

July 31, 2020

Matt Mueller Siloam Stone, Inc. 1360 Rudd Ave Canon City, CO 81212

RE: Division's Financial Warranty Cost Estimates for Bedrock Mine #1 (M1997-086)

Dear Mr. Mueller,

On July 14, 2020 the Division performed an inspection as part of the Division's Routine Monitoring Program of the Bedrock Mine #1. As part of the inspection the financial warranty for the mine was calculated. The Division used observations made during the inspection, the Annual Map submitted in 2020, and details provided in TR-2 during the cost estimate calculations.

A copy of the mine's estimate is attached for your review. The Division will allow 14 days to review and comment on the bond estimate prior to issuing a surety increase notice for the Bedrock Mine #1. Once the surety increase is issued by the Division, the Operator will have 60 days to provide the additional financial warranty.

If you need additional information or have any questions, please contact me at Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at **303-866-3567 x8114**, or by email at <u>patrick.lennberg@state.co.us</u>.

Sincerely,

Patrick Lennberg Environmental Protection Specialist

- cc: Jared Ebert, DRMS
- ec: Matt Mueller, Siloam Stone, Inc., <u>siloam@siloamstone.com</u> Steve O'Brian, Environment Inc., <u>Environment-inc@outdrs.net</u>



COST SUMMARY WORK

Г	Fask descrip	otion:	Cost Summar	У				
Site:	Bedrock	Mine #1]	Permit Action:	2020 Inspection	Permit/Job	o#: <u>M1997086</u>	
P	ROJECT	IDENTIFIC	CATION					
	Task #:	000	State			Abbreviation:	None	
	Date: User:	7/31/2020 JPL	County	Pueblo		Filename:	M086-000	
	Date:	7/31/2020	State County			Abbreviation: Filename:	None M086-000	

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade Highwall to 3H:1V Slope	DOZER	1	3.10	\$618
002	Backfill Slab Stone Pit Areas	DOZER	1	7.18	\$1,410
003	Spread TS 1' on 20 acres	LOADER	1	91.27	\$14,293
004a	Rip 34 acres of TSSA and Stone Yard	GRADER	1	27.41	\$3,420
005	Spread and Shape TS 20 acres	GRADER	1	15.40	\$1,977
006	Revegetation of 21.3 acres related to mining areas	REVEGE	1	30.00	\$15,247
006a	Revegetation of 39.9 acres TSSA, Stone Yard and misc	REVEGE	1	30.00	\$23,925
006b	Weed Control 5.7 acres	REVEGE	1	0.00	\$1,104
007	Mob/Demob	MOBILIZE	1	3.85	\$4,060
		<u>SUBTO</u>	TALS:	208.21	\$66,054

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$1,334
Performance bond:	1.05	Total =	\$694
Job superintendent:	102.18	Total =	\$7,107
Profit:	10.00	Total =	\$6,605
		TOTAL O & P =	\$15,740
		CONTRACT AMOUNT (direct + O & P) = $($	\$81,794

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	8.59	Total =	\$7,026
Reclamation management and/or administration:	5.00		\$4,090
CONTINGENCY:	0.00	Total =	\$0
		TOTAL INDIRECT COST =	\$27,356
TOTAL BO	ND AI	MOUNT (direct + indirect) =	\$93,410

BULLDOZER WORK

Bedrock Mine #1		Permit Action:	2020 Inspection	Permit/Jo	b#: <u>M1997086</u>
ROJECT IDENTIFI	ICATIO	DN			
Task #: 001		State: Colorado		Abbreviation:	None
Date: $7/31/2020$		County: Pueblo		Filename:	M086-001
User: JPL					11000 001
Agency or orga	nization	name: DRMS			
OURLY EQUIPME	NT CO	<u>ST</u>			
Basic Machine: Ca	t D7R D	S XR Series II			
Horsepower: 24			_		
	mi-Univ	ersal	_		
Attachment: 3-s	shank rip	per	_		
	ber day	*	_		
	RG)		_		
ost Breakdown:					
ost Divakuowii.			Utilization %		
Ownership Cost/Hour:		\$74.64	NA		
Operating Cost/Hour:		\$71.55	100		
Ripper own.					
Cost/Hour:		\$7.60	NA		
Ripper op. Cost/Hour:		\$5.32	100		
Operator Cost/Hour:		\$40.04	NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: IATERIAL QUANT	\$199. \$199. TTIES				
Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: <u>1,50</u> Swell factor: <u>1.2</u>	\$199. TTIES 00 15				
Total Fleet Cost/Hour: IATERIAL QUANT Initial Volume: 1,50 Swell factor: 1.21 Loose volume: 1,82	\$199. ITIES 00 15 23 LCY	14			
Total Fleet Cost/Hour: Initial Volume: 1,50 Swell factor: 1.21 Loose volume: 1,82 Source of estimated volume 1,82	\$199. ITIES 00 15 23 LCY ume:	14 DRMS Calculation			
Total Fleet Cost/Hour: Initial Volume: 1,50 Swell factor: 1.21 Loose volume: 1,82 Source of estimated volt Source of estimated swell	\$199. ITIES 00 15 23 LCY ume:	14			
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Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.225	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5740

Adjusted unit production:	587.14 LCY/hr	
Adjusted fleet	587.14 LCY/hr	
production:	307.14 LC 1/11	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.339/LCY

Total job time:	3.10 Hours
Total job cost:	\$618

Page 1 of 2

BULLDOZER WORK

Bedrock Mine #1	Permit Action:	2020 Inspection	Permit/Joł	o#: M1997086
ROJECT IDENTIFI	<u>CATION</u>			
Task #: 002	State: Colorado		Abbreviation:	None
Date: 7/31/2020	County: Pueblo		Filename:	M086-002
User: JPL				
Agency or organ	ization name: DRMS			
OURLY EQUIPME	NT COST			
Basic Machine: Cat	D7R DS XR Series II			
Horsepower: 240				
Blade Type: Ser	ni-Universal			
Attachment: 3-sl	hank ripper			
Shift Basis: 1 p	er day			
Data Source: (CF				
ost Breakdown:				
USI DICARUUWII.	I	Utilization %		
Ownership Cost/Hour:	\$74.64	NA		
Operating Cost/Hour:	\$71.55	100		
Ripper own.				
Cost/Hour:	\$7.60	NA		
Ripper op. Cost/Hour:	\$2.66	50		
Operator Cost/Hour:	\$40.04	NA		
Total unit Cost/Hour	\$196.48			
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$196.48 \$196.48 TIFS			
Total Fleet Cost/Hour: IATERIAL QUANTI Initial Volume: _4,00	\$196.48 TIES 0			
Total Fleet Cost/Hour: IATERIAL QUANTI Initial Volume: 4,00 Swell factor: 1.00	\$196.48 TIES 0			
Total Fleet Cost/Hour: IATERIAL QUANTI Initial Volume: 4,00 Swell factor: 1.00 Loose volume: 4,00	\$196.48 TIES 0 0 0 0 LCY	and DRMS Site Visit		
Total Fleet Cost/Hour: IATERIAL QUANTI Initial Volume: 4,00 Swell factor: 1.00 Loose volume: 4,00 Source of estimated volu	\$196.48 TIES 0 0 0 0 LCY me:TR2 Volume Estimate	e and DRMS Site Visit		
Total Fleet Cost/Hour: IATERIAL QUANTI Initial Volume: 4,00 Swell factor: 1.00 Loose volume: 4,00	\$196.48 <u>TIES</u> 0 0 0 <u>0</u> LCY me: TR2 Volume Estimate	e and DRMS Site Visit		
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Material consistency:	1.000	(CAT HB)
	1.100	· · · · · ·
Dozing method:		(50% SL)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5449

Adjusted unit production:	557.38 LCY/hr	
Adjusted fleet	557.38 LCY/hr	
production:	337.38 LC 1/11	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.353/LCY

Total job time:	7.18 Hours
Total job cost:	\$1,410

WHEEL LOADER - LOAD AND CARRY WORK

-	Spread TS 1' on 20 acres			
: Bedrock Mine #1	Permit Action	n: 2020 Inspection	Permit	/Job#: <u>M1997086</u>
PROJECT IDENTIFI	CATION			
Task #: 003	State: Colorado	0	Abbreviatio	n: None
Date: 7/31/2020	County: Pueblo		Filenam	e: M086-003
User: JPL				
Agency or organ	ization name: DRMS			
HOURLY EQUIPMEN	NT COST			
Basic Machine:	CAT 980H	Н	orsepower:	315
Attachment 1:	ROPS Cab		Shift Basis:	1 per day
_		D	ata Source:	(CRG)
Cost Breakdown:				
COSt DICardowii.		Utilization %		
Ownership Cost/H	Iour: \$55.34	NA		
Operating Cost/H		100		
Operator Cost/H	Iour: \$35.97	NA		
Total Unit Cost/H	Iour: \$156.60	_		
Total Fleet Cost/I	Hour: \$156.60	-		
MATERIAL QUANTI	TIES			
Initial values 20		Swall fastor	1 000	
	2,300 CCY	Swell factor	1.000	
Loose volume:	32,300 LCY		1.000	
Loose volume: Source of	32,300LCYf estimated volume:DRMS	Estimate	: 1.000	
Loose volume: Source of	32,300 LCY	Estimate	: _1.000	
Loose volume: Source of Source of esti	32,300LCYf estimated volume:DRMSmated swell factor:Cat Hat	Estimate	: 1.000	
Loose volume: Source of	32,300LCYf estimated volume:DRMSmated swell factor:Cat Hat	Estimate	:	
Loose volume: Source of Source of esti	32,300 LCY f estimated volume: DRMS mated swell factor: Cat Hat ION	Estimate		minutes
Loose volume: Source of Source of esti	32,300 LCY f estimated volume: DRMS mated swell factor: Cat Hat ION	Estimate ndbook c Cycle Time (load, o) minutes
Loose volume: Source of Source of esti HOURLY PRODUCT Loader Cycle Time: Cycle Time Factor	32,300 LCY f estimated volume: DRMS imated swell factor: Cat Ha ION Unadjusted Basic rs	Estimate ndbook c Cycle Time (load, o mane	dump, 0.55(uver): Factor (min.)	Source
Loose volume: Source of Source of esti HOURLY PRODUCT Loader Cycle Time: Cycle Time Factor Materia	32,300 LCY f estimated volume: DRMS imated swell factor: Cat Ha ION Unadjusted Basic rs 1: Material 3/4" to 6" diameter	Estimate ndbook c Cycle Time (load, o mane eter 0.00	dump, 0.55()
Loose volume: Source of Source of esti HOURLY PRODUCT Loader Cycle Time: Cycle Time Factor	32,300 LCY f estimated volume: DRMS imated swell factor: Cat Ha ION Unadjusted Basic unadjusted Basic Image: Conveyor or dozer piled	Estimate ndbook c Cycle Time (load, o mane eter 0.00	dump, 0.55(uver): Factor (min.)	Source
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Loose volume: Source of Source of esti HOURLY PRODUCT Loader Cycle Time: Cycle Time Factor Materia Stockpile Truck Ownership Operation Dump Targe	32,300 LCY f estimated volume: DRMS imated swell factor: Cat Ha ION Unadjusted Basic unadjusted Basic Unadjusted Basic rs Unadjusted Basic l: Material 3/4" to 6" diame e: Conveyor or dozer piled 0.01 0.01 p: No adjustment - factor no nt: Nominal target 0.00 Net Cy Adjus	Estimate ndbook c Cycle Time (load, o mane eter 0.00 10 ft. high or less ot applicable 0.00 ot applicable 0.00 vcle Time Adjustmer ted Basic Cycle Tim	dump, 0.55(uver):) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of Source of esti HOURLY PRODUCT Loader Cycle Time: Cycle Time Factor Materia Stockpile Truck Ownership Operation Dump Targe Rolling Resistance – Road Haul:	32,300 LCY f estimated volume: DRMS imated swell factor: Cat Ha ION Unadjusted Basic I: Material 3/4" to 6" diame e: Conveyor or dozer piled 0.01 0.01 p: No adjustment - factor no n: No adjustment - factor no nt: Nominal target 0.00 Net Cy Adjus Conditions Firm, smooth, rolling, dirt/1	Estimate ndbook c Cycle Time (load, o mane eter 0.00 10 ft. high or less ot applicable 0.00 ot applicable 0.00 vcle Time Adjustmer ted Basic Cycle Tim	dump, 0.55(uver):) Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes
Loose volume: Source of Source of esti HOURLY PRODUCT Loader Cycle Time: Cycle Time Factor Materia Stockpile Truck Ownership Operation Dump Targe Rolling Resistance – Road Haul: Return:	32,300 LCY f estimated volume: DRMS imated swell factor: Cat Ha ION Unadjusted Basic unadjusted Basic Unadjusted Basic rs Unadjusted Basic l: Material 3/4" to 6" diame e: Conveyor or dozer piled 0.01 0.01 p: No adjustment - factor no nt: Nominal target 0.00 Net Cy Adjus	Estimate ndbook c Cycle Time (load, o mane eter 0.00 10 ft. high or less ot applicable 0.00 ot applicable 0.00 vcle Time Adjustmer ted Basic Cycle Tim	dump, 0.55(uver):	Source (Cat HB) minutes
Loose volume: Source of Source of esti HOURLY PRODUCT Loader Cycle Time: Cycle Time Factor Materia Stockpile Truck Ownership Operation Dump Targe Rolling Resistance – Road Haul:	32,300 LCY f estimated volume: DRMS imated swell factor: Cat Ha ION Unadjusted Basic I: Material 3/4" to 6" diame e: Conveyor or dozer piled 0.01 0.01 p: No adjustment - factor no n: No adjustment - factor no nt: Nominal target 0.00 Net Cy Adjus Conditions Firm, smooth, rolling, dirt/1	Estimate ndbook c Cycle Time (load, o mane eter 0.00 10 ft. high or less ot applicable 0.00 ot applicable 0.00 vcle Time Adjustmer ted Basic Cycle Tim	dump, 0.55(uver):	Source (Cat HB) minutes
Loose volume: Source of Source of esti HOURLY PRODUCT Loader Cycle Time: Cycle Time Factor Materia Stockpile Truck Ownership Operation Dump Targe Rolling Resistance – Road Haul: Return: Haul and Return Time	32,300 LCY f estimated volume: DRMS imated swell factor: Cat Ha ION Unadjusted Basic I: Material 3/4" to 6" diame e: Conveyor or dozer piled 0.01 0.01 p: No adjustment - factor no n: No adjustment - factor no nt: Nominal target 0.00 Net Cy Adjus Conditions Firm, smooth, rolling, dirt/1	Estimate ndbook c Cycle Time (load, o mane eter 0.00 10 ft. high or less ot applicable 0.00 ot applicable 0.00 vcle Time Adjustmer ted Basic Cycle Tim	dump, 0.550 vver): 0.550 Factor (min.) 0.000 0.000 0.000 0.000 0.000 0.000 1t: 0.010 e: 0.560 maintained 3.0 maintained 3.0) Source (Cat HB) minutes minutes

Loader Worksheet Cor	ıt'd]	Гask # 003			Page 2 of 2
Haul Route:	400	0.00	3.00	3.00	0.3092	(Cat HB)
Return Route:	400	0.00	3.00	3.00	0.2917	(Cat HB)
				Travel Time: Cycle Time:	0.6010 1.1610	minutes minutes
Load Bucket Capacity						
Rated Capa	city: 7.	50 LCY	(heaped)			
Bucket Fill Fa			er - rock/dirt mi	xtures (100-1	20%) 1.100	
Adjusted Capa	city: 8.	25 LCY	ľ			
Job Condition Correcti Site Altitude: <u>5800</u> fee						
		Se	ource			
Altitude Adj	: 1.00	(CA	T HB)			
Job Efficiency	-	,	ift/day)			
Net Correction	: 0.83	mult	iplier			
Ŭ	nadiusted Hou	ly Unit Product	tion: 426	.37 LCY	/Hour	
		ly Unit Product			/Hour	
	Adjusted Hour	ly Fleet Product	tion: 353	.89 LCY.	/Hour	
JOB TIME AND C	<u>OST</u>					
Fleet size:	1 L	oader(s)	Total job	time:	91.27	Hours
Unit cost:	\$0.443 /1	LCY	Total job	cost:	\$14,293	

MOTOR GRADER WORK

Task description:	Rip 34 acres of	TSSA and S	tone Yard			
e: Bedrock Mine #1	Pe	ermit Action:	2020 Inspect	ion P	ermit/Job#:	M1997086
PROJECT IDENTI	FICATION					
Task #: 004A	State:	Colorado		Abbrey	viation: No	ne
Date: 7/31/202	20 County:	Pueblo		File	ename: M0	86-004a
User: JPL						
Agency or ors	ganization name: D	RMS				
HOURLY EQUIPM	<u>IENT COST</u>					
Basic Mach	ine: CAT 120M			Horsepower:	138	
Ripper Attachm	ent: Multi-Shank R	ipper		Shift Basis:	1 per da	y
				Data Source:	(CRG)	
Cost Breakdown:						
COSt Dieakdowii.				Utilization %		
Ow	nership Cost/Hour:		\$38.18	NA		
	erating Cost/Hour:		\$34.06	100		
	nership Cost/Hour:		\$2.57	NA		
	erating Cost/Hour:		\$3.07	100		
	perator Cost/Hour:		\$46.87	NA		
Tot	tal Unit Cost/Hour:		\$124.75			
T 4	al Floot Cost/User	\$124	1 75			
101	al Fleet Cost/Hour:	φ124	./5			
MATERIAL QUAN	TITIES					
		1 24.00				
Total Are	a to be graded or ripp	ed: 34.00			acro	es
Sou	rce of estimated acrea	ge: Annua	Report and sit	e inspection		
HOURLY PRODUC	<u>CTION</u>					
	Average Grader S	peed:	1.50	mph		
	Selected Applica			ping (0-3 mph) - 1	.50	
	Selected Blade A		-1	degrees		
	Effective Blade Le	U	0.00	feet		
	h of blade overlap per	-	2.00	feet		
	g or ripping width per		7.58	feet		
Unadjust	ed Hourly Unit Produc	ction:	1.3782	acres/hou	r	
Job Condition Correction	on Factors		Si	te Altitude: <u>5800</u> f	eet	
		Source				
Altitude Adj:	1.00	(CAT HE	3)			
Job Efficiency:		(1sh/d, fav				
Net Correction:		multiplier				
	Adjusted Hourly Unit	Production	1.2404	acres/Hour		
	Adjusted Hourly Fleet		<u> </u>	acres/Hour		
	nujusicu mouny rieel		1.2404			
JOB TIME AND CO)ST					
		、 、	m (1, 1, 1, 1)	AE 44	**	
Fleet size:	1 Grader(s)	Total job time	27.41	Ho	urs
Unit cost: \$	100.58 per acre		Total job cost	: \$3,420		
om cost. 3	per acte		i otar job cost	. φ 3,4 20		

MOTOR GRADER WORK

te: Bedrock Mine #1 Permit Action: 2020 Inspection PROJECT IDENTIFICATION Task #: 005 State: Colorado Ab Date: 7/31/2020 County: Pueblo User: JPL Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: CAT 140M Horsepower: Ripper Attachment: Multi-Shank Ripper Shift Basis: Data Source: Cost Breakdown: Vutilization % Ownership Cost/Hour: \$40.52 NA Operating Cost/Hour: \$38.39 100 Ripper Ownership Cost/Hour: \$22.57 NA Ripper Ownership Cost/Hour: \$30.00 0 Operator Cost/Hour: \$46.87 NA Total Unit Cost/Hour: \$128.34 Total Fleet Cost/Hour: \$128.34	: <u>1 per day</u> : (CRG)
Task #: 005 State: Colorado Ab Date: 7/31/2020 County: Pueblo Ab User: JPL Agency or organization name: DRMS DRMS HOURLY EQUIPMENT COST Basic Machine: CAT 140M Horsepower: Ripper Attachment: Multi-Shank Ripper Shift Basis: Date Source: Ownership Cost/Hour: \$40.52 NA Operating Cost/Hour: \$38.39 100 Ripper Ownership Cost/Hour: \$2.57 NA Ripper Operating Cost/Hour: \$0.00 0 Operator Cost/Hour: \$0.00 0 Operator Cost/Hour: \$128.34 \$128.34	Filename: M086-005
Date: 7/31/2020 County: Pueblo User: JPL Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: CAT 140M Horsepower: Basic Machine: CAT 140M Horsepower: Shift Basis: Data Source: Cost Breakdown: Utilization % Operating Cost/Hour: \$40.52 NA Operating Cost/Hour: \$2.57 NA Ripper Operating Cost/Hour: \$0.00 0 Operator Cost/Hour: \$0.00 0 Operator Cost/Hour: \$128.34	Filename: M086-005
Date: 7/31/2020 County: Pueblo User: JPL Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: CAT 140M Horsepower: Basic Machine: CAT 140M Horsepower: Shift Basis: Data Source: Cost Breakdown: Utilization % Operating Cost/Hour: \$40.52 NA Operating Cost/Hour: \$2.57 NA Ripper Ownership Cost/Hour: \$0.00 0 Operator Cost/Hour: \$0.00 0 Operator Cost/Hour: \$46.87 NA Total Unit Cost/Hour: \$128.34 \$128.34	Filename: M086-005
User: JPL Agency or organization name: DRMS HOURLY EQUIPMENT COST Basic Machine: CAT 140M Ripper Attachment: Multi-Shank Ripper Cost Breakdown: Ownership Cost/Hour: \$40.52 NA Operating Cost/Hour: \$40.52 NA Operating Cost/Hour: \$38.39 100 Ripper Ownership Cost/Hour: \$2.57 NA Ripper Operating Cost/Hour: \$0.00 0 Operator Cost/Hour: \$46.87 NA Total Unit Cost/Hour: \$128.34	:
Agency or organization name: DRMS HOURLY EQUIPMENT COST Horsepower: Basic Machine: CAT 140M Horsepower: Ripper Attachment: Multi-Shank Ripper Shift Basis: Data Source: Data Source: Cost Breakdown: Utilization % Ownership Cost/Hour: \$40.52 NA Operating Cost/Hour: \$38.39 100 Ripper Ownership Cost/Hour: \$2.57 NA Ripper Operating Cost/Hour: \$0.00 0 Operator Cost/Hour: \$46.87 NA Total Unit Cost/Hour: \$128.34 \$128.34	: 1 per day : (CRG)
HOURLY EQUIPMENT COST Basic Machine: CAT 140M Horsepower: Ripper Attachment: Multi-Shank Ripper Shift Basis: Data Source: Data Source: Cost Breakdown: Utilization % Ownership Cost/Hour: \$40.52 NA Operating Cost/Hour: \$38.39 100 Ripper Ownership Cost/Hour: \$2.57 NA Ripper Operating Cost/Hour: \$0.00 0 Operator Cost/Hour: \$46.87 NA Total Unit Cost/Hour: \$128.34 \$128.34	: 1 per day : (CRG)
Basic Machine: CAT 140M Horsepower: Ripper Attachment: Multi-Shank Ripper Shift Basis: Data Source: Cost Breakdown: Utilization % Ownership Cost/Hour: \$40.52 NA Operating Cost/Hour: \$38.39 100 Ripper Ownership Cost/Hour: \$2.57 NA Ripper Operating Cost/Hour: \$0.00 0 Operator Cost/Hour: \$46.87 NA Total Unit Cost/Hour: \$128.34 \$128.34	: 1 per day : (CRG)
Ripper Attachment:Multi-Shank RipperShift Basis: Data Source:Cost Breakdown:Utilization %Ownership Cost/Hour:\$40.52Operating Cost/Hour:\$38.39Ripper Ownership Cost/Hour:\$2.57NA\$0.00Ripper Operating Cost/Hour:\$0.00Operator Cost/Hour:\$128.34	: 1 per day : (CRG)
Ripper Attachment:Multi-Shank RipperShift Basis: Data Source:Cost Breakdown:Utilization %Ownership Cost/Hour:\$40.52Operating Cost/Hour:\$38.39Ripper Ownership Cost/Hour:\$2.57Ripper Operating Cost/Hour:\$0.00Ripper Operating Cost/Hour:\$0.00Operator Cost/Hour:\$46.87NATotal Unit Cost/Hour:\$128.34	: 1 per day : (CRG)
Cost Breakdown:Data Source:Cost Breakdown:Utilization %Ownership Cost/Hour:\$40.52Operating Cost/Hour:\$38.39Ripper Ownership Cost/Hour:\$2.57NA\$0.00Ripper Operating Cost/Hour:\$0.00Operator Cost/Hour:\$46.87NATotal Unit Cost/Hour:\$128.34	: (CRG)
Cost Breakdown:Utilization %Ownership Cost/Hour:\$40.52Operating Cost/Hour:\$38.39Ripper Ownership Cost/Hour:\$2.57Ripper Operating Cost/Hour:\$0.00Operator Cost/Hour:\$46.87NATotal Unit Cost/Hour:\$128.34	`,
Ownership Cost/Hour:Utilization %Operating Cost/Hour:\$40.52NA\$38.39Ripper Ownership Cost/Hour:\$2.57Ripper Operating Cost/Hour:\$0.00Operator Cost/Hour:\$46.87NATotal Unit Cost/Hour:\$128.34	
Ownership Cost/Hour:\$40.52NAOperating Cost/Hour:\$38.39100Ripper Ownership Cost/Hour:\$2.57NARipper Operating Cost/Hour:\$0.000Operator Cost/Hour:\$46.87NATotal Unit Cost/Hour:\$128.34	
Operating Cost/Hour:\$38.39100Ripper Ownership Cost/Hour:\$2.57NARipper Operating Cost/Hour:\$0.000Operator Cost/Hour:\$46.87NATotal Unit Cost/Hour:\$128.34	
Ripper Ownership Cost/Hour:\$2.57NARipper Operating Cost/Hour:\$0.000Operator Cost/Hour:\$46.87NATotal Unit Cost/Hour:\$128.34	
Ripper Operating Cost/Hour:\$0.000Operator Cost/Hour:\$46.87NATotal Unit Cost/Hour:\$128.34	
Operator Cost/Hour:\$46.87NATotal Unit Cost/Hour:\$128.34	
Total Unit Cost/Hour: \$128.34	
Total Fleet Cost/Hour: \$128.34	
Total Area to be graded or ripped: 20.00 Source of estimated acreage: Annual Report and Site Inspection	acres
HOURLY PRODUCTION	
Average Grader Speed: 1.50 mph	
Selected Application: Finish grading (0-2.5	mph) - 1.5
Selected Blade Angle: 30 degre	es
Effective Blade Length: 10.40 feet	
Width of blade overlap per pass:2.00feet	
Net grading or ripping width per pass: 8.40 feet	
Unadjusted Hourly Unit Production: 1.5273 acres/	/hour
Job Condition Correction Factors Site Altitude: 58	<u>300</u> feet
Source	
Altitude Adj: 1.00 (CAT HB)	
Job Efficiency: 0.85 (1sh/d, mod.)	
Net Correction: 0.8500 multiplier	
Adjusted Hourly Unit Production: 1.2982 acres/Hou	11 r
Adjusted Hourly Fleet Production: 1.2982 acres/Hou	
actes/110	ui
JOB TIME AND COST	
Fleet size: 1 Grader(s) Total job time: 15	Hours
Unit cost: \$98.86 per acre Total job cost: \$1,	977

REVEGETATION WORK

Task descrip	otion:	Revegetation of 39.9 acres TSSA, Stone Yard and misc				
te: Bedrock	Mine #1	Per	mit Action:	2020 Inspection	Permit/Jol	o#: <u>M1997086</u>
	IDENTIFIC					Ŋ
Task #:	006A	State:	Colorado		Abbreviation:	None
Date:	7/31/2020	County:	Pueblo		Filename:	M086-006a
User:	JPL					

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$107.16
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
Total Tilling Cost/Acre	\$300.76

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Paiute	1.00	12.40	\$4.08
Rye, Perennial Tetraploid - Tetra-Plus	1.00	5.67	\$1.80
Crested Wheatgrass - Hy-Crest	1.00	4.59	\$3.98
Russian Wildrye - Bozoisky	2.00	8.03	\$12.96
Smooth Brome - Lincoln	2.00	6.66	\$6.65
Intermediate Wheatgrass - Oahe	2.00	4.27	\$5.60
Slender Wheatgrass - Native	1.00	3.65	\$4.63
		45.27	\$39.69

Totals Secu Mila 10.00	Totals	Seed	Mix	10.00
------------------------	--------	------	-----	-------

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
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost	t/Acre \$0.00

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

Estimate *Selected Replanti	No. of Acres: ed Failure Rate: ng Work Items:	10%	Cost /Acre: Cost /Acre*:	
Initial Job Cost: Reseeding Job Cost:			-	
Total Job Cost: Job Hours:	\$23,925		-	

REVEGETATION WORK

Task descri	ption:	Weed Control 5.7	acres			
Site: Bedrock	Mine #1	Peri	mit Action:	2020 Inspection	Permit/Job	o#: <u>M1997086</u>
PROJECT Task #:	IDENTIFIC	CATION State:	Colorado		Abbreviation:	None
Date:	7/31/2020	County:	Pueblo		Filename:	M086-006b
User:	JPL					

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
Total Tilling Cost/Acre	\$193.60

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre

\$0.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost	/Acre
	\$	
Total Mul	ch Application Cost/Acre \$0.00)

NURSERY STOCK PLANTING

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

JOB TIME AND COST

Job Hours: 0.00

	No. of Acres:	5.7	Cost /Acre:	\$193.60
Estimate	ed Failure Rate:	0%	Cost /Acre*:	\$193.60
*Selected Replanti	ng Work Items:	TILLING		
Initial Job Cost:	\$1,103.52			
Reseeding Job Cost:	\$0.00			
Total Job Cost:	\$1,104			

REVEGETATION WORK

Task descri	iption:	Revegetation of 2	1.3 acres re	lated to mining areas		
Site: Bedrock	x Mine #1	Per	mit Action:	2020 Inspection	Permit/Job	o#: <u>M1997086</u>
PROJECT	<u>IDENTIFIC</u>	CATION				
Task #:	006	State:	Colorado		Abbreviation:	None
Date:	7/31/2020	County:	Pueblo		Filename:	M086-006
User:	JPL					

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials	
			Cost/Acre	\$0.00

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$107.16
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
Total Tilling Cost/Acre	\$300.76

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Paiute	1.00	12.40	\$4.08
Rye, Perennial Tetraploid - Tetra-Plus	1.00	5.67	\$1.80
Crested Wheatgrass - Hy-Crest	1.00	4.59	\$3.98
Russian Wildrye - Bozoisky	2.00	8.03	\$12.96
Smooth Brome - Lincoln	2.00	6.66	\$6.65
Intermediate Wheatgrass - Oahe	2.00	4.27	\$5.60
Slender Wheatgrass - Native	1.00	3.65	\$4.63
		45.27	\$39.69

Totals Seed Mix	10.00
	10.00

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	\$301.00	\$602.00
Total Mulch Materials Cost/Acre				\$602.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$70.17
	Total Mulch Application Cost/Acre	\$70.17

NURSERY STOCK PLANTING

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

No. of Acres Estimated Failure Rate *Selected Replanting Work Items	: 10%	Cost /Acre: Cost /Acre*:	
Initial Job Cost: \$26,510.41 Reseeding Job Cost: \$578.70 Total Job Cost: \$27,089 Job Hours: 30.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

	1	on: Mo	b/Demob					
: <u>I</u>	Bedrock Mi	ine #1	Permit	Action: _2020	Inspection	<u>1</u>	Permit/Job#: <u>M</u>	1997086
PRO	DJECT ID	ENTIFICATI	<u>ON</u>					
,	Task #: (007	State: Co	olorado		Abbre	eviation: None	
		7/31/2020 IPL	County: Pu	eblo		F	ilename: M086	5-007
	Agenc	y or organization	n name: DRMS					
EQI	UIPMENT	T TRANSPOR	<u>T RIG COST</u>					
						Shift ba		
						Cost Data Sou	rce: CRG Da	ta
	Tn	uck Tractor Desc	ription GENE	RIC ON-HIGH	WAYTR	UCK TRACTO	DR, 6X4, DIESEI	POWERED
	11	dek Huetor Dese				(2ND HALF,		liter,
	Tr	uck Trailer Desc	ription G	ENERIC FOLD			ROP DECK EQU	IPMENT
		uen Huner Dese				(25T, 50T, Al		
						(201,001,11	(21001)	
Cost	Breakdown	<u>1:</u>						
		<u>n:</u> Capacities	0-25 Tons	26-50 Tons	51	+ Tons		
	ailable Rig		0-25 Tons \$17.20	26-50 Tons \$29.63		+ Tons 38.69		
	ailable Rig Owners	Capacities			\$			
	ailable Rig Owners Operat	Capacities	\$17.20	\$29.63	\$	38.69		
	ailable Rig Owners Operat	Capacities hip Cost/Hour: ing Cost/Hour:	\$17.20 \$26.56	\$29.63 \$47.02	\$ \$ \$	38.69 55.69		
	ailable Rig Owners Operat Opera Hel	Capacities hip Cost/Hour: ing Cost/Hour: tor Cost/Hour:	\$17.20 \$26.56 \$23.63	\$29.63 \$47.02 \$23.63	\$ \$ \$ \$	38.69 55.69 23.63		
	ailable Rig Owners Operat Opera Hel	Capacities hip Cost/Hour: ing Cost/Hour: tor Cost/Hour: per Cost/Hour:	\$17.20 \$26.56 \$23.63 \$0.00	\$29.63 \$47.02 \$23.63 \$23.53	\$ \$ \$ \$	38.69 55.69 23.63 23.53		
Av	ailable Rig Owners Operat Opera Hel Total U	Capacities hip Cost/Hour: ing Cost/Hour: tor Cost/Hour: per Cost/Hour:	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39	\$29.63 \$47.02 \$23.63 \$23.53	\$ \$ \$ \$	38.69 55.69 23.63 23.53		
	ailable Rig Ownersi Operat Opera Hel Total U N ROADA	Capacities hip Cost/Hour: ing Cost/Hour: tor Cost/Hour: per Cost/Hour: Init Cost/Hour:	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT:	\$29.63 \$47.02 \$23.63 \$23.53 \$123.81	\$ \$ \$ \$ \$ \$	38.69 55.69 23.63 23.53 41.54	Return Trin	DOT Permit
Av NOI Ma	ailable Rig Owners Operat Opera Hel Total U N ROADA	Capacities hip Cost/Hour: ing Cost/Hour: tor Cost/Hour: per Cost/Hour: Init Cost/Hour: ABLE EQUIPN Weight/	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship	\$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig	\$ \$ \$ \$ \$ \$ \$	38.69 55.69 23.63 23.53 41.54 Haul Trip	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Av NOI Ma	ailable Rig Ownersi Operat Opera Hel Total U N ROADA	Capacities hip Cost/Hour: ing Cost/Hour: tor Cost/Hour: per Cost/Hour: Init Cost/Hour: ABLE EQUIPN Weight/ Unit	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT:	\$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni	\$ \$ \$ \$ \$ \$	38.69 55.69 23.63 23.53 41.54 Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Av NOI Ma De	ailable Rig Owners Operat Operat Hel Total U N ROADA	Capacities hip Cost/Hour: ing Cost/Hour: tor Cost/Hour: per Cost/Hour: nit Cost/Hour: ABLE EQUIPM Weight/ Unit (TONS)	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship Cost/hr/ unit	\$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni t	\$ \$ \$ \$ Fleet Size	38.69 55.69 23.63 23.53 41.54 Haul Trip Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Av NOI Ma De Cat	ailable Rig Owners Operat Operat Hel Total U N ROADA achine scription	Capacities hip Cost/Hour: ing Cost/Hour: tor Cost/Hour: per Cost/Hour: nit Cost/Hour: ABLE EQUIPM Weight/ Unit (TONS)	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship	\$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni	\$ \$ \$ \$ \$ \$ \$	38.69 55.69 23.63 23.53 41.54 Haul Trip Cost/hr/	Return Trip Cost/hr/ fleet \$123.81	
Av NOI Ma De Cat	ailable Rig Owners Operat Operat Hel Total U N ROADA achine scription	Capacities hip Cost/Hour: ing Cost/Hour: itor Cost/Hour: per Cost/Hour: Init Cost/Hour: ABLE EQUIPN Weight/ Unit (TONS) R 35.93	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship Cost/hr/ unit \$82.24	\$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni t \$123.81	s s s fleet Size	38.69 55.69 23.63 23.53 41.54 Haul Trip Cost/hr/ fleet \$206.05	Cost/hr/ fleet \$123.81	Cost/ fleet \$250.00
Av NOI Ma De Cat Ser CA	ailable Rig Owners Operat Operat Hel Total U N ROADA achine scription	Capacities hip Cost/Hour: ing Cost/Hour: itor Cost/Hour: per Cost/Hour: Init Cost/Hour: MBLE EQUIPM Weight/ Unit (TONS) R 35.93 33.12	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship Cost/hr/ unit \$82.24 \$55.34	\$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni t \$123.81 \$123.81	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	38.69 55.69 23.63 23.53 41.54 Haul Trip Cost/hr/ fleet \$206.05 \$179.15	Cost/hr/ fleet \$123.81 \$123.81	Cost/ fleet \$250.00 \$250.00
Av NOI Ma De Cat Ser CA CA Dri	ailable Rig Owners Operat Operat Hel Total U N ROADA achine scription	Capacities hip Cost/Hour: ing Cost/Hour: itor Cost/Hour: per Cost/Hour: Init Cost/Hour: ABLE EQUIPN Weight/ Unit (TONS) R 35.93	\$17.20 \$26.56 \$23.63 \$0.00 \$67.39 MENT: Owner ship Cost/hr/ unit \$82.24	\$29.63 \$47.02 \$23.63 \$23.53 \$123.81 Haul Rig Cost/hr/uni t \$123.81	s s s fleet Size	38.69 55.69 23.63 23.53 41.54 Haul Trip Cost/hr/ fleet \$206.05	Cost/hr/ fleet \$123.81	Cost/ fleet \$250.00

Subtotals: \$569.79 \$382.40 \$1,000.00

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: _	PUEBLO 20.00 55.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$4,060.00	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

Haul Time (Hours):	Non- Roadable Equipment 0.36	Roadable Equipment 0.36
Return Time (Hours):	0.36	0.36
Loading Time (Hours):	0.70	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.93	0.73
Return Time (Hours): Loading Time (Hours): Unloading Time (Hours):	0.36 0.70 0.50	0.36 NA NA

JOB TIME AND COST

Total job time: 3.85 Hours

Total job cost: **\$4,060**