



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

July 17, 2024

Sean Mello
Silt Sand & Gravel, LLC
P.O. Box 1319
Carbondale, CO 81623

Re: Grand River Park Project - File No. M-2006-046
Silt Sand & Gravel, LLC
Surety Increase (SI-1)
Surety Increase to \$280,457

Dear Sean Mello:

On July 17, 2024 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$280,457.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$87,649.00.

The increase in the Financial Warranty is due to the increases in the cost of fuel, equipment, and labor since the last update.

Please see the April 23, 2024 inspection report for details regarding why this surety increase is required.

On July 17, 2024, the Division ordered amendment of the current Financial Warranty or submittal of a new Financial Warranty reflecting the increase, within 60 days.

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit if the amount of any increased Financial Warranty has not been provided by September 15, 2024.

Bond Held:	\$192,808.00
Prior Liability:	\$192,808.00



Change in Liability:	\$87,649.00
Revised Liability:	\$280,457.00
Prior Permit Acreage:	163.00
Change in Permit Acreage:	0.00
Revised Permit Acreage:	163.00
Prior Affected Acreage:	130.00
Change in Affected Acreage:	0.00
Revised Affected Acreage:	130.00

If you have any questions, please contact me by telephone at (303) 866-3567 x , or by email at Todd.jesse@state.co.us.

Sincerely,



Todd Jesse
Environmental Protection Specialist

cc: Ben Langenfeld

M-GR-04

COST SUMMARY WORK

Task description: _____

Site: Grand River Park Project

Permit Action: 2024

Permit/Job#: M2006046

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 4/29/2024

County: Garfield

Filename: M046-000

User: TJ1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Demo of structures	DEMOLISH	1	10.00	\$2,011
002	Dewater Pit for Grading	PUMPING	1	709.59	\$63,154
003	Backfill Regulating Pond	SCRAPER1	2	7.69	\$12,459
004	Regrade 1000' of Highwall	DOZER	1	75.42	\$33,518
005	Replace 6" topsoil over disturbed areas	SCRAPER1	2	21.28	\$27,991
006	Reveg 22 acres	REVEGE	1	35.00	\$66,164
007	Initial Mobilization of Reclamation crew/equipment	MOBILIZE	1	6.53	\$15,281
008	Secondary Mobilization of Reclamation crew/equipment	MOBILIZE	1	2.53	\$1,495
<u>SUBTOTALS:</u>				868.04	\$222,073

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$4,486
Performance bond:	1.05	Total =	\$2,332
Job superintendent:	79.22	Total =	\$5,156
Profit:	10.00	Total =	\$22,207
		TOTAL O & P =	\$34,181
		CONTRACT AMOUNT (direct + O & P) =	\$256,254

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	4.25	Total =	\$10,891
Reclamation management and/or administration:	5.00		\$12,813

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$58,384

TOTAL BOND AMOUNT (direct + indirect) = \$280,457

DEMOLITION WORK

Task description: Demo of structures

Site: Grand River Park Project

Permit Action: 2024

Permit/Job#: M2006046

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 4/30/2024

County: Garfield

Filename: M046-001

User: TJ1

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
Cement Fuel Containment	30'W x 30'L x 3'H	Sidewalk, concrete, demolition only, 4 in. thick - No reinforcing	140.00	SY	\$9.43	\$1,320.20
Scale Removal	15'W x 70'L	Loading and 5 mile haul, salvage allowed - Steel frame structures	19.00	CY	\$12.50	\$237.50
Scale Cement Ramps	(2) 15'W x 15'L	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 50 ft. push	450.00	SF	\$1.22	\$547.56

Job Hours: 10.00

Subtotal
(unadjusted): \$2,105.26

Total Cost
(adjusted for location): \$2,010.52

PUMPING WORK

Task description: Dewater Pit for Grading

Site: Grand River Park Project

Permit Action: 2024

Permit/Job#: M2006046

PROJECT IDENTIFICATION

Task #: 002

State: Colorado

Abbreviation: None

Date: 4/30/2024

County: Garfield

Filename: M046-002

User: TJ1

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

	Description	Quantity
Make and Model:	Submersible pump - 460v, 8 in.	3
Attachment 1:	Suction hose - 6 in. diam., 25 ft.	3
Attachment 2:	Discharge hose - 6 in. D., 25 ft.	9
Labor Unit 1:	Pump operator	1
Horsepower:	<u>95</u>	
Shift Basis:	<u>1 per day</u>	
Weight:	<u>0.70</u>	
	(US Tons)	

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$49.32</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$12.00</u>	<u>100</u>
Operator Cost/Hour:	<u>\$27.68</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$89.00</u>	
Total Fleet Cost/Hour:	<u>\$89.00</u>	

PUMPING QUANTITIES

Initial Pond Volume:	<u>600.00</u>		Conversion factor:	<u>325850.5800</u>
Final Pond Volume:	<u>195,510,348.00</u>	gallons		
Total Pond Inflow Surface Area:	<u>1,306,800</u>	Sq. ft.	Unit inflow rate in gph/sq. ft.:	<u>0.3516</u>
Total Pond Inflow Volume per Hour:	<u>459,470.88</u>	gallons		

Source of estimated volume: Phase 1B and 2 lakes, 30 ac 20' deep

PUMPING TIME

Maximum Pump Capacity:	<u>170,000</u>	gph/pump
Estimated Suction Head:	<u>15</u>	feet
Estimated Discharge Head:	<u>20</u>	feet
Total Head:	<u>35</u>	feet
CPB Pump Capacity:	<u>163,200</u>	gph/pump
Site Altitude:	<u>5,400</u>	feet
Adjusted Pumping Capacity:	<u>489,600</u>	gph
Initial Unadjusted Pumping Time:	<u>399.33</u>	hours
Inflow during Initial Pumping:	<u>183,478,986</u>	gallons
Net Unadjusted Pumping Time:	<u>774.08</u>	Hours
Altitude Adjustment Factor:	<u>1.0000</u>	(3% rule)
Pump Efficiency Factor:	<u>0.9167</u>	(55 min./hr.)
Total Adjusted Pumping Time:	<u>709.60</u>	hours

JOB TIME AND COST

Total job time: 709.60 Hours

Unit cost: \$0.000167 /Gallon

Total job cost: \$63,154

SCRAPER TEAM WORKTask description: **Backfill Regulating Pond**Site: **Grand River Park Project**Permit Action: 2024Permit/Job#: M2006046**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 4/30/2024County: GarfieldFilename: M046-003User: TJ1Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 631G
-Dozer:	NA
Support Equipment -Load Area:	NA
-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	NA	15	NA	NA
Ownership cost/hour:	\$341.67	NA	NA	\$241.38	NA	NA
Operating cost/hour:	\$285.26	NA	NA	\$21.59	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$0.00	NA	NA
Ripper op. cost/hour:	NA	NA	NA	\$0.00	NA	NA
Operator cost/hour:	\$30.90	NA	NA	\$41.30	NA	NA
Unit Subtotals:	\$657.83	NA	NA	\$304.27	NA	NA
Number of Units:	2	0	0	1	0	0
Group Subtotals:	Work: \$1,315.66		Support: \$304.27		Maint:	\$0.00

Total work team cost/hour: **\$1,619.93****MATERIAL QUANTITIES**Initial volume: 4,444

CCY

Swell factor: 1.050Loose volume: **4,666**

LCY

Source of estimated volume: 200' x 300' 3' deepSource 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: 0.70 MinutesJob Condition Correction:

Site Altitude: 5400 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: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1300.00	-1.00	8.00	7.00	962	1.41

Haul Time: 1.41 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1300.00	1.00	8.00	9.00	1348	1.03

Return Time: 1.03 minutesTotal Scraper team cycle time: 3.94 minutesAdjusted for job conditions: 303.35 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 303.35 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 606.70 LCY/HourUnadjusted unit production/hour: 365.48 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 2 Team(s)Total job time: 7.69 HoursUnit cost: \$2.670 /LCYTotal job cost: \$12,459

BULLDOZER WORKTask description: **Regrade 1000' of Highwall**Site: **Grand River Park Project**Permit Action: **2024**Permit/Job#: **M2006046****PROJECT IDENTIFICATION**Task #: **004**State: **Colorado**Abbreviation: **None**Date: **4/30/2024**County: **Garfield**Filename: **M046-004**User: **TJ1**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D8T - 8SU**Horsepower: **310**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**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:	\$14.11	NA
Ripper op. Cost/Hour:	\$3.73	50
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$444.44**Total Fleet Cost/Hour: **\$444.44****MATERIAL QUANTITIES**Initial Volume: **35,000**Swell factor: **1.099**Loose volume: **38,462 LCY**Source of estimated volume: **Application**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **60 feet**Unadjusted hourly production: **1,246.9 LCY/hr**Materials consistency description: **Compacted fill or embankment 0.9**Average push gradient: **0 %**Average site altitude: **5,400 feet**Material weight: **3,400 lbs/LCY**Weight description: **Sand and gravel - Wet****Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.676	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4090

Adjusted unit production: 509.98 LCY/hr

Adjusted fleet production: **509.98** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.871/LCY

Total job time: **75.42** Hours

Total job cost: **\$33,518**

SCRAPER TEAM WORKTask description: **Replace 6" topsoil over disturbed areas**Site: **Grand River Park Project**Permit Action: 2024Permit/Job#: M2006046**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 4/30/2024County: GarfieldFilename: M046-005User: TJ1Agency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 631G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
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	NA	NA	NA	NA
Ownership cost/hour:	\$341.67	NA	NA	NA	NA	NA
Operating cost/hour:	\$285.26	NA	NA	NA	NA	NA
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$30.90	NA	NA	NA	NA	NA
Unit Subtotals:	\$657.83	NA	NA	NA	NA	NA
Number of Units:	2	0	0	0	0	0
Group Subtotals:	Work: \$1,315.66		Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: **\$1,315.66****MATERIAL QUANTITIES**Initial volume: 17,809 CCYSwell factor: 1.215Loose volume: **21,638** LCYSource of estimated volume: TR-1 table 2 (1,111 cy + 16,698 cy)Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight:	<u>1,600 lbs/LCY</u>	Struck Volume:	<u>24.00</u>	LCY
Material description:	<u>Top Soil</u>	Heaped Volume:	<u>34.00</u>	LCY
Rated Payload:	<u>81,600 pounds</u>	Average Volume:	<u>29.00</u>	LCY
Payload Capacity:	<u>51.00 LCY</u>	Adjusted Capacity:	<u>29.00</u>	LCY

Cycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.70 MinutesJob Condition Correction:

Site Altitude: 5400 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: Soft, rutted dirt, no maintenance or water, 4" tire penetration 8.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	700.00	-2.00	8.00	6.00	1069	0.70

Haul Time: 0.70 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	700.00	2.00	8.00	10.00	1183	0.64

Return Time: 0.64 minutesTotal Scraper team cycle time: 2.84 minutesAdjusted for job conditions: 508.52 LCY/HourSelected Number of Scrapers: 1 Scraper(s)Adjusted single scraper team (unit) hourly production: 508.52 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,017.04 LCY/HourUnadjusted unit production/hour: 612.68 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 2 Team(s)Total job time: 21.28 HoursUnit cost: \$1.294 /LCYTotal job cost: \$27,991

REVEGETATION WORKTask description: Reveg 22 acresSite: Grand River Park ProjectPermit Action: 2024Permit/Job#: M2006046**PROJECT IDENTIFICATION**Task #: 006State: ColoradoAbbreviation: NoneDate: 4/30/2024County: GarfieldFilename: M046-006User: TJ1Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
10-34-0, 18-46-0, 5-10-5	250.00	pound	\$0.50	\$124.18
			Total Fertilizer Materials Cost/Acre	\$124.18

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$41.82
Total Fertilizer Application Cost/Acre	\$41.82

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
Alkali Sacaton	0.30	11.71	\$8.54
Bluebunch Wheatgrass - Secar	2.40	7.71	\$26.10
Bottlebrush Squirrelnail	0.90	3.97	\$14.60
Muttongrass	0.20	4.13	\$6.88
Western Wheatgrass - Arriba	3.20	8.08	\$20.80
Saltgrass, Inland	0.50	6.93	\$21.40
Totals Seed Mix	7.50	42.53	\$98.33

Application

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Description	Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)	\$468.00
Total Seed Application Cost/Acre	\$468.00

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Garlon @ 1.0 pt/ac	0.50	ACRE	\$14.75	\$7.37
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$429.79	\$859.57
Total Mulch Materials Cost/Acre				\$866.95

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
Ash, Green	1	Small potted, 2.25 inch diameter (MEANS)	\$1.65	\$2.40	\$1.65
Currant, Golden or Yellow	7	Container, 5 gallon (MEANS)	\$52.50	\$2.40	\$367.50
Cottonwood, Narrowleaf	2	Small potted, 2.25 inch diameter (MEANS)	\$1.65	\$2.40	\$3.30
Pine, Ponderosa	1	Small potted, 2.25 inch diameter (MEANS)	\$1.75	\$2.40	\$1.75
Willow, Sandbar	2	Small potted, 2.25 inch diameter (MEANS)	\$1.65	\$2.40	\$3.30
Sumac, Skunkbrush	5	Container, 5 gallon (MEANS)	\$46.72	\$2.40	\$233.60
Totals Nursery Stock Cost / Acre					\$611.10

JOB TIME AND COST

No. of Acres:	22	Cost /Acre:	\$2,608.05
Estimated Failure Rate:	20%	Cost /Acre*:	\$1,996.95
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING,MULCHING		
Initial Job Cost:	\$57,377.10		
Reseeding Job Cost:	\$8,786.58		
Total Job Cost:	\$66,164		
Job Hours:	35.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization of Reclamation crew/equipment**Site: **Grand River Park Project**Permit Action: 2024Permit/Job#: M2006046**PROJECT IDENTIFICATION**Task #: 007State: ColoradoAbbreviation: NoneDate: 4/30/2024County: GarfieldFilename: M046-007User: TJ1Agency 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
Cat 631G	52.50	\$341.67	\$175.95	2	\$1,035.24	\$351.90	\$500.00
Cat D8T - 8SU	47.71	\$241.38	\$158.17	1	\$399.55	\$158.17	\$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
Submersible pump - 460v, 8 in.	0.70	\$13.62	\$82.29	3	\$287.73	\$246.87	\$250.00

Subtotals: **\$1,919.77** **\$921.52** **\$1,500.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 3/4 T.	\$15.83	1	\$15.83	\$15.83

Subtotals: **\$15.83** **\$15.83**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: SILT, CO
 Total one-way travel distance: 6.00 miles
 Average Travel Speed: 45.00 mph

Total Non-Roadable Mob/Demob Cost * \$15,276.30
 ** two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$4.22
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.13</u>	<u>0.13</u>
Return Time (Hours):	<u>0.13</u>	<u>0.13</u>
Loading Time (Hours):	<u>1.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>1.50</u>	<u>NA</u>
Subtotals:	<u>3.27</u>	<u>0.27</u>

JOB TIME AND COST

Total job time: 6.53 Hours

Total job cost: \$15,281

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Secondary Mobilization of Reclamation crew/equipmentSite: Grand River Park ProjectPermit Action: 2024Permit/Job#: M2006046**PROJECT IDENTIFICATION**Task #: 008State: ColoradoAbbreviation: NoneDate: 4/30/2024County: GarfieldFilename: M046-008User: TJ1Agency 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, 3/4 T.	\$15.83	1	\$15.83	\$15.83

Subtotals: **\$15.83** **\$15.83**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: SILT, CO
 Total one-way travel distance: 6.00 miles
 Average Travel Speed: 45.00 mph

Total Non-Roadable Mob/Demob Cost * \$1,490.99
 ** two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$4.22
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.13</u>	<u>0.13</u>
Return Time (Hours):	<u>0.13</u>	<u>0.13</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.27</u>	<u>0.27</u>

JOB TIME AND COST

Total job time: 2.53 Hours

Total job cost: \$1,495