#### **COST SUMMARY WORK**

| Dunn P  | it       | Permit Action:  | Revised Bond<br>Estimate | Permit/Jol    | b#: <u>M2021059</u> |
|---------|----------|-----------------|--------------------------|---------------|---------------------|
| ROJECT  | DENTIFI  | CATION          |                          |               |                     |
| Task #: | 00R      | State: Colorado |                          | Abbreviation: | None                |
| Datas   | 3/8/2022 | County: Weld    |                          | Filename:     | M059-00R            |
| Date:   |          |                 |                          |               | •                   |

#### TASK LIST (DIRECT COSTS)

| Task | Daniel de la constant | Form      | Fleet  | Task<br>Hours | Cost      |
|------|--|-----------|--------|---------------|-----------|
|      | Description  | Used      | Size   |               |           |
| 01R  | Revegetate C1 Shoreline  | REVEGE    | 1      | 40.00         | \$1,726   |
| 02R  | Topsoil C1 Shoreline   | TRUCK1    | 1      | 13.06         | \$6,114   |
| 03R  | Revegetate C1 Wetlands   | REVEGE    | 1      | 20.00         | \$885     |
| 04R  | Slope C1 West Slope  | DOZER     | 1      | 3.72          | \$629     |
| 05R  | Rip Access Road  | RIPPER    | 1      | 0.73          | \$132     |
| 06R  | Revegetate Access Road   | REVEGE    | 1      | 20.00         | \$517     |
| 07R  | Mob / Demob  | MOBILIZE  | 1      | 5.37          | \$3,649   |
| 08R  | Bond to Backfill C1 until Augmentation Decree  | SITEMAINT | 1      | 160.00        | \$300,000 |
|      | , and the second | ENANCE    |        |               | ·         |
|      |  | TALS:     | 262.88 | \$313,652     |           |

## **INDIRECT COSTS**

#### **OVERHEAD AND PROFIT:**

Liability insurance: 2.02 Total = \$6,336 Performance bond: 1.05 Total = \$3,293 \$9,468 Job superintendent: Total = 131.44 Profit: 10.00 Total = \$31,365

TOTAL O & P = \$50,462

CONTRACT AMOUNT (direct + O & P) =  $\sqrt{364,114}$ 

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Engineering work and/or contract/bid preparation: 4.25 Total = \$15,475

Reclamation management and/or administration: 5.00 \$18,206

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$84,642

TOTAL BOND AMOUNT (direct + indirect) = \$\\_\$398,000 (Rounded)

# **REVEGETATION WORK**

| Dunn Pit                             | Permit Action: Revised Bond Estimate Permit/Job#: |                 |              |             |   | #: <u>M2021059</u> |
|--------------------------------------|---|-----------------|--------------|-------------|---|--------------------|
| ROJECT IDENTIFIC                     | CATION  |                 |              |             |   |                    |
| Task #: 01R Date: 3/8/2022 User: PSH | State: Colora<br>County: Weld                     | do              |              | -           | oreviation: _<br>Filename: _            | None<br>M059-01R   |
| Agency or organi                     | zation name: DRMS                                 |                 |              |             |   |                    |
| ERTILIZING                           |   |                 |              |             |   |                    |
| Anterials                            |   |                 |              |             |   |                    |
| Description                          |   | Units /<br>Acre | Unit         | Cost        | :/Unit                                  | Cost /Acre         |
|                                      |   |                 |              | \$          |   | \$                 |
|                                      |   |                 |              | Tota        | al Fertilizer<br>Materials<br>Cost/Acre | \$0.00             |
|                                      |   |                 |              |             |   |                    |
| application                          |   |                 |              |             |   |                    |
| Description                          |   |                 |              |             |   | Cost /Acre         |
|                                      |   |                 |              |             |   | \$                 |
|                                      |   | Total           | Fertilizer A | pplication  | n Cost/Acre                             | \$0.00             |
| TILLING                              |   |                 |              |             |   |                    |
| Description                          |   |                 |              |             |   | Cost /Acre         |
| Chisel plowing {DMG}                 | }   |                 |              |             |   | \$96.50            |
|                                      | (MEANS 31 31 16.13 3100)                          | 1               |              |             |   | \$290.40           |
|                                      |   |                 | То           | tal Tillinş | g Cost/Acre                             | \$386.90           |
|                                      |   |                 |              |             |   |                    |
| SEEDING                              |   |                 |              |             |   |                    |
|                                      |   |                 | ]            | Rate –      |   |                    |

| Seed Mix                    | Rate –<br>PLS<br>LBS /<br>Acre | Seeds<br>per SQ.<br>FT | Cost /Acre |
|-----------------------------|--------------------------------|------------------------|------------|
| Blue Grama - Hachita        | 0.75                           | 12.24                  | \$11.98    |
| Alkali Sacaton              | 1.00                           | 39.03                  | \$28.48    |
| Alkaligrass, Fult's         | 0.50                           | 13.77                  | \$1.81     |
| Canada Wildrye              | 3.00                           | 7.92                   | \$32.52    |
| Bottlebrush Squirreltail    | 2.25                           | 9.92                   | \$36.51    |
| Western Wheatgrass - Arriba | 10.00                          | 25.25                  | \$65.00    |
| Saltgrass, Inland           | 0.50                           | 6.93                   | \$21.40    |
|                             |                                |                        |            |

|             | Totals Seed Mix | 18.00 | 115.06 | \$197.70 |
|-------------|-----------------|-------|--------|----------|
| Application |                 |       | 1      | 1        |

#### **Application**

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

## **MULCHING and MISCELLANEOUS**

#### Materials

| Description                             | Units /<br>Acre | Unit | Cost / Unit | Cost /Acre |
|---|-----------------|------|-------------|------------|
| Hay, delivered {MEANS 31 25 14.16 1200) | 10.00           | BALE | \$12.28     | \$122.80   |
| Herbicide - 2,4D @ 1.0 pt/ac            | 2.00            | ACRE | \$2.98      | \$5.96     |
| Total Mulch Materials Cost/Acre         |                 |      |             | \$128.76   |

**Application** 

| Description                              |  | Cost /Acre |
|--|--|------------|
| Crimping, with tractor {DMG survey data} |  | \$71.57    |
|  |  |            |
|  | <b>Total Mulch Application Cost/Acre</b> | \$71.57    |

#### **NURSERY STOCK PLANTING**

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

## **JOB TIME AND COST**

 No. of Acres:
 1.47
 Cost /Acre:
 \$1,016.93

 Estimated Failure Rate:
 25%
 Cost /Acre\*:
 \$630.03

\*Selected Replanting Work Items: SEEDING,MULCHING

Initial Job Cost: \$1,494.89

Reseeding Job Cost: \$231.54

Total Job Cost: \$1,726

Job Hours: 40.00

# TRUCK/LOADER TEAM WORK

| ite: <b>Dunn Pit</b>       |                          | Permit Acti                       | on: Revised B Estimate              | ond              | Permit/Job#: _  | M2021059      |
|----------------------------|--------------------------|-----------------------------------|-------------------------------------|------------------|---|---------------|
| PROJECT IDEN               | TIFICATION               | States Colone                     | do                                  | ΛL               | haviotion. No   | <b></b>       |
| Task #: 02R<br>Date: 3/8/2 | 2022                     | State: Colora County: Weld        | ido                                 | Abi              | breviation: No More Filename: More More More More More More More More | ne<br>)59-02R |
| User: PSH                  |                          | <u> </u>                          |                                     |                  |   |               |
| Agency of                  | r organization nan       | ne: DRMS                          |                                     |                  |   |               |
| HOUDI V FOU                | DMENT COST               | 1                                 |                                     | C1:64 h          | .: 1 do   |               |
| HOURLY EQUI                | PMENT COST               | _                                 |                                     |                  | sis: 1 per day  |               |
| -                          | Fruck Loader Tea         |                                   | Equipment Descr<br>eric 7-8 cy, 4x4 | iption           |   |               |
|                            | Truck Loader Tea.        |                                   | Γ 928Hz                             |                  |   |               |
| Supp                       | ort Equipment -L         |                                   | D6T XL                              |                  |   |               |
| Dood M                     |                          | imp Area: NA                      | Γ 1 4 <b>λ</b> 4                    |                  |   |               |
| Road IV.                   | laintenance –Moto<br>-Wa | ter Truck: NA                     | Γ 14M                               |                  |   |               |
|                            |                          |                                   |                                     |                  |   |               |
| <b>Cost Breakdown:</b>     | Truck/Loa                |                                   |                                     | Equipment        |   | nce Equipmen  |
|                            | Truck                    | Loader                            | Load Area                           | Dump Area        | Motor<br>Grader   | Water Truck   |
| Utilization-machine:       | 100                      | 15                                | 50                                  | NA               | 75  | N/            |
| wnership cost/hour:        | \$16.03                  | \$30.09                           | \$64.38                             | NA               | \$85.80   | N/            |
| Operating cost/hour:       | \$25.50                  | \$4.48                            | \$32.31                             | NA               | \$45.30   | N/            |
| % Utilization-riper:       | NA                       | 0                                 | NA                                  | NA               | NA  | N/            |
| per own. cost/hour:        | NA                       | \$0.00                            | \$0.00                              | NA               | \$0.00  | N/            |
| ipper op. cost/hour:       | NA                       | \$0.00                            | \$0.00                              | NA               | \$0.00  | N/            |
| Operator cost/hour:        | \$0.00                   | \$35.97                           | \$40.04                             | NA               | \$46.87   | N/            |
| Unit Subtotals:            | \$41.53                  | \$70.54                           | \$136.73                            | NA               | \$177.97  | N/            |
| Number of Units:           | 2                        | 1                                 | 1                                   | 0                | 1   |               |
| Group Subtotals:           | Work:                    | \$153.60                          | Support:                            | \$136.73         | Maint:  | \$177.97      |
| Total work team co         | st/hour: <b>\$468.30</b> |                                   |                                     |                  |   |               |
|                            |                          |                                   |                                     |                  |   |               |
| MATERIAL QU                | <u>ANTITIES</u>          |                                   |                                     |                  |   |               |
| Initial volume             | e: <u>2,378</u>          | CCY                               | Swell                               | factor: 1.000    |   |               |
| Loose volume               | e: <b>2,37</b> 8         | 8 LCY                             |                                     |                  |   |               |
| So                         | ource of estimated       | volume: Divis                     | ion of Reclamati                    | ion, Mining & Sa | fety  |               |
| Source                     | e of estimated swe       |                                   | Iandbook                            | _                | •   |               |
|                            | Material Purcha          | ase Cost: $\frac{\$0.00}{\$0.00}$ |                                     |                  |   |               |
|                            |                          | usu trivi: MIIIII                 | 1                                   |                  |   |               |
|                            | To                       | mai cost. <u>\$0.00</u>           |                                     |                  |   |               |
|                            | 10                       | - <del>- ψ0.00</del>              |                                     |                  |   |               |

Pounds/LCY

1,600

Top Soil

Material weight:

Description:

| Rated Payload:                    | 20,300                            | Pounds                  |                 |                    |                     |         |
|-----------------------------------|-----------------------------------|-------------------------|-----------------|--------------------|---------------------|---------|
| Payload Capacity:                 | 12.69                             | LCY                     |                 |                    |                     |         |
|                                   |                                   |                         |                 |                    |                     |         |
| Truck Bed (volume) Basis:         |                                   |                         |                 |                    |                     |         |
| Struck Volume:                    | 7.00                              | LCY                     |                 |                    |                     |         |
| Heaped Volume:                    |                                   | LCY                     |                 |                    |                     |         |
| Average Volume:                   |                                   | LCY                     |                 |                    |                     |         |
| Adjusted Volume:                  |                                   | LCY                     |                 |                    |                     |         |
|                                   |                                   |                         |                 |                    |                     |         |
| Final T                           | ruck Volume E                     | Based on Number of L    | oader Passes:   | 5.85               | LCY                 |         |
| Loading Tool Capacity             |                                   |                         |                 |                    |                     |         |
| <del></del>                       |                                   |                         | Buck            | tet Size Class: N  | JA                  |         |
| Rated Capacity:                   | 3.000                             | LCY (heaped)            | Buch            |                    | 17.1                |         |
| Bucket Fill Factor:               | 0.975                             |                         | mixed moist a   | ggregates (95-1009 | %) 0 975            | _       |
| Adjusted Capacity:                | 2.925                             | LCY                     | imzed moist ag  | sgregues (75 100)  | 0.513               | =       |
| , i , <u> </u>                    |                                   |                         |                 |                    |                     |         |
| <b>Job Condition Corrections:</b> |                                   | Site                    | Altitude (ft.): | <u>4745</u> feet   |                     |         |
|                                   | Truck                             | Loader                  | Source          |                    |                     |         |
| Altitude Adj:                     | 1.000                             | 1.000                   | (CAT HE         | 3)                 |                     |         |
| Job Efficiency:                   | 0.830                             | 0.830                   | (CAT HE         | 3)                 |                     |         |
| Not Comment on                    | 0.020                             | 0.020                   |                 |                    |                     |         |
| Net Correction:                   | 0.830                             | 0.830                   |                 |                    |                     |         |
| <b>Loading Tool Cycle Time:</b>   | N                                 | Number of Loading To    | ol Passes Requ  | uired to Fill      | 2                   | passes  |
| Excavators and Front Shovels      | 3:                                |                         |                 | Truck:             |                     |         |
| Machine Cycle Time vs             | <del></del>                       | n Rating: NA            |                 |                    |                     |         |
| Selected Value w                  |                                   |                         |                 |                    |                     |         |
| Track Loaders - N                 | Material Descri                   | ption:                  |                 |                    |                     |         |
| Cycle Time Elements (min.):       |                                   |                         |                 |                    |                     |         |
| Load: NA                          | М                                 | aneuver: NA             |                 | Dump: 0.10         | 0                   |         |
|                                   | _                                 |                         |                 |                    |                     |         |
| Wheel and Track                   | Loaders - Una                     | djusted Basic Loader    |                 |                    | 0.475 min           | utes    |
|                                   |                                   |                         | n               | naneuver):         |                     |         |
| Cycle Time Factors                | 1                                 |                         |                 | Factor (min.)      | Source              |         |
| Material:                         | Material up to 1/8" diameter 0.02 |                         |                 | 0.020              | (Cat HB)            | _       |
| Stockpile:                        | Conveyor or 0.01                  | dozer piled 10 ft. high | or less         | 0.010              | (Cat HB)            |         |
| Truck Ownership:                  |                                   | nership of trucks and   | loaders -       | 0.040              | (Cot IID)           |         |
|                                   | 0.04                              |                         |                 | -0.040             | (Cat HB)            |         |
| Operation:                        | Constant oper                     |                         |                 | -0.040             | (Cat HB)            | _       |
| Dump Target:                      | Nominal targ                      | Net Cycle Time          | A divistment:   | -0.050             | (Cat HB)<br>minutes | _       |
|                                   |                                   | Adjusted Loader         |                 |                    | _ minutes           |         |
|                                   |                                   | Net Load Tim            |                 | 0.425<br>0.525     | minutes             |         |
|                                   |                                   | Net Load Till           | e per fruck.    | 0.323              | _ illiliates        |         |
| <b>Truck Cycle Time:</b>          |                                   |                         |                 |                    |                     |         |
| Truck Exchange Time:              | 0.50                              | Minutes                 | Adjusted        | for site altitude: | 0.500               | Minutes |
| Truck Load Time:                  | 0.525                             | Minutes                 | Adjusted        | for site altitude: | 0.525               | Minutes |
| Truck Maneuver and Dump           |                                   | Minutes                 | Adjusted        | for site altitude: | 0.800               | Minutes |
| Time:                             |                                   | _                       |                 | -                  |                     |         |

<u>Truck Travel (Haul & Return) Time:</u> <u>maintained 3.0</u>

Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered,

Haul Route:

|       | • •                   |           |                  |               |                   |                         |
|-------|-----------------------|-----------|------------------|---------------|-------------------|-------------------------|
| Seg # | Haul Distance<br>(Ft) | Grade (%) | Roll. Res<br>(%) | Total Res (%) | Velocity<br>(fpm) | Travel<br>Time<br>(min) |
| 1     | 1200.00               | 5.00      | 3.00             | 8.00          | 1381              | 0.898                   |

Haul Time: **0.898** minutes Return Route: Roll. Res Total Res Travel Seg# Haul Distance Grade (%) Velocity Time (Ft) (%) (%) (fpm) (min) 1200.00 3.00 -2.00 2938 -5.00 0.476

Return Time: 0.476 minutes
Total Truck Cycle Time: 3.199 minutes

Loading Tool unit

Production 342.44 LCY/Hour Adjusted for job efficiency: 284.22 LCY/Hour Truck Unit Production 109.72 LCY/Hour Adjusted for job efficiency: 91.07 LCY/Hour

Optimal No. of Trucks: 3 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 182.14 LCY/Hour Adjusted single truck/loader team production: 182.14 LCY/Hour Adjusted multiple truck/loader team production: 182.14 LCY/Hour

**JOB TIME AND COST** 

 Fleet size:
 1
 Team(s)
 Total job time:
 13.06
 Hours

 Unit cost:
 \$2.571
 /LCY
 Total job cost:
 \$6,114

# **REVEGETATION WORK**

| Dunn Pit  | Permit Action: | Revis<br>Estin | sed Bond<br>nate | Permit/Job#                                | #: <u>M2021059</u> |
|---|----------------|----------------|------------------|--|--------------------|
| Task #: 03R State: Date: 3/8/2022 County: User: PSH  Agency or organization name: | Weld           |                |                  |  | None<br>M059-03R   |
| ERTILIZING  (Interials  | Un             | its /          |                  |  |                    |
| Description   | Ac             | re             | Unit             | Cost / Unit                                | Cost /Acre         |
|   |                |                |                  | \$   | \$                 |
|   |                |                |                  | Total Fertilizer<br>Materials<br>Cost/Acre | \$0.00             |
|   | ·              |                |                  |  |                    |
| Application   |                |                |                  |  | Cost /Acre         |
| Application  Description  |                |                |                  |  |                    |
|   |                |                |                  |  | \$                 |

| Description                                    | Cost /Acre |
|--|------------|
| Chisel plowing {DMG}                           | \$96.50    |
| Weed control spraying (MEANS 31 31 16.13 3100) | \$290.40   |
|  |            |
| Total Tilling Cost/Acre                        | \$386.90   |

## **SEEDING**

| Seed Mix                | Rate –<br>PLS<br>LBS /<br>Acre | Seeds<br>per SQ.<br>FT | Cost /Acre |
|-------------------------|--------------------------------|------------------------|------------|
| Indiangrass - Cheyenne  | 1.20                           | 3.66                   | \$13.56    |
| Switchgrass - Blackwell | 1.50                           | 13.40                  | \$17.25    |
| Alkali Bulrush          | 1.50                           | 14.81                  | \$60.75    |
| Creeping Spike Rush     | 0.60                           | 8.54                   | \$108.60   |
| Needle Spike Rush       | 0.40                           | 5.69                   | \$90.80    |
| Canada Wildrye          | 1.50                           | 3.96                   | \$16.26    |
| Softstem Bulrush        | 0.60                           | 7.58                   | \$78.63    |
| Hardstem Bulrush        | 0.60                           | 5.58                   | \$89.82    |

| Three Square Bulrush | 0.60  | 4.13  | \$103.05 |
|----------------------|-------|-------|----------|
| Cordgrass, Prairie   | 0.70  | 2.94  | \$56.00  |
| Nebraska Sedge       | 0.60  | 12.57 | \$99.90  |
| Woolly Sedge         | 0.20  | 1.48  | \$30.30  |
|                      |       |       |          |
| Totals Seed Mix      | 10.00 | 84.33 | \$764.92 |

**Application** 

| Description                      | Cost /Acre    |
|----------------------------------|---------------|
| Drill Seeding (DRMS Survey Cost) | \$232.00      |
|                                  |               |
| Total Seed Application Cost/A    | Acre \$232.00 |

## **MULCHING and MISCELLANEOUS**

#### Materials

| Description                             | Units /<br>Acre | Unit | Cost / Unit | Cost /Acre |
|---|-----------------|------|-------------|------------|
| Hay, delivered {MEANS 31 25 14.16 1200} | 10.00           | BALE | \$12.28     | \$122.80   |
| Herbicide - 2,4D @ 1.0 pt/ac            | 2.00            | ACRE | \$2.98      | \$5.96     |
|   |                 |      |             |            |
| <b>Total Mulch Materials Cost/Acre</b>  |                 |      |             | \$128.76   |

**Application** 

| Description                              |  | Cost /Acre |
|--|--|------------|
| Crimping, with tractor {DMG survey data} |  | \$71.57    |
|  |  |            |
|  | <b>Total Mulch Application Cost/Acre</b> | \$71.57    |

## **NURSERY STOCK PLANTING**

| Common Name | No /<br>Acre | Type and Size | Planting<br>Cost | Fertilizer<br>Pellet Cost | Cost /Acre |
|-------------|--------------|---------------|------------------|---------------------------|------------|
|             |              |               |                  |                           | \$         |
|             |              |               |                  |                           |            |
|             |              | Totals 1      | Nursery Stoc     | k Cost / Acre             | \$0.00     |

## **JOB TIME AND COST**

 No. of Acres:
 0.47
 Cost /Acre:
 \$1,584.15

 Estimated Failure Rate:
 25%
 Cost /Acre\*:
 \$1,197.25

\*Selected Replanting Work Items: SEEDING,MULCHING

## **BULLDOZER WORK**

| Task descripti   | ion:  | Slope                             | C1 West S            | lope              |                          |                            |                     |
|--|---|-----------------------------------|----------------------|-------------------|--------------------------|----------------------------|---------------------|
| e: <b>Dunn Pit</b>   |   |                                   | Per                  | rmit Action:      | Revised Bond<br>Estimate | Permit/Jol                 | o#: <u>M2021059</u> |
| PROJECT II   | DENTIF  | CATION                            | J                    |                   |                          |                            |                     |
| Task #:  | 04R<br>3/8/2022<br>PSH  |                                   | State:<br>County:    | Colorado<br>Weld  |                          | Abbreviation:<br>Filename: | None<br>M059-04R    |
| Agen   | cy or orga  | nization na                       | ame: DF              | RMS               |                          |                            |                     |
| HOURLY E   | OUIPME  | NT COS                            | $\mathbf{T}$         |                   |                          |                            |                     |
| Basic Macl<br>Horsepo<br>Blade T<br>Attachn<br>Shift B   | nine: Ca<br>ower: 18<br>Oype: Se<br>nent: Na                          | it D6T XL<br>5<br>mi-Univer       |                      |                   |                          |                            |                     |
| Data Soi   |   | RG)                               |                      |                   | <del>-</del>             |                            |                     |
| Cost Breakdow<br>Ownership C   | Cost/Hour:  |                                   |                      | \$64.38           | Utilization %<br>NA      |                            |                     |
| Operating C  | Cost/Hour: pper own.  | -                                 |                      | \$64.62           | 100                      |                            |                     |
| C  | Cost/Hour:  |                                   |                      | \$0.00            | NA                       |                            |                     |
| Ripper op. C<br>Operator C   |   | -                                 |                      | \$0.00<br>\$40.04 | 0<br>NA                  |                            |                     |
| MATERIAL  Initial Volum Swell fac Loose volum Source of esti Source of esti factor:  HOURLY PI Average push Unadjusted h | me: 1,50 tor: 1.00 me: 1,50 imated vol imated swo  RODUCT a distance: | 54<br>50<br>54 LCY<br>ume:<br>ell | Division<br>Cat Hand | book              | on, Mining & Safety      |                            |                     |
| production:  Materials con   | nsistency d   | escription:                       | Partly               | consolidated      | stockpile 1.1            |                            |                     |
| Average push gradient:   | 1   | -30 %                             |                      |                   |                          |                            |                     |
| Average site   | altitude:   | 4,745 f                           | eet                  |                   |                          |                            |                     |
| Material weig  | ght:  | 1,600 1                           | bs/LCY               |                   |                          |                            |                     |
| Weight descr   | iption:   | Top So                            | il                   |                   |                          |                            |                     |
| Job Condition  | Correction  | Factor                            |                      |                   | Source                   |                            |                     |

| 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:           | 0.600 | (FND-SF)      |
| Push gradient:        | 1.601 | (CAT HB)      |
| Altitude:             | 1.000 | (CAT HB)      |
| Material Weight:      | 1.438 | (CAT HB)      |
| Blade type:           | 1.000 | (PAT)         |

Net correction: 0.9459

Adjusted unit 420.55 LCY/hr production: Adjusted fleet

420.55 LCY/hr

## **JOB TIME AND COST**

production:

Fleet size: 1 Dozer(s) Unit cost: \$0.402/LCY

Total job time: **3.72** Hours Total job cost: \$629

# **BULLDOZER RIPPING WORK**

| Task description   | Rip Access   | , Roud   |  |  |   |           | _        |
|--|--|--|--|--|---|-----------|----------|
| Site: <b>Dunn Pit</b>  |  | Permit Action:   | Revised Bor<br>Estimate  | nd   | Permit/Job  | #: M20210 | 59       |
|  | ENTIFICATION   |  |  |  |   |           |          |
| Task #: 05   | SR S   | State: Colorado  |  | Abb  | reviation:  | None      |          |
| Date: 3/   | 8/2022 Cou   | unty: Weld   |  | <del></del>  | Filename:   | M059-05R  |          |
| User: PS   | SH   |  |  |  | _   |           |          |
| Agency   | or organization name:  | DRMS   |  |  |   |           | =        |
| <b>HOURLY EQU</b>  | UIPMENT COST   |  |  |  |   |           |          |
| Basic  | Machine: Cat D6T   | XL   |  | Horsepower:  | 1   | 185       |          |
| Ripper At  | tachment: 3-Shank I  | Ripper   |  | Shift Basis:   |   | er day    | =        |
|  |  |  |  | Data Source:   | (C  | CRG)      | =        |
| Cost Breakdown:  |  |  |  |  |   |           |          |
|  |  |  |  | Utilization %  |   |           |          |
|  | Ownership Cost/Hou   |  | \$64.38  | NA   | _   |           |          |
|  | Operating Cost/Hou   |  | \$64.62  | 100  | _   |           |          |
|  | er Ownership Cost/Hou  |  | \$5.99   | NA   | _   |           |          |
| Ripp   | per Operating Cost/Hou   |  | \$4.30   | 100  | _   |           |          |
|  | Operator Cost/Hou  |  | \$40.04  | NA   | _   |           |          |
|  | Total Unit Cost/Hou  | ır:  | \$179.33   |  |   |           |          |
| MATERIAL O   | HANTITIES  | C-1-   | .4   |  |   |           |          |
| MATERIAL Q  Alternate Method   | _  |  | cted estimating  |  | ea  | N/A       | _        |
| Alternate Method   | <u>ls:</u>   | Bank Volume:   | NA   | ВСҮ  |   | NA        | BCY or   |
| Alternate Method   | acres  | Bank Volume:<br>Rip Depth (ft):  | NA<br>0.50   |  |   | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44   | acres  Source of estimated q   | Bank Volume:<br>Rip Depth (ft):  | NA<br>0.50   | ВСҮ  |   | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO                                     | acres  Source of estimated q   | Bank Volume:<br>Rip Depth (ft):  | NA<br>0.50   | ВСҮ  |   | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44   | see acres  Source of estimated of the control of th | Bank Volume:<br>Rip Depth (ft):  | NA<br>0.50   | ВСҮ  | 355   | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic:                            | see acres  Source of estimated of the control of th | Bank Volume:<br>Rip Depth (ft):<br>quantity: Permit  | NA 0.50  Application   | BCY Volume:  | 355   | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO                                     | seismic  | Bank Volume: Rip Depth (ft): quantity: Permit  | NA 0.50  Application NA  | BCY Volume:  | 355   | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic:                            | seismic  Average Rippi   | Bank Volume: Rip Depth (ft): quantity: Permit  | NA 0.50  Application  NA 1.64  | BCY Volume:  feet/se   | 355 cond  | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic:                            | acres Source of estimated quadratic properties of the second properties | Bank Volume: Rip Depth (ft): quantity: Permit  c Velocity: ing Depth: ing Width:   | NA 0.50  Application NA 1.64 6.58  | BCY Volume:  feet/se  feet/pa feet/pa  | 355 cond  | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic:                            | seismic  Average Rippi   | Bank Volume: Rip Depth (ft): quantity: Permit  c Velocity: ing Depth: ing Width: ng Length:  | NA 0.50  Application  NA 1.64  | BCY Volume:  feet/se   | 355<br>cond   | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic:                            | acres Source of estimated of DUCTION Seismic Average Rippi Average Rippi Average Rippi   | Bank Volume: Rip Depth (ft): quantity: Permit  e Velocity:  ing Depth: ing Width: ng Length: zer Speed:  | NA 0.50  NA 1.64 6.58 200.00   | feet/pa  | ass ass inute                                       | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic:                            | acres Source of estimated of DDUCTION  Seismic  Average Rippi Average Rippii Average Rippii Average Do   | Bank Volume: Rip Depth (ft): quantity: Permit  E Velocity:  ing Depth: ing Width: ng Length: vzer Speed:   | NA  O.50  Application  NA  1.64  6.58  200.00  88.00   | feet/pa feet/pa feet/pa feet/m   | ass ass inute es/pass                               | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic:                            | acres Source of estimated of DDUCTION  Seismic  Average Rippi Average Rippii Average Rippii Average Do Average Maneu Production per  | Bank Volume: Rip Depth (ft): quantity: Permit  E Velocity:  ing Depth: ing Width: ng Length: vzer Speed:   | NA  O.50  Application  NA  1.64 6.58 200.00 88.00 0.25   | BCY Volume:  feet/se  feet/pa feet/pa feet/m minute  | ass ass inute es/pass                               | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic: Area:                      | acres Source of estimated of DDUCTION  Seismic  Average Rippi Average Rippii Average Rippii Average Do Average Maneu Production per  | Bank Volume: Rip Depth (ft): quantity: Permit  e Velocity:  ing Depth: ing Width: ng Length: izer Speed: uver Time: r unit area:   | NA  O.50  Application  NA  1.64 6.58 200.00 88.00 0.25   | BCY Volume:  feet/se  feet/pa feet/pa feet/m minute  | ass<br>inute<br>es/pass<br>inour                    | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic: Area:                      | acres  Source of estimated of the production per source of estimated of the production per source tion Factors  adjusted Hourly Unit Production per source of the | Bank Volume: Rip Depth (ft): quantity: Permit  c Velocity:  ing Depth: ing Width: ng Length: vzer Speed: uver Time: r unit area:  Production:  | NA  0.50  Application  NA  1.64 6.58 200.00 88.00 0.25 0.719                                   | feet/se  feet/pa feet/pa feet/m minute acres/h   | ass<br>inute<br>es/pass<br>inour                    | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic: Area:                      | acres Source of estimated of DDUCTION  Seismic  Average Rippi Average Rippi Average Rippii Average Do Average Maneu Production per Orrection Factors  adjusted Hourly Unit P   | Bank Volume: Rip Depth (ft): quantity: Permit  e Velocity:  ing Depth: ing Width: ng Length: izer Speed: uver Time: r unit area:   | NA  O.50  Application  NA  1.64 6.58 200.00 88.00 0.25 0.719                                   | BCY Volume:  feet/se  feet/pa feet/pa feet/m minute acres/h Acres/   | ass<br>ass<br>ass<br>inute<br>es/pass<br>nour       | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic: Area:                      | acres Source of estimated of DDUCTION  Seismic  Average Rippi Average Rippi Average Rippi Average Rippi Average Maneu Production per prection Factors  adjusted Hourly Unit P  | Bank Volume: Rip Depth (ft): quantity: Permit  e Velocity:  ing Depth: ing Width: ng Length: vzer Speed: uver Time: r unit area:  Production: e Altitude:                                      | NA  0.50  Application  NA  1.64 6.58 200.00 88.00 0.25 0.719  0.719  4,745 1.00 0.83           | BCY Volume:  feet/se  feet/pa feet/pa feet/m minute acres/h Acres/   | ass<br>ass<br>ass<br>inute<br>es/pass<br>nour<br>hr | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic: Area:                      | acres Source of estimated of DDUCTION  Seismic  Average Rippi Average Rippi Average Rippi Average Rippi Average Maneu Production per Orrection Factors  adjusted Hourly Unit P  Site Alt Job H   | Bank Volume: Rip Depth (ft): quantity: Permit  e Velocity:  ing Depth: ing Width: ng Length: vzer Speed: uver Time: r unit area:  Production: e Altitude: titude Adj:                          | NA  0.50  Application  NA  1.64 6.58 200.00 88.00 0.25 0.719  0.719  4,745 1.00                | feet/se  feet/pa feet/pa feet/m minute acres/f  Acres/ feet (CAT   | ass ass inute es/pass nour  hr  HB) t/day)          | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic: Area:                      | acres Source of estimated of DDUCTION  Seismic  Average Rippi Average Rippi Average Rippi Average Maneu Production per Orrection Factors  adjusted Hourly Unit P  Sitt Alt Job H Net C  Adjusted Hourly  | Bank Volume: Rip Depth (ft): quantity: Permit  E Velocity:  ing Depth: ing Width: ing Length: izer Speed: uver Time: r unit area:  Production: e Altitude: titude Adj: Efficiency: Correction: | NA  0.50  Application  NA  1.64 6.58 200.00 88.00 0.25 0.719  0.719  4,745 1.00 0.83 0.83 0.60 | feet/se  feet/se  feet/pa feet/pa feet/pa feet/m minute acres/h  Acres/ feet (CAT (1 shif multip Acres/hr        | ass ass inute es/pass nour  hr  HB) t/day)          | NA        | BCY or   |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic: Area:  Job Condition Co Un | acres Source of estimated of DDUCTION  Seismic  Average Rippi Average Rippi Average Rippi Average Rippi Average Maneu Production per Orrection Factors  adjusted Hourly Unit P  Sitt Alt Job H Net C  Adjusted Hourly Adjusted Hourly  | Bank Volume: Rip Depth (ft): quantity: Permit  e Velocity:  ing Depth: ing Width: ng Length: zer Speed: uver Time: r unit area:  Production: e Altitude: titude Adj: Efficiency: Correction:   | NA  0.50  Application  NA  1.64 6.58 200.00 88.00 0.25 0.719  0.719  4,745 1.00 0.83 0.83 0.60 | feet/se  feet/se  feet/pa feet/pa feet/pa feet/m minute acres/h  Acres/ feet (CAT (1 shif multip                 | ass ass inute es/pass nour  hr  HB) t/day)          | NA        | BCY or 0 |
| Alternate Method nic: NA rea: 0.44  HOURLY PRO Seismic: Area:                      | acres  Source of estimated of DDUCTION  Seismic Average Rippin Average Rippin Average Rippin Average Maneu Production per orrection Factors  adjusted Hourly Unit Position Site Alter Adjusted Hourly Adjusted | Bank Volume: Rip Depth (ft): quantity: Permit  E Velocity:  ing Depth: ing Width: ing Length: izer Speed: uver Time: r unit area:  Production: e Altitude: titude Adj: Efficiency: Correction: | NA  0.50  Application  NA  1.64 6.58 200.00 88.00 0.25 0.719  0.719  4,745 1.00 0.83 0.83 0.60 | BCY Volume:  feet/se  feet/pa feet/pa feet/m minute acres/h  Acres/  feet (CAT (1 shift multip Acres/hr Acres/hr | ass ass inute es/pass nour  hr  HB) t/day)          | NA        |          |

Unit cost: \$300.695 Per acre Total job cost: \$132

# **REVEGETATION WORK**

| : Dunn Pit  | Permit Act                                    | ion: Revi<br>Estir | sed Bond<br>nate | Permit/Job#                                | : <u>M2021059</u> |
|---|---|--------------------|------------------|--|-------------------|
| PROJECT IDENTIFIC                                       | <u>ATION</u>                                  |                    |                  |  |                   |
| Task #: 06R Date: 3/8/2022 User: PSH  Agency or organiz | State: Colora County: Weld  zation name: DRMS | ado                |                  | _  | None<br>M059-06R  |
| <u>FERTILIZING</u>                                      |   |                    |                  |  |                   |
| Materials  Description                                  |   | Units /<br>Acre    | Unit             | Cost / Unit                                | Cost /Acre        |
|   |   |                    |                  | \$   | \$                |
|   |   |                    |                  | Total Fertilizer<br>Materials<br>Cost/Acre | \$0.00            |
| Application   |   |                    |                  |  |                   |
| Description   |   |                    |                  |  | Cost /Acre        |
|   |   |                    |                  |  | \$                |
|   |   | Total              | Fertilizer A     | pplication Cost/Acre                       | \$0.00            |
| <u> </u>  |   |                    |                  |  |                   |
| Description   |   |                    |                  |  | Cost /Acre        |
| Chisel plowing {DMG}                                    |   |                    |                  |  | \$96.50           |
| Weed control spraying (                                 | MEANS 31 31 16.13 3100                        | )                  |                  |  | \$290.40          |
|   |   |                    | To               | otal Tilling Cost/Acre                     | \$386.90          |

# **SEEDING**

| Seed Mix                    | Rate –<br>PLS<br>LBS /<br>Acre | Seeds<br>per SQ.<br>FT | Cost /Acre |
|-----------------------------|--------------------------------|------------------------|------------|
| Blue Grama - Hachita        | 0.75                           | 12.24                  | \$11.98    |
| Alkali Sacaton              | 1.00                           | 39.03                  | \$28.48    |
| Alkaligrass, Fult's         | 0.50                           | 13.77                  | \$1.81     |
| Canada Wildrye              | 3.00                           | 7.92                   | \$32.52    |
| Bottlebrush Squirreltail    | 2.25                           | 9.92                   | \$36.51    |
| Western Wheatgrass - Arriba | 10.00                          | 25.25                  | \$65.00    |
| Saltgrass, Inland           | 0.50                           | 6.93                   | \$21.40    |
|                             |                                |                        |            |

|             | <b>Totals Seed Mix</b> | 18.00 | 115.06 | \$197.70 |
|-------------|------------------------|-------|--------|----------|
| Application |                        |       |        |          |

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

## **MULCHING and MISCELLANEOUS**

## Materials

| Description                             | Units /<br>Acre | Unit | Cost / Unit | Cost /Acre |
|---|-----------------|------|-------------|------------|
| Hay, delivered {MEANS 31 25 14.16 1200) | 10.00           | BALE | \$12.28     | \$122.80   |
| Herbicide - 2,4D @ 1.0 pt/ac            | 2.00            | ACRE | \$2.98      | \$5.96     |
| Total Mulch Materials Cost/Acre         |                 |      |             | \$128.76   |

**Application** 

| Description                              |  | Cost /Acre |
|--|--|------------|
| Crimping, with tractor {DMG survey data} |  | \$71.57    |
|  |  |            |
|  | <b>Total Mulch Application Cost/Acre</b> | \$71.57    |

#### **NURSERY STOCK PLANTING**

| Common Name | No /<br>Acre | Type and Size | Planting<br>Cost | Fertilizer<br>Pellet Cost | Cost /Acre |
|-------------|--------------|---------------|------------------|---------------------------|------------|
|             |              |               |                  |                           | \$         |
|             |              |               |                  |                           |            |
|             |              | Totals 1      | Nursery Stoc     | ek Cost / Acre            | \$0.00     |

## **JOB TIME AND COST**

Cost /Acre: \$1,016.93 No. of Acres: 0.44 Estimated Failure Rate: 25% Cost /Acre\*: \$630.03

\*Selected Replanting Work Items: SEEDING,MULCHING

Initial Job Cost: \$447.45 Reseeding Job Cost: \$69.30 Total Job Cost: \$517 Job Hours: **20.00** 

## **EQUIPMENT MOBILIZATION/DEMOBILIZATION**

| Task d           | lescription:    | Mob / Demob     |               |                          |                                   |                       |
|------------------|-----------------|-----------------|---------------|--------------------------|-----------------------------------|-----------------------|
| Site: <b>Dur</b> | nn Pit          | P               | ermit Action: | Revised Bond<br>Estimate | Permit/Jo                         | b#: <u>M2021059</u>   |
| PROJI            | ECT IDENTIFI    | CATION          |               |                          |                                   |                       |
| Tas              | sk #: 07R       | State:          | Colorado      |                          | Abbreviation:                     | None                  |
| D                | Date: 3/8/2022  | County:         | Weld          |                          | Filename:                         | M059-07R              |
| U                | Jser: PSH       |                 |               |                          |                                   |                       |
| <u>EQUII</u>     | Agency or organ | SPORT RIG CO    | ORMS<br>OST   |                          |                                   |                       |
|                  |                 |                 |               | Cos                      | <del></del>                       | 1 per day<br>CRG Data |
|                  | Truck Tracto    | or Description: | GENERIC ON    |                          | K TRACTOR, 6X4,<br>ND HALF, 2006) | DIESEL POWERED,       |
|                  | Truck Traile    | er Description: | GENERIC       | FOLDING GOOSE            | ENECK, DROP DEC                   | CK EQUIPMENT          |

## Cost Breakdown:

| Available Rig Capacities | 0-25 Tons | 26-50 Tons | 51+ Tons |
|--------------------------|-----------|------------|----------|
| Ownership Cost/Hour:     | \$21.28   | \$37.94    | \$47.67  |
| Operating Cost/Hour:     | \$26.55   | \$50.48    | \$56.21  |
| Operator Cost/Hour:      | \$20.54   | \$20.54    | \$20.54  |
| Helper Cost/Hour:        | \$0.00    | \$23.53    | \$23.53  |
| Total Unit Cost/Hour:    | \$68.37   | \$132.49   | \$147.95 |

## **NON ROADABLE EQUIPMENT:**

| Machine     | Weight/ | Owner ship    | Haul Rig    | Fleet | Haul Trip | Return Trip    | DOT Permit  |
|-------------|---------|---------------|-------------|-------|-----------|----------------|-------------|
| Description | Unit    | Cost/hr/ unit | Cost/hr/uni | Size  | Cost/hr/  | Cost/hr/ fleet | Cost/ fleet |
|             | (TONS)  |               | t           |       | fleet     |                |             |
| Cat D6T XL  | 25.01   | \$70.37       | \$68.37     | 1     | \$138.74  | \$68.37        | \$250.00    |
| CAT 14M     | 23.57   | \$85.80       | \$68.37     | 1     | \$154.17  | \$68.37        | \$250.00    |
| CAT 928Hz   | 13.91   | \$30.09       | \$68.37     | 1     | \$98.46   | \$68.37        | \$250.00    |

Subtotals: \$391.37 \$205.11 \$750.00

#### **ROADABLE EQUIPMENT:**

| Machine Description          | Total Cost/hr/<br>unit | Fleet Size | Haul Trip<br>Cost/hr/ fleet | Return Trip<br>Cost/hr/ fleet |
|------------------------------|------------------------|------------|-----------------------------|-------------------------------|
| Generic 7-8 cy, 4x4          | \$66.35                | 2          | \$132.70                    | \$132.70                      |
| Light Duty Pickup, 4x4, 1 T. | \$121.54               | 1          | \$121.54                    | \$121.54                      |
| Crew                         |                        |            |                             |                               |

| Subtotals: | \$254.24 | \$254.24 |
|------------|----------|----------|
|            |          |          |

TRAILER (25T, 50T, AND 100T)

# **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:
Total one-way travel distance:
Average Travel Speed:

GREELEY, CO
miles
35.00
mph

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

\$3,474.49

\$174.34

#### **Transportation Cycle Time:**

|                         | Non-      |           |
|-------------------------|-----------|-----------|
|                         | Roadable  | Roadable  |
|                         | Equipment | Equipment |
| Haul Time (Hours):      | 0.34      | 0.34      |
| Return Time (Hours):    | 0.34      | 0.34      |
| Loading Time (Hours):   | 1.00      | NA        |
| Unloading Time (Hours): | 1.00      | NA        |
| Subtotals:              | 2.69      | 0.69      |
|                         |           |           |

#### **JOB TIME AND COST**

Total job cost: 5.37 Hours

Total job cost: \$3,649

# SITE MAINTENANCE

| Site: D | Ounn Pit     | Permit Action:  | Revised Bond<br>Estimate | Permit/Job#: M2021059 |
|---------|--------------|-----------------|--------------------------|-----------------------|
| ROJECT  | Γ IDENTIFICA | <u>TION</u>     |                          |                       |
| Task #: | 08R          | State: Colorado |                          | Abbreviation: None    |
| Date:   | 3/8/2022     | County: Weld    |                          | Filename: M059-08R    |
| User:   | PSH          | <u> </u>        |                          |                       |

# **UNIT COSTS**

| Maintenance Item  | Hours per<br>Year | Menu Selection        | Quantity  | Unit | Unit<br>Cost | Total Cost   |
|---|-------------------|-----------------------|-----------|------|--------------|--------------|
| Bond to Backfill C1<br>until Augmentation<br>Decree Placeholder | 160.00            | USER PROVIDED<br>ITEM | 30,000.00 | 1    | \$10.00      | \$300,000.00 |

Job Hours: \_\_\_\_\_160.00 \_\_\_\_ Total Cost: \_\_\_\_\_\$300,000.00