



COLORADO

**Division of Reclamation,
Mining and Safety**

Department of Natural Resources

1313 Sherman Street, Room 215
Denver, CO 80203

February 15, 2019

Peter Freedman
AuPt Industries LLC
P.O. Box 1424
Edwards, CO 81632

RE: West Side Placer, Permit No. M-2016-081, Technical Revision (TR-1) Approval

Dear Mr. Freedman:

On November 9, 2018 the Colorado Division of Reclamation Mining and Safety (Division) approved your Technical Revision request (TR-1). Upon approval of TR-1 additional financial warranty was required.

The estimated liability amount of \$39,160 exceeds the \$ 34,383 Financial Warranty currently held for this site. If you have not already done so, please submit additional bond in the amount of \$ 4,677. The revision will not be final until the bond is approved by the Division. ***Therefore, pursuant to Section 34-32-117(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 **Monday, April 15, 2019**.

The revision will not be final until the bond increase is approved by the Division.

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,

A handwritten signature in blue ink that reads "Amy Yeldell". The signature is written in a cursive, flowing style.

Amy Yeldell

Environmental Protection Specialist

Enclosed: Updated Financial Warranty Cost Estimate

Cc: Wally Erickson, Senior EPS, Grand Junction DRMS

COST SUMMARY WORK

Task description: Changes w/ Flocculant use

Site: West Side Placer Permit Action: TR-1 Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: ACY State: Colorado Abbreviation: None
Date: 11/9/2018 County: Moffat Filename: M081-ACY
User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Plug water well	BOREHOLE	1	4.00	\$1,999.42
02a	Demo Rapid Thickener Pillars	DEMOLISH	1	4.00	\$51.40
03a	Reggrading Pond (1x)	DOZER	1	1.77	\$368.00
03b	Overburden replacement and grading of mining phases	SCRAPER1	1	21.17	\$16,308.00
04a	Topsoil replacement of mining phases	SCRAPER1	1	2.94	\$2,265.00
04b	Grading topsoil in mining phase	DOZER	1	2.91	\$606.00
05a	Seed mining phases	REVEGE	1	8.00	\$1,120.00
05b	Seed roads, pond and operating areas	REVEGE	1	8.00	\$747.00
06a	Initial Mobilization	MOBILIZE	1	5.78	\$4,604.00
06b	Secondary Mobilization	MOBILIZE	1	5.78	\$1,149.00
<u>SUBTOTALS:</u>				64.35	\$29,217

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$590.18
Performance bond:	1.05	Total =	\$306.78
Job superintendent:	32.17	Total =	\$2,350.02
Profit:	10.00	Total =	\$2,921.70
		TOTAL O & P =	\$6,168.68
		CONTRACT AMOUNT (direct + O & P) =	\$35,385.68

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	500.00	Total =	500.00
Engineering work and/or contract/bid preparation:	4.25	Total =	\$1,503.89
Reclamation management and/or administration:	5.00		\$1,769.28
CONTINGENCY: 0.00		Total =	\$0.00

TOTAL INDIRECT COST = \$9,941.86

TOTAL BOND AMOUNT (direct + indirect) = \$39,158.86

TOTAL BOND AMOUNT (Rounded) = \$39,160.00

BOREHOLE SEALING WORK

Task description: Plug water well

Site: West Side Placer

Permit Action: TR-1

Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 11/9/2018

County: Moffat

Filename: M081-01a

User: ACY

Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Plug lower portion of well	Bentonite seal - 8 in. (labor, equip, materials)	7.875	295	295.00	LF	\$6.65	\$1,961.75
Plug upper portion of well	Portland cement grout - 10 in. (labor, equip, materials)	8.625	5	5.00	LF	\$6.80	\$34.00
Marker	Borehole location/identification marker (EA, material cost only)	8.625	1	1.00	EA	\$3.67	\$3.67

Job Hours: 4.00

Total Cost: \$1,999.00

DEMOLITION WORK

Task description: Deme Rapid Thickener Pillars

Site: West Side Placer

Permit Action: TR-1

Permit/Job#: M2016081

PROJECT IDENTIFICATION

Task #: 02A

State: Colorado

Abbreviation: None

Date: 11/9/2018

County: Moffat

Filename: M081-02a

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
6 Pillars	12"D x 6'L	Footing, concrete, 1.0 ft. x 2 ft. - No reinforcing	18.00	LF	\$2.99	\$53.82

Job Hours: 4.00

Subtotal
(unadjusted): \$53.82

Total Cost
(adjusted for location): \$51.40

BULLDOZER WORKTask description: **Regrading Pond (1x)**Site: **West Side Placer**Permit Action: **TR-1**Permit/Job#: **M2016081****PROJECT IDENTIFICATION**Task #: **03A**State: **Colorado**Abbreviation: **None**Date: **11/9/2018**County: **Moffat**Filename: **M081-03a**User: **ACY**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:	\$93.62	NA
Operating Cost/Hour:	\$73.35	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.52	NA

Total unit Cost/Hour: **\$208.49**Total Fleet Cost/Hour: **\$208.49****MATERIAL QUANTITIES**Initial Volume: **887**Swell factor: **1.060**Loose volume: **940 LCY**Source of estimated volume: **1 pond-2993 sqft x 8' deep**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **1,400.0 LCY/hr**Materials consistency description: **Partly consolidated stockpile 1.1**Average push gradient: **0 %**Average site altitude: **6,225 feet**Material weight: **2,900 lbs/LCY**Weight description: **Sand and gravel - Dry****Job Condition Correction Factor**

		<u>Source</u>
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:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3801

Adjusted unit production: 532.14 LCY/hr

Adjusted fleet production: **532.14** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.392/LCY

Total job time: **1.77** Hours

Total job cost: **\$368**

SCRAPER TEAM WORKTask description: **Overburden replacement and grading of mining phases**Site: **West Side Placer**Permit Action: TR-1Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 03BState: ColoradoAbbreviation: NoneDate: 11/9/2018County: MoffatFilename: M081-03bUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	Cat D8T - 8SU
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:

Scraper Work Team

Support Equipment

Maintenance Equipment

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	100	100	NA	NA
Ownership cost/hour:	\$155.61	NA	\$93.62	\$93.62	NA	NA
Operating cost/hour:	\$166.86	NA	\$73.35	\$73.35	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	\$0.00	\$0.00	NA	NA
Ripper op. cost/hour:	NA	NA	\$0.00	\$0.00	NA	NA
Operator cost/hour:	\$31.05	NA	\$41.52	\$41.52	NA	NA
Unit Subtotals:	\$353.51	NA	\$208.49	\$208.49	NA	NA
Number of Units:	1	0	1	1	0	0
Group Subtotals:	Work: \$353.51		Support: \$416.98		Maint:	\$0.00

Total work team cost/hour: **\$770.49****MATERIAL QUANTITIES**Initial volume: 9,999

CCY

Swell factor: 1.000Loose volume: **9,999**

LCY

Source of estimated volume: 72" x 75' x 600' stripsSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 3,400 lbs/LCY
 Material description: Sand and gravel - Wet
 Rated Payload: 81,600 pounds
 Payload Capacity: 24.00 LCY

Struck Volume: 24.00 LCY
 Heaped Volume: 34.00 LCY
 Average Volume: 29.00 LCY
 Adjusted Capacity: **24.00** LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 6225 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: Loose sand or gravel 10Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	10.00	10.00	922	0.68

Haul Time: 0.68 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	10.00	10.00	1476	0.45

Return Time: 0.45 minutesTotal Scraper team cycle time: 2.53 minutesAdjusted for job conditions: 472.41 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 472.41 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 472.41 LCY/HourUnadjusted unit production/hour: 569.17 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 21.17 HoursUnit cost: \$1.631 /LCYTotal job cost: \$16,308

SCRAPER TEAM WORKTask description: Topsoil replacement of mining phasesSite: West Side PlacerPermit Action: TR-1Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 11/9/2018County: MoffatFilename: M081-04aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	Cat D8T - 8SU
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown:**Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	100	100	NA	NA
Ownership cost/hour:	\$155.61	NA	\$93.62	\$93.62	NA	NA
Operating cost/hour:	\$166.86	NA	\$73.35	\$73.35	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	\$0.00	\$0.00	NA	NA
Ripper op. cost/hour:	NA	NA	\$0.00	\$0.00	NA	NA
Operator cost/hour:	\$31.05	NA	\$41.52	\$41.52	NA	NA
Unit Subtotals:	\$353.51	NA	\$208.49	\$208.49	NA	NA
Number of Units:	1	0	1	1	0	0
Group Subtotals:	Work: \$353.51		Support: \$416.98		Maint:	\$0.00

Total work team cost/hour: **\$770.49****MATERIAL QUANTITIES**Initial volume: 1,389

CCY

Swell factor: 1.000Loose volume: 1,389

LCY

Source of estimated volume: 10" x 75' x 600' stripsSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 3,400 lbs/LCY
 Material description: Sand and gravel - Wet
 Rated Payload: 81,600 pounds
 Payload Capacity: 24.00 LCY

Struck Volume: 24.00 LCY
 Heaped Volume: 34.00 LCY
 Average Volume: 29.00 LCY
 Adjusted Capacity: **24.00** LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 6225 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: Loose sand or gravel 10Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	10.00	10.00	922	0.68

Haul Time: 0.68 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	0.00	10.00	10.00	1476	0.45

Return Time: 0.45 minutesTotal Scraper team cycle time: 2.53 minutesAdjusted for job conditions: 472.41 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 472.41 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 472.41 LCY/HourUnadjusted unit production/hour: 569.17 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 2.94 HoursUnit cost: \$1.631 /LCYTotal job cost: \$2,265

BULLDOZER WORKTask description: Grading topsoil in mining phaseSite: West Side PlacerPermit Action: TR-1Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 04BState: ColoradoAbbreviation: NoneDate: 11/9/2018County: MoffatFilename: M081-04bUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$93.62	NA
Operating Cost/Hour:	\$73.35	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.52	NA

Total unit Cost/Hour: \$208.49Total Fleet Cost/Hour: **\$208.49****MATERIAL QUANTITIES**Initial Volume: 695Swell factor: 1.215Loose volume: **844 LCY**Source of estimated volume: Half of transported amountSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 200 feetUnadjusted hourly production: 491.9 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 0 %Average site altitude: 6,225 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
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:	0.600	(FND-SF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5908

Adjusted unit production: 290.61 LCY/hr

Adjusted fleet production: **290.61 LCY/hr**

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.717/LCY

Total job time: **2.91** Hours

Total job cost: **\$606**

REVEGETATION WORKTask description: Seed mining phasesSite: West Side PlacerPermit Action: TR-1Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 11/9/2018County: MoffatFilename: M081-05aUser: 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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	1.85	5.99	\$12.95
Galleta	2.19	7.99	\$55.39
Western Wheatgrass - Arriba	2.76	6.97	\$22.85
Needle and Thread	3.03	8.00	\$128.78
Globemallow, Scarlet (or copper)	0.25	2.83	\$34.69
Basin Wildrye - Trailhead	3.03	12.31	\$46.69
Totals Seed Mix	13.11	44.09	\$301.34

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
			\$	\$
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:	1.5	Cost /Acre:	\$533.34
Estimated Failure Rate:	40%	Cost /Acre*:	\$533.34
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$800.01
Reseeding Job Cost:	\$320.00
Total Job Cost:	\$1,120
Job Hours:	8.00

REVEGETATION WORKTask description: Seed roads, pond and operating areasSite: West Side PlacerPermit Action: TR-1Permit/Job#: M2016081**PROJECT IDENTIFICATION**Task #: 05BState: ColoradoAbbreviation: NoneDate: 11/9/2018County: MoffatFilename: M081-05bUser: 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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	1.85	5.99	\$12.95
Galleta	2.19	7.99	\$55.39
Western Wheatgrass - Arriba	2.76	6.97	\$22.85
Needle and Thread	3.03	8.00	\$128.78
Globemallow, Scarlet (or copper)	0.25	2.83	\$34.69
Basin Wildrye - Trailhead	3.03	12.31	\$46.69
Totals Seed Mix	13.11	44.09	\$301.34

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
			\$	\$
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:	1	Cost /Acre:	\$533.34
Estimated Failure Rate:	40%	Cost /Acre*:	\$533.34
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$533.34
Reseeding Job Cost:	\$213.34
Total Job Cost:	\$747
Job Hours:	8.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **West Side Placer**Permit Action: **TR-1**Permit/Job#: **M2016081****PROJECT IDENTIFICATION**Task #: **06A**State: **Colorado**Abbreviation: **None**Date: **11/9/2018**County: **Moffat**Filename: **M081-06a**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
Cat 637G	57.28	\$155.61	\$125.45	1	\$281.06	\$125.45	\$250.00
Cat D8T - 8SU	53.08	\$102.55	\$125.45	1	\$228.00	\$125.45	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$15.54	\$88.67	1	\$104.21	\$88.67	\$250.00
Subtotals:					\$613.27	\$339.57	\$750.00

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.	\$40.03	1	\$40.03	\$40.03
Subtotals:			\$40.03	\$40.03

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: CRAIG
 Total one-way travel distance: 52.00 miles
 Average Travel Speed: 55.00 mph

Total Non-Roadable Mob/Demob Cost * \$4,528.27
 ** two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$75.69
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.95	0.95
Return Time (Hours):	0.95	0.95
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.89	1.89

JOB TIME AND COST

Total job time: 5.78 Hours

Total job cost: \$4,604

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Secondary Mobilization**Site: **West Side Placer**Permit Action: **TR-1**Permit/Job#: **M2016081****PROJECT IDENTIFICATION**Task #: **06B**State: **Colorado**Abbreviation: **None**Date: **11/9/2018**County: **Moffat**Filename: **M081-06b**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
Drill/Broadcast Seeder with Tractor	25.00	\$15.54	\$88.67	1	\$104.21	\$88.67	\$250.00

Subtotals: **\$104.21** **\$88.67** **\$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.	\$40.03	1	\$40.03	\$40.03

Subtotals: **\$40.03** **\$40.03**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: CRAIG
 Total one-way travel distance: 52.00 miles
 Average Travel Speed: 55.00 mph

Total Non-Roadable Mob/Demob Cost * \$1,073.14
 * two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$75.69
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.95	0.95
Return Time (Hours):	0.95	0.95
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.89	1.89

JOB TIME AND COST

Total job time: 5.78 Hours

Total job cost: \$1,149