

COST SUMMARY WORK

Task description: 2023 post inspection update

Site: Railhead Gravel Pit

Permit Action: 2023

Permit/Job#: M1995036

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 4/10/2023

County: Mesa

Filename: M036-ACY

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Regrade SE Pond Slopes to 3H:1V	DOZER	1	9.58	\$2,516
02a	Regrade Wetland Slopes to 10H:1V	DOZER	1	42.77	\$11,228
03a	Rip compacted areas	RIPPER	1	4.83	\$1,367
04a	Topsoil Replacement	DOZER	1	68.08	\$17,873
05a	Reveg-Wetlands	REVEGE	1	8.00	\$7,470
05b	Reveg-Dryland around pond	REVEGE	1	8.00	\$5,352
05c	Reveg-NW failure upland	REVEGE	1	16.00	\$18,528
05d	Reveg-NW failure Wetlands	REVEGE	1	8.00	\$2,668
06a	Initial Mobilization	MOBILIZE	1	2.44	\$2,539
06b	Secondary Mobilization	MOBILIZE	1	2.44	\$1,398
<u>SUBTOTALS:</u>				170.14	\$70,939

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,433

Performance bond: 1.05

Total = \$745

Job superintendent: 148.20

Total = \$11,134

Profit: 10.00

Total = \$7,094

TOTAL O & P = \$20,406

CONTRACT AMOUNT (direct + O & P) = \$91,345

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$3,882

Reclamation management and/or administration: 5.00

\$4,567

CONTINGENCY: 3.00

Total = \$2,128

TOTAL INDIRECT COST = \$31,484

TOTAL BOND AMOUNT (direct + indirect) = \$102,423

Post-Mining Drainage Channel Construction (Ditches)

Task description: North Slope stormwater channels

Site: River Road Pit

Permit Action: 2023

Permit/Job#: M1991136

PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 4/10/2023

County: Mesa

Filename: M136-01a

User: ACY

Agency or organization name: DRMS

Channel	Length (ft)	Depth (ft)	Width (bottom) (ft)	Side Slopes (XH:1V)	Width (top) (ft)	Excavated Vol./LF (CY)	Excavated Vol. (total) (CY)
1	75	1.00	2.00	2.00	6.00	0.1481	11
2	75	1.00	2.00	2.00	6.00	0.1481	11
3	75	1.00	2.00	2.00	6.00	0.1481	11
Totals:	225						33

Riprap	Riprap Thickness (2xD50) (ft)	Perimeter, P (ft)	Area for Geotextile (excl. anchor trenches) (sf)	Riprap Vol. (CY)
	1.00	6.47	485	18
	1.00	6.47	485	18
	1.00	6.47	485	18
Totals:			1,456	54

Materials Needed:

Geotextile (SY incl. 15% wastage): 186
Riprap (CY): 54
Excavation (CY): 33

Costs:

Material Costs:	Geotextile (SY):	<u>\$4.26</u>	Riprap (CY):	<u>\$37.00</u>	Excavation (CY):	<u>\$0.00</u>
Labor Cost:		<u>\$0.30</u>		<u>\$14.05</u>		<u>\$2.73</u>
Equipment Cost:		<u>\$0.00</u>		<u>\$13.95</u>		<u>\$2.04</u>
Means Reference	31 32 1916 1510		31 37 1310 0100		31 23 1642 0310	

Totals:

Geotextile (SY): \$848.50
Riprap (CY): \$3,505.74
Excavation (CY): \$159.00

Hours:

Geotextile (SY):
87.50 SY/HR 2.13
Riprap (CY):
7.75 CY/HR 6.96
Excavation (CY):
40.00 CY/HR 0.83

Total Post-Mining Channel Reconstruction hours:	<u>9.92</u>	Hours
Total Post-Mining Channel Reconstruction Cost:	<u>\$4,513</u>	

BULLDOZER WORKTask description: **Regrade Wetland Slopes to 10H:1V**Site: **Railhead Gravel Pit**Permit Action: **2023**Permit/Job#: **M1995036****PROJECT IDENTIFICATION**Task #: **02A**State: **Colorado**Abbreviation: **None**Date: **4/10/2023**County: **Mesa**Filename: **M036-02a**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:	\$124.85	NA
Operating Cost/Hour:	\$97.63	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: **\$262.52**Total Fleet Cost/Hour: **\$262.52****MATERIAL QUANTITIES**Initial Volume: **12,396**Swell factor: **1.230**Loose volume: **15,247 LCY**Source of estimated volume: **1700 LF of 3:1 to 10:1 @ 15'H**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **125 feet**Unadjusted hourly production: **726.3 LCY/hr**Materials consistency description: **Compacted fill or embankment 0.9**Average push gradient: **0 %**Average site altitude: **4,524 feet**Material weight: **2,100 lbs/LCY**Weight description: **Earth - Loam****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	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4908

Adjusted unit production: 356.47 LCY/hr

Adjusted fleet production: **356.47** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.736/LCY

Total job time: **42.77** Hours

Total job cost: **\$11,228**

BULLDOZER RIPPING WORK

Task description: Rip compacted areas

Site: Railhead Gravel Pit Permit Action: 2023 Permit/Job#: M1995036

PROJECT IDENTIFICATION

Task #: 03A State: Colorado Abbreviation: None
Date: 4/10/2023 County: Mesa Filename: M036-03a
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:	\$124.85	NA
Operating Cost/Hour:	\$97.63	100
Ripper Ownership Cost/Hour:	\$13.10	NA
Ripper Operating Cost/Hour:	\$7.30	100
Operator Cost/Hour:	\$40.04	NA
Total Unit Cost/Hour:	\$282.92	
Total Fleet Cost/Hour:	\$282.92	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 3.10 acres Rip Depth (ft): 2.00 Volume: 10,003 BCY or CCY

Source of estimated quantity: Staff estimates 4500 LF haul road approx 30 ft wide

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: 200.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.773 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.773 Acres/hr
Site Altitude: 4,525 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.64 Acres/hr
Adjusted Hourly Fleet Production: **0.64** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **4.83** Hours

Unit cost: \$440.889 Per acre Total job cost: **\$1,367**

BULLDOZER WORKTask description: **Topsoil Replacement**Site: **Railhead Gravel Pit** Permit Action: **2023** Permit/Job#: **M1995036****PROJECT IDENTIFICATION**

Task #: **04A** State: **Colorado** Abbreviation: **None**
 Date: **4/10/2023** County: **Mesa** Filename: **M036-04a**
 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:	\$124.85	NA
Operating Cost/Hour:	\$97.63	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: **\$262.52**
 Total Fleet Cost/Hour: **\$262.52**

MATERIAL QUANTITIES

Initial Volume: **4,750**
 Swell factor: **1.115**
 Loose volume: **5,296 LCY**

Source of estimated volume: **5 ac 7" deep**
 Source of estimated swell factor: **Cat Handbook**

HOURLY PRODUCTION

Average push distance: **500 feet**
 Unadjusted hourly production: **129.7 LCY/hr**

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

Average push gradient: **0 %**
 Average site altitude: **4,524 feet**

Material weight: **2,100 lbs/LCY**Weight description: **Earth - Loam****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:	0.800	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.095	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5998

Adjusted unit production: 77.79 LCY/hr

Adjusted fleet production: 77.79 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$3.375/LCY

Total job time: 68.08 Hours

Total job cost: \$17,873

REVEGETATION WORKTask description: Reveg-WetlandsSite: Railhead Gravel PitPermit Action: 2023Permit/Job#: M1995036**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 4/10/2023County: MesaFilename: M036-05aUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	100.00	pound	\$0.38	\$38.00
			Total Fertilizer Materials Cost/Acre	\$38.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$39.64
Total Fertilizer Application Cost/Acre	\$39.64

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Total Tilling Cost/Acre	\$117.18

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	1.50	58.54	\$42.71
Canada Wildrye	11.00	29.04	\$119.24
Red Top	0.50	57.28	\$3.94
Reed Canarygrass - VNS	3.50	40.66	\$17.33
Timothy - Climax	2.00	57.39	\$3.20
Creeping Foxtail	3.00	68.87	\$14.85
Totals Seed Mix	21.50	311.78	\$201.27

Application

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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	\$421.36	\$842.72
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$3.04	\$3.04
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$4.61	\$4.61
Total Mulch Materials Cost/Acre				\$850.37

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$73.00
Power mulcher (MEANS 32 91 13.16 0350)	\$141.57
Weed spray, truck, aquatic area, nox. [DMG]	\$62.72
Weed spray, truck, non-aquatic areas, ann. [DMG]	\$22.81
Total Mulch Application Cost/Acre	\$300.10

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:	3	Cost /Acre:	\$1,778.56
Estimated Failure Rate:	40%	Cost /Acre*:	\$1,778.56
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING,MU LCHING		
Initial Job Cost:	\$5,335.68		
Reseeding Job Cost:	\$2,134.27		
Total Job Cost:	\$7,470		
Job Hours:	8.00		

REVEGETATION WORKTask description: Reveg-Dryland around pondSite: Railhead Gravel PitPermit Action: 2023Permit/Job#: M1995036**PROJECT IDENTIFICATION**Task #: 05BState: ColoradoAbbreviation: NoneDate: 4/10/2023County: MesaFilename: M036-05bUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	100.00	pound	\$0.38	\$38.00
			Total Fertilizer Materials Cost/Acre	\$38.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$39.64
Total Fertilizer Application Cost/Acre	\$39.64

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Total Tilling Cost/Acre	\$117.18

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	12.50	40.46	\$139.06
Crested Wheatgrass - Ephraim	6.00	27.55	\$25.95
Canby Bluegrass - Canbar	3.00	63.77	\$30.75
Sand Dropseed	0.50	59.69	\$4.88
Galleta	12.00	43.80	\$268.20
Saltbush, Four Wing	1.00	1.38	\$12.50
Totals Seed Mix	35.00	236.65	\$481.34

Application

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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	\$421.36	\$842.72
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$3.04	\$3.04
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$4.61	\$4.61
Total Mulch Materials Cost/Acre				\$850.37

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$73.00
Power mulcher (MEANS 32 91 13.16 0350)	\$141.57
Weed spray, truck, aquatic area, nox. [DMG]	\$62.72
Weed spray, truck, non-aquatic areas, ann. [DMG]	\$22.81
Total Mulch Application Cost/Acre	\$300.10

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:	<u>2</u>	Cost /Acre:	<u>\$2,058.63</u>
Estimated Failure Rate:	<u>30%</u>	Cost /Acre*:	<u>\$2,058.63</u>
*Selected Replanting Work Items:	<u>FERTILIZING,TILLING,SEEDING,MULCHING</u>		
Initial Job Cost:	<u>\$4,117.26</u>		
Reseeding Job Cost:	<u>\$1,235.18</u>		
Total Job Cost:	<u>\$5,352</u>		
Job Hours:	<u>8.00</u>		

REVEGETATION WORKTask description: Reveg-NW failure uplandSite: Railhead Gravel PitPermit Action: 2023Permit/Job#: M1995036**PROJECT IDENTIFICATION**Task #: 05CState: ColoradoAbbreviation: NoneDate: 4/10/2023County: MesaFilename: M036-05cUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	100.00	pound	\$0.38	\$38.00
			Total Fertilizer Materials Cost/Acre	\$38.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$39.64
Total Fertilizer Application Cost/Acre	\$39.64

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Total Tilling Cost/Acre	\$117.18

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	12.50	40.46	\$139.06
Crested Wheatgrass - Ephraim	6.00	27.55	\$25.95
Canby Bluegrass - Canbar	3.00	63.77	\$30.75
Sand Dropseed	0.50	59.69	\$4.88
Galleta	12.00	43.80	\$268.20
Saltbush, Four Wing	1.00	1.38	\$12.50
Totals Seed Mix	35.00	236.65	\$481.34

Application

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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	\$421.36	\$842.72
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$3.04	\$3.04
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$4.61	\$4.61
Total Mulch Materials Cost/Acre				\$850.37

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$73.00
Power mulcher (MEANS 32 91 13.16 0350)	\$141.57
Weed spray, truck, aquatic area, nox. [DMG]	\$62.72
Weed spray, truck, non-aquatic areas, ann. [DMG]	\$22.81
Total Mulch Application Cost/Acre	\$300.10

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:	9	Cost /Acre:	\$2,058.63
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		
Initial Job Cost:	\$18,527.67		
Reseeding Job Cost:	\$0.00		
Total Job Cost:	\$18,528		
Job Hours:	16.00		

REVEGETATION WORKTask description: Reveg-NW failure WetlandsSite: Railhead Gravel PitPermit Action: 2023Permit/Job#: M1995036**PROJECT IDENTIFICATION**Task #: 05DState: ColoradoAbbreviation: NoneDate: 4/10/2023County: MesaFilename: M036-05dUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	100.00	pound	\$0.38	\$38.00
			Total Fertilizer Materials Cost/Acre	\$38.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$39.64
Total Fertilizer Application Cost/Acre	\$39.64

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
Total Tilling Cost/Acre	\$117.18

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	1.50	58.54	\$42.71
Canada Wildrye	11.00	29.04	\$119.24
Red Top	0.50	57.28	\$3.94
Reed Canarygrass - VNS	3.50	40.66	\$17.33
Timothy - Climax	2.00	57.39	\$3.20
Creeping Foxtail	3.00	68.87	\$14.85
Totals Seed Mix	21.50	311.78	\$201.27

Application

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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	\$421.36	\$842.72
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$3.04	\$3.04
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$4.61	\$4.61
Total Mulch Materials Cost/Acre				\$850.37

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$73.00
Power mulcher (MEANS 32 91 13.16 0350)	\$141.57
Weed spray, truck, aquatic area, nox. [DMG]	\$62.72
Weed spray, truck, non-aquatic areas, ann. [DMG]	\$22.81
Total Mulch Application Cost/Acre	\$300.10

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: 1.5 Cost /Acre: \$1,778.56
 Estimated Failure Rate: 0% Cost /Acre*: \$0.00
 *Selected Replanting Work Items: NONE

Initial Job Cost: **\$2,667.84**
 Reseeding Job Cost: **\$0.00**
 Total Job Cost: **\$2,668**
 Job Hours: **8.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **Railhead Gravel Pit**Permit Action: **2023**Permit/Job#: **M1995036****PROJECT IDENTIFICATION**Task #: **06A**State: **Colorado**Abbreviation: **None**Date: **4/10/2023**County: **Mesa**Filename: **M036-06a**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:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

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	\$137.95	\$136.92	1	\$274.87	\$136.92	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00

Subtotals: **\$432.35** **\$273.36** **\$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	\$80.76	1	\$80.76	\$80.76

Subtotals: **\$80.76** **\$80.76**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	5.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$2,521.52	
'* two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	\$17.95	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.11	0.11
Return Time (Hours):	0.11	0.11
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.22	0.22

JOB TIME AND COST

Total job time:	2.44	Hours
Total job cost:	\$2,539	

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Secondary Mobilization**Site: **Railhead Gravel Pit**Permit Action: **2023**Permit/Job#: **M1995036****PROJECT IDENTIFICATION**Task #: **06B**State: **Colorado**Abbreviation: **None**Date: **4/10/2023**County: **Mesa**Filename: **M036-06b**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:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

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	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00
Subtotals:					\$157.48	\$136.44	\$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	\$80.76	1	\$80.76	\$80.76
Subtotals:			\$80.76	\$80.76

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	5.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,380.28	
'* two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	\$17.95	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.11	0.11
Return Time (Hours):	0.11	0.11
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.22	0.22

JOB TIME AND COST

Total job time:	2.44	Hours
Total job cost:	\$1,398	