COST SUMMARY WORK

	Task description: Cost	Summary				
Site:	Buss Barrow Pit	Permit Action:	New		Permit/Job	#: <u>M2019021</u>
<u>P</u>	ROJECT IDENTIFICATIO	<u>N</u>				
	Task #: 000 Date: 6/4/2019 User: TC1 Agency or organization r	State: Colorado County: Fremont name: DRMS			Abbreviation: _ Filename: _	None M021-000
<u>T.</u>	ASK LIST (DIRECT COST					
ask	Description Reveg 7.1 Acres		Form Used REVEGE	Fleet Size	Task Hours 4.00	Cost \$9,246
20 30	Replace Overburden/Topsoil Mob/Demob Equipment		SCRAPER1 MOBILIZE	1 1	34.07 2.36	\$8,890 \$1,718
			SUBTO	OTALS:	40.43	\$19,854
<u>IN</u>	NDIRECT COSTS					
0	WEDLIE AD AND DDOEFE					
<u>O</u>	Performance bond: Job superintendent:	2.02 1.05 20.58 10.00 CONTR	RACT AMOUNT		Total =	
	Liability insurance: 2 Performance bond: 3 Job superintendent: 2	1.05 20.58 10.00 CONTR	RACT AMOUNT		Total =	08 ,503 ,985 ,098
	Liability insurance: Performance bond: Job superintendent: Profit:	1.05 20.58 10.00 CONTR TECT MANAGEMENT: g (legal/related costs): ntract/bid preparation:	\$0 4.25 5.00		Total = \$20 Total = \$11 Total = \$12 O & P = \$42 O & P) = \$22 Total = \$0 Total = \$12	08 ,503 ,985 ,098

TOTAL INDIRECT COST = \$6,314

TOTAL BOND AMOUNT (direct + indirect) = \$26,168

REVEGETATION WORK

Task desc		veg 7.1 Acres					
Buss B	arrow Pit	Permit Action: New Perm			Permit/Job#	rmit/Job#: <u>M2019021</u>	
ROJEC'	T IDENTIFICAT	ION					
					411	. ,.	N
Task #		State:	Colorado		_		None M021-010
Date	7:40:09 AM	County:	Fremont		1	Filename:	M021-010
User		_			_	_	
		-					
A	gency or organizatio	n name: DR	RMS				
ERTILI	ZING						
Iaterials							
Descrip	otion		Units / Acre	Unit	Cost	/ Unit	Cost /Acre
					\$		\$
					Tota	ıl Fertilizer	
					1012	Materials	
						Cost/Acre	\$0.00
							\$
			Tota	l Fertilizer A	Application	Cost/Acre	\$0.00
TILLING Descrip							Cost /Acre
	olowing {DMG}						\$92.77
	(= ===)						42-111
				Te	otal Tilling	g Cost/Acre	\$92.77
EEDING Seed M					Rate – PLS LBS /	Seeds per SQ.	Cost /Acre
					Acre	FT	
Blue Gr	rama - Hachita				1.50	24.48	\$24.99
Indian F	Ricegrass - Nespar				5.00	16.18	\$38.75
	luestem - Pastura				3.50	20.89	\$60.34
Sideoate	s Grama - Vaughn				4.50	14.77	\$46.08

Streambank Wheatgrass - Sodar

Western Wheatgrass - Arriba

\$34.27

\$66.24

\$270.67

17.93

20.20

114.46

5.50

8.00

28.00

Totals Seed Mix

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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$288.00	\$576.00
Total Mulch Materials Cost/Acre				\$576.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$68.78
	Total Mulch Application Cost/Acre	\$68.78

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
	\$0.00				

JOB TIME AND COST

No. of Acres: 7.1 Cost /Acre: \$1,240.22

Estimated Failure Rate: 5% Cost /Acre*: \$1,240.22

*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$8,805.56

Reseeding Job Cost: \$440.28

Total Job Cost: \$9,246

Job Hours: 4.00

SCRAPER TEAM WORK

Task description:	Replace Overbu	rden/Tops	oil			
Site: Buss Barrow Pit	Per	mit Action	: New	P	Permit/Job#: M2	2019021
PROJECT IDENT	<u>CIFICATION</u>					
Task #: 020	State:	Colorado)	Abbre	viation: None	
Date: 5/31/2	019 County:	Fremont		Fil	ename: M021-	-020
User: TC1						
Agency or o	organization name:DR	RMS				
HOURLY EQUIP	MENT_		COSTS	Shift basis: 1 per	<u>day</u>	
			ent Description			
	-Scraper		1G			
Suppor	-Dozer rt Equipment -Load Area					
- FF	-Dump Area					
Road Mai	intenance – Motor Grader					
	-Water Truck	: NA				
Cost Breakdown:	Scraper Work Tear	n	Support Equ	inmont	Maintanana	e Equipment
Cost Dieakuowii.		ozer	Load Area	Dump Area	Motor Grader	Water Truck
0/17:11	1				27.4	27.4
%Utilization-machine:	100	NA	NA	NA	NA	NA NA
Ownership cost/hour:	\$110.85	NA	NA	NA	NA	NA
Operating cost/hour:	\$119.02	NA	NA	NA	NA	NA
%Utilization-ripper:	NA NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA na na na	NA	NA	NA	NA	NA
Operator cost/hour:	\$31.05	NA	NA	NA	NA	NA
Unit Subtotals:	\$260.92	NA	NA	NA	NA	NA
Number of Units:	1	0	0	0	0	0
Group Subtotals:	Work: \$2	60.92	Support:	\$0.00	Maint:	\$0.00
Total work team cost/						
Initial volume:	12,907	CCY	Swell fac	tor: 1.250		
Loose volume:	16,134	LCY	5 well fac	1.250		
Sour	rce of estimated volume:	- Τωο Λο	eres of 4-ft thick of	warhurdan		
	of estimated swell factor:	Cat Han		overburden		
HOURLY PRODU	<u>JCTION</u>					
			Scraper F	Bowl (volume) Ba	isis.	
Motoriali-le	2 650 lba/I CV		-			CV
Material weight: Material description:	2,650 lbs/LCY Decomposed rock - 250	% Rock		Volume: <u>24.00</u> Volume: <u>34.00</u>		.CY .CY
muchin description.	75% Earth	, o moon,	Псирси	, 5141110. 57.00	L	1
Rated Payload:	81,600 pounds			Volume: 29.00		CY
Payload Canacity:	30.79 LCY		Adjusted (Canacity: 29 00	T	CY

Site Altitude: 6650 feet

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('\77	CIA	111	me:
\sim y	-	11.	m.

Scraper Loading Time: 0.80 Minutes
Maneuver and Spread Time: 0.70 Minutes

Job Condition Correction:

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	-5.00	8.00	3.00	2227	0.65

Haul Time: **0.65** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	800.00	5.00	8.00	13.00	918	0.90

Return Time: 0.90 minutes Total Scraper team cycle time: 3.05 minutes Adjusted for job conditions: 473.51 LCY/Hour Selected Number of Scrapers: 1 Scraper(s) Adjusted single scraper team (unit) hourly production: 473.51 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: LCY/Hour 473.51

Unadjusted unit production/hour: 570.49 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	34.07	Hour
Unit cost:	\$0.551	/LCY	Total job cost:	\$8,890	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mo	b/Demob Equip	ment			
e: Buss Barrow Pit	Permit	t Action: New		Permit/Job	#: <u>M2019021</u>
PROJECT IDENTIFICATI	<u>ON</u>				
Task #: 030 Date: 6/4/2019 User: TC1		colorado remont	A	bbreviation: Filename:	None M021-030
Agency or organization	n name: DRMS	S			
EQUIPMENT TRANSPOR	T RIG COST				
			Shit Cost Data		per day RG Data
Truck Tractor Desc	ription: GENI	ERIC ON-HIGHV	WAY TRUCK TRA 400 HP (2ND HA		DIESEL POWERED,
Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROFT TRAILER (25T, 50T, AND				K EQUIPMENT	
Cost Breakdown:					
Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons	- -	
Ownership Cost/Hour:	\$16.63	\$18.37	\$22.33	_	
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07	_	
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66	_	
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39	_	
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45	_	

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		
Drill/Broadcast	25.00	\$15.54	\$88.67	1	\$104.21	\$88.67	\$250.00
Seeder with							
Tractor							
Cat 631G	52.50	\$110.85	\$125.45	1	\$236.30	\$125.45	\$250.00

Subtotals: \$340.51 \$214.12 \$500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet

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:

SALIDA
miles
50.00
mph

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

\$1,717.66

\$0.00

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.34	0.34
Return Time (Hours):	0.34	0.34
Loading Time (Hours):	0.25	NA
Unloading Time (Hours):	0.25	NA
Subtotals:	1.18	0.68

JOB TIME AND COST

Total job cost: 2.36 Hours

Total job cost: \$1,718