\$2.51	50		
Operator Cost/Hour:	\$40.04	NA		
MATERIAL QUANT Initial Volume: <u>1,53</u> Swell factor: 1.43	6			
	0 6 LCY			
Source of estimated volu Source of estimated swe factor:		feet vertical		
HOURLY PRODUCT	ION			
Average push distance:	80 feet			
Unadjusted hourly production:	575.0 LCY/hr			
Materials consistency description:	Compacted fill or en	mbankment 0.9		
Average push gradient:	-5 %			
Average site altitude:	5,500 feet			
Material weight:	3,300 lbs/LCY			
Weight description:	Decomposed rock - 75% Rock	, 25% Earth		

Job Condition Correction Factor		Source
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.4354	

Adjusted unit production:	250.36 LCY/hr
Adjusted fleet production:	250.36 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$1.032/LCY
Total job time:	8.77 Hours
Total job cost:	\$2,267

BULLDOZER WORK

Task description:	Spread 6 inches of topsoil ov	er 11 acres		
e: Tomahawk Mine	Permit Action:	2023 Inspection	Permit/Jo	b#: <u>M1991003</u>
PROJECT IDENTIFI	CATION			
Task #: 002	State: Colorado		Abbreviation:	None
Date: 11/2/2023	County: Pueblo		Filename:	002
User: AMG				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	<u>NT COST</u>			
Basic Machine: Cat	t D7R DS Series II LGP			
Horsepower: 240)			
	aight			
Attachment: 3-s	hank ripper			
Shift Basis: 1 p	er day			
Data Source: (CI	RG)			
Cost Breakdown:		U (1):		
Ownership Cost/Hour:	\$114.76	<u>Utilization %</u> NA		
	\$114.76	<u> </u>		
Operating Cost/Hour: Ripper own.		100		
Cost/Hour:	\$9.06	NA		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$40.04	NA		
Total unit Cost/Hour:	\$255.84			
Total Fleet Cost/Hour:	\$255.84			
MATERIAL QUANT	ITIES			
Initial Volume: 3,12				
Swell factor: 1.25				
	8 LCY			
		(D) 114		
Source of estimated volu		est Phase 11.4 acres		
Source of estimated swe factor:	ell Cat Handbook			
lactor:				
HOURLY PRODUCT	ION			
Average push distance:	400 feet			
Unadjusted hourly	180.4 LCY/hr			
production:	100.4 LU 1/nr			
production:				
Materials consistency	Consolidated stockp	ile 1 0		
	Consonuated stockp	iic 1.0		
description:				
Average push	0 %			
gradient:	0 /0			
	5,500 feet			
Average site altitude:				
Material weight:	2,650 lbs/LCY			
Weight description:	Decomposed rock - 25% Rock,	75% Earth		
,, eight description.	100K - 2570 KOCK,	, 0 / 0 Luitii		

Job Condition Correction Fact	<u>or</u>	Source
Operator Skill	: 0.750	(AVG.)
Material consistency	: 1.000	(CAT HB)
Dozing method	: 1.100	(50% SL)
Visibility	: 1.000	(AVG.)
Job efficiency	: 0.830	(1 SHIFT/DAY)
Spoil pile	: 0.800	(FND-RF)
Push gradient	: 1.000	(CAT HB)
Altitude	: 1.000	(CAT HB)
Material Weight	: 0.868	(CAT HB)
Blade type	: 1.000	(PAT)
Net correction	: 0.4755	
production:	85.78 LCY/hr	
Adjusted fleet		

Aujusteu neet	85.78 LCY/hr	
production:	03.10 20 1/m	

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$2.982/LCY

Total job time:	45.56 Hours
Total job cost:	\$11,656

REVEGETATION WORK

Task description: Revege		Revegetation of	max. anticip	ated disturbance			
Site:	Tomahav	vk Mine	Pe	ermit Action:	2023 Inspection	Permit/Jo	b#: M1991003
<u>P</u>]		IDENTIFIC					
	Task #:	003	State:	Colorado		Abbreviation:	None
	Date:	<u>11/2/2023</u>	County:	Pueblo		Filename:	003
	User:	AMG		2MS			
	Age	ency or organiz	zation name: DI	RMS			

TILLING

Description		Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		\$112.82
Weed control spraying (MEANS 31 31 16.13 3100)		\$338.80
ſ	Total Tilling Cost/Acre	\$451.62

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.75	12.24	\$11.98
Indian Ricegrass - Paloma	1.25	4.05	\$13.91
Little Bluestem - Pastura	1.75	10.45	\$23.60
Sideoats Grama - Vaughn	2.70	8.86	\$22.61
Western Wheatgrass - Arriba	1.60	4.04	\$10.40
Totals Seed Mix	8.05	39.64	\$82.50

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
	Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$859.57

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46

Power mulcher (MEANS 32 91 13.16 0350)		\$147.67
	—	

Total Mulch Application Cost/Acre \$222.13

NURSERY STOCK PLANTING

Common Name Pine, Pinyon	No / Acre 100	Type and Size Small potted, 2.25 inch diameter	Planting Cost \$1.75	Fertilizer Pellet Cost \$0.00	Cost /Acre \$175.00
(MEANS) Totals Nursery Stock Cost / Acre					\$175.00

JOB TIME AND COST

	No. of Acres:	21	Cost /Acre:	\$2,022.82
Estimate	ed Failure Rate:	25%	Cost /Acre*:	\$314.50
*Selected Replanti	ng Work Items:	SEEDING		
Initial Job Cost:	\$42,479.22			
Reseeding Job Cost:	\$1,651.13			
Total Job Cost:	\$44,130			
Job Hours:	21.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Mo	bilization/Demob	ilization					
e: <u>Tomahawk M</u>	ine	Permit	Action: <u>2023</u>	Inspection	1	Permit/Job#	: M1991003	
PROJECT IDE	NTIFICATI	<u>ON</u>						
Task #: 004	ļ.	State: Co	olorado		Abbre	viation: 1	None	
	2/2023		eblo				004	
User: AN	1G							
Agency of	or organization	name: DRMS						
EQUIPMENT 1	TRANSPOR	<u>T RIG COST</u>						
					Shift ba	sis: 1 p	er day	
				(Cost Data Sou	1	G Data	
Truch Cost Breakdown:	k Trailer Desci	ription: Gl	ENERIC FOLD	ING GOC	(2ND HALF, DSENECK, DF (25T, 50T, AN	ROP DECK I	EQUIPMENT	
Available Rig C		0-25 Tons	26-50 Tons		+ Tons			
	Cost/Hour:	\$20.26	\$36.04		47.05			
	g Cost/Hour:	\$39.51	\$76.08		82.85			
1	Cost/Hour:	\$22.52	\$22.52	\$2	22.52			
	Cost/Hour:	\$0.00	\$23.53		23.53			
Total Unit	t Cost/Hour:	\$82.29	\$158.17	\$1	75.95			
NON ROADAB	LE EQUIPN	<u>IENT:</u>						
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Tr	ip DOT Pern	mit
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/ fleet	Cost/hr/ fl		t
Cat D7R DS Series II LGP	38.49	\$123.82	\$158.17	1	\$281.99	\$158.17	\$250.00	
Drill/Broadcast	25.00	\$6.73	\$82.29	2	\$178.04	\$164.58	\$250.00	

			Subtotals:	\$568.26	\$40
6.00	\$25.94	\$82.29	1	\$108.23	\$82.29

ROADABLE EQUIPMENT:

Seeder with Tractor

Power Mulcher

(Bowie LD-90)

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x2, 1/2 T.	\$87.62	1	\$87.62	\$87.62
Water Tanker, 2,500 Gal.	\$73.18	1	\$73.18	\$73.18

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	COLORADO SPRINGS	
Total one-way travel distance:	35.00	miles
Average Travel Speed:	23.00	mph

Subtotals:

Total Non-Roadable Mob/Demob Cost * ____

\$5,962.42

\$160.80

\$250.00

\$750.00

\$405.04

\$160.80

* two round trips with haul rig: Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.52	1.52
Return Time (Hours):	1.52	1.52
Loading Time (Hours):	0.66	NA
Unloading Time (Hours):	0.66	NA
Subtotals:	4.36	3.04

JOB TIME AND COST

Total job time: **8.73** Hours

Total job cost: **\$6,452**