



October 20, 2023

Elaine Urie
Urie Rock Company
2424 E. Main St
Rangely, CO 81648

RE: Urie Gravel Pit, Permit No. M-2009-038, 10-2023 Reclamation Cost Estimate

Dear Ms. Urie:

This reclamation cost update was in response to the site inspection conducted on July 24, 2023. On August 1, 2023, the Division sent out a draft calculation for the Operators review. As requested on October 2, 2023, the Division received back comments describing updated site conditions as they relate to this calculation. The Division has updated the reclamation cost estimate based on the 2023 Annual Report Map and discussions of site conditions with the Operator. The Division has found the current financial warranty in the amount of \$91,600 to be sufficient to complete reclamation.

Below is a table summarizing input values that have been updated based on site conditions. 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: **Revision in Red**

- Phase 1 is graded and initially reclaimed.
- Phase 2 active pit area partially graded, **Only far west slope requires grading. The majority of slopes still need topsoil. No seeding has occurred to date in Phase 2.**
- All areas are to receive 6" of topsoil prior to reveg
 - **No topsoil was stripped from Phase 3 therefore none can be replaced.**
- Did not include pumping dewatering task
- All compacted areas used for stockpiling require **decompaction.**
- Assumed enough overburden material has been placed or maintained over shale. Rec Plan calls for a min of 54" site wide to be replaced.
- Revegetation per Reclamation Plan calls for disk soil, seed mix drilled, straw mulch at 3000 lbs. /ac power mulched and crimped into place. Added weed spraying based of site conditions.



Task	Form Used	Description
01a	Dozer	Grade Pit slopes to 3H: 1V = 926 CCY 400 LF of 1: 1V @ 20' backfill = 5926 CY Now graded 500 LF of 2H: 1V @ 20' cut/fill = 926 CY
02a	Scraper Loader	Transport topsoil to pit slopes (phase 2) = 1,670 CCY Slopes are 900LF x 100'W = 2.07 ac @ 6"D
02b	Dozer	Grade transported topsoil on pit slopes = 2,029 LCY
03a	Ripper	Rip stockpile area (Phase 3) ~ 6.5 ac per annual report Need to deep compact 2ft since no topsoil will be applied
04a	Scraper	Place topsoil on stockpile area = 6,453 CCY 8ac @ 6" D No topsoil salvage to be replaced
04b	Dozer	Grade transported topsoil on stockpile area = 7,840 LCY ""
04a	Reveg	Reveg topsoiled areas = 11.09 ac Phase 2- slopes 2000 LF x 100'W = 4.59 ac Phase 3 Stockpile area 6.5 ac
04b	Reveg	Reveg Failure areas (phase 1) 50% of total = 2.52 ac 2200 LF x 100'W = 5.05 ac
10a	Mob	Initial Mobilization Switched from Scraper to Loader
10b	Mob	Secondary Mobilization Erroneously include dozer and scraper on last calc, removed grading equipment Reseeding equipment only

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

Enclosure: 10-2023 Reclamation Cost Estimate

Ec: Travis Marshall, Senior EPS, Grand Junction DRMS

COST SUMMARY WORK

Task description: Updated 2023 calc

Site: Urie Gravel Pit

Permit Action: 10-2023

Permit/Job#: M2009038

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 10/17/2023

County: Rio Blanco

Filename: 000

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Grade pit slopes to 3H:1V	DOZER	1	2.53	\$1,081
02a	Transport topsoil to pit slopes (phase 2)	LOADER	1	15.28	\$2,362
02b	Grade transported topsoil on pit slopes	DOZER	1	2.32	\$990
03a	Rip stockpile area	RIPPER	1	9.79	\$4,390
04a	Revegetate topsoiled areas	REVEGE	1	20.00	\$39,738
04b	Revegetate Failure 50% Phase 1	REVEGE	1	8.00	\$5,972
10a	Initial Mobilization	MOBILIZE	1	2.32	\$4,274
10b	Initial Mobilization	MOBILIZE	1	2.32	\$1,481
<u>SUBTOTALS:</u>				62.56	\$60,288

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,218

Performance bond: 1.05

Total = \$633

Job superintendent: 31.28

Total = \$2,036

Profit: 10.00

Total = \$6,029

TOTAL O & P = \$9,915

CONTRACT AMOUNT (direct + O & P) = \$70,203

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 4.25

Total = \$2,984

Reclamation management and/or administration: 5.00

\$3,510

CONTINGENCY: 3.00

Total = \$1,809

TOTAL INDIRECT COST = \$18,218

TOTAL BOND AMOUNT (direct + indirect) = \$78,506

BULLDOZER WORKTask description: Grade pit slopes to 3H:1VSite: Urie Gravel PitPermit Action: 10-2023Permit/Job#: M2009038**PROJECT IDENTIFICATION**Task #: 01AState: ColoradoAbbreviation: NoneDate: 10/17/2023County: Rio BlancoFilename: M038-01aUser: 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:	\$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: \$426.60Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: 926Swell factor: 1.125Loose volume: **1,042 LCY**Source of estimated volume: 500LF 1:1 cut/fillSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 75 feetUnadjusted hourly production: 1,017.1 LCY/hrMaterials consistency description: Compacted fill or embankment 0.9Average push gradient: 0 %Average site altitude: 5,200 feetMaterial weight: 2,550 lbs/LCYWeight description: Earth - Dry packed**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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4043

Adjusted unit production: 411.21 LCY/hr

Adjusted fleet production: **411.21** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.037/LCY

Total job time: **2.53** Hours

Total job cost: **\$1,081**

WHEEL LOADER – LOAD AND CARRY WORKTask description: Transport topsoil to pit slopes (phase 2)Site: Urie Gravel PitPermit Action: 10-2023Permit/Job#: M2009038**PROJECT IDENTIFICATION**Task #: 02AState: ColoradoAbbreviation: NoneDate: 10/17/2023County: Rio BlancoFilename: M038-02aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: CAT 966HAttachment 1: ROPS CabHorsepower: 262Shift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		Utilization %
Ownership Cost/Hour:	\$65.69	NA
Operating Cost/Hour:	\$48.09	100
Operator Cost/Hour:	\$40.71	NA
Total Unit Cost/Hour:	\$154.49	
Total Fleet Cost/Hour:	\$154.49	

MATERIAL QUANTITIESInitial volume: 1,670

CCY

Swell factor: 1.215Loose volume: 2,029

LCY

Source of estimated volume: 900 LF x 100' W = 2.07 ac @ 6"DSource 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 1/8" to 3/4" diameter -0.02	-0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.100	minutes
Adjusted Basic Cycle Time:		0.400	minutes

Rolling Resistance – Road ConditionsHaul: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0Return: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0**Haul and Return Time**

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	750	0.00	8.00	8.00	0.8642	(Cat HB)
Return Route:	750	0.00	8.00	8.00	0.7997	(Cat HB)

Total Travel Time: 1.6639 minutes
 Total Cycle Time: 2.0639 minutes

Load Bucket Capacity

Rated Capacity: 5.00 LCY (heaped)
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
 Adjusted Capacity: 5.50 LCY

Job Condition Correction Factors

Site Altitude: 5200 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: 159.89 LCY/Hour
 Adjusted Hourly Unit Production: 132.71 LCY/Hour
 Adjusted Hourly Fleet Production: 132.71 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 15.29 Hours
 Unit cost: \$1.164 /LCY Total job cost: \$2,362

BULLDOZER WORKTask description: Grade transported topsoil on pit slopesSite: Urie Gravel PitPermit Action: 10-2023Permit/Job#: M2009038**PROJECT IDENTIFICATION**Task #: 02BState: ColoradoAbbreviation: NoneDate: 10/17/2023County: Rio BlancoFilename: M038-02bUser: 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:	\$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: \$426.60Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: 2,029Swell factor: 1.000Loose volume: **2,029** LCYSource of estimated volume: Transported volumeSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 75 feetUnadjusted hourly production: 1,017.1 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 5,200 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job 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:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 873.99 LCY/hr

Adjusted fleet production: **873.99 LCY/hr**

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.488/LCY

Total job time: **2.32 Hours**

Total job cost: **\$990**

BULLDOZER RIPPING WORK

Task description: Rip stockpile area

Site: Urie Gravel Pit Permit Action: 10-2023 Permit/Job#: M2009038

PROJECT IDENTIFICATION

Task #: 03A State: Colorado Abbreviation: None
Date: 10/17/2023 County: Rio Blanco Filename: M038-03a
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:	<u>\$241.38</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$143.92</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$14.11</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$7.45</u>	<u>100</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$448.16</u>	
Total Fleet Cost/Hour:	<u>\$448.16</u>	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 6.50 acres Rip Depth (ft): 2.00 Volume: 20,973 BCY or CCY

Source of estimated quantity: 2023 Annual Rpt Map

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>2.56</u>	<u>feet/pass</u>
Average Ripping Width:	<u>7.08</u>	<u>feet/pass</u>
Average Ripping Length:	<u>300.00</u>	<u>feet/pass</u>
Average Dozer Speed:	<u>88.00</u>	<u>feet/minute</u>
Average Maneuver Time:	<u>0.25</u>	<u>minutes/pass</u>
Production per unit area:	<u>0.800</u>	<u>acres/hour</u>

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.800</u>	<u>Acres/hr</u>
Site Altitude:	<u>5,200</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: 0.66 Acres/hr
Adjusted Hourly Fleet Production: **0.66** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **9.79** Hours

Unit cost: \$675.321 Per acre Total job cost: **\$4,390**

REVEGETATION WORKTask description: Revegetate topsoiled areasSite: Urie Gravel PitPermit Action: 10-2023Permit/Job#: M2009038**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 10/17/2023County: Rio BlancoFilename: M038-04aUser: 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	6.00	19.42	\$53.25
Sand Dropseed	0.30	35.81	\$2.93
Bottlebrush Squirreltail	4.50	19.83	\$73.01
Sandberg Bluegrass - VNS	1.50	31.85	\$12.60
Galleta	5.50	20.08	\$122.93
Western Wheatgrass - Rosanna	8.00	20.20	\$46.00
Totals Seed Mix	25.80	147.20	\$310.71

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 - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Herbicide - Banvel @ 1.0 pt/ac	1.00	ACRE	\$8.09	\$8.09
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$3.75	\$3.75
Straw, delivered {MEANS 31 25 14.16 1200}	3.00	TON	\$429.79	\$1,289.36
Total Mulch Materials Cost/Acre				\$1,305.21

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Weed spray, hand, aquatic area, nox. [DMG]	\$183.16
Weed spray, truck, non-aquatic areas, ann. [DMG]	\$22.81
Total Mulch Application Cost/Acre	\$428.10

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: 11.09 Cost /Acre: \$2,388.84
 Estimated Failure Rate: 50% Cost /Acre*: \$2,388.84
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$26,492.24
 Reseeding Job Cost: \$13,246.12
 Total Job Cost: \$39,738
 Job Hours: 20.00

REVEGETATION WORKTask description: Revegetate Failure 50% Phase 1Site: Urie Gravel PitPermit Action: 10-2023Permit/Job#: M2009038**PROJECT IDENTIFICATION**Task #: 04BState: ColoradoAbbreviation: NoneDate: 10/17/2023County: Rio BlancoFilename: M038-04bUser: 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	6.00	19.42	\$53.25
Sand Dropseed	0.30	35.81	\$2.93
Bottlebrush Squirreltail	4.50	19.83	\$73.01
Sandberg Bluegrass - VNS	1.50	31.85	\$12.60
Galleta	5.50	20.08	\$122.93
Western Wheatgrass - Rosanna	8.00	20.20	\$46.00
Totals Seed Mix	25.80	147.20	\$310.71

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 - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Herbicide - Banvel @ 1.0 pt/ac	1.00	ACRE	\$8.09	\$8.09
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$3.75	\$3.75
Straw, delivered {MEANS 31 25 14.16 1200}	3.00	TON	\$429.79	\$1,289.36
Total Mulch Materials Cost/Acre				\$1,305.21

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Weed spray, hand, aquatic area, nox. [DMG]	\$183.16
Weed spray, truck, non-aquatic areas, ann. [DMG]	\$22.81
Total Mulch Application Cost/Acre	\$428.10

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: 2.5 Cost /Acre: \$2,388.84
 Estimated Failure Rate: 0% Cost /Acre*: \$2,388.84
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$5,972.10**
 Reseeding Job Cost: **\$0.00**
 Total Job Cost: **\$5,972**
 Job Hours: **8.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **Urie Gravel Pit**Permit Action: **10-2023**Permit/Job#: **M2009038****PROJECT IDENTIFICATION**Task #: **10A**State: **Colorado**Abbreviation: **None**Date: **10/17/2023**County: **Rio Blanco**Filename: **M038-10a**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	\$500.00
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
CAT 966H	25.80	\$65.69	\$82.29	1	\$147.98	\$82.29	\$250.00
Subtotals:					\$776.67	\$422.82	\$1,250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 30K GVW	\$91.58	1	\$91.58	\$91.58
Light Duty Pickup, 4x4, 3/4 T.	\$43.51	2	\$87.02	\$87.02
Subtotals:			\$178.60	\$178.60

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>RANGELY</u>	
Total one-way travel distance:	<u>2.00</u>	miles
Average Travel Speed:	<u>25.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$4,245.26</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$28.58</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.08</u>	<u>0.08</u>
Return Time (Hours):	<u>0.08</u>	<u>0.08</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.16</u>	<u>0.16</u>

JOB TIME AND COST

Total job time:	<u>2.32</u>	Hours
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Total job cost:	<u>\$4,274</u>
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EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **Urie Gravel Pit**Permit Action: **10-2023**Permit/Job#: **M2009038****PROJECT IDENTIFICATION**Task #: **10B**State: **Colorado**Abbreviation: **None**Date: **10/17/2023**County: **Rio Blanco**Filename: **M038-10b**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
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
Flatbed Truck, 4x2, 30K GVW	\$91.58	1	\$91.58	\$91.58
Light Duty Pickup, 4x4, 3/4 T.	\$43.51	2	\$87.02	\$87.02

Subtotals: **\$178.60** **\$178.60**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>RANGELY</u>	
Total one-way travel distance:	<u>2.00</u>	miles
Average Travel Speed:	<u>25.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,452.39</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$28.58</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.08</u>	<u>0.08</u>
Return Time (Hours):	<u>0.08</u>	<u>0.08</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.16</u>	<u>0.16</u>

JOB TIME AND COST

Total job time:	<u>2.32</u>	Hours
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Total job cost:	<u>\$1,481</u>
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