

## COST SUMMARY WORK

Task description: Post inspection updates

Site: River Road Pit

Permit Action: 2023

Permit/Job#: M1991136

### PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 4/10/2023

County: Mesa

Filename: M136-ACY

User: ACY

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	North Slope stormwater channels	POSTMINING	1	9.91	\$4,513
02a	Reveg pit slopes	REVEGE	1	8.00	\$8,113
03a	Initial Mobilization	MOBILIZE	1	2.26	\$1,361
03b	Secondary Mobilization	MOBILIZE	1	2.26	\$1,361
<b><u>SUBTOTALS:</u></b>				<b>22.43</b>	<b>\$15,348</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$310

Performance bond: 1.05

Total = \$161

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$1,535

TOTAL O & P = \$2,006

CONTRACT AMOUNT (direct + O & P) = \$17,354

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$738

Reclamation management and/or administration: 5.00

\$868

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$4,111

**TOTAL BOND AMOUNT (direct + indirect) = \$19,459**

## 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: 9.92 Hours  
Total Post-Mining Channel Reconstruction Cost: \$4,513

**REVEGETATION WORK**Task description: Reveg pit slopesSite: River Road PitPermit Action: 2023Permit/Job#: M1991136**PROJECT IDENTIFICATION**Task #: 02AState: ColoradoAbbreviation: NoneDate: 4/10/2023County: MesaFilename: M136-02aUser: 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
Manure, delivery (average cost), per ton	8.00	ton	\$0.34	\$2.70
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$40.70</b>

**Application**

Description	Cost /Acre
Manure, tractor spreader (MEANS 32 91 13.23 4450)	\$71.00
Tractor spreader (MEANS 32 91 13.16 0950)	\$28.31
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$99.31</b>

**TILLING**

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

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.05	1.95	\$1.42
Indian Ricegrass - Paloma	3.12	10.10	\$34.71
Crested Wheatgrass - Ephraim	1.50	6.89	\$6.49
Canby Bluegrass - Canbar	0.45	9.57	\$4.61
Galleta	3.00	10.95	\$67.05
Saltbush, Four Wing	1.00	1.38	\$12.50
<b>Totals Seed Mix</b>	<b>9.12</b>	<b>40.83</b>	<b>\$126.78</b>

**Application**

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

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$7.94	\$7.94
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$4.61	\$4.61
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
<b>Total Mulch Materials Cost/Acre</b>				<b>\$855.27</b>

**Application**

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$73.00
Power mulcher (MEANS 32 91 13.16 0350)	\$141.57
Weed spray, hand, aquatic area, nox. [DMG]	\$183.16
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
<b>Total Mulch Application Cost/Acre</b>	<b>\$460.45</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres:	3	Cost /Acre:	\$1,931.69
Estimated Failure Rate:	40%	Cost /Acre*:	\$1,931.69
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING,MU LCHING		
Initial Job Cost:	<b>\$5,795.07</b>		
Reseeding Job Cost:	<b>\$2,318.03</b>		
Total Job Cost:	<b>\$8,113</b>		
Job Hours:	<b>8.00</b>		

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Initial Mobilization**Site: **River Road Pit**Permit Action: **2023**Permit/Job#: **M1991136****PROJECT IDENTIFICATION**Task #: **03A**State: **Colorado**Abbreviation: **None**Date: **4/10/2023**County: **Mesa**Filename: **M136-03a**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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
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:					<b>\$157.48</b>	<b>\$136.44</b>	<b>\$500.00</b>

**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	\$52.53	1	\$52.53	\$52.53
Subtotals:			<b>\$52.53</b>	<b>\$52.53</b>

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>3.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,354.15</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$7.00</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.07</u>	<u>0.07</u>
Return Time (Hours):	<u>0.07</u>	<u>0.07</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.13</u>	<u>0.13</u>

**JOB TIME AND COST**

Total job time:	<u>2.27</u>	Hours
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Total job cost:	<u>\$1,361</u>
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**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Secondary Mobilization**Site: **River Road Pit**Permit Action: **2023**Permit/Job#: **M1991136****PROJECT IDENTIFICATION**Task #: **03B**State: **Colorado**Abbreviation: **None**Date: **4/10/2023**County: **Mesa**Filename: **M136-03b**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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
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:					<b>\$157.48</b>	<b>\$136.44</b>	<b>\$500.00</b>

**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	\$52.53	1	\$52.53	\$52.53
Subtotals:			<b>\$52.53</b>	<b>\$52.53</b>



**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>3.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,354.15</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$7.00</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.07</u>	<u>0.07</u>
Return Time (Hours):	<u>0.07</u>	<u>0.07</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.13</u>	<u>0.13</u>

**JOB TIME AND COST**

Total job time:	<u>2.27</u>	Hours
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Total job cost:	<u>\$1,361</u>
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