

STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY
Department of Natural Resources

1313 Sherman St., Room 215
Denver, Colorado 80203
Phone: (303) 866-3567
FAX: (303) 832-8106



John W. Hickenlooper
Governor

Mike King
Executive Director

Loretta Piñeda
Director

August 16, 2012

Mr. Glen Williams
Cotter Corporation
P.O. Box 700
Nucla, CO 81424

Re: C-JD-8, Permit No. M-1984-014, Financial Warranty Increase, Revision No. SI-1

Dear Mr. Williams:

On August 16, 2012 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$69,950.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$28,759.00 that reflects a general required update and revisions to the permit under AM-01, the inclusion of an Environmental Protection Plan.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, is required within 60 days from the date of this letter, October 15, 2012. Please contact Barbara Coria in our Denver Office regarding questions on forms, submittals, and other questions regarding the financial warranties. She can be reached at 303.866.3567, Ext. 8148, or by e-mail at Barbara.Coria@state.co.us.

If you need additional information please contact me at the Division of Reclamation, Mining and Safety, Grand Junction Field Office, 101 S. 3rd St., Suite 301, Grand Junction, Colorado 81501, by telephone at 970.241.1117, or by e-mail at Russ.Means@state.co.us.

Sincerely,

A handwritten signature in blue ink that reads "G. Russell Means".

G. Russell Means
Senior Environmental Protection Specialist
West Slope Field Office Supervisor
Grand Junction / Durango

Enclosed: Reclamation Liability Update: 8/16/12-GRM

Ec: Barbara Coria, DRMS Bonding Specialist

COST SUMMARY WORK

Task description: Reclamation Liability- EPP-2012

Site: C-JD-8

Permit Action: 2012 EPP AM-01

Permit/Job#: M1984014

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 7/16/2012

County: Montrose

Filename: M014-000

User: GRM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Demo mine structures and infa structure	DEMOLISH	1	0.00	\$7,963.95
002	Seal portal and vents	MINESEAL	1	32.00	\$5,383.78
003	remove ore pad bedding materials	LOADER	1	5.36	\$573.00
004	recontour waste piles and stormwater structures	DOZER	1	4.59	\$1,224.21
005	rip compacted areas and vent access roads	RIPPER	1	10.40	\$2,772.00
006	push topsoil over disturbed areas	DOZER	1	23.97	\$6,388.60
007	spot 50% of topsoil for dozer	LOADER	1	18.97	\$2,027.00
008	reveg of 13.65 acres affected lands	REVEGE	1	40.00	\$23,400.88
009	mobilization to site	MOBILIZE	1	4.48	\$2,490.49
<u>SUBTOTALS:</u>				139.77	\$ \$52,223.91

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 94.44
Profit: 10.00

Total = \$1,054.92

Total = \$548.35

Total = \$5,600.29

Total = \$5,222.39

TOTAL O & P = \$12,425.95

CONTRACT AMOUNT (direct + O & P) = \$64,649.86

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00

Total = 500.00

Engineering work and/or contract/bid preparation: 0.00

Total = \$0.00

Reclamation management and/or administration: 5.00

\$3,232.49

CONTINGENCY: 3.00

Total = \$1,566.72

TOTAL INDIRECT COST = \$17,725.16

TOTAL BOND AMOUNT (direct + indirect) = \$69,950.00

DEMOLITION WORK

Task description: Demo mine structures and infa structure

Site: C-JD-8

Permit Action: 2012 EPP AM-01

Permit/Job#: M1984014

PROJECT IDENTIFICATION

Task #: 001
Date: 7/16/2012
User: GRM

State: Colorado
County: Montrose

Abbreviation: None
Filename: M014-001

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 96.90 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
shop building	80X40X10	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 50 ft. push	32,000.00	CF	\$0.15	\$4,864.00
shop concrete pad	80X40X0.5	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 50 ft. push	119.00	SF	\$1.56	\$185.64
compressor shed	18X40x8	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 50 ft. push	1,440.00	CF	\$0.15	\$218.88
compressor shed pad	18X40X0.5	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 50 ft. push	180.00	SF	\$1.56	\$280.80
power lines to vent #1	1000	Powerline or telephone line, overhead, wood - Single pole	1,000.00	LF	\$2.60	\$2,598.00
misc. debris	20X10X10	Load/haul/dump demolished materials/debris into pit - Max. 1,000 ft. haul	74.00	CY	\$0.97	\$71.41

Job Hours: 0.00

Subtotal
(unadjusted): \$8,218.73

Total Cost
(adjusted for location): \$7,963.95

SAFEGUARDING UNDERGROUND OPENINGS

Task description: Seal portal and vents

Site: C-JD-8

Permit Action: 2012 EPP AM-01

Permit/Job#: M1984014

PROJECT IDENTIFICATION

Task #: 002

State: Colorado

Abbreviation: None

Date: 7/16/2012

County: Montrose

Filename: M014-002

User: GRM

Agency or organization name: DRMS

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
backfill adit	10X12X50	Adit closure - backfilling (per cu. yd.)	225.00	CY	\$2.11	\$474.75
plug vent hole #1	14' dia	Shaft closure - monolithic plug (per opening)	1.00	EA	\$4,909.03	\$4,909.03

Job Hours: 32.00

Total Cost: \$5,383.78

WHEEL LOADER – LOAD AND CARRY WORKTask description: Remove ore pad bedding materialsSite: C-JD-8Permit Action: 2012 EPP AM-01Permit/Job#: M1984014**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 7/16/2012County: MontroseFilename: M014-003User: GRMAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: CAT 950HHorsepower: 197Attachment 1: ROPS CabShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		Utilization %
Ownership Cost/Hour:	\$25.73	NA
Operating Cost/Hour:	\$42.60	100
Operator Cost/Hour:	\$38.49	NA
Total Unit Cost/Hour:	\$106.81	
Total Fleet Cost/Hour:	\$106.81	

MATERIAL QUANTITIESInitial volume: 1,210

CCY

Swell factor: 1.090Loose volume: 1,319

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.500 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 3/4" to 6" diameter 0.00	0.000	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target:	Small target 0.04	0.040	(Cat HB)
Net Cycle Time Adjustment:		0.040	minutes
Adjusted Basic Cycle Time:		0.540	minutes

Rolling Resistance – Road ConditionsHaul: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0Return: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0**Haul and Return Time**

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	200	0.00	4.00	4.00	0.1719	(Cat HB)
Return Route:	200	0.00	4.00	4.00	0.1586	(Cat HB)

Total Travel Time: 0.3305 minutes
 Total Cycle Time: 0.8705 minutes

Load Bucket Capacity

Rated Capacity: 4.30 LCY (heaped)
 Bucket Fill Factor: 1.000 Rock - Well Blasted (95%-105%) 1.000
 Adjusted Capacity: 4.30 LCY

Job Condition Correction FactorsSite Altitude: 6500 feet

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

Unadjusted Hourly Unit Production: 296.37 LCY/Hour
 Adjusted Hourly Unit Production: 245.99 LCY/Hour
 Adjusted Hourly Fleet Production: 245.99 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 5.36 Hours
 Unit cost: \$0.434 /LCY Total job cost: \$573.00

BULLDOZER WORKTask description: Recontour waste piles and stormwater structuresSite: C-JD-8Permit Action: 2012 EPP AM-01Permit/Job#: M1984014**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 7/16/2012County: MontroseFilename: M014-004User: GRMAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$80.19	NA
Operating Cost/Hour:	\$140.68	100
Ripper op. Cost/Hour:	\$7.17	100
Operator Cost/Hour:	\$38.49	NA

Total unit Cost/Hour: \$266.52Total Fleet Cost/Hour: \$266.52**MATERIAL QUANTITIES**Initial Volume: 1,400Swell factor: 1.335Loose volume: 1,869 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 2,110.5 LCY/hrMaterials consistency description: Rock, avg. ripped or blasted 0.7Average push gradient: 20 %Average site altitude: 6,500 feetMaterial weight: 2,550 lbs/LCYWeight description: Sandstone**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.700	(CAT HB)
Dozing method:	1.000	(GEN.)

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	0.545	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1928

Adjusted unit production: 406.90 LCY/hr

Adjusted fleet production: **406.9** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.655/LCY

Total job time: **4.59** Hours

Total job cost: **\$1,224.21**

BULLDOZER RIPPING WORK

Task description: Rip compacted areas and vent access roads

Site: C-JD-8

Permit Action: 2012 EPP AM-01

Permit/Job#: M1984014

PROJECT IDENTIFICATION

Task #: 005

State: Colorado

Abbreviation: None

Date: 7/16/2012

County: Montrose

Filename: M014-005

User: GRM

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D9T - 9SU

Horsepower: 405

Ripper Attachment: 3-Shank Ripper

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$80.19</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$140.68</u>	<u>100</u>
Ripper Operating Cost/Hour:	<u>\$7.17</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.49</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$266.52</u>	
Total Fleet Cost/Hour:	<u>\$266.52</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 7.00 acres Rip Depth (ft): 1.00 Volume: 11,293 BCY or CCY

Source of estimated quantity: Portal support areas, dump tops, and vent roads

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>2.63</u>	<u>mph</u>
Average Ripping Width:	<u>7.67</u>	<u>degrees</u>
Average Ripping Length:	<u>150.00</u>	<u>feet</u>
Average Dozer Speed:	<u>88.00</u>	<u>feet</u>
Average Maneuver Time:	<u>0.25</u>	<u>feet</u>
Production per unit area:	<u>0.811</u>	<u>acres/hour</u>

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.811</u>	<u>Acres/hr</u>
Site Altitude:	<u>6,500</u>	<u>feet</u>
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>
Adjusted Hourly Unit Production:	<u>0.67</u>	<u>Acres/hr</u>
Adjusted Hourly Fleet Production:	<u>0.67</u>	<u>Acres/hr</u>

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 10.40 Hours

Unit cost: \$396.048 Per acre Total job cost: \$2,772.00

BULLDOZER WORKTask description: Push topsoil over disturbed areasSite: C-JD-8Permit Action: 2012 EPP AM-01Permit/Job#: M1984014PROJECT IDENTIFICATIONTask #: 006State: ColoradoAbbreviation: NoneDate: 7/16/2012County: MontroseFilename: M014-006User: GRMAgency or organization name: DRMSHOURLY EQUIPMENT COSTBasic Machine: Cat D9T - 9SUHorsepower: 405Blade Type: Semi-UniversalAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$80.19	NA
Operating Cost/Hour:	\$140.68	100
Ripper op. Cost/Hour:	\$7.17	100
Operator Cost/Hour:	\$38.49	NA

Total unit Cost/Hour: \$266.52Total Fleet Cost/Hour: \$266.52MATERIAL QUANTITIESInitial Volume: 8,815Swell factor: 1.000Loose volume: 8,815 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat HandbookHOURLY PRODUCTIONAverage push distance: 150 feetUnadjusted hourly production: 910.5 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 15 %Average site altitude: 6,500 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packedJob 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:	0.900	(SSD-FC)
Push gradient:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4039

Adjusted unit production: 367.75 LCY/hr

Adjusted fleet production: 367.75 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.725/LCY

Total job time: 23.97 Hours

Total job cost: \$6,388.60

WHEEL LOADER – LOAD AND CARRY WORKTask description: Spot 50% of topsoil for dozerSite: C-JD-8Permit Action: 2012 EPP AM-01Permit/Job#: M1984014**PROJECT IDENTIFICATION**Task #: 007State: ColoradoAbbreviation: NoneDate: 7/16/2012County: MontroseFilename: M014-007User: GRMAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: CAT 950HHorsepower: 197Attachment 1: ROPS CabShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		Utilization %
Ownership Cost/Hour:	\$25.73	NA
Operating Cost/Hour:	\$42.60	100
Operator Cost/Hour:	\$38.49	NA
Total Unit Cost/Hour:	\$106.81	
Total Fleet Cost/Hour:	\$106.81	

MATERIAL QUANTITIESInitial volume: 4,400

CCY

Swell factor: 1.000Loose volume: 4,400

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.500 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Operation:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.020	minutes
Adjusted Basic Cycle Time:		0.520	minutes

Rolling Resistance – Road ConditionsHaul: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0Return: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0**Haul and Return Time**

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	300	0.00	4.00	4.00	0.2579	(Cat HB)
Return Route:	300	0.00	4.00	4.00	0.2379	(Cat HB)

Total Travel Time: 0.4958 minutes
 Total Cycle Time: 1.0158 minutes

Load Bucket Capacity

Rated Capacity: 4.30 LCY (heaped)
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
 Adjusted Capacity: 4.73 LCY

Job Condition Correction Factors

Site Altitude: 6500 feet

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

Unadjusted Hourly Unit Production: 279.39 LCY/Hour
 Adjusted Hourly Unit Production: 231.89 LCY/Hour
 Adjusted Hourly Fleet Production: 231.89 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 18.97 Hours
 Unit cost: \$0.461 /LCY Total job cost: \$2,027.00

REVEGETATION WORKTask description: Reveg of 13.65 acres affected landsSite: C-JD-8Permit Action: 2012 EPP AM-01Permit/Job#: M1984014**PROJECT IDENTIFICATION**Task #: 008State: ColoradoAbbreviation: NoneDate: 7/16/2012County: MontroseFilename: M014-008User: GRMAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.32	\$64.00
			Total Fertilizer Materials Cost/Acre	\$64.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$50.09
Total Fertilizer Application Cost/Acre	\$50.09

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$92.35
Total Tilling Cost/Acre	\$92.35

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.00	6.47	\$17.06
Crested Wheatgrass - Ephraim	1.50	6.89	\$3.27
Sand Dropseed	0.10	11.94	\$0.68
Yellow Sweet Clover - Madrid	0.25	1.49	\$0.63
Galleta	2.50	9.13	\$61.68
Western Wheatgrass - Arriba	3.00	7.58	\$10.80
Saltbush, Four Wing	2.00	2.75	\$21.00
Totals Seed Mix	11.35	46.25	\$115.11

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$255.76
Total Seed Application Cost/Acre	\$255.76

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 8.0 pt/ac	1.00	ACRE	\$31.80	\$31.80
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$164.00	\$328.00
Total Mulch Materials Cost/Acre				\$359.80

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$65.89
Power mulcher (MEANS 32 91 13.16 0250)	\$79.71
Weed spray, truck, non-aquatic area, nox. [DMG]	\$60.19
Total Mulch Application Cost/Acre	\$205.79

JOB TIME AND COST

No. of Acres:	13.65	Cost /Acre:	\$1,142.90
Estimated Failure Rate:	50%	Cost /Acre*:	\$1,142.90
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING,MU LCHING		

Initial Job Cost:	\$15,600.59
Reseeding Job Cost:	\$7,800.29
Total Job Cost:	\$23,400.88
Job Hours:	40.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilization to site**Site: **C-JD-8**Permit Action: **2012 EPP AM-01**Permit/Job#: **M1984014****PROJECT IDENTIFICATION**Task #: **009**State: **Colorado**Abbreviation: **None**Date: **7/16/2012**County: **Montrose**Filename: **M014-009**User: **GRM**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 D9T - 9SU	66.13	\$80.19	\$125.45	1	\$205.64	\$125.45	\$250.00
CAT 950H	20.13	\$25.73	\$88.67	1	\$114.40	\$88.67	\$250.00

Subtotals: **\$320.04** **\$214.12** **\$500.00****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	\$51.79	1	\$51.79	\$51.79
Power Mulcher (Reinco M90)	\$25.43	1	\$25.43	\$25.43
Flatbed Truck, 4x2, 30K GVW	\$41.22	1	\$41.22	\$41.22
Water Tanker, 3,500 Gal.	\$46.77	1	\$46.77	\$46.77
Light Duty Pickup, 4x4, 3/4 T.	\$14.59	1	\$14.59	\$14.59

Subtotals: **\$179.80** **\$179.80**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	NATURITA	
Total one-way travel distance:	13.00	miles
Average Travel Speed:	35.00	mph

Total Non-Roadable Mob/Demob Cost *	\$2,356.92
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$133.57
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.37	0.37
Return Time (Hours):	0.37	0.37
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.24	0.74

JOB TIME AND COST

Total job time:	4.49	Hours
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Total job cost:	\$2,490.49
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