

September 3, 2015

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



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

1313 Sherman Street, Room 215
Denver, CO 80203

RE: Peroulis Brothers Snake River Pit, Permit No. M-2009-079, Estimated Reclamation Costs Update

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 \$250,177. This is an increase of \$105,177 over the \$145,000 currently held by the Division. This estimate is based on conditions observed during the August 4, 2015 inspection. The current bond was calculated pre-construction in 2009. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

The current reclamation plan explicitly says that the operator will use hydroseeding and hydromulching. This detail was inadvertently missed and staff calculated reclamation cost based on traditional drill seeding and straw mulch. This error when corrected resulted in a significant increase in reclamation cost as compared to typical inflation and industry price changes. In a phone conversation with the operator on September 3, 2015 the implications of the specified reclamation requirements were discussed.

The operator should submit a Technical Revision, with the required \$216 revision fee, to change the methodology of reclamation plan to use drill seeding and crimped straw mulching at 2 tons/acre by November 3, 2015.

If no Technical Revision is received by November 3, 2015 than it is the Divisions understanding that the operator has no objections to the bond calculated on August 18, 2015 for the amount of \$250,177 according the current permit conditions. At that time a Notice for Surety Increase will be issued for the above amount as required by the Act and Rules.

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

Task description: Post Inspection

Site: Peroulis Brothers Snake River Pit

Permit Action: 2015 Recalc

Permit/Job#: M2009079

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 8/10/2015

County: Moffat

Filename: M079-000

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a <u>2</u>	Backfill Highwalls 4600ft	SCRAPER1	1	64.70	\$52,757.00
02a <u>3</u>	Final 3:1 slope establishment	DOZER	1	8.26	\$1,793.00
03a <u>4</u>	Rip 30 acres of pit floor	RIPPER	1	46.75	\$10,413.00
04a <u>5</u>	Topsoil 35 acres	SCRAPER1	1	23.06	\$13,275.00
05a <u>6</u>	Final Site Grading	GRADER	1	22.42	\$3,142.00
06a <u>7</u>	Reveg of 35 acres	REVEGE	1	50.00	\$102,477.00
07a <u>8</u>	Initial Mobilization	MOBILIZE	1	6.00	\$9,530.00
08a <u>9</u>	Secondary Seeding Mobilization	MOBILIZE	1	1.45	\$306.00
09a <u>1</u>	Demo of Loadscales and office	DEMOLISH	1	10.00	\$2,600.21
10a	Fencing Reclamation	DEMOLISH	1	32.00	\$6,494.00
<u>SUBTOTALS:</u>				264.64	\$ \$202,787

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 113.04
Profit: 10.00

Total = \$4,096.30

Total = \$2,129.26

Total = \$8,496.09

Total = \$20,278.70

TOTAL O & P = \$35,000.35

CONTRACT AMOUNT (direct + O & P) = \$237,787.35

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00
Engineering work and/or contract/bid preparation: 0.00
Reclamation management and/or administration: 5.00

Total = 500.00

Total = \$0.00

\$11,889.37

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$47,389.72

TOTAL BOND AMOUNT (direct + indirect) = \$250,176.72

Rounded to: \$250,177.00

SCRAPER TEAM WORKTask description: **Backfill Highwalls 4600ft**Site: **Peroulis Brothers Snake
River Pit**Permit Action: **2015 recalc**Permit/Job#: **M2009079****PROJECT IDENTIFICATION**Task #: **01A**
Date: **8/10/2015**
User: **ACY**State: **Colorado**
County: **Moffat**Abbreviation: **None**
Filename: **M079-01a**Agency or organization name: **DRMS****HOURLY EQUIPMENT**COSTShift basis: **1 per day**

		Equipment Description
	-Scraper:	Cat 627G
	-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	100	50
Ownership cost/hour:	\$69.99	NA	NA	NA	\$42.03	\$32.60
Operating cost/hour:	\$184.31	NA	NA	NA	\$69.88	\$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:	\$287.87	NA	NA	NA	\$136.37	\$103.29
Number of Units:	2	0	0	0	1	1
Group Subtotals:	Work:	\$575.74	Support:	\$0.00	Maint:	\$239.66

Total work team cost/hour: **\$815.40****MATERIAL QUANTITIES**Initial volume: **52,134**

CCY

Swell factor: **1.000**Loose volume: **52,134**

LCY

Source of estimated volume: **Division of Reclamation, Mining & Safety**
Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**Material weight: **2,550 lbs/LCY**
Material description: **Earth - Dry packed**
Rated Payload: **52,800 pounds**
Payload Capacity: **20.71 LCY**Struck Volume: **15.70** LCY
Heaped Volume: **22.00** LCY
Average Volume: **18.85** LCY
Adjusted Capacity: **18.85** LCY

Cycle Time:Scraper Loading Time: 0.70 MinutesManeuver and Spread Time: 0.60 MinutesJob 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 5.0Haul 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	0.42
2	200.00	16.00	5.00	21.00	537	0.30

Haul Time: 0.72 minutesReturn 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 minutesTotal Scraper team cycle time: 2.33 minutesAdjusted for job conditions: 402.89 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 805.78 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 805.78 LCY/HourUnadjusted unit production/hour: 485.41 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 64.70 HoursUnit cost: \$1.012 /LCYTotal job cost: \$52,757

BULLDOZER WORKTask description: **Final 3:1 slope establishment**Site: **Peroulis Brothers Snake
River Pit**Permit Action: **2015 Recalc**Permit/Job#: **M2009079****PROJECT IDENTIFICATION**Task #: **02A**State: **Colorado**Abbreviation: **None**Date: **8/10/2015**County: **Moffat**Filename: **M079-02a**User: **ACY**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D8T - 8U**Horsepower: **310**Blade Type: **Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
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: **Division of Reclamation, Mining & Safety**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **60 feet**Unadjusted hourly production: **1,438.4 LCY/hr**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**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)

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: 1,241.34 LCY/hr
Adjusted fleet production: 1241.34 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.175/LCY

Total job time: 8.26 Hours
Total job cost: \$1,793

BULLDOZER RIPPING WORK

Task description: Rip 30 acres of pit floor

Peroulis Brothers Snake
Site: River Pit

Permit Action:

2015 Recalc

Permit/Job#: M2009079

PROJECT IDENTIFICATION

Task #: 03A

State: Colorado

Abbreviation: None

Date: 8/11/2015

County: Moffat

Filename: M079-03a

User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8U
Ripper Attachment: 3-Shank Ripper

Horsepower: 310

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$69.05	NA
Operating Cost/Hour:	\$108.22	100
Ripper Operating Cost/Hour:	\$7.46	100
Operator Cost/Hour:	\$38.01	NA
Total Unit Cost/Hour:	\$222.73	
Total Fleet Cost/Hour:	\$222.73	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 30.00 acres Rip Depth (ft): 2.00 Volume: 96,800 BCY or CCY

Source of estimated quantity: Standard depth, 30 ac pit floor

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>2.00</u>	mph
Average Ripping Width:	<u>7.08</u>	degrees
Average Ripping Length:	<u>200.00</u>	feet
Average Dozer Speed:	<u>88.00</u>	feet
Average Maneuver Time:	<u>0.25</u>	feet
Production per unit area:	<u>0.773</u>	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.773</u>	Acres/hr
Site Altitude:	<u>6,100</u>	feet
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier
Adjusted Hourly Unit Production:	<u>0.64</u>	Acres/hr
Adjusted Hourly Fleet Production:	<u>0.64</u>	Acres/hr

JOB TIME AND COST

Fleet size: <u>1</u>	Grader(s)	Total job time: <u>46.75</u>	Hours
Unit cost: <u>\$347.092</u>	Per acre	Total job cost: <u>\$10,413</u>	

SCRAPER TEAM WORKTask description: **Topsoil 35 acres**Site: **Peroulis Brothers Snake
River Pit**Permit Action: **2015 recalc**Permit/Job#: **M2009079****PROJECT IDENTIFICATION**Task #: **04A**State: **Colorado**Abbreviation: **None**Date: **8/11/2015**County: **Moffat**Filename: **M079-04a**User: **ACY**Agency or organization name: **DRMS****HOURLY EQUIPMENT**COSTShift basis: **1 per day**

		Equipment Description
	-Scraper:	Cat 627G
	-Dozer:	NA
Support Equipment -Load Area:		NA
	-Dump Area:	NA
Road Maintenance -Motor Grader:		NA
	-Water Truck:	NA

<u>Cost Breakdown:</u>	Scraper Work Team		Support Equipment		Maintenance Equipment	
	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$69.99	NA	NA	NA	NA	NA
Operating cost/hour:	\$184.31	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$33.56	NA	NA	NA	NA	NA
Unit Subtotals:	\$287.87	NA	NA	NA	NA	NA
Number of Units:	2	0	0	0	0	0
Group Subtotals:	Work:	\$575.74	Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: **\$575.74****MATERIAL QUANTITIES**Initial volume: **18,822**

CCY

Swell factor: **1.000**Loose volume: **18,822**

LCY

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:

Scraper Loading Time: 0.70 Minutes
 Maneuver and Spread Time: 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 5.0Haul 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	0.28

Haul Time: 0.69 minutesReturn 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: 2.30 minutes
 Adjusted for job conditions: 408.14 LCY/Hour
 Selected Number of Scrapers: 2 Scraper(s)
 Adjusted single scraper team (unit) hourly production: 816.29 LCY/Hour
 Adjusted multiple scraper team (fleet) hourly production: 816.29 LCY/Hour

Unadjusted unit production/hour: 491.74 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 23.06 HoursUnit cost: \$0.705 /LCYTotal job cost: \$13,275

MOTOR GRADER WORK

Task description: Final Site Grading

Site: Peroulis Brothers Snake
River Pit

Permit Action: 2015 Recalc

Permit/Job#: M2009079

PROJECT IDENTIFICATION

Task #: 05A
Date: 8/11/2015
User: ACY

State: Colorado
County: Moffat

Abbreviation: None
Filename: M079-05a

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: CAT 14M
Ripper Attachment: Multi-Shank Ripper

Horsepower: 259
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$45.44	NA
Operating Cost/Hour:	\$69.88	100
Ripper Operating Cost/Hour:	\$0.36	10
Operator Cost/Hour:	\$24.47	NA
Total Unit Cost/Hour:	\$140.14	
Total Fleet Cost/Hour:	\$143.34	

MATERIAL QUANTITIES

Total Area to be graded or ripped: 35.00 acres

Source of estimated acreage: Reclamation Plan

HOURLY PRODUCTION

Average Grader Speed: 1.50 mph
Selected Application: Finish grading (0-2.5 mph) - 1.5
Selected Blade Angle: 30 degrees
Effective Blade Length: 12.10 feet
Width of blade overlap per pass: 2.00 feet
Net grading or ripping width per pass: 10.10 feet
Unadjusted Hourly Unit Production: 1.8364 acres/hour

Job Condition Correction Factors

Site Altitude: 6100 feet

Altitude Adj:	<u>1.00</u>	Source
Job Efficiency:	<u>0.85</u>	(CAT HB)
Net Correction:	<u>0.8500</u>	(1sh/d, mod.)
		multiplier

Adjusted Hourly Unit Production: 1.5609 acres/Hour
Adjusted Hourly Fleet Production: 1.5609 acres/Hour

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 22.42 Hours

Unit cost: \$89.78 per acre Total job cost: \$3,142

REVEGETATION WORKTask description: Reveg of 35 acresSite: Peroulis Brothers Snake
River PitPermit Action: 2015 RecalcPermit/Job#: M2009079PROJECT IDENTIFICATIONTask #: 06A
Date: 8/11/2015
User: ACYState: Colorado
County: MoffatAbbreviation: None
Filename: M079-06aAgency or organization name: DRMSFERTILIZINGMaterials

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	4.00	62.44	\$11.12
Milk Vetch, Cicer - Lutana	4.00	13.31	\$20.32
Thickspike Wheatgrass - Critana	3.00	10.61	\$15.51
Western Wheatgrass - Arriba	8.00	20.20	\$29.44
Needle and Thread	3.00	7.92	\$140.97
Needlegrass, Green - Lodorm	2.00	8.31	\$10.78
Totals Seed Mix	24.00	122.80	\$228.14

Application

Description	Cost /Acre
Hydro seeding (MEANS 32 92 19.14 0200)	\$847.24
Total Seed Application Cost/Acre	\$847.24

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
Hydromulch tackifier, >15 ac. {Materials Only}	1.00	ACRE	\$153.53	\$153.53
Total Mulch Materials Cost/Acre				\$170.13

Application

Description	Cost /Acre
Hydromulching (MEANS 32 92 19.14 0200)	\$847.24
Weed spray, truck, non-aquatic area, nox. [DMG]	\$61.49
Total Mulch Application Cost/Acre	\$908.73

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

No. of Acres: 35 Cost /Acre: \$2,252.25
 Estimated Failure Rate: 30% Cost /Acre*: \$2,252.25
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$78,828.75
 Reseeding Job Cost: \$23,648.63
 Total Job Cost: \$102,477
 Job Hours: 50.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **Peroulis Brothers Snake
River Pit**Permit Action: **2015 Recalc**Permit/Job#: **M2009079****PROJECT IDENTIFICATION**Task #: **07A**
Date: **8/11/2015**
User: **ACY**State: **Colorado**
County: **Moffat**Abbreviation: **None**
Filename: **M079-07a**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 Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat 627G	41.80	\$69.99	\$117.55	2	\$375.09	\$235.10	\$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 - 8U	48.33	\$62.67	\$117.55	2	\$360.44	\$235.10	\$250.00
Broderson IC-200- 2F, 45', 13.6MT	8.68	\$9.68	\$88.67	1	\$98.35	\$88.67	\$250.00

Subtotals: **\$1,114.73** **\$765.09** **\$1,500.00****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
Hydroseeder with Tractor	\$172.18	1	\$172.18	\$172.18

Subtotals: **\$270.65** **\$270.65**

EQUIPMENT HAUL DISTANCE and Time

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

Total Non-Roadable Mob/Demob Cost *	\$8,989.10
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$541.30
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable 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:	\$9,530
-----------------	---------

EQUIPMENT MOBILIZATION/DEMobilIZATIONTask description: **Secondary Seeding Mobilization**Site: **Peroulis Brothers Snake
River Pit**Permit Action: **2015 Recalc**Permit/Job#: **M2009079****PROJECT IDENTIFICATION**Task #: **08A**State: **Colorado**Abbreviation: **None**Date: **8/11/2015**County: **Moffat**Filename: **M079-08a**User: **ACY**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 Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
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
Hydroseeder with Tractor	\$172.18	1	\$172.18	\$172.18
Light Duty Pickup, 4x4, 3/4 T.	\$37.87	1	\$37.87	\$37.87
Subtotals:			\$210.05	\$210.05

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	CRAIG, CO	
Total one-way travel distance:	40.00	miles
Average Travel Speed:	55.00	mph

Total Non-Roadable Mob/Demob Cost *	\$0.00
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$305.53
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable 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:	\$306
-----------------	-------

DEMOLITION WORK

Task description: Demo of Loadscale and office

Peroulis Brothers Snake
Site: River Pit

Permit Action:
2015 Recalc

Permit/Job#: M2009079

PROJECT IDENTIFICATION

Task #: 09A
Date: 8/11/2015
User: ACY

State: Colorado
County: Moffat

Abbreviation: None
Filename: M079-09a

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. 50 ft. push	10.00	LF	\$6.80	\$68.00
Remove Scale Hoist	105' x 15'	Broderson IC-200-2F, 45', 13.6MT	3.00	EA	\$81.42	\$244.26
Concrete Pad Scale Removal	2 x 20' x 15'	Floor, concrete, demolition only, average reinforcing - 4 in. thick	300.00	SF	\$1.08	\$324.00
Concrete Disposal	300 SF	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	3.00	CY	\$0.49	\$1.47
Office removal	15' x 20' x 10'	Bldg. (SC) demo./on-site disposal in existing pit or cut - Max. 50 ft. push	3,000.00	CF	\$0.22	\$663.00
recycle Scale	105'	Loading and 5 mile haul, salvage allowed - Steel frame structures	150.00	CY	\$9.48	\$1,422.00

Job Hours: 10.00

Subtotal
(unadjusted): \$2,722.73

Total Cost
(adjusted for location): \$2,600.21

DEMOLITION WORK

Task description: Fencing Reclamation

Peroulis Brothers Snake
Site: River Pit

Permit Action:
2015 Recalc

Permit/Job#: M2009079

PROJECT IDENTIFICATION

Task #: 10A
Date: 8/11/2015
User: ACY

State: Colorado
County: Moffat

Abbreviation: None
Filename: M079-10a

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
Fencing	1000'x1500'	Fencing, barbed wire, - 3 strand	5,000.00	LF	\$1.36	\$6,800.00

Job Hours: 32.00

Subtotal
(unadjusted): \$6,800.00

Total Cost
(adjusted for location): \$6,494.00