



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

September 26, 2024

Jason Burkey  
Oldcastle SW Group, Inc. dba United Companies  
2273 River Road  
Grand Junction, CO 81502

**Re: Debeque Sand and Gravel Resource - File No. M-2011-054**  
**Oldcastle SW Group, Inc. dba United Companies**  
**Surety Increase (SI-2)**  
**Surety Increase due to inflation**

Dear Jason Burkey:

On September 26, 2024 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$958,942.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$254,697.00.

Surety Increase due to inflation

Please see the September 24, 2024 inspection report for details regarding why this surety increase is required.

On September 26, 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, 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 November 25, 2024.

|                      |              |
|----------------------|--------------|
| Bond Held:           | \$704,245.00 |
| Prior Liability:     | \$704,245.00 |
| Change in Liability: | \$254,697.00 |



|                             |              |
|-----------------------------|--------------|
| Revised Liability:          | \$958,942.00 |
| Prior Permit Acreage:       | 45.04        |
| Change in Permit Acreage:   | 0.00         |
| Revised Permit Acreage:     | 45.04        |
| Prior Affected Acreage:     | 35.70        |
| Change in Affected Acreage: | 0.00         |
| Revised Affected Acreage:   | 35.70        |

If you have any questions, please contact me by telephone at (970) 210-1272, or by email at Amy.yeldell@state.co.us.

Sincerely,



Amy C. Yeldell  
Environmental Protection Specialist

## COST SUMMARY WORK

Task description: Post 2024 inflationary update

Site: Debeque Sand and Gravel  
Resource

Permit Action: SI-2

Permit/Job#: M2011054

### PROJECT IDENTIFICATION

Task #: ACY  
Date: 9/26/2024  
User: ACY

State: Colorado  
County: Mesa

Abbreviation: None  
Filename: M054-ACY

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

| Task                     | Description                                              | Form Used | Fleet Size | Task Hours    | Cost             |
|--------------------------|----------------------------------------------------------|-----------|------------|---------------|------------------|
| 01a                      | Dewater 10 acres of Pond                                 | PUMPING   | 1          | 282.46        | \$15,968         |
| 02a                      | Backfill 10 ac of Pond                                   | SCRAPER1  | 2          | 170.45        | \$598,131        |
| 03a                      | Topsoil 20.5 ac of disturbance                           | SCRAPER1  | 2          | 16.76         | \$58,828         |
| 04a                      | Reveg 20.5 ac                                            | REVEGE    | 1          | 30.00         | \$64,369         |
| 05a                      | Initial mobilization of reclamation crew and equipment   | MOBILIZE  | 1          | 3.60          | \$10,318         |
| 05b                      | Secondary mobilization of reclamation crew and equipment | MOBILIZE  | 1          | 3.60          | \$1,661          |
| <b><u>SUBTOTALS:</u></b> |                                                          |           |            | <b>506.87</b> | <b>\$749,275</b> |

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

|                      |        |                                    |           |
|----------------------|--------|------------------------------------|-----------|
| Liability insurance: | 2.02   | Total =                            | \$15,135  |
| Performance bond:    | 1.05   | Total =                            | \$7,867   |
| Job superintendent:  | 120.00 | Total =                            | \$9,512   |
| Profit:              | 10.00  | Total =                            | \$74,928  |
|                      |        | TOTAL O & P =                      | \$107,443 |
|                      |        | CONTRACT AMOUNT (direct + O & P) = | \$856,718 |

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

|                                                      |       |         |          |
|------------------------------------------------------|-------|---------|----------|
| Financial warranty processing (legal/related costs): | \$500 | Total = | \$500    |
| Engineering work and/or contract/bid preparation:    | 4.25  | Total = | \$36,411 |
| Reclamation management and/or administration:        | 5.00  |         | \$42,836 |

CONTINGENCY: 3.00      Total = \$22,478

TOTAL INDIRECT COST = \$209,667

**TOTAL BOND AMOUNT (direct + indirect) = \$958,942**

## PUMPING WORK

Task description: Dewater 10 acres of Pond

Site: Debeque Sand and Gravel Permit Action: SI-2 Permit/Job#: M2011054  
Resource

### PROJECT IDENTIFICATION

Task #: 01A State: Colorado Abbreviation: None  
Date: 9/26/2024 County: Mesa Filename: M054-01a  
User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

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

### Cost Breakdown:

|                        |         | Utilization % |
|------------------------|---------|---------------|
| Ownership Cost/Hour:   | \$20.02 | NA            |
| Operating Cost/Hour:   | \$8.28  | 100           |
| Operator Cost/Hour:    | \$28.23 | NA            |
| Total Unit Cost/Hour:  | \$56.53 |               |
| Total Fleet Cost/Hour: | \$56.53 |               |

### PUMPING QUANTITIES

|                                    |                      |         |                                  |             |
|------------------------------------|----------------------|---------|----------------------------------|-------------|
| Initial Pond Volume:               | 250.00               |         | Conversion factor:               | 325850.5800 |
| Final Pond Volume:                 | <b>81,462,645.00</b> | gallons |                                  |             |
| Total Pond Inflow Surface Area:    | 435,600              | Sq. ft. | Unit inflow rate in gph/sq. ft.: | 0.1758      |
| Total Pond Inflow Volume per Hour: | 76,578.48            | gallons |                                  |             |

Source of estimated volume: 10 ac pond 25 ft deep

### PUMPING TIME

|                                  |            |               |
|----------------------------------|------------|---------------|
| Maximum Pump Capacity:           | 170,000    | gph/pump      |
| Estimated Suction Head:          | 5          | feet          |
| Estimated Discharge Head:        | 30         | feet          |
| Total Head:                      | 35         | feet          |
| CPB Pump Capacity:               | 163,200    | gph/pump      |
| Site Altitude:                   | 4,880      | feet          |
| Adjusted Pumping Capacity:       | 326,400    | gph           |
| Initial Unadjusted Pumping Time: | 249.58     | hours         |
| Inflow during Initial Pumping:   | 19,112,394 | gallons       |
| Net Unadjusted Pumping Time:     | 308.13     | Hours         |
| Altitude Adjustment Factor:      | 1.0000     | (3% rule)     |
| Pump Efficiency Factor:          | 0.9167     | (55 min./hr.) |
| Total Adjusted Pumping Time:     | 282.47     | hours         |

### JOB TIME AND COST

Total job time: 282.47 Hours  
Unit cost: \$0.000159 /Gallon Total job cost: \$15,968

**SCRAPER TEAM WORK**Task description: **Backfill 10 ac of Pond**Site: **Debeque Sand and Gravel  
Resource**Permit Action: **SI-2**Permit/Job#: **M2011054****PROJECT IDENTIFICATION**Task #: **02A**  
Date: **9/26/2024**  
User: **ACY**State: **Colorado**  
County: **Mesa**Abbreviation: **None**  
Filename: **M054-02a**Agency or organization name: **DRMS****HOURLY EQUIPMENT**COSTShift basis: **1 per day**

|                                 | Equipment Description |
|---------------------------------|-----------------------|
| -Scraper:                       | Cat 637G w/push-pull  |
| -Dozer:                         | Cat D8T - 8SU         |
| Support Equipment -Load Area:   | Cat D8T - 8SU         |
| -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               | 100        | 50                | 50        | NA                    | NA          |
| Ownership cost/hour:   | \$281.32          | \$173.32   | \$173.32          | \$173.32  | NA                    | NA          |
| Operating cost/hour:   | \$319.35          | \$109.71   | \$54.86           | \$54.86   | NA                    | NA          |
| %Utilization-ripper:   | NA                | NA         | 30                | NA        | NA                    | NA          |
| Ripper own. cost/hour: | NA                | \$0.00     | \$14.53           | \$0.00    | NA                    | NA          |
| Ripper op. cost/hour:  | NA                | \$0.00     | \$2.39            | \$0.00    | NA                    | NA          |
| Operator cost/hour:    | \$57.52           | \$40.04    | \$40.04           | \$40.04   | NA                    | NA          |
| Unit Subtotals:        | \$658.19          | \$323.07   | \$285.13          | \$268.21  | NA                    | NA          |
| Number of Units:       | 4                 | 1          | 1                 | 1         | 0                     | 0           |
| Group Subtotals:       | Work:             | \$2,955.83 | Support:          | \$553.34  | Maint:                | \$0.00      |

Total work team cost/hour: **\$3,509.17****MATERIAL QUANTITIES**Initial volume: **354,093** CCY      Swell factor: **1.135**  
Loose volume: **401,896** LCYSource of estimated volume: **10 ac backfilled 22 ft deep**  
Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

|                       |                              |                    |              |     |
|-----------------------|------------------------------|--------------------|--------------|-----|
| Material weight:      | <b>2,700 lbs/LCY</b>         | Struck Volume:     | <b>24.00</b> | LCY |
| Material description: | <b>Sand and clay - Loose</b> | Heaped Volume:     | <b>34.00</b> | LCY |
| Rated Payload:        | <b>81,600 pounds</b>         | Average Volume:    | <b>29.00</b> | LCY |
| Payload Capacity:     | <b>30.22 LCY</b>             | Adjusted Capacity: | <b>29.00</b> | LCY |

Cycle Time:Scraper Loading Time: 1.00 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 4880 feet

|                 | Scraper | Push Dozer | Source   |
|-----------------|---------|------------|----------|
| Altitude Adj:   | 1.000   | 1.000      | (CAT HB) |
| Job Efficiency: | 0.830   | 0.830      | (CAT HB) |
| Net Correction: | 0.830   | 0.830      |          |

Travel Time:Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0Haul Route:

| Seg # | Haul Distance (Ft) | Grade (%) | Roll. Res (%) | Total Res (%) | Velocity (fpm) | Travel Time (min) |
|-------|--------------------|-----------|---------------|---------------|----------------|-------------------|
| 1     | 600.00             | 0.00      | 5.00          | 5.00          | 1867           | 0.46              |

Haul Time: 0.46 minutesReturn Route:

| Seg # | Haul Distance (Ft) | Grade (%) | Roll. Res (%) | Total Res (%) | Velocity (fpm) | Travel Time (min) |
|-------|--------------------|-----------|---------------|---------------|----------------|-------------------|
| 1     | 600.00             | 0.00      | 5.00          | 5.00          | 2795           | 0.39              |

Return Time: 0.39 minutesTotal Scraper team cycle time: 2.45 minutesAdjusted for job conditions: 1,178.94 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,178.94 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 2,357.88 LCY/HourUnadjusted unit production/hour: 1,420.41 LCY/Hour

Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 2 Team(s)Total job time: 170.45 HoursUnit cost: \$1.488 /LCYTotal job cost: \$598,131

**SCRAPER TEAM WORK**Task description: Topsoil 20.5 ac of disturbanceSite: Debeque Sand and Gravel  
ResourcePermit Action: SI-2Permit/Job#: M2011054**PROJECT IDENTIFICATION**Task #: 03A  
Date: 9/26/2024  
User: ACYState: Colorado  
County: MesaAbbreviation: None  
Filename: M054-03aAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

|                                 | Equipment Description |
|---------------------------------|-----------------------|
| -Scraper:                       | Cat 637G w/push-pull  |
| -Dozer:                         | Cat D8T - 8SU         |
| Support Equipment -Load Area:   | Cat D8T - 8SU         |
| -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              | 100      | 50                | 50        | NA           | NA          |
| Ownership cost/hour:   | \$281.32         | \$173.32 | \$173.32          | \$173.32  | NA           | NA          |
| Operating cost/hour:   | \$319.35         | \$109.71 | \$54.86           | \$54.86   | NA           | NA          |
| %Utilization-ripper:   | NA               | NA       | 30                | NA        | NA           | NA          |
| Ripper own. cost/hour: | NA               | \$0.00   | \$14.53           | \$0.00    | NA           | NA          |
| Ripper op. cost/hour:  | NA               | \$0.00   | \$2.39            | \$0.00    | NA           | NA          |
| Operator cost/hour:    | \$57.52          | \$40.04  | \$40.04           | \$40.04   | NA           | NA          |
| Unit Subtotals:        | \$658.19         | \$323.07 | \$285.13          | \$268.21  | NA           | NA          |
| Number of Units:       | 4                | 1        | 1                 | 1         | 0            | 0           |
| Group Subtotals:       | Work: \$2,955.83 |          | Support: \$553.34 |           | Maint:       | \$0.00      |

Total work team cost/hour: \$3,509.17**MATERIAL QUANTITIES**Initial volume: 33,073 CCY      Swell factor: 1.215  
Loose volume: 40,184 LCYSource of estimated volume: 12" of topsoil over 20.5 acres  
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: 1.00 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 4880 feet

|                 | Scraper | Push Dozer | Source   |
|-----------------|---------|------------|----------|
| Altitude Adj:   | 1.000   | 1.000      | (CAT HB) |
| Job Efficiency: | 0.830   | 0.830      | (CAT HB) |
| Net Correction: | 0.830   | 0.830      |          |

Travel Time:Road Condition: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0Haul Route:

| Seg # | Haul Distance (Ft) | Grade (%) | Roll. Res (%) | Total Res (%) | Velocity (fpm) | Travel Time (min) |
|-------|--------------------|-----------|---------------|---------------|----------------|-------------------|
| 1     | 600.00             | 0.00      | 5.00          | 5.00          | 1867           | 0.42              |

Haul Time: 0.42 minutesReturn Route:

| Seg # | Haul Distance (Ft) | Grade (%) | Roll. Res (%) | Total Res (%) | Velocity (fpm) | Travel Time (min) |
|-------|--------------------|-----------|---------------|---------------|----------------|-------------------|
| 1     | 600.00             | 0.00      | 5.00          | 5.00          | 2795           | 0.39              |

Return Time: 0.39 minutesTotal Scraper team cycle time: 2.41 minutesAdjusted for job conditions: 1,198.51 LCY/HourSelected Number of Scrapers: 2 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,198.51 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 2,397.01 LCY/HourUnadjusted unit production/hour: 1,443.98 LCY/Hour

Optimal Number of Scrapers per push dozer: \_\_\_\_\_

**JOB TIME AND COST**Fleet size: 2 Team(s)Total job time: 16.76 HoursUnit cost: \$1.464 /LCYTotal job cost: \$58,828

**REVEGETATION WORK**Task description: Reveg 20.5 acSite: Debeque Sand and Gravel  
Resource

Permit Action:

SI-2Permit/Job#: M2011054**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 9/26/2024County: MesaFilename: M054-04aUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

| Description                 | Units /<br>Acre | Unit  | Cost / Unit                                         | Cost /Acre      |
|-----------------------------|-----------------|-------|-----------------------------------------------------|-----------------|
| 8-24-24, 10-15-15, 10-20-20 | 200.00          | pound | \$0.62                                              | \$124.28        |
|                             |                 |       | <b>Total Fertilizer<br/>Materials<br/>Cost/Acre</b> | <b>\$124.28</b> |

**Application**

| Description                                     | Cost /Acre     |
|-------------------------------------------------|----------------|
| Tractor towed spreader (MEANS 32 01 90.13 0120) | \$43.12        |
| <b>Total Fertilizer Application Cost/Acre</b>   | <b>\$43.12</b> |

**TILLING**

| Description                                      | Cost /Acre      |
|--------------------------------------------------|-----------------|
| Disc harrowing, 6" deep (MEANS 32 91 13.23 6100) | \$117.61        |
| <b>Total Tilling Cost/Acre</b>                   | <b>\$117.61</b> |

**SEEDING**

| Seed Mix                      | Rate –<br>PLS<br>LBS /<br>Acre | Seeds<br>per SQ.<br>FT | Cost /Acre      |
|-------------------------------|--------------------------------|------------------------|-----------------|
| Alkali Sacaton                | 0.30                           | 11.71                  | \$8.73          |
| Bottlebrush Squirreltail      | 0.90                           | 3.97                   | \$22.86         |
| Muttongrass                   | 0.20                           | 4.13                   | \$9.53          |
| Western Wheatgrass - Arriba   | 3.20                           | 8.08                   | \$28.91         |
| Saltgrass, Inland             | 0.50                           | 6.93                   | \$24.92         |
| Bluebunch Wheatgrass - Goldar | 2.40                           | 7.71                   | \$27.50         |
| <b>Totals Seed Mix</b>        | <b>7.50</b>                    | <b>42.53</b>           | <b>\$122.45</b> |

**Application**

| Description                             | Cost /Acre      |
|-----------------------------------------|-----------------|
| Drill Seeding (DRMS Survey Cost)        | \$236.64        |
| <b>Total Seed Application Cost/Acre</b> | <b>\$236.64</b> |

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

| Description                                 | Units /<br>Acre | Unit | Cost / Unit | Cost /Acre        |
|---------------------------------------------|-----------------|------|-------------|-------------------|
| Herbicide - 2,4D @ 1.0 pt/ac                | 2.00            | ACRE | \$4.13      | \$8.25            |
| Herbicide - Curtail @ 4.0 pt/ac             | 2.00            | ACRE | \$36.14     | \$72.29           |
| Herbicide - Glyphosate (Journey)@ 1.0 pt/ac | 2.00            | ACRE | \$3.86      | \$7.73            |
| Straw, delivered {MEANS 31 25 14.16 1200}   | 2.00            | TON  | \$492.78    | \$985.56          |
| <b>Total Mulch Materials Cost/Acre</b>      |                 |      |             | <b>\$1,073.83</b> |

**Application**

| Description                                     | Cost /Acre      |
|-------------------------------------------------|-----------------|
| Crimping, with tractor {DMG survey data}        | \$85.37         |
| Power mulcher (MEANS 32 91 13.16 0350)          | \$157.25        |
| Weed spray, hand, aquatic area, nox. [DMG]      | \$199.01        |
| Weed spray, truck, non-aquatic area, nox. [DMG] | \$83.26         |
| <b>Total Mulch Application Cost/Acre</b>        | <b>\$524.90</b> |

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

|                                  |                                         |              |            |
|----------------------------------|-----------------------------------------|--------------|------------|
| No. of Acres:                    | 20.5                                    | Cost /Acre:  | \$2,242.83 |
| Estimated Failure Rate:          | 40%                                     | Cost /Acre*: | \$2,242.83 |
| *Selected Replanting Work Items: | FERTILIZING, TILLING, SEEDING, MULCHING |              |            |
| Initial Job Cost:                | \$45,978.02                             |              |            |
| Reseeding Job Cost:              | \$18,391.21                             |              |            |
| Total Job Cost:                  | \$64,369                                |              |            |
| Job Hours:                       | 30.00                                   |              |            |

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Initial mobilization of reclamation crew and equipment**Site: **Debeque Sand and Gravel**  
**Resource**

Permit Action:

SI-2Permit/Job#: M2011054**PROJECT IDENTIFICATION**Task #: 05A  
Date: 9/26/2024  
User: ACYState: Colorado  
County: MesaAbbreviation: None  
Filename: M054-05aAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per day  
Cost 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:**

| <b>Available Rig Capacities</b> | <b>0-25 Tons</b> | <b>26-50 Tons</b> | <b>51+ Tons</b> |
|---------------------------------|------------------|-------------------|-----------------|
| Ownership Cost/Hour:            | \$10.44          | \$22.18           | \$23.94         |
| Operating Cost/Hour:            | \$26.48          | \$54.55           | \$55.65         |
| Operator Cost/Hour:             | \$22.52          | \$22.52           | \$22.52         |
| Helper Cost/Hour:               | \$0.00           | \$23.53           | \$23.53         |
| Total Unit Cost/Hour:           | \$59.44          | \$122.78          | \$125.64        |

**NON ROADABLE EQUIPMENT:**

| Machine Description                       | Weight/<br>Unit<br>(TONS) | Owner ship<br>Cost/hr/ unit | Haul Rig<br>Cost/hr/unit | Fleet<br>Size | Haul Trip<br>Cost/hr/<br>fleet | Return Trip<br>Cost/hr/ fleet | DOT Permit<br>Cost/ fleet |
|-------------------------------------------|---------------------------|-----------------------------|--------------------------|---------------|--------------------------------|-------------------------------|---------------------------|
| Submersible pump<br>- 460v, 8 in.         | 0.70                      | \$9.89                      | \$59.44                  | 1             | \$69.33                        | \$59.44                       | \$250.00                  |
| Cat 637G w/push-<br>pull                  | 59.59                     | \$281.32                    | \$125.64                 | 2             | \$813.92                       | \$251.28                      | \$500.00                  |
| Cat D8T - 8SU                             | 53.08                     | \$187.85                    | \$125.64                 | 3             | \$940.47                       | \$376.92                      | \$750.00                  |
| Drill/Broadcast<br>Seeder with<br>Tractor | 25.00                     | \$41.02                     | \$59.44                  | 1             | \$100.46                       | \$59.44                       | \$250.00                  |
| Power Mulcher<br>(Bowie LD-90)            | 6.00                      | \$27.21                     | \$59.44                  | 1             | \$86.65                        | \$59.44                       | \$250.00                  |

Subtotals: **\$2,010.83** **\$806.52** **\$2,000.00****ROADABLE EQUIPMENT:**

| Machine Description                  | Total Cost/hr/<br>unit | Fleet Size | Haul Trip<br>Cost/hr/ fleet | Return Trip<br>Cost/hr/ fleet |
|--------------------------------------|------------------------|------------|-----------------------------|-------------------------------|
| Light Duty Pickup, 4x4, 1 T.<br>Crew | \$52.83                | 1          | \$52.83                     | \$52.83                       |

Subtotals: **\$52.83** **\$52.83**

**EQUIPMENT HAUL DISTANCE and Time**

|                                                        |                       |       |
|--------------------------------------------------------|-----------------------|-------|
| Nearest Major City or Town within project area region: | GRAND JUNCTION,<br>CO |       |
| Total one-way travel distance:                         | 20.00                 | miles |
| Average Travel Speed:                                  | 50.00                 | mph   |
| Total Non-Roadable Mob/Demob Cost *                    | \$10,275.54           |       |
| '* two round trips with haul rig:                      |                       |       |
| Total Roadable Mob/Demob Cost **                       | \$42.26               |       |
| '** one round trip, no haul rig:                       |                       |       |

**Transportation Cycle Time:**

|                         | Non-Roadable<br>Equipment | Roadable<br>Equipment |
|-------------------------|---------------------------|-----------------------|
| Haul Time (Hours):      | 0.40                      | 0.40                  |
| Return Time (Hours):    | 0.40                      | 0.40                  |
| Loading Time (Hours):   | 0.50                      | NA                    |
| Unloading Time (Hours): | 0.50                      | NA                    |
| Subtotals:              | 1.80                      | 0.80                  |

**JOB TIME AND COST**

|                 |          |       |
|-----------------|----------|-------|
| Total job time: | 3.60     | Hours |
| Total job cost: | \$10,318 |       |

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: Secondary mobilization of reclamation crew and equipmentSite: Debeque Sand and Gravel  
Resource

Permit Action:

SI-2Permit/Job#: M2011054**PROJECT IDENTIFICATION**Task #: 05BState: ColoradoAbbreviation: NoneDate: 9/26/2024County: MesaFilename: M054-05bUser: 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:**

| <b>Available Rig Capacities</b> | <b>0-25 Tons</b> | <b>26-50 Tons</b> | <b>51+ Tons</b> |
|---------------------------------|------------------|-------------------|-----------------|
| Ownership Cost/Hour:            | \$10.44          | \$22.18           | \$23.94         |
| Operating Cost/Hour:            | \$26.48          | \$54.55           | \$55.65         |
| Operator Cost/Hour:             | \$22.52          | \$22.52           | \$22.52         |
| Helper Cost/Hour:               | \$0.00           | \$23.53           | \$23.53         |
| Total Unit Cost/Hour:           | \$59.44          | \$122.78          | \$125.64        |

**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               | \$41.02                  | \$59.44               | 1          | \$100.46                 | \$59.44                    | \$250.00               |
| Power Mulcher (Bowie LD-90)         | 6.00                | \$27.21                  | \$59.44               | 1          | \$86.65                  | \$59.44                    | \$250.00               |
| Subtotals:                          |                     |                          |                       |            | <b>\$187.11</b>          | <b>\$118.88</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 | \$52.83             | 1          | \$52.83                  | \$52.83                    |
| Subtotals:                        |                     |            | <b>\$52.83</b>           | <b>\$52.83</b>             |

**EQUIPMENT HAUL DISTANCE and Time**

|                                                        |                       |       |
|--------------------------------------------------------|-----------------------|-------|
| Nearest Major City or Town within project area region: | GRAND JUNCTION,<br>CO |       |
| Total one-way travel distance:                         | 20.00                 | miles |
| Average Travel Speed:                                  | 50.00                 | mph   |
| Total Non-Roadable Mob/Demob Cost *                    | \$1,619.01            |       |
| ** two round trips with haul rig:                      |                       |       |
| Total Roadable Mob/Demob Cost **                       | \$42.26               |       |
| ** one round trip, no haul rig:                        |                       |       |

**Transportation Cycle Time:**

|                         | Non-<br>Roadable<br>Equipment | Roadable<br>Equipment |
|-------------------------|-------------------------------|-----------------------|
| Haul Time (Hours):      | 0.40                          | 0.40                  |
| Return Time (Hours):    | 0.40                          | 0.40                  |
| Loading Time (Hours):   | 0.50                          | NA                    |
| Unloading Time (Hours): | 0.50                          | NA                    |
| Subtotals:              | 1.80                          | 0.80                  |

**JOB TIME AND COST**

|                 |         |       |
|-----------------|---------|-------|
| Total job time: | 3.60    | Hours |
| Total job cost: | \$1,661 |       |