October 19, 2015

David Zehner Precision Excavating, Inc. 195 W. Jefferson Hayden, CO 81639



1313 Sherman Street, Room 215 Denver, CO 80203

RE: Peroulis Brothers Snake River Pit, Permit No. M-2009-079, Reclamation Costs Update and Notice of Surety Increase (SI-1)

Dear Mr. Zehner:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed).

Division calculations estimate the cost to reclaim the above referenced site to be \$199,600 rounded up from \$199,552.62. This is an increase of \$54,600 over the \$145,000 currently held by the Division. This estimate is based on conditions observed during the August 4, 2015 inspection and the approval of Technical Revision TR-1. Therefore, pursuant to Section 34-32.5-117(4) of the Colorado Land Reclamation Act, adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter. The additional amount needs to be accepted prior to Friday, December 18, 2015. The bond was last calculated pre-construction in 2009. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Barbara Coria.

If you require additional information, or have questions or concerns, please feel free to contact me. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 970-254-8511 or via email at amy.yeldell@state.co.us

Sincerely,

Amy Yeldell

Environmental Protection Specialist Department of Natural Resources Division of Reclamation, Mining and Safety

Phone: (970) 254-8511 Fax: (970) 241-1516



Ec:

Russ Means, Senior EPS / Field Office Supervisor, Grand Junction DRMS

Enc: Financial Warranty Cost Estimate

COST SUMMARY WORK

Ta	ask description: Reclam	nation Cost updated p	ost inspection ar	nd TR-1		
Site:	Peroulis Brothers Snake River Pit	Permit Action:	2015 Recalc	Permit/Job#: M2009079		
PR	OJECT IDENTIFICATION					
	Task #: 000 Date: 10/19/2015 User: ACY	State: Colorado County: Moffat			Abbreviation: Filename:	None M079-000
	Agency or organization name	me: DRMS				
<u>TA</u>	SK LIST (DIRECT COSTS	1				
Task	Description		Form Used	Fleet Size	Task Hours	Cost
001	Demo of Loadscale and office		DEMOLISH	1	16.00	\$2,884.64
002	Backfill Highwalls 4600 ft		SCRAPER1	2	35.40	\$48,847.00
003	Final 3:1 slope establishment		DOZER	1	9.53	\$2,068.00

RIPPER

SCRAPER1

GRADER

REVEGE

MOBILIZE

MOBILIZE

1

2

1

1

1

1

SUBTOTALS:

46.75

12.58

22.42

52.00

6.00

1.45

202.13

INDIRECT COSTS

004

005

006

007

008

009

OVERHEAD AND PROFIT:

Rip 30 acres of pit floor

Topsoil 35 acres

Final Site Grading

Reveg of 35 acres

Initial Mobilization

Secondary Seeding Mobilization

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 101.06
Profit: 10.00

Total = \$3,251.05 Total = \$1,689.90 Total = \$7,595.67 Total = \$16,094.30

\$10,413.00

\$17,359.00

\$3,142.00

\$65,471.00

\$10,522.00

\$236.00

\$160,943

TOTAL O & P = 28,630.92CONTRACT AMOUNT (direct + O & P) = 189,573.92

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:

500.00 0.00 5.00 Total = 500.00 Total = \$0.00 \$9,478.70

CONTINGENCY:

0.00

Total = \$0.00

TOTAL INDIRECT COST = \$38,609.62

0400 550 60

TOTAL BOND AMOUNT (direct + indirect) = \$199,552.62

DEMOLITION WORK

Taala	4	rintion:	
Lask	desci	mmillom	

Demo of Loadscale and office

Peroulis Brothers Snake

Permit Action:

Site: River Pit

2015 Recalc

Permit/Job#: M2009079

PROJECT IDENTIFICATION

Task #: Date: 001

10/16/2015

State: County: Colorado Moffat

Abbreviation:

None

Filename:

M079-001

User: ACY

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 95.50 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Load Scale Concrete footers	105' x 15'	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft Max. 200 ft. push	240.00	LF	\$6.85	\$1,644.00
Concrete Pad Scale Removal	(2) 20' x15'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	600.00	SF	\$1.14	\$684.00
Office removal	15' x 15' x 10'	Demo. only, small or single buildings (single story) - Wood structures	2,250.00	CF	\$0.17	\$375.75
Office foundation	15' x15'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	225.00	SF	\$1.14	\$256.50
Scale	105' x 15'	Load/haul/dump demolished materials/debris into pit - Max. 1,000 ft. haul	58.00	CY	\$1.04	\$60.32

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	16.00	(unadjusted):	\$3,020.57	location):	\$2,884.64

SCRAPER TEAM WORK

Task description:

Backfill Highwalls 4600 ft

Peroulis Brothers Snake

Permit Action:

Site: River Pit

2015 recalc

Permit/Job#: M2009079

PROJECT IDENTIFICATION

Task #: 002

State:

Colorado

Abbreviation:

None

Date:

10/16/2015

County: Moffat Filename:

M079-002

User:

ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT

COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 627G w/push-pull
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance - Motor Grader:	CAT 14M
-Water Truck:	Water Tanker 7 000 Gal

Cost Breakdown:	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	50	50
Ownership cost/hour:	\$72.62	NA	NA	NA	\$42.03	\$32.60
Operating cost/hour:	\$187.56	NA	NA	NA	\$34.94	\$42.80
Ripper op. cost/hour:	NA	NA	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$33.56	NA	NA	NA	\$24.47	\$27.88
Unit Subtotals:	\$293.74	NA	NA	NA	\$101.43	\$103.29
Number of Units:	4	0	0	0	1	1
Group Subtotals:	Work:	\$1,174.96	Support:	\$0.00	Maint:	\$204.72

Total work team cost/hour: \$1,379.68

MATERIAL QUANTITIES

Initial volume:

CCY

Swell factor: 1.000

Loose volume:

52,134

LCY

Source of estimated volume:

Accepted volume from application

Source of estimated swell factor:

Cat Handbook

HOURLY PRODUCTION

Scraper Bowl (volume) Basis:

Material weight: 2,550 lbs/LCY

Rated Payload:

Payload Capacity:

Material description: Earth - Dry packed

52,800 pounds 20.71 LCY

Struck Volume: Heaped Volume:

15.70 LCY 22.00 LCY

Average Volume: Adjusted Capacity: 18.85

18.85

LCY LCY Cycle Time:

Scraper Loading Time: Maneuver and Spread Time: 0.90 Minutes 0.60 Minutes

Job Condition Correction:

Site Altitude: 6100 feet

	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: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	500.00	3.00	5.00	8.00	1381	0.43
2	200.00	16.00	5.00	21.00	537	0.31

Haul Time: 0.74 minutes

0.31

minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	200.00	-16.00	5.00	-11.00	2367	0.13
2	500.00	-3.00	5.00	2.00	2905	0.18

Total Scraper team cycle time:

Adjusted for job conditions:

Selected Number of Scrapers:

2 Scraper(s)

Return Time:

Adjusted single scraper team (unit) hourly production: 736.26 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 1,472.52 LCY/Hour

Unadjusted unit production/hour: 887.06 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

Fleet size: 2 Team(s) Total job time: 35.40 Hours

Unit cost: \$0.937 /LCY Total job cost: \$48,847

Dozing method:

Visibility:

1.000

1.000

(GEN.)

(AVG.)

BULLDOZER WORK

Task description: Final 3:1 slope establishment **Peroulis Brothers Snake** Permit Action: Site: River Pit 2015 Recalc Permit/Job#: M2009079 **PROJECT IDENTIFICATION** Task #: 003 State: Colorado Abbreviation: None Date: 10/16/2015 County: Moffat Filename: M079-003 User: **ACY** Agency or organization name: **DRMS HOURLY EQUIPMENT COST** Cat D8T - 8SU Basic Machine: Horsepower: 310 Blade Type: Semi-Universal Attachment: 3-shank ripper Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: **Utilization %** Ownership Cost/Hour: \$69.05 NA Operating Cost/Hour: \$108.22 100 Ripper op. Cost/Hour: \$1.86 25 Operator Cost/Hour: \$38.01 NA Total unit Cost/Hour: \$217.14 Total Fleet Cost/Hour: \$217.14 **MATERIAL QUANTITIES** Initial Volume: 10,250 Swell factor: 1.000 Loose volume: 10,250 LCY Source of estimated volume: Avg. 1 ft depth blade of 60x46600 slope area Source of estimated swell factor: Cat Handbook **HOURLY PRODUCTION** Average push distance: 60 feet 1,246.9 LCY/hr Unadjusted hourly production: Materials consistency description: Loose stockpile 1.2 Average push gradient: -30 % Average site altitude: 6,100 feet Material weight: 2,550 lbs/LCY Weight description: Earth - Dry packed Job Condition Correction Factor Source Operator Skill: 0.750 (AVG.) Material consistency: 1.200 (CAT HB)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8630

Adjusted unit production: 1,076.07 LCY/hr
Adjusted fleet production: 1076.07 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.202/LCY

Total job time: 9.53 Hours
Total job cost: \$2,068

BULLDOZER RIPPING WORK

	Task description:	Rip 3	0 acres of pit floor					
Site:	Peroulis Broth River Pit	ers Snake	Permit Action:	2015 Recalc	Perm	nit/Job#:	M20090	79
	PROJECT IDE	NTIFICATIO	<u>DN</u>					
	Task #: 004 Date: 10/1 User: AC	6/2015 Y	State: Colorado County: Moffat		Abbrev File	iation: _ename: _	None M079-00	4
	Agency	or organization r	name: DRMS					
	HOURLY EQU	JIPMENT CO	ST					
			D8T - 8SU		Horsepower:	3	310	
	Ripper Atta		ank Ripper		Shift Basis: Data Source:	1 p	er day (RG)	
	Cost Breakdown:							
		Ownership Cos	st/Hour: \$69.		Utilization %			
		Operating Cos			NA 100			
	Ripp	er Operating Co			100			
		Operator Co		.01	NA			
		Total Unit Co	st/Hour: \$222	73				
		Total Fleet Co	st/Hour: \$222	.73				
	MATERIAL Q	<u>UANTITIES</u>	Sele	cted estimating	method: Area			
	Alternate Method	<u>s:</u>						
Seismic:	NA		Bank Volume:	NA	BCY		NA	
Area:	30.00	acres	Rip Depth (ft):	2.00	Volume: 96,	800		BCY or CC
		Source of estim	nated quantity: Standar	d depth, 30 ac p	it floor			
	HOURLY PRO	DUCTION						
	Seismic:							
	Beisinie.	S	eismic Velocity:	NA	feet/second	d		
	Area:		•	-				
	Alca.	Average	Ripping Depth:	2.56	mph			
			Ripping Width:	7.08	degrees			
		Average	Ripping Length:	200.00	feet			
		Avera	ge Dozer Speed:	88.00	feet			
		_	Maneuver Time:	0.25	feet			
		Producti	ion per unit area:	0.773	acres/hour			
	Job Condition Co	rrection Factors						
	Una	adjusted Hourly	Unit Production:	0.773	Acres/hr			
			Site Altitude:	6,100	feet			
			Altitude Adj:	1.00	(CAT HB))		
			Job Efficiency:	0.83	(1 shift/da	y)		
			Net Correction:	0.83	multiplier			
			Hourly Unit Production: Hourly Fleet Production:	0.64 0.64	Acres/hr Acres/hr			
	JOB TIME AN	D COST						
	Fleet size:	1	Grader(s)	Total job time	e:46.	75	Но	urs
	Unit cost:	\$347.092	Per acre	Total job cos	t· \$10.	112		

SCRAPER TEAM WORK

-	Task description:		Topsoil 35 acres				
Peroulis Brothers Snak Site: River Pit		rothers Snak	Re Permit Action:		2015 recalc	Permit/Job#:	M2009079
ļ	PROJECT	IDENTIFIC	CATION				
	Task #: _ Date: _ User: _ Age	005 10/16/2015 ACY	County:	Colorado Moffat		Abbreviation: Filename:	None M079-005
]	HOURLY 1	<u>EQUIPMEN</u>	<u>VT</u>		COSTShift basis	: 1 per day	
			C		ent Description		
			-Scraper: -Dozer:	NA	7G w/push-pull		
_		Support Equ	ripment -Load Area:	NA NA			
	_		-Dump Area:	NA			
	R	oad Maintena	nce –Motor Grader:	CAT 14			
			-Water Truck:	Water	Tanker, 7,000 Gal.		

Cost Breakdown:	Scraper Wor	k Team	Support Equip	ment	Maintenance Equipment		
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck	
%Utilization-machine:	100	NA	NA	NA	50	50	
Ownership cost/hour:	\$72.62	NA	NA	NA	\$42.03	\$32.60	
Operating cost/hour:	\$187.56	NA	NA	NA	\$34.94	\$42.80	
Ripper op. cost/hour:	NA	NA	NA	NA	\$0.00	\$0.00	
Operator cost/hour:	\$33.56	NA	NA	NA	\$24.47	\$27.88	
Unit Subtotals:	\$293.74	NA	NA	NA	\$101.43	\$103.29	
Number of Units:	4	0	0	0	1	1	
Group Subtotals:	Work:	\$1,174.96	Support:	\$0.00	Maint:	\$204.72	

Total work team cost/hour: \$1,379.68

MATERIAL QUANTITIES

Initial volume: 18,822 CCY Swell factor: 1.000
Loose volume: 18,822 LCY

Compared and and an D. 1. (C. D. V.)

Source of estimated volume: Reclamation Plan Volume

Source of estimated swell factor: N/A

HOURLY PRODUCTION

Scraper Bowl (volume) Basis:

Material weight:	1,600 lbs/LCY	Struck Volume:	15.70	LCY
Material description:	Top Soil	Heaped Volume:	22.00	LCY
Rated Payload:	52,800 pounds	Average Volume:	18.85	LCY
Payload Capacity:	33.00 LCY	Adjusted Capacity:	18.85	LCY

Cycle Time:

Job Condition Correction:

Site Altitude: 6100 feet

	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: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	3.00	5.00	8.00	1381	0.41
2	200.00	16.00	5.00	21.00	537	0.29

Haul Time: 0.70 minutes

Return Route:

Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	200.00	-16.00	5.00	-11.00	2367	0.13
2	500.00	-3.00	5.00	2.00	2905	0.18

Return Time: 0.31 minutes Total Scraper team cycle time: 2.51 minutes Adjusted for job conditions: 747.99 LCY/Hour Selected Number of Scrapers: 2 Scraper(s) Adjusted single scraper team (unit) hourly production: 747.99 LCY/Hour Adjusted multiple scraper team (fleet) hourly production: 1,495.98 LCY/Hour

Unadjusted unit production/hour: 901.20 LCY/Hour Optimal Number of Scrapers per push dozer:

JOB TIME AND COST

 Fleet size:
 2
 Team(s)
 Total job time:
 12.58
 Hours

 Unit cost:
 \$0.922
 /LCY
 Total job cost:
 \$17,359

MOTOR GRADER WORK

D 11 D 41 C		ing			
Peroulis Brothers S River Pit	Snake Pe	rmit Action:	2015 Recalc	Pen	mit/Job#: <u>M2009079</u>
PROJECT IDENTI	<u>IFICATION</u>				
Task #: 006 Date: 10/16/20 User: ACY	State: County:	Colorado Moffat			viation: None M079-006
	ganization name: D	RMS			
	-				
HOURLY EQUIPM					
Basic Machi				Horsepower:	259
Ripper Attachme	ent: Multi-Shank R	ipper		Shift Basis: Data Source:	1 per day
				Data Source:	(CRG)
Cost Breakdown:			1	TT::11	
Ov	nership Cost/Hour:	\$45	44	Utilization %	
	perating Cost/Hour:	\$43 \$69		NA 100	
	perating Cost/Hour:	\$0.		100	
	Operator Cost/Hour:	\$24		NA	
То	tal Unit Cost/Hour:	\$140	0.14		
Tot	tal Fleet Cost/Hour:	\$14;	2.24		
100	iai i icci costittoai.	QIA.	J.J4		
MATERIAL QUAN	NTITIES				
Total Ar	ea to be graded or ripr	ed: 35.00			0.0200
	ea to be graded or ripp				acres
	ea to be graded or rippurce of estimated acrea		nation Plan		acres
Sou	urce of estimated acrea		nation Plan		acres
	urce of estimated acrea	ge: Reclan		,	acres
Sou	urce of estimated acrea CTION Average Grader S	ge: Reclan	1.50	mph	
Sou	CTION Average Grader S Selected Applic	ge: Reclan	1.50 Finish	grading (0-2.5 mph	
Sou	CTION Average Grader S Selected Applic Selected Blade A	ge: Reclan Speed: ation: Angle:	1.50 Finish 30	grading (0-2.5 mph degrees	
Sou HOURLY PRODU	CTION Average Grader S Selected Applic	Speed:ation:angle:ength:	1.50 Finish 30 12.10	grading (0-2.5 mph	
Sou HOURLY PRODU Wide Net gradin	CTION Average Grader S Selected Applic Selected Blade A Effective Blade Leth of blade overlap per	Speed:ation:Angle:ength:pass:pass:	1.50 Finish 30	grading (0-2.5 mph degrees feet	
Sou HOURLY PRODU Wide Net gradin	CTION Average Grader S Selected Applic Selected Blade A Effective Blade Leth of blade overlap per	Speed:ation:Angle:ength:pass:pass:	1.50 Finish 30 12.10 2.00	grading (0-2.5 mph degrees feet feet) - 1.5
Sou HOURLY PRODU Wide Net gradin	Average Grader S Selected Applic Selected Blade A Effective Blade Leth of blade overlap per ag or ripping width per ted Hourly Unit Produ	Speed:ation:Angle:ength:pass:pass:	1.50 Finish 30 12.10 2.00 10.10 1.8364	grading (0-2.5 mph degrees feet feet feet	n) - 1.5
Sou HOURLY PRODU Wide Net gradin Unadjus	Average Grader S Selected Applic Selected Blade A Effective Blade Leth of blade overlap per ag or ripping width per ted Hourly Unit Produ	Speed: ation: Angle: ength: pass: pass:	1.50 Finish 30 12.10 2.00 10.10 1.8364	grading (0-2.5 mph degrees feet feet feet acres/hou	n) - 1.5
Sou HOURLY PRODU Wide Net gradin Unadjus	Average Grader S Selected Applic Selected Blade A Effective Blade Leth of blade overlap per ag or ripping width per ted Hourly Unit Produ	Speed:ation:Angle:ength:pass:pass:	1.50 Finish 30 12.10 2.00 10.10 1.8364	grading (0-2.5 mph degrees feet feet feet acres/hou	n) - 1.5
Sou HOURLY PRODU Wide Net gradin Unadjus Job Condition Correcti	Average Grader S Selected Applic Selected Blade A Effective Blade Leth of blade overlap per ag or ripping width per ted Hourly Unit Produ	Speed: ation: Angle: ength: pass: pass: ction:	1.50 Finish 30 12.10 2.00 10.10 1.8364 Si	grading (0-2.5 mph degrees feet feet feet acres/hou	n) - 1.5
Wide Net grading Unadjust Job Condition Correction Altitude Adj:	Average Grader S Selected Applic Selected Blade A Effective Blade Leth of blade overlap per ted Hourly Unit Production Factors 1.00 0.85	Speed:	1.50 Finish 30 12.10 2.00 10.10 1.8364 Si	grading (0-2.5 mph degrees feet feet feet acres/hou	n) - 1.5
Wide Net gradin Unadjus Job Condition Correcti Altitude Adj: Job Efficiency:	Average Grader S Selected Applic Selected Blade A Effective Blade Le th of blade overlap per ng or ripping width per ted Hourly Unit Production Factors 1.00 0.85 0.8500	Speed: ation: Angle: ength: pass: ction: Source (CAT HI (1sh/d, mo	1.50 Finish 30 12.10 2.00 10.10 1.8364 Si	grading (0-2.5 mph degrees feet feet feet acres/hou te Altitude: 6100 fe	n) - 1.5
Wide Net gradin Unadjus Job Condition Correcti Altitude Adj: Job Efficiency:	Average Grader S Selected Applic Selected Blade A Effective Blade Leth of blade overlap per ag or ripping width per ted Hourly Unit Production Factors 1.00 0.85 0.8500 Adjusted Hourly Unit	Speed: ation: Angle: ength: pass: ction: Source (CAT HI (1sh/d, mo	1.50 Finish 30 12.10 2.00 10.10 1.8364 Si 3) d.)	grading (0-2.5 mph degrees feet feet feet acres/hou te Altitude: 6100 fe	n) - 1.5
Wide Net gradin Unadjus Job Condition Correcti Altitude Adj: Job Efficiency:	Average Grader S Selected Applic Selected Blade A Effective Blade Le th of blade overlap per ng or ripping width per ted Hourly Unit Production Factors 1.00 0.85 0.8500	Speed: ation: Angle: ength: pass: ction: Source (CAT HI (1sh/d, mo	1.50 Finish 30 12.10 2.00 10.10 1.8364 Si	grading (0-2.5 mph degrees feet feet feet acres/hou te Altitude: 6100 fe	n) - 1.5
Wide Net gradin Unadjus Job Condition Correcti Altitude Adj: Job Efficiency:	Average Grader S Selected Applic Selected Blade A Effective Blade Leth of blade overlap per ag or ripping width per ted Hourly Unit Production Factors 1.00 0.85 0.8500 Adjusted Hourly Unit	Speed: ation: Angle: ength: pass: ction: Source (CAT HI (1sh/d, mo	1.50 Finish 30 12.10 2.00 10.10 1.8364 Si 3) d.)	grading (0-2.5 mph degrees feet feet feet acres/hou te Altitude: 6100 fe	n) - 1.5
Wide Net gradin Unadjus Job Condition Correcti Altitude Adj: Job Efficiency: Net Correction:	Average Grader S Selected Applic Selected Blade A Effective Blade Leth of blade overlap per ag or ripping width per ted Hourly Unit Production Factors 1.00 0.85 0.8500 Adjusted Hourly Unit	Speed: ation: Angle: ength: pass: pass: ction: Source (CAT HI (1sh/d, mo multiplier at Production: t Production:	1.50 Finish 30 12.10 2.00 10.10 1.8364 Si 3) d.)	grading (0-2.5 mph degrees feet feet feet acres/hou te Altitude: 6100 fe	n) - 1.5

REVEGETATION WORK

Task description:

Reveg of 35 acres

Peroulis Brothers Snake

Permit Action:

Site: River Pit

2015 Recalc

Permit/Job#: M2009079

PROJECT IDENTIFICATION

Task #:

007

State: County: Colorado

Abbreviation:

None

Date: 10/16/2015

User: ACY

Moffat

Filename:

M079-007

Agency or organization name: DRMS

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)		\$98.01
	Total Tilling Cost/Acre	\$98.01

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sheep Fescue - Azay	2.00	31.22	\$5.56
Milk Vetch, Cicer - Lutana	2.00	6.66	\$10.16
Thickspike Wheatgrass - Critana	1.50	5.30	\$7.76
Western Wheatgrass - Arriba	4.00	10.10	\$14.72
Needle and Thread	1.50	3.96	\$70.49
Needlegrass, Green - Lodorm	1.00	4.16	\$5.39
Totals Seed Mix	12.00	61.40	\$114.07

Application

Description		Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)		\$404.00
	Total Seed Application Cost/Acre	\$404.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Plateau @ 1.0 pt/ac	1.00	ACRE	\$16.60	\$16.60
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$546.60

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
Weed spray, truck, non-aquatic area, nox. [DMG]		\$61.49
	Total Mulch Application Cost/Acre	\$127.38

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		То	tals Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 35

Cost /Acre: \$1,290.06

Estimated Failure Rate: 45%

Cost /Acre*: \$1,290.06

*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$45,152.10

Reseeding Job Cost: \$20,318.45

Total Job Cost: \$65,471

Job Hours: **52.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:

Initial Mobilization

Peroulis Brothers Snake

Permit Action:

Site: River Pit

2015 Recalc

Permit/Job#: M2009079

PROJECT IDENTIFICATION

Task #:

008

State: County: Colorado

Abbreviation:

None

Date: User:

10/19/2015 **ACY**

Moffat

Filename:

M079-008

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Shift basis:

1 per day

Cost Data Source:

CRG Data

Truck Tractor Description:

GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description:

GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT

TRAILER (25T, 50T, AND 100T)

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 (TONS)	Cost/hr/ unit	Cost/hr/uni t	Size	Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Cat 627G w/push- pull	43.48	\$72.62	\$117.55	4	\$760.66	\$470.20	\$500.00
CAT 14M	23.57	\$42.03	\$88.67	1	\$130.70	\$88.67	\$250.00
Water Tanker, 7,000 Gal.	29.65	\$32.60	\$117.55	1	\$150.15	\$117.55	\$250.00
Cat D8T - 8SU	53.08	\$69.05	\$125.45	2	\$388.99	\$250.90	\$250.00

Subtotals: \$1,430.50 \$927.32

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 30K GVW	\$60.60	1	\$60.60	\$60.60
Light Duty Pickup, 4x4, 3/4 T.	\$37.87	1	\$37.87	\$37.87
Drill/Broadcast Seeder with Tractor	\$75.35	1	\$75.35	\$75.35
Power Mulcher (Reinco M90)	\$48.76	1	\$48.76	\$48.76

Subtotals: \$222.58 \$222.58

\$1,250.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: CRAIG, CO Total one-way travel distance: 40.00 Average Travel Speed:

miles 40.00 mph

Total Non-Roadable Mob/Demob Cost *

"* two round trips with haul rig:

Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig: \$10,076.64 \$445.16

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	1.00	1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.00	2.00

JOB TIME AND COST

Total job time: 6.00 Hours

Total job cost: \$10,522

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:

Secondary Seeding Mobilization

Peroulis Brothers Snake

Permit Action:

Site: River Pit

2015 Recalc

Permit/Job#: M2009079

PROJECT IDENTIFICATION

Task #:

009

10/19/2015

State: County: Colorado

Moffat

Abbreviation:

Filename:

None

M079-009

Date: User:

ACY

EQUIPMENT TRANSPORT RIG COST

Agency or organization name:

Shift basis:

1 per day

Cost Data Source:

CRG Data

Truck Tractor Description:

GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description:

GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT

TRAILER (25T, 50T, AND 100T)

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 Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/uni t	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
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Subtotals:

\$0.00

\$0.00

\$0.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Drill/Broadcast Seeder with Tractor	\$75.35	1	\$75.35	\$75.35
Light Duty Pickup, 4x4, 3/4 T.	\$37.87	1	\$37.87	\$37.87
Power Mulcher (Reinco M90)	\$48.76	1	\$48.76	\$48.76

Subtotals:

\$161.98

\$161.98

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig:

CRAIG, CO
miles
55.00
mph

** two round trips with haul rig:
Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$235.61

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.73	0.73
Return Time (Hours):	0.73	0.73
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.45	1.45

JOB TIME AND COST

Total job time:	1.45	Hours
Total job cost:	\$236	