COST SUMMARY WORK

T	Task description:	Cos	st Summary	of Reclamati	on Tasks				
Site:	LGPD2 Mine		Pe	rmit Action:	New App		Permit/Jo	b#: <u>M2019026</u>	
PI	ROJECT IDENTIFIC	ATI	ON						
	Task #:000		State:	Colorado			Abbreviation:	None	
	Date: 7/22/2019		County:	Park			Filename:	M026-000	
	User: ERR								
	Agency or organiz	zatior	n name: DI	RMS					
<u>T</u> A	ASK LIST (DIRECT	COS	STS)						
ask					Form	Fleet	Task		
	Description				Used	Size	Hours	Cost	
01	Backfill and Contour	_		1)	DOZER	1	4.25	\$673	
02	Replace Salvaged Top	OSO1l	on Open Pit (1)	DOZER	1	0.13	\$21	
03	Revegetate the Site Mob/Demob of Recla	motic	on Favinment		REVEGE MOBILIZE	1	2.00 5.35	\$1,631	
04	Mod/Delilod of Recia	mauc	on Equipment		MOBILIZE	1	3.33	\$1,893	
					SUBTO	OTALS:	11.73	\$4,218	
	VERHEAD AND PROFI		2.02				T 1	05	
	Liability insuran Performance bo		2.02 1.05					85 44	
	Job superintende		0.00				Total =		
	Pro		10.00					422	
						TOTAI		551	
				CONTR	RACT AMOUNT	(direct +	$O \& P) = \boxed{\$}$	4,769	
LE	EGAL - ENGINEERING	- PRO	OJECT MAN	AGEMENT:					
	Financial warranty pro	ocessi	ing (legal/rela	ited costs):	\$0		Total = \$	0	
	Engineering work and	d/or c	contract/bid pa	reparation:	0.00		Total = \$	0	
	Reclamation manag	emer	nt and/or admi	inistration:	5.00	_	\$	238	
			CONTI	NGENCY:	0.00		Total =\$	0	
					TOTAL II	NDIRECT	COST =\$	790	
					TOTAL ((direct + i	ndirect) = \$	5,008	
				TOT	AL BOND AMO	OUNT (ro	unded) =\$	5,000	

BULLDOZER WORK

Task description:	Backf	ill and Con	tour Open 1	Pit (1)		
: LGPD2 Mine		Per	mit Action:	New App	Permit/Job#:	M2019026
PROJECT IDENT	CIFICATIO	<u>N</u>				
Task #: 001		State:	Colorado		Abbreviation:	None
Date: 7/22/20	19	County:	Park		Filename:	M026-001
User: ERR		county.			T Hemanie.	1,1020 001
A gangy or o	rganization r	nama: DE	RMS			
Agency of o	rgamzanon i	iailie. Dr	CIVIS			
HOURLY EQUIP	MENT CO	<u>ST</u>				
Basic Machine:	Cat D6T LG	iΡ				
Horsepower:	200					
Blade Type:	Straight			<u> </u>		
Attachment:	3-shank ripp	er				
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/Hor	ur:		\$59.16	NA		
Operating Cost/Hor			\$50.06	100		
Ripper own. Cost/Hor			\$6.80	NA		
Ripper op. Cost/Hor	ur:		\$1.17	25		
Operator Cost/Hor	ur:		\$41.24	NA		
	504					
Swell factor: 1	.430					
Loose volume:	21 LCY					
Source of estimated v	olume:	Annlicati	on: 30' W v	40' L x 10' D		
Source of estimated v		Cat Hand		40 LX 10 D		
Source of estimated s	wen nactor.	Cut Hund	COOK			
HOURLY PRODU	JCTION					
Average push distance	e:	50 feet				
Unadjusted hourly pro	oduction:	444.6 LCY	'hr			
Materials consistency	description:	Partly of	consolidated	stockpile 1.1		
Average push gradien	nt: 0 %					
Average site altitude:		feet				
Material weight:	3,300 1	bs/LCY				
Weight description:	Decom	posed rock	- 75% Rock	, 25% Earth		
Job Condition Correc				Source		
	tor Skill:		750	(AVG.)		
Material con			100	(CAT HB)		
	method:		000	(GEN.)		
	isibility:		000	(AVG.)		
Job ef	ficiency:	0.	830	(1 SHIFT/DA	Y)	

Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3818

Adjusted unit production: 169.75 LCY/hr
Adjusted fleet production: 169.75 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.933/LCY

Total job time: 4.25 Hours 5673

BULLDOZER WORK

Task description:	Replace Salvaged	d Topsoil on	Open Pit (1)		
LGPD2 Mine	Peri	mit Action: _	New App	Permit/Job#:	M2019026
PROJECT IDENTIF	<u>ICATION</u>				
Task #: 002	State:	Colorado		Abbreviation:	None
Date: 7/22/2019	County:	Park		Filename:	M026-002
User: ERR				_	
Agency or organ	nization name: <u>DR</u>	RMS			
HOURLY EQUIPME	ENT COST				
	t D6T LGP		_		
Horsepower: 200			<u> </u>		
	aight		_		
	hank ripper		<u> </u>		
	er day				
Data Source: (CI	RG)		_		
Cost Breakdown:		ı			
0 11 0 77		Φ50.16	<u>Utilization %</u>		
Ownership Cost/Hour:		\$59.16	NA 100		
Operating Cost/Hour: Ripper own. Cost/Hour:		\$50.06 \$6.80	100 NA		
Ripper op. Cost/Hour:		\$1.17	25		
Operator Cost/Hour:		\$41.24		<u></u>	
Operator Cost/Hour.		Φ41.24	NA		
Total unit Cost/Hour:	\$158.43				
Total Fleet Cost/Hour:	\$158.43				
Initial Volume: 22 Swell factor: 1.25 Loose volume: 28 L		<u></u>			
Source of estimated volume		on 30' W x 4	0' L x 6" D		
Source of estimated swell	l factor: Cat Hand	book			
HOURLY PRODUCT	ΓΙΟΝ				
Avaraga nuch distance	50 feet				
Average push distance: Unadjusted hourly produc		hr			
enagusted nourry produc	777.0 LC 1/	111			
Materials consistency des	scription: Partly c	consolidated s	stockpile 1.1		
Average push gradient:	0 %				
Average site altitude:	8,200 feet	<u> </u>			
Material weight:	2,650 lbs/LCY			_	
Weight description:	Decomposed rock	- 25% Rock,	75% Earth		
Job Condition Correction			Source		
Operator		750	(AVG.)		
Material consist		100	(CAT HB)		
Dozing me		000	(GEN.)		
		000	(AVG.)		
Job effici	ency: 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

Adjusted unit production: 211.41 LCY/hr
Adjusted fleet production: 211.41 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.749/LCY

Total job time: 0.13 Hours
Total job cost: \$21

REVEGETATION WORK

Task description:	Revegetate the Site				
LGPD2 Mine	Permit Act	ion: New	App	Permit/Job#	: <u>M2019026</u>
ROJECT IDENTIFIC	<u>ATION</u>				
Task #: 003 Date: 7/22/2019 User: ERR	State: Colora County: Park	ado			None M026-003
Agency or organiz	zation name: DRMS				
ERTILIZING [aterials Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
				\$	\$
				Total Fertilizer Materials Cost/Acre	\$0.00
pplication					
Description					Cost /Acre
					\$

TILLING

Description		Cost /Acre
Subsoiling, light {(DMG}		\$175.31
Weed control spraying (MEANS 31 31 16.13 3100)		\$193.60
	Total Tilling Cost/Acre	\$368.91

Total Fertilizer Application Cost/Acre

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arizona Fescue - Redondo	2.00	22.96	\$18.50
Blue Grama - Native	2.00	32.64	\$27.45
Mountain Brome - Bromar	2.00	3.21	\$7.60
Bottlebrush Squirreltail	2.00	8.82	\$32.45
Slender Wheatgrass - Native	2.00	7.30	\$9.25
Muttongrass	2.00	41.32	\$68.80
Western Wheatgrass - Arriba	2.00	5.05	\$13.00
Prairie Junegrass	2.00	106.31	\$52.00
Spike Muhly	2.00	73.46	\$19.40

\$0.00

Totals Seed Mix	18.00	301.07	\$248.45

Application

Descr	ription	Cost /Acre
Broad	cast seeding [DMG]	\$267.22
	Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Silt fence, Materials (MEANS 31 25 14.16 1000)	150.00	LINEAR FOOT	\$0.49	\$73.50
Total Mulch Materials Cost/Acre				\$73.50

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
Pine, Ponderosa	100	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.31	\$0.00	\$231.00
		Totals	Nursery Stoc	ek Cost / Acre	\$231.00

JOB TIME AND COST

No. of Acres: 1 Cost /Acre: \$1,189.08
Estimated Failure Rate: 50% Cost /Acre*: \$884.58

*Selected Replanting Work Items: TILLING, SEEDING

Initial Job Cost: \$1,189.08

Reseeding Job Cost: \$442.29

Total Job Cost: \$1,631

2.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	b/Demob of Rec	lamation Equ	uipment		
e: LGPD2 Mine	Permit	Action: No	ew App	Permit/Jo	b#: <u>M2019026</u>
PROJECT IDENTIFICATI	<u>ON</u>				
Task #: 004 Date: 7/22/2019 User: ERR		olorado ark		Abbreviation: Filename:	None M026-004
Agency or organization	n name: DRMS	S			
EQUIPMENT TRANSPOR	T RIG COST				
			C		1 per day CRG Data
Truck Tractor Desc	ription: GENI	ERIC ON-HIO		CK TRACTOR, 6X4, 2ND HALF, 2006)	DIESEL POWERED,
Truck Trailer Desc	ription: C	SENERIC FO		SENECK, DROP DEC 25T, 50T, AND 100T)	~
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 To	ns 51+	Tons	
Ownership Cost/Hour:	\$17.20	\$29.63	\$38	8.69	
Operating Cost/Hour:	\$26.56	\$47.02	\$55	5.69	
Operator Cost/Hour:	\$23.63	\$23.63	\$23	3.63	
Helper Cost/Hour:	\$0.00	\$23.53	\$23	3.53	
Total Unit Cost/Hour:	\$67.39	\$123.81	\$14	1.54	

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni	Fleet Size	Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
	(TONS)		t		fleet		
Cat D6T LGP	28.63	\$65.96	\$123.81	1	\$189.77	\$123.81	\$250.00

Subtotals: \$189.77 \$123.81 \$250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$119.41	1	\$119.41	\$119.41
Light Duty Pickup, 4x4, 1 T. Crew	\$119.41	1	\$119.41	\$119.41

Subtotals: \$238.82 \$238.82

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: COLORADO SPRINGS
Total one-way travel distance: 49.00 miles
Average Travel Speed: 45.00 mph

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

\$1,372.68

\$520.10

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.09	1.09
Return Time (Hours):	1.09	1.09
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	2.68	2.18

JOB TIME AND COST

Total job time:	5.36	Hours
Total job cost:	\$1.893	