



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

1313 Sherman Street, Room 215
Denver, CO 80203

May 2, 2018

Jim Murray
High Mountain Mining Co., LLC
3040 S. Vallejo Street
Englewood, CO 80110

RE: Alma Placer Mine; DRMS File No. M-1985-029; Financial Warranty Calculation (AM06)

Dear Mr. Murray,

The Division has completed the Financial Warranty calculation (copy enclosed) for Amendment No. 6 for the Alma Placer Mine. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

The current decision date for Amendment No. 6 is May 16, 2018. If there are still unresolved issues when the decision date arrives and no extension has been requested, the application will be denied.

If you have any questions, please contact me at (303)866-3567 x8116.

Sincerely,

Michael A. Cunningham
Environmental Protection Specialist

Enclosure (1)

CC: Wally Erickson, DRMS
Ben Langenfeld, Greg Lewicki and Associates



COST SUMMARY WORK

Task description: Cost Summary

Site: Alma Placer Mine Permit Action: AM-06 Bond Calculation

Permit/Job#: M1985029

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None
Date: 5/1/2018 County: Park Filename: M029-000
User: MAC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Regrade - Gold Area	DOZER	1	382.01	\$73,280.00
002	Regrade - Gravel Area	DOZER	1	90.96	\$17,448.00
003	Replace Topsoil	TRUCK1	1	53.43	\$41,049.00
004	Revegetation of Rangeland Areas	REVEGE	1	24.00	\$62,033.00
005	Revegetation of Forested Areas	REVEGE	1	40.00	\$1,448.00
006	Revegetation of Wetland Areas	REVEGE	1	16.00	\$773.00
007	Soil Amendments - Prelaw Areas	REVEGE	1	0.00	\$7,308.00
008	Structure Removal	DEMOLISH	1	40.00	\$18,643.00
009	Equipment Mobilization/Demobilization	MOBILIZE	1	11.20	\$12,899.00
<u>SUBTOTALS:</u>				657.6	\$234,881

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$4,744.60
Performance bond:	1.05	Total =	\$2,466.25
Job superintendent:	0.00	Total =	\$0.00
Profit:	10.00	Total =	\$23,488.10
		TOTAL O & P =	\$30,698.95
		CONTRACT AMOUNT (direct + O & P) =	\$265,579.95

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	0.00	Total =	0.00
Engineering work and/or contract/bid preparation:	0.00	Total =	\$0.00
Reclamation management and/or administration:	5.00		\$13,279.00

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$43,977.95

TOTAL BOND AMOUNT (direct + indirect) = \$278,858.95

BULLDOZER WORKTask description: **Regrade - Gold Area**Site: **Alma Placer Mine**Permit Action: **AM-06 Bond
Calculation**Permit/Job#: **M1985029****PROJECT IDENTIFICATION**Task #: **001**State: **Colorado**Abbreviation: **None**Date: **5/1/2018**County: **Park**Filename: **M029-001**User: **MAC**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D8T - 8SU**Horsepower: **310**Blade Type: **Semi-Universal**Attachment: **NA**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$83.81	NA
Operating Cost/Hour:	\$66.17	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.85	NA
Total unit Cost/Hour:	\$191.83	
Total Fleet Cost/Hour:	\$191.83	

MATERIAL QUANTITIESInitial Volume: **134,400**Swell factor: **1.000**Loose volume: **134,400 LCY**Source of estimated volume: **Division of Reclamation, Mining & Safety**Source of estimated swell
factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **125 feet**Unadjusted hourly
production: **726.3 LCY/hr**Materials consistency description: **Partly consolidated stockpile 1.1**Average push
gradient: **-5 %**Average site altitude: **10,000 feet**Material weight: **2,900 lbs/LCY**Weight description: **Sand and gravel - Dry****Job Condition Correction Factor****Source**

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4844

Adjusted unit production: 351.82 LCY/hr

Adjusted fleet production: **351.82** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.545/LCY

Total job time: **382.01** Hours

Total job cost: **\$73,280**

BULLDOZER WORKTask description: **Regrade - Gravel Area**

Site: **Alma Placer Mine** Permit Action: **AM-06 Bond Calculation** Permit/Job#: **M1985029**

PROJECT IDENTIFICATION

Task #: **002** State: **Colorado** Abbreviation: **None**
 Date: **5/1/2018** County: **Park** Filename: **M029-002**
 User: **MAC**

Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**

Basic Machine: **Cat D8T - 8SU**
 Horsepower: **310**
 Blade Type: **Semi-Universal**
 Attachment: **NA**
 Shift Basis: **1 per day**
 Data Source: **(CRG)**

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$83.81	NA
Operating Cost/Hour:	\$66.17	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.85	NA
Total unit Cost/Hour:	\$191.83	
Total Fleet Cost/Hour:	\$191.83	

MATERIAL QUANTITIES

Initial Volume: **32,000**
 Swell factor: **1.000**
 Loose volume: **32,000 LCY**

Source of estimated volume: **Division of Reclamation, Mining & Safety**
 Source of estimated swell factor: **Cat Handbook**

HOURLY PRODUCTION

Average push distance: **125 feet**
 Unadjusted hourly production: **726.3 LCY/hr**

Materials consistency description: **Partly consolidated stockpile 1.1**

Average push gradient: **-5 %**
 Average site altitude: **10,000 feet**

Material weight: **2,900 lbs/LCY**Weight description: **Sand and gravel - Dry**Job Condition Correction FactorSource

Operator Skill:	0.750	(AVG.)
Material consistency:	1.100	(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:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4844

Adjusted unit production: 351.82 LCY/hr

Adjusted fleet production: **351.82** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.545/LCY

Total job time: **90.96** Hours

Total job cost: **\$17,448**

TRUCK/LOADER TEAM WORKTask description: **Replace Topsoil**Site: **Alma Placer Mine**Permit Action: **AM-06 Bond
Calculation**Permit/Job#: **M1985029****PROJECT IDENTIFICATION**

Task #: **003** State: **Colorado** Abbreviation: **None**
 Date: **5/2/2018** County: **Park** Filename: **M029-003**
 User: **MAC**

Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Shift basis: **1 per day**

	Equipment Description
Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 980H
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	CAT 140M
-Water Truck:	Water Tanker, 2,500 Gal.

Cost Breakdown:

	Truck/Loader Team		Support Equipment		Maintenance Equipment	
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	100	50	50
Ownership cost/hour:	\$78.80	\$48.81	NA	\$83.81	\$35.08	\$7.88
Operating cost/hour:	\$59.14	\$52.37	NA	\$66.17	\$16.62	\$7.37
%Utilization-ripper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$31.17	\$41.20	NA	\$41.85	\$28.90	\$0.00
Unit Subtotals:	\$169.11	\$142.38	NA	\$191.83	\$80.60	\$15.25
Number of Units:	2	1	0	1	1	1
Group Subtotals:	Work: \$480.60		Support: \$191.83		Maint: \$95.85	

Total work team cost/hour: **\$768.28****MATERIAL QUANTITIES**

Initial volume: **26,943** CCY Swell factor: **1.215**
 Loose volume: **32,736** LCY

Source of estimated volume: **Division of Reclamation, Mining & Safety**
 Source of estimated swell factor: **Cat Handbook**
 Material Purchase Cost: **\$0.00**
 Total Cost: **\$0.00**

HOURLY PRODUCTION**Truck Capacity:**

Truck Payload (weight) Basis:

Material weight: **1,600** Pounds/LCY
 Description: **Top Soil**

Rated Payload:	<u>82,000</u>	Pounds
Payload Capacity:	<u>51.25</u>	LCY

Truck Bed (volume) Basis:

Struck Volume:	<u>21.60</u>	LCY
Heaped Volume:	<u>31.70</u>	LCY
Average Volume:	<u>26.65</u>	LCY
Adjusted Volume:	<u>31.70</u>	LCY

Final Truck Volume Based on Number of Loader Passes: 24.75 LCY**Loading Tool Capacity**Bucket Size Class: NA

Rated Capacity:	<u>7.500</u>	LCY (heaped)
Bucket Fill Factor:	<u>1.100</u>	Other - rock/dirt mixtures (100-120%) 1.100
Adjusted Capacity:	<u>8.250</u>	LCY

Job Condition Corrections:Site Altitude (ft.): 10000 feet

	Truck	Loader	Source
Altitude Adj:	0.930	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.772	0.830	

Loading Tool Cycle Time:Number of Loading Tool Passes Required to Fill
Truck: 3 passes**Excavators and Front Shovels:**

Machine Cycle Time vs. Job Condition Rating: NA
 Selected Value within this Basic Rating: NA

Track Loaders – Material Description: _____

Cycle Time Elements (min.):Load: NA Maneuver: NA Dump: 0.100Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Stockpile:	Dumped by truck 0.02	0.020	(Cat HB)
Truck Ownership:	Independently owned trucks 0.04	0.040	(Cat HB)
Operation:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Dump Target:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.060	minutes
Adjusted Loader Cycle Time:		0.610	minutes
Net Load Time per Truck:		1.320	minutes

Truck Cycle Time:

Truck Exchange Time:	<u>0.60</u>	Minutes	Adjusted for site altitude:	<u>0.645</u>	Minutes
Truck Load Time:	<u>1.320</u>	Minutes	Adjusted for site altitude:	<u>1.320</u>	Minutes
Truck Maneuver and Dump Time:	<u>1.00</u>	Minutes	Adjusted for site altitude:	<u>1.075</u>	Minutes

Truck Travel (Haul & Return) Time:
maintained 2.0

Road Condition: Hard, smooth, stabilized, surfaced, watered,

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	-5.00	2.00	-3.00	3053	0.395

Haul Time: **0.395** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	5.00	2.00	7.00	2571	0.588

Return Time: **0.588** minutes

Total Truck Cycle Time: **4.023** minutes

Loading Tool unit

Production 755.66 LCY/Hour

Adjusted for job efficiency: 627.20 LCY/Hour

Truck Unit Production

369.09 LCY/Hour

Adjusted for job efficiency: 306.34 LCY/Hour

Optimal No. of Trucks: 2 Truck(s)

Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 612.69 LCY/Hour

Adjusted single truck/loader team production: 612.69 LCY/Hour

Adjusted multiple truck/loader team production: **612.69** LCY/Hour

JOB TIME AND COST

Fleet size: 1 Team(s)

Total job time: **53.43** Hours

Unit cost: \$1.254 /LCY

Total job cost: **\$41,049**

REVEGETATION WORKTask description: **Revegetation of Rangeland Areas**Site: **Alma Placer Mine**Permit Action: **AM-06 Bond
Calculation**Permit/Job#: **M1985029****PROJECT IDENTIFICATION**Task #: **004**
Date: **5/1/2018**
User: **MAC**State: **Colorado**
County: **Park**Abbreviation: **None**
Filename: **M029-004**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)	\$106.29
Total Tilling Cost/Acre	\$106.29

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Birdsfoot Trefoil - Empire	0.25	2.40	\$2.59
Big Bluegrass - Sherman	0.50	10.33	\$3.75
Bluebunch Wheatgrass - Secar	1.00	3.21	\$7.67
Mountain Brome - Bromar	3.00	4.82	\$13.05
Red Clover - Medium	0.50	3.10	\$6.67
White Dutch Clover - VNS	0.25	4.88	\$1.43
Sheep Fescue - Bighorn	0.50	7.81	\$2.37
Slender Wheatgrass - San Luis	2.00	7.30	\$6.48
Needlegrass, Green - Lodorm	2.00	8.31	\$9.74

Parry's Oatgrass	2.00	4.13	\$46.14
Prairie Junegrass	0.15	7.97	\$4.55
Timothy, Alpine - Native	0.25	7.46	\$6.04
Totals Seed Mix	12.40	71.72	\$110.46

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$232.00
Total Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$261.00	\$522.00
Total Mulch Materials Cost/Acre				\$522.00

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$66.02
Total Mulch Application Cost/Acre	\$66.02

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: 41.3 Cost /Acre: \$1,036.77
 Estimated Failure Rate: 50% Cost /Acre*: \$930.48
 *Selected Replanting Work Items: SEEDING,MULCHING
 Initial Job Cost: **\$42,818.60**
 Reseeding Job Cost: **\$19,214.41**
 Total Job Cost: **\$62,033**
 Job Hours: **24.00**

REVEGETATION WORKTask description: **Revegetation of Forested Areas**Site: **Alma Placer Mine**Permit Action: **AM-06 Bond
Calculation**Permit/Job#: **M1985029****PROJECT IDENTIFICATION**Task #: **005**
Date: **5/1/2018**
User: **MAC**State: **Colorado**
County: **Park**Abbreviation: **None**
Filename: **M029-005**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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

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

Application

Description	Cost /Acre

	\$
Total Seed Application Cost/Acre	\$0.00

MULCHING and MISCELLANEOUS**Materials**

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

Application

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

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Fir, Douglas	33	Tubling, 3 cu. in. container (MEANS)	\$1.15	\$0.00	\$37.95
Pine, Lodgepole	33	Tubling, 3 cu. in. container (MEANS)	\$1.15	\$0.00	\$37.95
Spruce, Blue	33	Tubling, 3 cu. in. container (MEANS)	\$7.45	\$0.00	\$245.85
Totals Nursery Stock Cost / Acre					\$321.75

JOB TIME AND COST

No. of Acres:	4.5	Cost /Acre:	\$321.75
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost:	\$1,447.88
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$1,448
Job Hours:	40.00

REVEGETATION WORKTask description: **Revegetation of Wetland Areas**Site: **Alma Placer Mine**Permit Action: **AM-06 Bond
Calculation**Permit/Job#: **M1985029****PROJECT IDENTIFICATION**Task #: **006**State: **Colorado**Abbreviation: **None**Date: **5/1/2018**County: **Park**Filename: **M029-006**User: **MAC**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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Meadow Brome - Regar	12.00	11.02	\$60.96
Streambank Wheatgrass - Sodar	5.00	16.30	\$30.45
Needlegrass, Green - Lodorm	2.00	8.31	\$9.74
Reedgrass, Canadian (or Blue Joint)	0.30	30.85	\$61.15
Tufted Hairgrass	0.50	28.70	\$5.35
Totals Seed Mix	19.80	95.18	\$167.65

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$267.22
Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS**Materials**

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

Application

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

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Willow, Sandbar	50	Bare root seedling, 11-16 inch ht. (MEANS)	\$2.12	\$0.00	\$106.00
Totals Nursery Stock Cost / Acre					\$106.00

JOB TIME AND COST

No. of Acres: 1.1 Cost /Acre: \$540.87
 Estimated Failure Rate: 30% Cost /Acre*: \$540.87
 *Selected Replanting Work Items: SEEDING,NURSERY

Initial Job Cost: **\$594.96**
 Reseeding Job Cost: **\$178.49**
 Total Job Cost: **\$773**
 Job Hours: **16.00**

REVEGETATION WORKTask description: Soil Amendments - Prelaw AreasSite: Alma Placer Mine Permit Action: AM-06 Bond CalculationPermit/Job#: M1985029**PROJECT IDENTIFICATION**

Task #: 007 State: Colorado Abbreviation: None
 Date: 5/1/2018 County: Park Filename: M029-007
 User: MAC

Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
8-32-16, 16-20-0	1,250.00	pound	\$0.32	\$400.00
			Total Fertilizer Materials Cost/Acre	\$400.00

Application

Description	Cost /Acre
Truck whirlwind spreader (MEANS 32 01 90.13 0140)	\$111.08
Total Fertilizer Application Cost/Acre	\$111.08

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

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

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre	\$0.00
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MULCHING and MISCELLANEOUS**Materials**

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

Application

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

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 14.3
 Estimated Failure Rate: 0%
 *Selected Replanting Work Items: NONE

Cost /Acre: \$511.08
 Cost /Acre*: \$0.00

Initial Job Cost: **\$7,308.44**
 Reseeding Job Cost: **\$0.00**
 Total Job Cost: **\$7,308**
 Job Hours: **0.00**

DEMOLITION WORK

Task description: Structure Removal

Site: Alma Placer Mine Permit Action: AM-06 Bond Calculation Permit/Job#: M1985029

PROJECT IDENTIFICATION

Task #: 008 State: Colorado Abbreviation: None
Date: 5/2/2018 County: Park Filename: M029-008
User: MAC

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 100.00 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Conveyors	60x100	USER PROVIDED ITEM	1.00	EA	\$4,226.00	\$4,226.00
Pump House	5x5x8	USER PROVIDED ITEM	1.00	EA	\$1,018.00	\$1,018.00
Processing Equipment	na	USER PROVIDED ITEM	1.00	EA	\$1,273.00	\$1,273.00
Pipe Removal/Load/Haul/Dispose	na	USER PROVIDED ITEM	1.00	EA	\$5,626.00	\$5,626.00
Misc. Items	na	USER PROVIDED ITEM	1.00	EA	\$6,500.00	\$6,500.00

Job Hours: 40.00

Subtotal
(unadjusted): \$18,643.00

Total Cost
(adjusted for location): \$18,643.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Equipment Mobilization/DemobilizationSite: Alma Placer Mine Permit Action: AM-06 Bond CalculationPermit/Job#: M1985029**PROJECT IDENTIFICATION**

Task #: 009 State: Colorado Abbreviation: None
 Date: 5/2/2018 County: Park Filename: M029-009
 User: MAC

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 D8T - 8SU	47.71	\$83.81	\$117.55	1	\$201.36	\$117.55	\$250.00
CAT 140M	16.68	\$35.08	\$88.67	1	\$123.75	\$88.67	\$250.00
CAT 980H	33.12	\$48.81	\$117.55	1	\$166.36	\$117.55	\$250.00
Cat 770D	37.54	\$78.80	\$117.55	2	\$392.70	\$235.10	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$12.22	\$88.67	1	\$100.89	\$88.67	\$250.00

Subtotals: **\$985.06** **\$647.54** **\$1,500.00**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 2,500 Gal.	\$22.62	1	\$22.62	\$22.62

Subtotals: **\$22.62** **\$22.62**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>DENVER</u>	
Total one-way travel distance:	<u>90.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$12,817.60</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$81.43</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>1.80</u>	<u>1.80</u>
Return Time (Hours):	<u>1.80</u>	<u>1.80</u>
Loading Time (Hours):	<u>1.00</u>	<u>NA</u>
Unloading Time (Hours):	<u>1.00</u>	<u>NA</u>
Subtotals:	<u>5.60</u>	<u>3.60</u>

JOB TIME AND COST

Total job time:	<u>11.20</u>	Hours
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Total job cost:	<u>\$12,899</u>
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