



December 12, 2023

David Grounds
OWL SWD Operating, LLC
David.Grounds@pilotwater.com

RE: White River Pit, Permit No. M-2008-070, Reclamation Cost Estimate

Dear Mr. Grounds:

This reclamation cost update was in response to the site inspection conducted on November 30, 2023. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

The bond was last recalculated in 2013 with AM-1. Below is a table summarizing input values. Changes from the 2018 calculation are in red. This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation plan.

Assumptions:

- Post AR-2 site is 20.77 ac w/ Access road is 5.67 ac, Parking office is 1.43 ac, Phase 1 is 13.67 ac
- All slopes go to a 3H: 1V or less
- No topsoil has been replaced to date.

Task	Form Used	Description
01a	Dozer	Backfill west highwall of Cell B 300 LF @ 15' H f vert to a 3H: 1V backfill = 3,750 CCY Excess material located within 250' away
01b	Dozer	Highwall Grading misc. in Cell C = 1,111 BCY 800 LF @ 10'H 1H: 1V to 3H: 1V cut/fill = 741 BCY, 400 LF @ 5'H 1H: 1V to 3H: 1V backfill = 370 CCY
02a	Ripper	Decompact pit floor 9.5 ac



03a	Dozer	Spread topsoil on Phase 1 – 6" over 13.67 ac = 11,100 CCY
04a	Reveg	Reveg @ 13.67 ac
05a	Ripper	Decompact office/scale area @ 1.43 ac
06a	Reveg	Reveg office/scale area @ 1.43 ac
10a	Mob	Initial Mobilization
10b	Mob	Secondary Mobilization
Indirect		Add in Division's standard indirect cost approx. 28%

Per policy I wanted to send this out for review prior to issuance. Please look it over and let me know if there are errors or concerns. If no response is received by Monday, February 12, 2024 then I'll issue SI-1 as is. SI-1 will result in a total required bond amount of \$126,419, which is an increase of \$19,871 over the \$106,548.00 currently held.

Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, Rm 215, 1001 E 62nd Ave, Denver CO 80216. Direct contact can be made by phone at 303-866-3567 Ext 8183 or via email at amy.yeldell@state.co.us

Sincerely,



Amy Yeldell
Environmental Protection Specialist

COST SUMMARY WORK

Task description: Updated 11-30-2023 site conditions

Site: White River Pit

Permit Action: 2023-11

Permit/Job#: M2008070

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 12/12/2023

County: Rio Blanco

Filename: M070-ACY

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Backfill highwall Cell B to 3H:1V Slope	DOZER	1	61.22	\$26,117
01b	Regrade highwalls Cell C to 3H:1V Slope	DOZER	1	2.55	\$1,088
02a	Rip Phase 1 Pit Floor prior to topsoil placement	RIPPER	1	15.29	\$6,854
03a	Spread topsoil over Phase 1	DOZER	1	54.48	\$23,239
04a	Revegetate 13.67 acres of Phase 1	REVEGE	1	20.00	\$26,159
05a	Rip Office/Scale Area prior to topsoil placement	RIPPER	1	2.30	\$1,032
06a	Revegetate 1.43 acres of Office/Scale Area	REVEGE	1	4.00	\$2,736
10a	Initial Mobilization	MOBILIZE	1	11.60	\$9,210
10b	Secondary Mobilization	MOBILIZE	1	11.60	\$4,359
<u>SUBTOTALS:</u>				183.04	\$100,794

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$2,036

Performance bond: 1.05

Total = \$1,058

Job superintendent: 91.52

Total = \$5,956

Profit: 10.00

Total = \$10,079

TOTAL O & P = \$19,130

CONTRACT AMOUNT (direct + O & P) = \$119,924

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

\$5,996

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$25,626

TOTAL BOND AMOUNT (direct + indirect) = \$126,420

BULLDOZER WORKTask description: **Backfill highwall Cell B to 3H:1V Slope**Site: **WRC Gravel Pit**Permit Action: **2023-11**Permit/Job#: **M2008070****PROJECT IDENTIFICATION**Task #: **01A**State: **Colorado**Abbreviation: **None**Date: **12/12/2023**County: **Rio Blanco**Filename: **M070-01a**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:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$426.60**Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: **3,750**Swell factor: **1.125**Loose volume: **4,219 LCY**Source of estimated volume: **300 LF @ 15' H f vert to a 3H: 1V backfill**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **250 feet**Unadjusted hourly production: **377.8 LCY/hr**Materials consistency description: **Consolidated stockpile 1.0**Average push gradient: **25 %**Average site altitude: **5,875 feet**Material weight: **2,650 lbs/LCY**Weight description: **Decomposed rock - 25% Rock, 75% Earth****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(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:	0.422	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1824

Adjusted unit production: 68.91 LCY/hr

Adjusted fleet production: **68.91** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$6.191/LCY

Total job time: **61.22** Hours

Total job cost: **\$26,117**

BULLDOZER WORKTask description: **Regrade highwalls Cell C to 3H:1V Slope**Site: **WRC Gravel Pit**Permit Action: **2023-11**Permit/Job#: **M2008070****PROJECT IDENTIFICATION**Task #: **01B**State: **Colorado**Abbreviation: **None**Date: **12/12/2023**County: **Rio Blanco**Filename: **M070-01b**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:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$426.60**Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: **1,111**Swell factor: **1.250**Loose volume: **1,389 LCY**Source of estimated volume: **Staff estimates**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: **Compacted fill or embankment 0.9**Average push gradient: **0 %**Average site altitude: **5,875 feet**Material weight: **2,650 lbs/LCY**Weight description: **Decomposed rock - 25% Rock, 75% Earth****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3890

Adjusted unit production: 544.60 LCY/hr

Adjusted fleet production: **544.6** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.783/LCY

Total job time: **2.55** Hours

Total job cost: **\$1,088**

BULLDOZER RIPPING WORK

Task description: Rip Phase 1 Pit Floor prior to topsoil placement

Site: WRC Gravel Pit

Permit Action: 2023-11

Permit/Job#: M2008070

PROJECT IDENTIFICATION

Task #: 02A

State: Colorado

Abbreviation: None

Date: 12/12/2023

County: Rio Blanco

Filename: M070-02a

User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

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

Horsepower: 310

Shift Basis: 1 per day

Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper Ownership Cost/Hour:	\$14.11	NA
Ripper Operating Cost/Hour:	\$7.45	100
Operator Cost/Hour:	\$41.30	NA
Total Unit Cost/Hour:	\$448.16	
Total Fleet Cost/Hour:	\$448.16	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 9.50 acres Rip Depth (ft): 2.00 Volume: 30,653 BCY or CCY

Source of estimated quantity: Staff estimates

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.56 feet/pass
Average Ripping Width: 7.08 feet/pass
Average Ripping Length: 150.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.748 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.748 Acres/hr
Site Altitude: 5,875 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.62 Acres/hr
Adjusted Hourly Fleet Production: **0.62** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **15.29** Hours

Unit cost: \$721.461 Per acre Total job cost: **\$6,854**

BULLDOZER WORKTask description: **Spread topsoil over Phase 1**Site: **WRC Gravel Pit** Permit Action: 2023-11 Permit/Job#: M2008070**PROJECT IDENTIFICATION**

Task #: 03A State: Colorado Abbreviation: None
 Date: 12/12/2023 County: Rio Blanco Filename: M070-03a
 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:	<u>\$241.38</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$143.92</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour: \$426.60
 Total Fleet Cost/Hour: **\$426.60**

MATERIAL QUANTITIES

Initial Volume: 11,100
 Swell factor: 1.215
 Loose volume: **13,487 LCY**

Source of estimated volume: 13.67 ac @ 6" D
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 150 feet
 Unadjusted hourly production: 634.3 LCY/hr

Materials consistency description: Consolidated stockpile 1.0

Average push gradient: 20 %
 Average site altitude: 5,875 feet

Material weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

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

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.545	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3903

Adjusted unit production: 247.57 LCY/hr

Adjusted fleet production: **247.57** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.723/LCY

Total job time: **54.48** Hours

Total job cost: **\$23,239**

REVEGETATION WORKTask description: Revegetate 13.67 acres of Phase 1Site: WRC Gravel PitPermit Action: 2023-11Permit/Job#: M2008070**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 12/12/2023County: Rio BlancoFilename: M070-04aUser: 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)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	0.90	2.91	\$7.99
Bluebunch Wheatgrass - Secar	1.50	4.82	\$16.31
Bottlebrush Squirreltail	0.50	2.20	\$8.11
Sandberg Bluegrass - VNS	0.80	16.99	\$6.72
Streambank Wheatgrass - Sodar	0.60	1.96	\$3.42
Rabbitbrush, Rubber	0.01	0.15	\$0.64
Western Wheatgrass - Rosanna	2.00	5.05	\$11.50
Sagebrush, Wyoming Big	0.01	0.59	\$0.23
Saltbush, Four Wing	0.20	0.28	\$2.50

Totals Seed Mix	6.52	34.95	\$57.43
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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
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$35.09	\$35.09
Straw, delivered {MEANS 31 25 14.16 1200}	1.50	TON	\$429.79	\$644.68
Total Mulch Materials Cost/Acre				\$679.77

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$284.85

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: 13.67 Cost /Acre: \$1,366.87
 Estimated Failure Rate: 40% Cost /Acre*: \$1,366.87
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$18,685.11**
 Reseeding Job Cost: **\$7,474.05**
 Total Job Cost: **\$26,159**
 Job Hours: **20.00**

BULLDOZER RIPPING WORK

Task description: Rip Office/Scale Area prior to topsoil placement

Site: WRC Gravel Pit Permit Action: 2023-11 Permit/Job#: M2008070

PROJECT IDENTIFICATION

Task #: 05A State: Colorado Abbreviation: None
Date: 12/12/2023 County: Rio Blanco Filename: M070-05a
User: ACY

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU Horsepower: 310
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper Ownership Cost/Hour:	\$14.11	NA
Ripper Operating Cost/Hour:	\$7.45	100
Operator Cost/Hour:	\$41.30	NA
Total Unit Cost/Hour:	\$448.16	
Total Fleet Cost/Hour:	\$448.16	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 1.43 acres Rip Depth (ft): 2.00 Volume: 4,614 BCY or CCY

Source of estimated quantity: Staff estimates

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.56 feet/pass
Average Ripping Width: 7.08 feet/pass
Average Ripping Length: 150.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.748 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.748 Acres/hr
Site Altitude: 5,875 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.62 Acres/hr
Adjusted Hourly Fleet Production: **0.62** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **2.30** Hours

Unit cost: \$721.461 Per acre Total job cost: **\$1,032**

REVEGETATION WORKTask description: Revegetate 1.43 acres of Office/Scale AreaSite: WRC Gravel PitPermit Action: 2023-11Permit/Job#: M2008070**PROJECT IDENTIFICATION**Task #: 06AState: ColoradoAbbreviation: NoneDate: 12/12/2023County: Rio BlancoFilename: M070-06aUser: 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)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	0.90	2.91	\$7.99
Bluebunch Wheatgrass - Secar	1.50	4.82	\$16.31
Bottlebrush Squirreltail	0.50	2.20	\$8.11
Sandberg Bluegrass - VNS	0.80	16.99	\$6.72
Streambank Wheatgrass - Sodar	0.60	1.96	\$3.42
Rabbitbrush, Rubber	0.01	0.15	\$0.64
Western Wheatgrass - Rosanna	2.00	5.05	\$11.50
Sagebrush, Wyoming Big	0.01	0.59	\$0.23
Saltbush, Four Wing	0.20	0.28	\$2.50

Totals Seed Mix	6.52	34.95	\$57.43
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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
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$35.09	\$35.09
Straw, delivered {MEANS 31 25 14.16 1200}	1.50	TON	\$429.79	\$644.68
Total Mulch Materials Cost/Acre				\$679.77

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$284.85

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:	1.43	Cost /Acre:	\$1,366.87
Estimated Failure Rate:	40%	Cost /Acre*:	\$1,366.87
*Selected Replanting Work Items:	TILLING,SEEDING,MULCHING		
Initial Job Cost:	\$1,954.62		
Reseeding Job Cost:	\$781.85		
Total Job Cost:	\$2,736		
Job Hours:	4.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **WRC Gravel Pit**Permit Action: **2023-11**Permit/Job#: **M2008070****PROJECT IDENTIFICATION**Task #: **10A**State: **Colorado**Abbreviation: **None**Date: **12/12/2023**County: **Rio Blanco**Filename: **M070-10a**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:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

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	53.08	\$255.49	\$175.95	1	\$431.44	\$175.95	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00

Subtotals: **\$628.69** **\$340.53** **\$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, 1 T. Crew	\$127.92	2	\$255.84	\$255.84
Water Tanker, 2,500 Gal.	\$55.39	1	\$55.39	\$55.39
Flatbed Truck, 4x2, 30K GVW	\$63.90	1	\$63.90	\$63.90

Subtotals: **\$375.13** **\$375.13**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>120.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$7,409.64</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$1,800.62</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>2.40</u>	<u>2.40</u>
Return Time (Hours):	<u>2.40</u>	<u>2.40</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>5.80</u>	<u>4.80</u>

JOB TIME AND COST

Total job time:	<u>11.60</u>	Hours
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Total job cost:	<u>\$9,210</u>
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EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Secondary MobilizationSite: WRC Gravel PitPermit Action: 2023-11Permit/Job#: M2008070**PROJECT IDENTIFICATION**Task #: 10BState: ColoradoAbbreviation: NoneDate: 12/12/2023County: Rio BlancoFilename: M070-10bUser: 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:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

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	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00

Subtotals: **\$197.25** **\$164.58** **\$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, 1 T. Crew	\$127.92	2	\$255.84	\$255.84

Subtotals: **\$255.84** **\$255.84**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>120.00</u>	miles
Average Travel Speed:	<u>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$3,131.28</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$1,228.03</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>2.40</u>	<u>2.40</u>
Return Time (Hours):	<u>2.40</u>	<u>2.40</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>5.80</u>	<u>4.80</u>

JOB TIME AND COST

Total job time: 11.60 Hours

Total job cost: \$4,359