



COLORADO
**Division of Reclamation,
Mining and Safety**
Department of Natural Resources
1313 Sherman Street, Room 215
Denver, CO 80203

July 24, 2019

Paul Martinez
Martinez Western Constructors, Inc.
718 Railroad Ave
Rifle, CO 81650

Re: Ducray Pit #2, File No. M-2019-035, Construction Material Limited Impact (110) Reclamation Permit Application, Financial Warranty-Reclamation Cost Estimate

Dear Mr. Martinez:

On May 22, 2019 the Colorado Mined Land Reclamation Board found Martinez Western Construction, Inc. in violation of C.R.S. 34-32.5-124 and issued MV-2019-009 (see attached).

Corrective Action #1 within thirty days of the effective date of this order, the Operator shall file a new application for a 110c permit and associated fee, and obtain approval and issuance within 30 days of the filing date for reclamation only activities; and

Corrective Action #2 within thirty days of the effective date of this order, the Operator shall submit to the Division an appropriately executed interim financial warranty totaling \$6,339, as necessary to address the existing reclamation liability. As part of the review process the 110c application, the Division shall adjust the amount of financial warranty accordingly to the conditions of the approved reclamation plan.

To date the Division has not received the required interim bond in the amount of \$6,339 to satisfy corrective action #2. As part of the permit review process the Division has recalculated the reclamation cost estimate as per the conditions of the permit application.

The amount of financial warranty set by the Division for this operation is an amount of \$6,447. A financial warranty of the entire amount, as well as a performance warranty, must be submitted to the Division before a Reclamation Permit may be issued. Corrective Action #1 requires issuance of the permit within thirty days of the filing date which is July 30, 2019.

Please select a type of financial warranty from those detailed in Rule 4.3. Once a financial warranty type is selected, please download the applicable financial warranty and performance warranty forms from the Division's website <http://mining.state.co.us/Mineral%20Forms.htm>. You may also contact the Division to have copies of your selected warranty forms mailed to you.



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

PLEASE NOTE THAT MINING/RECLAMATION OPERATIONS MAY NOT COMMENCE UNTIL A PERMIT HAS BEEN ISSUED BY THE DIVISION AFTER RECEIPT OF THE FINANCIAL AND PERFORMANCE WARRANTIES. A PERMIT WILL NOT BE ISSUED UNTIL THE ADEQUACY OF BOTH THE FINANCIAL WARRANTY AND PERFORMANCE WARRANTY ARE VERIFIED BY THE DIVISION.

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 3030-866-3567 Ext 8183 or via email at amy.yeldell@state.co.us

Sincerely,



Amy Yeldell
Environmental Protection Specialist

Ec:
Travis Marshall, Senior EPS, Grand Junction DRMS

Enclosures:
MLRB Board Order, Violation No. MV-2019-009
Reclamation Cost Estimate



COLORADO

Division of Reclamation,
Mining and Safety

Department of Natural Resources

1313 Sherman Street, Room 215
Denver, CO 80203

May 30, 2019

Paul Martinez
Martinez Western Constructor, Inc.
355 Village Drive
Rifle, CO 81650

Re: Findings of Fact, Conclusions of Law, and Order, Martinez Western Constructor, Inc.
File No. M-2018-018, MV-2019-009

On May 22, 2019 the Mined Land Reclamation Board signed the enclosed Board Order for the above captioned operation. We strongly advise that you read this document carefully since it may contain deadlines for corrective actions, civil penalties, cease and desist orders or other actions that may require your immediate attention to avoid future board actions.

Sincerely,



Camille Mojar
Board Administrator

Enclosure(s)

Certified Mail

7017 2400 0000 9205 7332

cc:

Amy Yeldell
Travis Marshall
Jeff Fugate
Scott Schultz
Charles Kooyman



BEFORE THE MINED LAND RECLAMATION BOARD
STATE OF COLORADO

Violation No. MV-2019-009

FINDINGS OF FACT, CONCLUSIONS OF LAW, AND ORDER

IN THE MATTER OF A POSSIBLE VIOLATION BY MARTINEZ WESTERN CONSTRUCTORS, INC., CEASE AND DESIST ORDER, CORRECTIVE ACTIONS, AND CIVIL PENALTIES FOR FAILING TO COMPLY WITH THE CONDITIONS OF A BOARD ORDER, File No. M-2018-018

THIS MATTER came before the Mined Land Reclamation Board ("Board") on April 24, 2019 in Denver, Colorado to consider the possible violation by Martinez Western Constructors, Inc. ("Operator"), cease and desist order, corrective actions, and civil penalties for failing to comply with the conditions of a Board order, file number M-2018-018. Amy Yeldell appeared on behalf of the Division of Reclamation, Mining and Safety ("Division"). Paul Martinez appeared on behalf of Operator.

The Board, being fully informed of the facts in the matter, hereby enters the following:

FINDINGS OF FACT

1. The Operator operates a sand and gravel operation located in Section 6, Township 1 South, Range 1 West, Mesa County, Colorado, file number M-2018-018. The site is known as the Ducray Pit.
2. In an order effective August 27, 2018 ("August 2018 Order"), the Board found Operator in violation of section 34-32.5-109(1), C.R.S. for failing to obtain a reclamation permit prior to engaging in a new mining operation. The Board also assessed a civil penalty of \$58,566.40, with all but \$566.40 suspended, and imposed a corrective action requiring Operator to submit a 110 application to the Division within 30 days of the August 2018 Order with all materials in approvable form.
3. Operator failed to submit the 110 application and pay the unsuspended civil penalty on September 26, 2018, the deadline from the August 2018 Order.
4. Operator submitted the required 110 application to the Division on October 1, 2018, which commenced the thirty-day review period for the application.
5. At the end of the thirty-day review period, Operator requested and was granted an extension of the review period to February 28, 2019.

6. Operator paid the unsuspended portion of the civil penalties on January 4, 2019.

7. On March 12, 2019, the Division provided written notice that it denied Operator's 110 reclamation permit application and rationale for that decision. In its rationale for denial, the Division explained that Operator had failed to follow the notice procedures of Rule 1.6.2 and had failed to comply with Rule 6.3.12's requirements regarding permanent man-made structures located within 200 feet of the permit boundaries.

8. On March 15, 2019, the Division sent Operator a Reason to Believe a Violation Exists letter regarding Operator's failure to comply with the August 2018 Order and providing notice that the Board would consider the possible violation at its meeting on April 24, 2019.

9. At the April 24, 2019 hearing, the Division provided testimony regarding the history of Operator's violations, its 110 permit application, and the reasons for the Division's denial of the application. The Division indicated that the Operator was working to and could address the adequacy issues with its first application and that they were close to completing the application process.

10. The Operator, through Paul Martinez, testified that it was committed to restarting the application process and that it understood the requirements.

CONCLUSIONS OF LAW

11. The Board has jurisdiction over this matter pursuant to the Colorado Land Reclamation Act for the Extraction of Construction Materials, Article 32.5 of Title 34, C.R.S. (2018) ("Act").

12. Sections 34-32.5-124(1), C.R.S. requires compliance with Board orders, permits, and regulations. By failing to comply with the corrective action contained in the Board's August 2018 Order, the Operator has violated section 34-32.5-124(1).

13. Pursuant to section 34-32.5-124(2), C.R.S., the Board may issue a cease and desist order when it finds that an operator has failed to comply with any provision of the Act, a permit, or regulation.

14. Regarding Violation No. MV-2018-022, the Board's August 2018 Order assessed a civil penalty of \$58,566.40 with all but \$566.40 suspended if the Operator complied with the corrective actions in the time specified. The Operator failed to comply with Corrective Action of the August 2018 Order. Therefore the previously suspended portion of the civil penalty, \$58,000, is due immediately.

ORDER

Based on the foregoing findings of fact and conclusions of law, the Board finds the Operator in violation of section 34-32.5-124, C.R.S. for failing to comply with the conditions of the August 2018 Order.

The Board affirms the cease and desist order issued in the August 2018 Order. Martinez Western Constructors shall CEASE AND DESIST any further activities on the affected lands, except those activities approved in writing by the Division, necessary to comply with the conditions of the Board's Order, prevent damage to off-site areas, or protect the public health and safety.

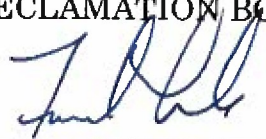
The Board imposes the following CORRECTIVE ACTIONS against the Operator:

- (1) Within thirty days of the effective date of this order, the Operator shall file a new application for a 110c permit and associated fee, and obtain approval and issuance within thirty days of the filing date for reclamation only activities; and
- (2) Within thirty days of the effective date of this order, the Operator shall submit to the Division an appropriately executed interim financial warranty totaling \$6,339, as necessary to address the existing reclamation liability. As part of the review process of the 110c application, the Division shall adjust the amount of financial warranty according to the conditions of the approved reclamation plan.

The Board affirms and continues the outstanding CIVIL PENALTY assessed for violation MV-2018-022, in the amount of \$58,000. All of the civil penalty is suspended if Operator complies with the corrective actions contained in this order in the time specified.

DONE AND ORDERED this 22nd day of May 2019.

FOR THE COLORADO MINED LAND
RECLAMATION BOARD



Forrest Luke, Chair

NOTICE OF APPEAL RIGHTS

This order becomes effective and final upon mailing. Any party adversely affected or aggrieved by agency action may commence an action for judicial review by filing a notice of appeal with the district court within thirty-five (35) days after the effective date of this order, pursuant to section 24-4-106, C.R.S. (2018). In the event that an appeal is filed, designations of record made in accordance with section 24-4-106(6), C.R.S. should be served on the Board at 1313 Sherman Street, Room 215, Denver, CO 80203, Attention: Camie Mojar.

CERTIFICATE OF SERVICE

This is to certify that I have duly served the within FINDINGS OF FACT, CONCLUSIONS OF LAW, AND ORDER upon all parties herein by depositing copies of same in the United States mail, first-class postage prepaid, at Denver, Colorado, this 30th day of 2019 addressed as follows:

By certified mail:

7017 2400 0000 9205 7332

Paul Martinez
Martinez Western Constructor, Inc.
355 Village Drive
Rifle, CO 81650

By electronic mail to:

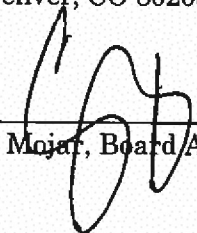
Amy Yeldell
Division of Reclamation, Mining & Safety
101 South 3rd, Suite 301
Grand Junction, CO 81501

Travis Marshall
Division of Reclamation, Mining & Safety
101 South 3rd, Suite 301
Grand Junction, CO 81501

Charles J. Kooyman
Senior Assistant Attorney General
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First Assistant Attorney General
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Denver, CO 80203

Scott Schultz
Assistant Attorney General
Department of Law
Natural Resources Section
Ralph L. Carr Colorado Judicial Center
1300 Broadway, 10th floor
Denver, CO 80203



Camille Mojar, Board Administrator

COST SUMMARY WORK

Task description: New Permit Calc

Site: Ducray Pit #2

Permit Action: App

Permit/Job#: M2019035

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 7/24/2019

County: Mesa

Filename: M035-ACY

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Highwall Reduction	EXCAVATE	1	2.96	\$249
02a	Sediment pond and stormwater berms	EXCAVATE	1	1.18	\$100
03a	Seeding disturbed areas	REVEGE	1	4.00	\$2,307
04a	Initial Mobilization	MOBILIZE	1	2.22	\$1,523
04b	Secondary Mobilization	MOBILIZE	1	2.22	\$830
<u>SUBTOTALS:</u>				12.58	\$5,009

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$101

Performance bond: 1.05

Total = \$53

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$501

TOTAL O & P = \$655

CONTRACT AMOUNT (direct + O & P) = \$5,664

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$283

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$1,438

TOTAL BOND AMOUNT (direct + indirect) = \$6,447

HYDRAULIC EXCAVATOR WORK

Task description: Highwall Reduction

Site: Ducray Pit #2 Permit Action: App Permit/Job#: M2019035

PROJECT IDENTIFICATION

Task #: 01A State: Colorado Abbreviation: None
Date: 7/24/2019 County: Mesa Filename: M035-01a
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat 307D 7'-3" Stick Horsepower: 56
Attachment 1: ROPS Cab Weight (MT): 7.23
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$20.81</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$17.93</u>	<u>100</u>
Operator Cost/Hour:	<u>\$45.39</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$84.12</u>	
Total Fleet Cost/Hour:	<u>\$84.12</u>	

MATERIAL QUANTITIES

Initial volume: 75 CCY Swell factor: 1.180
Loose volume: 89 LCY

Source of estimated volume: 125 LF @ 4'H 1:1 to 3"1 backfill
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty):

Basic Job Condition Description: SEVERE
Secondary Job Condition within Basic Description: SEVERE
Cycle Time Value: 0.325 minutes

Load Bucket Capacity

Rated Capacity: 0.20 LCY (heaped) Bucket Size Class: Small
Bucket Fill Factor: 0.975 Sand and gravel (95% - 100%) 0.975
Adjusted Capacity: 0.20 LCY

Job Condition Correction Factors

Site Altitude: 4580 feet

		Source
Altitude Adj:	<u>1.00</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.83</u>	<u>multiplier</u>

Unadjusted Hourly Unit Production: 36.00 LCY/Hour
Adjusted Hourly Unit Production: 29.88 LCY/Hour
Adjusted Hourly Fleet Production: 29.88 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 2.96 Hours
Unit cost: \$2.815 /LCY Total job cost: \$249

Highwall reduction - backfill

North/West Highwall slope

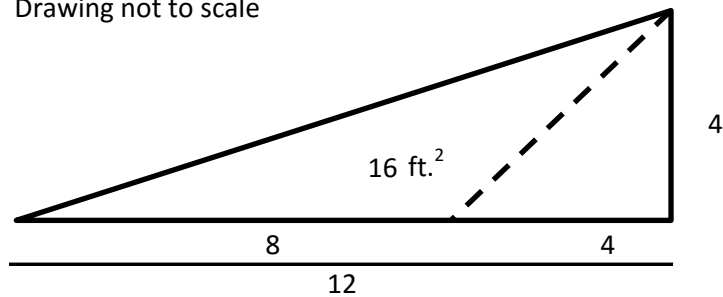
Highwall Height (ft.)	4.00
Length of Highwall (ft.)	125.00
- - - - Initial Slope	1.00 H:1V
———— Desired Slope	3.00 H:1V

Volume of material to be moved (ft.³) **2,000**

Volume of material to be moved (yd.³) **74**

All dimensions measured in feet

Drawing not to scale



HYDRAULIC EXCAVATOR WORK

Task description: Sediment pond and stormwater berms

Site: Ducray Pit #2 Permit Action: App Permit/Job#: M2019035

PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None
Date: 7/24/2019 County: Mesa Filename: M035-02a
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat 307D 7'-3" Stick Horsepower: 56
Attachment 1: ROPS Cab Weight (MT): 7.23
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$20.81</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$17.93</u>	<u>100</u>
Operator Cost/Hour:	<u>\$45.39</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$84.12</u>	
Total Fleet Cost/Hour:	<u>\$84.12</u>	

MATERIAL QUANTITIES

Initial volume: 30 CCY Swell factor: 1.180
Loose volume: 35 LCY

Source of estimated volume: 28 yrs sediment pond, 2 yrds or berming/grading
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty):

Basic Job Condition Description: SEVERE
Secondary Job Condition within Basic Description: SEVERE
Cycle Time Value: 0.325 minutes

Load Bucket Capacity

Rated Capacity: 0.20 LCY (heaped) Bucket Size Class: Small
Bucket Fill Factor: 0.975 Sand and gravel (95% - 100%) 0.975
Adjusted Capacity: 0.20 LCY

Job Condition Correction Factors

Site Altitude: 4580 feet

		Source
Altitude Adj:	<u>1.00</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.83</u>	<u>multiplier</u>

Unadjusted Hourly Unit Production: 36.00 LCY/Hour
Adjusted Hourly Unit Production: 29.88 LCY/Hour
Adjusted Hourly Fleet Production: 29.88 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 1.18 Hours
Unit cost: \$2.815 /LCY Total job cost: \$100

Trench Volume

Excavated sediment pond

Top Width of Trench (ft.) 14.0

Top Bottom of Trench (ft.) 1.0

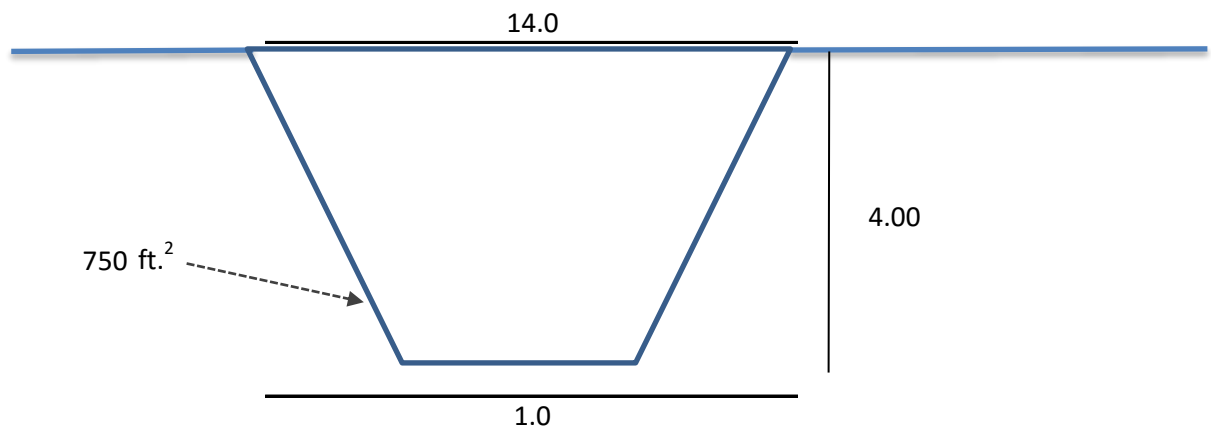
Length of Highwall (ft.) 25

Trench Height (ft.) 4.0

Length of the original channel path
within the permitted boundary

Total volume of material to be moved (ft.³) **750**

Total Volume of material to be moved (yd.³) **28**



All dimensions measured in feet

Drawing not to scale

REVEGETATION WORKTask description: Seeding disturbed areasSite: Ducray Pit #2Permit Action: AppPermit/Job#: M2019035**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 7/24/2019County: MesaFilename: M035-03aUser: ACYAgency 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)	\$101.93
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
Total Tilling Cost/Acre	\$295.53

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.20	7.81	\$5.70
Indian Ricegrass - Native	7.40	23.95	\$48.10
Sand Dropseed	0.20	23.88	\$1.95
Great Basin Wildrye - Magnar	2.00	8.13	\$23.10
Bottlebrush Squirreltail	4.80	21.16	\$77.88
Galleta	2.00	7.30	\$44.70
Western Wheatgrass - Rosanna	3.00	7.58	\$17.25
Saltbush, Four Wing	5.40	7.44	\$67.50
Globemallow, Scarlet (or copper)	1.00	11.32	\$135.50

Saltbush, Shadscale	4.00	5.97	\$40.00
Winter Fat	4.80	12.23	\$98.40
Totals Seed Mix	34.80	136.76	\$560.08

Application

Description	Cost /Acre
Hydro seeding (MEANS 32 92 19.14 0200)	\$947.43
Total Seed Application Cost/Acre	\$947.43

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$2.74	\$2.74
Tackifier, <10 acres {Materials Only}	1.00	ACRE	\$453.02	\$453.02
Total Mulch Materials Cost/Acre				\$455.76

Application

Description	Cost /Acre
NA-mulch application incl. with hydroseeding	\$0.00
Weed spray, truck, non-aquatic area, nox. [DMG]	\$71.50
Total Mulch Application Cost/Acre	\$71.50

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: 0.66 Cost /Acre: \$2,330.30
 Estimated Failure Rate: 50% Cost /Acre*: \$2,330.30
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$1,538.00**
 Reseeding Job Cost: **\$769.00**
 Total Job Cost: **\$2,307**
 Job Hours: **4.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **Ducray Pit #2**Permit Action: **App**Permit/Job#: **M2019035****PROJECT IDENTIFICATION**Task #: **04A**State: **Colorado**Abbreviation: **None**Date: **7/24/2019**County: **Mesa**Filename: **M035-04a**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:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

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 307D 7'-3" Stick	7.95	\$20.81	\$67.39	1	\$88.20	\$67.39	\$250.00
Hydroseeder with Tractor	28.00	\$23.59	\$123.81	1	\$147.40	\$123.81	\$250.00
Subtotals:					\$235.60	\$191.20	\$500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$41.16	1	\$41.16	\$41.16
Subtotals:			\$41.16	\$41.16

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	<u>2.50</u>	miles
Average Travel Speed:	<u>45.00</u>	mph
Total Non-Roadable Mob/Demob Cost *	\$1,518.62	
'* two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	<u>\$4.57</u>	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.06	0.06
Return Time (Hours):	0.06	0.06
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.11	0.11

JOB TIME AND COST

Total job time:	<u>2.22</u>	Hours
Total job cost:	<u>\$1,523</u>	

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Secondary Mobilization**Site: **Ducray Pit #2**Permit Action: AppPermit/Job#: M2019035**PROJECT IDENTIFICATION**Task #: 04BState: ColoradoAbbreviation: NoneDate: 7/24/2019County: MesaFilename: M035-04bUser: ACYAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck 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:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

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
Hydroseeder with Tractor	28.00	\$23.59	\$123.81	1	\$147.40	\$123.81	\$250.00

Subtotals: **\$147.40** **\$123.81** **\$250.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$41.16	1	\$41.16	\$41.16

Subtotals: **\$41.16** **\$41.16**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	<u>2.50</u>	miles
Average Travel Speed:	<u>45.00</u>	mph
Total Non-Roadable Mob/Demob Cost *	\$824.93	
'* two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	<u>\$4.57</u>	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.06	0.06
Return Time (Hours):	0.06	0.06
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.11	0.11

JOB TIME AND COST

Total job time:	<u>2.22</u>	Hours
Total job cost:	<u>\$830</u>	