



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

March 26, 2024

Craig Howell
Nuvmco, LLC
PO Box 297
Naturita, CO 81422

**Re: Monogram Mines - File No. M-1978-222-UG
Nuvmco, LLC
Surety Increase (SI-2)**

Dear Craig Howell:

On March 26, 2024 the Division of Reclamation, Mining and Safety increased the Financial Warranty requirement for this permit to \$73,013.00, in accordance with Rule 4.2.1 of the Rules and Regulations. **This is an increase of \$18,513.00.**

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, is due within 60 days from the date of this letter (March 26, 2024).

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 after May 25, 2024, if the amount of any increased Financial Warranty has not been provided.

| | |
|-----------------------|-------------|
| Bond Held: | \$54,500.00 |
| Prior Liability: | \$54,500.00 |
| Change in Liability: | \$18,513.00 |
| Revised Liability: | \$73,013.00 |
| Prior Permit Acreage: | 48.38 |



| | |
|-----------------------------|-------|
| Change in Permit Acreage: | 0.00 |
| Revised Permit Acreage: | 48.38 |
| Prior Affected Acreage: | 48.38 |
| Change in Affected Acreage: | 0.00 |
| Revised Affected Acreage: | 48.38 |

If you have any questions, please contact me by telephone at (303) 866-3567 x 8188, or by email at Dustin.czapla@state.co.us.

Sincerely,



Dustin M. Czapla
Environmental Protection Specialist

cc: Craig H. Howell

M-GR-04

March 4, 2024

Craig Howell
Nuvemco, LLC
PO Box 297
Naturita, CO 81422



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

1313 Sherman Street, Room 215
Denver, CO 80203

RE: Monogram Mines, Permit # M-1978-222-UG, Reclamation Costs Update

Dear Operator:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed) for this site. Division calculations estimate the cost to reclaim the site to be \$73,013.00. This is an increase of **\$18,513.00** over the \$54,500.00 currently held by the Division.

Within 15 days, please review the attached estimate and notify me if any calculation errors are noted.

If you require additional information, or have questions or concerns, please contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Dustin Czapla', with a long horizontal flourish extending to the right.

Dustin Czapla
Environmental Protection Specialist
Division of Reclamation, Mining and Safety
Phone: (303) 866-3567, ext. 8188



COST SUMMARY WORK

Task description: 2024-02-08 Update

Site: Monogram Mines

Permit Action: 2024-02-08 Update

Permit/Job#: M1978222UG

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 2/8/2024

County: Montrose

Filename: M222-000

User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

| Task | Description | Form Used | Fleet Size | Task Hours | Cost |
|--------------------------|--|-----------|------------|---------------|-----------------|
| 01a | Seal 5 disturbed portals | MINESEAL | 1 | 40.00 | \$15,995 |
| 02a | Seal maximum 50 drill holes -300 ft depth | BOREHOLE | 1 | 25.00 | \$2,744 |
| 03a | Recontour portal staging areas | DOZER | 1 | 15.08 | \$6,760 |
| 04a | Reveg. 4.1 acre total drill disturbance | REVEGE | 1 | 4.00 | \$10,611 |
| 05a | Reveg. 1 acre portal areas | REVEGE | 1 | 1.00 | \$2,588 |
| 06a | Demo concrete ore bins | DEMOLISH | 1 | 8.00 | \$1,236 |
| 07a | Haul 6" ore pad material to pit for burial | LOADER | 1 | 2.44 | \$460 |
| 08a | Rip/grade staging-office-ore bin area | RIPPER | 1 | 1.71 | \$768 |
| 09a | Push 4" topsoil over staging area | DOZER | 1 | 0.45 | \$190 |
| 10a | Reveg. staging area | REVEGE | 1 | 1.00 | \$2,588 |
| 11a | Push overburden / waste rock over pit area | DOZER | 1 | 8.21 | \$3,502 |
| 12a | Push 4" topsoil over pit area | DOZER | 1 | 1.32 | \$561 |
| 13a | Reveg. pit area | REVEGE | 1 | 2.00 | \$5,176 |
| 14a | Mobilize reclamation crew/equipment | MOBILIZE | 1 | 4.28 | \$5,025 |
| <u>SUBTOTALS:</u> | | | | 114.49 | \$58,204 |

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 57.24
Profit: 10.00

Total = \$1,176

Total = \$611

Total = \$3,725

Total = \$5,820

TOTAL O & P = \$11,332

CONTRACT AMOUNT (direct + O & P) = \$69,536

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0
Engineering work and/or contract/bid preparation: 0.00
Reclamation management and/or administration: 5.00

Total = \$0

Total = \$0

\$3,477

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$14,809

TOTAL BOND AMOUNT (direct + indirect) = \$73,013

SAFEGUARDING UNDERGROUND OPENINGS

Task description: Seal 5 disturbed portals

Site: Monogram Mines Permit Action: 2024-02-08 Update Permit/Job#: M1978222UG

PROJECT IDENTIFICATION

Task #: 01A State: Colorado Abbreviation: None
Date: 2/8/2024 County: Montrose Filename: 7822201a
User: DMC

Agency or organization name: DRMS

UNIT COSTS

| Opening Description | Dimensions | Closure Method | Quantity | Unit | Unit Cost | Total Cost |
|----------------------------|------------|--|----------|------|------------|-------------|
| Pre-law "reopened" portals | 8' x 8' | Adit closure - backfilling (per opening) | 5.00 | EA | \$3,199.01 | \$15,995.05 |

Job Hours: 40.00

Total Cost: \$15,995.05

BOREHOLE SEALING WORK

Task description: Seal maximum 50 drill holes -300 ft depth

Site: Monogram Mines

Permit Action: 2024-02-08 Update

Permit/Job#: M1978222UG

PROJECT IDENTIFICATION

Task #: 02A

State: Colorado

Abbreviation: None

Date: 2/8/2024

County: Montrose

Filename: 7822202a

User: DMC

Agency or organization name: DRMS

UNIT COSTS

| Borehole Description | Sealing/Item Method | Diameter | Length | Quantity | Unit | Unit Cost | Total Cost |
|--------------------------------------|---|----------|--------|----------|------|-----------|------------|
| 50 exploration drill holes-bentonite | Bentonite seal - 6 in. (labor, equip, materials) | 6 | 5 | 250.00 | LF | \$7.24 | \$1,810.63 |
| 50 exploration drill holes-plug | Portland cement grout - 6 in. (labor, equip, materials) | 6 | 3 | 150.00 | LF | \$6.22 | \$933.38 |

Job Hours: 25.00

Total Cost: \$2,744.00

BULLDOZER WORKTask description: **Recontour portal staging areas**Site: **Monogram Mines**Permit Action: **2024-02-08 Update**Permit/Job#: **M1978222UG****PROJECT IDENTIFICATION**Task #: **03A**State: **Colorado**Abbreviation: **None**Date: **2/8/2024**County: **Montrose**Filename: **7822203a**User: **DMC**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: | \$7.45 | 100 |
| Operator Cost/Hour: | \$41.30 | NA |

Total unit Cost/Hour: **\$448.16**Total Fleet Cost/Hour: **\$448.16****MATERIAL QUANTITIES**Initial Volume: **6,950**Swell factor: **1.000**Loose volume: **6,950 LCY**Source of estimated volume: **50' x 100' pad * 15' face /2 *5 = ft3 conv. yd3**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **1,400.0 LCY/hr**Materials consistency description: **Partly consolidated stockpile 1.1**Average push gradient: **15 %**Average site altitude: **6,350 feet**Material weight: **2,550 lbs/LCY**Weight description: **Sandstone****Job Condition Correction Factor**

| | | <u>Source</u> |
|-----------------------|--------------|----------------------|
| Operator Skill: | 0.750 | (AVG.) |
| Material consistency: | 1.100 | (CAT HB) |
| Dozing method: | 1.000 | (GEN.) |
| Visibility: | 1.000 | (AVG.) |

| | | |
|------------------|-------|---------------|
| Job efficiency: | 0.830 | (1 SHIFT/DAY) |
| Spoil pile: | 0.800 | (FND-RF) |
| Push gradient: | 0.666 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 0.902 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.3291

Adjusted unit production: 460.74 LCY/hr

Adjusted fleet production: **460.74** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.973/LCY

Total job time: **15.08** Hours

Total job cost: **\$6,760**

REVEGETATION WORKTask description: Reveg. 4.1 acre total drill disturbanceSite: Monogram MinesPermit Action: 2024-02-08 UpdatePermit/Job#: M1978222UG**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 2/8/2024County: MontroseFilename: 7822204aUser: DMCAgency or organization name: DRMS**FERTILIZING****Materials**

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|-------------|-----------------|------|---|---------------|
| | | | \$ | \$ |
| | | | Total Fertilizer Materials Cost/Acre | \$0.00 |

Application

| Description | Cost /Acre |
|---|---------------|
| | \$ |
| Total Fertilizer Application Cost/Acre | \$0.00 |

TILLING

| Description | Cost /Acre |
|---|-----------------|
| Subsoil scarification, (MEANS 32 91 13.23 3100) | \$233.48 |
| Weed control spraying (MEANS 31 31 16.13 3100) | \$338.80 |
| Total Tilling Cost/Acre | \$572.28 |

SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|----------------------------------|--------------------------------|------------------------|------------|
| Indian Ricegrass - Paloma | 1.20 | 3.88 | \$13.35 |
| Sand Dropseed | 0.04 | 4.78 | \$0.39 |
| Bottlebrush Squirreltail | 3.20 | 14.10 | \$51.92 |
| Sandberg Bluegrass - VNS | 0.60 | 12.74 | \$5.04 |
| Galleta | 0.60 | 2.19 | \$13.41 |
| Sweetvetch, Utah or Northern | 0.20 | 0.09 | \$15.00 |
| Needle and Thread | 0.80 | 2.11 | \$33.48 |
| Western Wheatgrass - Native | 5.60 | 14.14 | \$33.60 |
| Daisy or Sunflower, Maximillians | 0.40 | 2.27 | \$22.40 |

| | | | |
|----------------------------------|-------|-------|-----------------|
| Sagebrush, Mountain or Big | 0.10 | 5.28 | \$1.98 |
| Saltbush, Four Wing | 0.06 | 0.08 | \$0.75 |
| Globemallow, Scarlet (or copper) | 0.18 | 2.04 | \$24.39 |
| Winter Fat | 0.10 | 0.25 | \$2.05 |
| Penstemon, Rocky Mountain | 0.12 | 1.88 | \$3.54 |
| Yarrow, White | 0.06 | 3.82 | \$2.40 |
| Totals Seed Mix | 13.26 | 69.66 | \$223.70 |

Application

| Description | Cost /Acre |
|---|-----------------|
| Broadcast seeding [DMG] | \$267.22 |
| Total Seed Application Cost/Acre | \$267.22 |

MULCHING and MISCELLANEOUS

Materials

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|---|-----------------|------|-------------|-----------------|
| Straw, delivered {MEANS 31 25 14.16 1200} | 2.00 | TON | \$429.79 | \$859.57 |
| Total Mulch Materials Cost/Acre | | | | \$859.57 |

Application

| | |
|--|-------------------|
| Description | Cost /Acre |
| Power mulcher (MEANS 32 91 13.16 0350) | \$147.67 |
| Total Mulch Application Cost/Acre | \$147.67 |

NURSERY STOCK PLANTING

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

JOB TIME AND COST

| | | | |
|----------------------------------|--------------------------|--------------|------------|
| No. of Acres: | 4.1 | Cost /Acre: | \$2,070.44 |
| Estimated Failure Rate: | 25% | Cost /Acre*: | \$2,070.44 |
| *Selected Replanting Work Items: | TILLING,SEEDING,MULCHING | | |
| Initial Job Cost: | \$8,488.80 | | |
| Reseeding Job Cost: | \$2,122.20 | | |
| Total Job Cost: | \$10,611 | | |
| Job Hours: | 4.00 | | |

REVEGETATION WORKTask description: Reveg. 1 acre portal areasSite: Monogram MinesPermit Action: 2024-02-08 UpdatePermit/Job#: M1978222UG**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 2/8/2024County: MontroseFilename: 7822205aUser: DMCAgency or organization name: DRMS**FERTILIZING****Materials**

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|-------------|-----------------|------|---|---------------|
| | | | \$ | \$ |
| | | | Total Fertilizer Materials Cost/Acre | \$0.00 |

Application

| Description | Cost /Acre |
|---|---------------|
| | \$ |
| Total Fertilizer Application Cost/Acre | \$0.00 |

TILLING

| Description | Cost /Acre |
|---|-----------------|
| Subsoil scarification, (MEANS 32 91 13.23 3100) | \$233.48 |
| Weed control spraying (MEANS 31 31 16.13 3100) | \$338.80 |
| Total Tilling Cost/Acre | \$572.28 |

SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|----------------------------------|--------------------------------|------------------------|------------|
| Indian Ricegrass - Paloma | 1.20 | 3.88 | \$13.35 |
| Sand Dropseed | 0.04 | 4.78 | \$0.39 |
| Bottlebrush Squirreltail | 3.20 | 14.10 | \$51.92 |
| Sandberg Bluegrass - VNS | 0.60 | 12.74 | \$5.04 |
| Galleta | 0.60 | 2.19 | \$13.41 |
| Sweetvetch, Utah or Northern | 0.20 | 0.09 | \$15.00 |
| Needle and Thread | 0.80 | 2.11 | \$33.48 |
| Western Wheatgrass - Native | 5.60 | 14.14 | \$33.60 |
| Daisy or Sunflower, Maximillians | 0.40 | 2.27 | \$22.40 |

| | | | |
|----------------------------------|-------|-------|-----------------|
| Sagebrush, Mountain or Big | 0.10 | 5.28 | \$1.98 |
| Saltbush, Four Wing | 0.06 | 0.08 | \$0.75 |
| Globemallow, Scarlet (or copper) | 0.18 | 2.04 | \$24.39 |
| Winter Fat | 0.10 | 0.25 | \$2.05 |
| Penstemon, Rocky Mountain | 0.12 | 1.88 | \$3.54 |
| Yarrow, White | 0.06 | 3.82 | \$2.40 |
| Totals Seed Mix | 13.26 | 69.66 | \$223.70 |

Application

| Description | Cost /Acre |
|---|-----------------|
| Broadcast seeding [DMG] | \$267.22 |
| Total Seed Application Cost/Acre | \$267.22 |

MULCHING and MISCELLANEOUS**Materials**

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|---|-----------------|------|-------------|-----------------|
| Straw, delivered {MEANS 31 25 14.16 1200} | 2.00 | TON | \$429.79 | \$859.57 |
| Total Mulch Materials Cost/Acre | | | | \$859.57 |

Application

| Description | Cost /Acre |
|--|-----------------|
| Power mulcher (MEANS 32 91 13.16 0350) | \$147.67 |
| Total Mulch Application Cost/Acre | \$147.67 |

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 1 Cost /Acre: \$2,070.44
 Estimated Failure Rate: 25% Cost /Acre*: \$2,070.44
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$2,070.44
 Reseeding Job Cost: \$517.61
 Total Job Cost: \$2,588
 Job Hours: 1.00

DEMOLITION WORK

Task description: Demo concrete ore bins

Site: Monogram Mines

Permit Action: 2024-02-08 Update

Permit/Job#: M1978222UG

PROJECT IDENTIFICATION

Task #: 06A

State: Colorado

Abbreviation: None

Date: 2/8/2024

County: Montrose

Filename: 7822206a

User: DMC

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 92.10 %

| Structure or Item Description | Dimensions | Demolition Menu Selection | Quantity | Unit | Unit Cost | Total Cost |
|-------------------------------|----------------|---|----------|------|-----------|------------|
| Concrete ore bins | 20' x 40' x 6' | Bldg. (SC) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul | 4,800.00 | CF | \$0.28 | \$1,341.60 |

Job Hours: 8.00

Subtotal
(unadjusted): \$1,341.60

Total Cost
(adjusted for location): \$1,235.61

WHEEL LOADER – LOAD AND CARRY WORKTask description: Haul 6" ore pad material to pit for burialSite: Monogram MinesPermit Action: 2024-02-08 UpdatePermit/Job#: M1978222UG**PROJECT IDENTIFICATION**Task #: 07AState: ColoradoAbbreviation: NoneDate: 2/8/2024County: MontroseFilename: 7822207aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: CAT 450EAttachment 1: ROPS CabHorsepower: 101Shift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

| | | Utilization % |
|------------------------|----------|---------------|
| Ownership Cost/Hour: | \$92.02 | NA |
| Operating Cost/Hour: | \$55.42 | 100 |
| Operator Cost/Hour: | \$40.71 | NA |
| Total Unit Cost/Hour: | \$188.15 | |
| Total Fleet Cost/Hour: | \$188.15 | |

MATERIAL QUANTITIESInitial volume: 65

CCY

Swell factor: 1.335Loose volume: 87

LCY

Source of estimated volume: .08 acre ore pad load zone x 6" liftSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.475 minutes

| Cycle Time Factors | | Factor (min.) | Source |
|----------------------------|--|---------------|----------|
| Material: | Material 3/4" to 6" diameter 0.00 | 0.000 | (Cat HB) |
| Stockpile: | No adjustment - factor not applicable 0.00 | 0.000 | (Cat HB) |
| Truck Ownership: | No adjustment - factor not applicable 0.00 | 0.000 | (Cat HB) |
| Operation: | Constant operation -0.04 | -0.040 | (Cat HB) |
| Dump Target: | Nominal target 0.00 | 0.000 | (Cat HB) |
| Net Cycle Time Adjustment: | | -0.040 | minutes |
| Adjusted Basic Cycle Time: | | 0.435 | minutes |

Rolling Resistance – Road ConditionsHaul: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0Return: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0**Haul and Return Time**

| | Length (feet) | Grade Res. (%) | Rolling Res. (%) | Total Res. (%) | Travel Time (minutes) | Source |
|---------------|------------------|-------------------|---------------------|-------------------|--------------------------|----------|
| Haul Route: | 1000 | 4.00 | 4.00 | 8.00 | 0.9510 | (Cat HB) |
| Return Route: | 1000 | -4.00 | 4.00 | 0.00 | 0.3516 | (Cat HB) |

Total Travel Time: 1.3026 minutes
 Total Cycle Time: 1.7376 minutes

Load Bucket Capacity

Rated Capacity: 1.50 LCY (heaped)
 Bucket Fill Factor: 0.825 Blasted rock - avg. blasted (75 - 90%) 0.825
 Adjusted Capacity: 1.24 LCY

Job Condition Correction Factors

Site Altitude: 6350 feet

| | | |
|-----------------|-------------|---------------|
| | | Source |
| Altitude Adj: | <u>1.00</u> | (CAT HB) |
| Job Efficiency: | <u>0.83</u> | (1 shift/day) |
| Net Correction: | <u>0.83</u> | multiplier |

Unadjusted Hourly Unit Production: 42.73 LCY/Hour
 Adjusted Hourly Unit Production: 35.47 LCY/Hour
 Adjusted Hourly Fleet Production: 35.47 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 2.45 Hours
 Unit cost: \$5.305 /LCY Total job cost: \$460

BULLDOZER RIPPING WORK

Task description: Rip/grade staging-office-ore bin area

Site: Monogram Mines Permit Action: 2024-02-08 Update Permit/Job#: M1978222UG

PROJECT IDENTIFICATION

Task #: 08A State: Colorado Abbreviation: None
Date: 2/8/2024 County: Montrose Filename: 7822208a
User: DMC

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU Horsepower: 310
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

| | | Utilization % |
|-----------------------------|-----------------|---------------|
| Ownership Cost/Hour: | \$241.38 | NA |
| Operating Cost/Hour: | \$143.92 | 100 |
| Ripper Ownership Cost/Hour: | \$14.11 | NA |
| Ripper Operating Cost/Hour: | \$7.45 | 100 |
| Operator Cost/Hour: | \$41.30 | NA |
| Total Unit Cost/Hour: | \$448.16 | |
| Total Fleet Cost/Hour: | \$448.16 | |

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 1.00 acres Rip Depth (ft): 2.00 Volume: 3,227 BCY or CCY

Source of estimated quantity: DRMS

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 2.56 feet/pass
Average Ripping Width: 7.08 feet/pass
Average Ripping Length: 100.00 feet/pass
Average Dozer Speed: 88.00 feet/minute
Average Maneuver Time: 0.25 minutes/pass
Production per unit area: 0.703 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.703 Acres/hr
Site Altitude: 6,350 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier
Adjusted Hourly Unit Production: 0.58 Acres/hr
Adjusted Hourly Fleet Production: **0.58** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **1.71** Hours

Unit cost: \$767.601 Per acre Total job cost: **\$768**

BULLDOZER WORKTask description: Push 4" topsoil over staging areaSite: Monogram MinesPermit Action: 2024-02-08 UpdatePermit/Job#: M1978222UG**PROJECT IDENTIFICATION**Task #: 09AState: ColoradoAbbreviation: NoneDate: 2/8/2024County: MontroseFilename: 7822209aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

| | | <u>Utilization %</u> |
|------------------------|----------|----------------------|
| Ownership Cost/Hour: | \$241.38 | NA |
| Operating Cost/Hour: | \$143.92 | 100 |
| Ripper own. Cost/Hour: | \$0.00 | NA |
| Ripper op. Cost/Hour: | \$0.00 | 0 |
| Operator Cost/Hour: | \$41.30 | NA |

Total unit Cost/Hour: \$426.60Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: 537Swell factor: 1.000Loose volume: **537 LCY**Source of estimated volume: 1 ac. 4" depthSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feetUnadjusted hourly production: 1,400.0 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 0 %Average site altitude: 6,350 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

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

| | | |
|------------------|-------|---------------|
| Job efficiency: | 0.830 | (1 SHIFT/DAY) |
| Spoil pile: | 0.800 | (FND-RF) |
| Push gradient: | 1.000 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 1.438 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.8593

Adjusted unit production: 1,203.02 LCY/hr

Adjusted fleet production: **1203.02** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.355/LCY

Total job time: **0.45** Hours

Total job cost: **\$190**

REVEGETATION WORKTask description: Reveg. staging areaSite: Monogram MinesPermit Action: 2024-02-08 UpdatePermit/Job#: M1978222UG**PROJECT IDENTIFICATION**Task #: 10AState: ColoradoAbbreviation: NoneDate: 2/8/2024County: MontroseFilename: 7822210aUser: DMCAgency or organization name: DRMS**FERTILIZING****Materials**

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|-------------|-----------------|------|---|---------------|
| | | | \$ | \$ |
| | | | Total Fertilizer Materials Cost/Acre | \$0.00 |

Application

| Description | Cost /Acre |
|---|---------------|
| | \$ |
| Total Fertilizer Application Cost/Acre | \$0.00 |

TILLING

| Description | Cost /Acre |
|---|-----------------|
| Subsoil scarification, (MEANS 32 91 13.23 3100) | \$233.48 |
| Weed control spraying (MEANS 31 31 16.13 3100) | \$338.80 |
| Total Tilling Cost/Acre | \$572.28 |

SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|----------------------------------|--------------------------------|------------------------|------------|
| Indian Ricegrass - Paloma | 1.20 | 3.88 | \$13.35 |
| Sand Dropseed | 0.04 | 4.78 | \$0.39 |
| Bottlebrush Squirreltail | 3.20 | 14.10 | \$51.92 |
| Sandberg Bluegrass - VNS | 0.60 | 12.74 | \$5.04 |
| Galleta | 0.60 | 2.19 | \$13.41 |
| Sweetvetch, Utah or Northern | 0.20 | 0.09 | \$15.00 |
| Needle and Thread | 0.80 | 2.11 | \$33.48 |
| Western Wheatgrass - Native | 5.60 | 14.14 | \$33.60 |
| Daisy or Sunflower, Maximillians | 0.40 | 2.27 | \$22.40 |

| | | | |
|----------------------------------|--------------|--------------|-----------------|
| Sagebrush, Mountain or Big | 0.10 | 5.28 | \$1.98 |
| Saltbush, Four Wing | 0.06 | 0.08 | \$0.75 |
| Globemallow, Scarlet (or copper) | 0.18 | 2.04 | \$24.39 |
| Winter Fat | 0.10 | 0.25 | \$2.05 |
| Penstemon, Rocky Mountain | 0.12 | 1.88 | \$3.54 |
| Yarrow, White | 0.06 | 3.82 | \$2.40 |
| Totals Seed Mix | 13.26 | 69.66 | \$223.70 |

Application

| Description | Cost /Acre |
|---|-----------------|
| Broadcast seeding [DMG] | \$267.22 |
| Total Seed Application Cost/Acre | \$267.22 |

MULCHING and MISCELLANEOUS**Materials**

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|---|-----------------|------|-------------|-----------------|
| Straw, delivered {MEANS 31 25 14.16 1200} | 2.00 | TON | \$429.79 | \$859.57 |
| Total Mulch Materials Cost/Acre | | | | \$859.57 |

Application

| Description | Cost /Acre |
|--|-----------------|
| Power mulcher (MEANS 32 91 13.16 0350) | \$147.67 |
| Total Mulch Application Cost/Acre | \$147.67 |

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 1 Cost /Acre: \$2,070.44
 Estimated Failure Rate: 25% Cost /Acre*: \$2,070.44
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$2,070.44
 Reseeding Job Cost: \$517.61
 Total Job Cost: \$2,588
 Job Hours: 1.00

BULLDOZER WORKTask description: **Push overburden / waste rock over pit area**Site: **Monogram Mines**Permit Action: 2024-02-08 UpdatePermit/Job#: M1978222UG**PROJECT IDENTIFICATION**Task #: 11AState: ColoradoAbbreviation: NoneDate: 2/8/2024County: MontroseFilename: 7822211aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

| | | <u>Utilization %</u> |
|------------------------|-----------------|----------------------|
| Ownership Cost/Hour: | <u>\$241.38</u> | <u>NA</u> |
| Operating Cost/Hour: | <u>\$143.92</u> | <u>100</u> |
| Ripper own. Cost/Hour: | <u>\$0.00</u> | <u>NA</u> |
| Ripper op. Cost/Hour: | <u>\$0.00</u> | <u>0</u> |
| Operator Cost/Hour: | <u>\$41.30</u> | <u>NA</u> |

Total unit Cost/Hour: \$426.60Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: 3,250Swell factor: 1.000Loose volume: **3,250 LCY**Source of estimated volume: 2 acres 1' depthSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: -5 %Average site altitude: 6,350 feetMaterial weight: 3,300 lbs/LCYWeight description: Decomposed rock - 75% Rock, 25% Earth**Job Condition Correction Factor**

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

| | | |
|------------------|-------|---------------|
| Job efficiency: | 0.830 | (1 SHIFT/DAY) |
| Spoil pile: | 0.800 | (FND-RF) |
| Push gradient: | 1.115 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 0.697 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.4644

Adjusted unit production: 395.95 LCY/hr

Adjusted fleet production: **395.95** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.077/LCY

Total job time: **8.21** Hours

Total job cost: **\$3,502**

BULLDOZER WORKTask description: Push 4" topsoil over pit areaSite: Monogram MinesPermit Action: 2024-02-08 UpdatePermit/Job#: M1978222UG**PROJECT IDENTIFICATION**Task #: 12AState: ColoradoAbbreviation: NoneDate: 2/8/2024County: MontroseFilename: 7822212aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

| | | <u>Utilization %</u> |
|------------------------|----------|----------------------|
| Ownership Cost/Hour: | \$241.38 | NA |
| Operating Cost/Hour: | \$143.92 | 100 |
| Ripper own. Cost/Hour: | \$0.00 | NA |
| Ripper op. Cost/Hour: | \$0.00 | 0 |
| Operator Cost/Hour: | \$41.30 | NA |

Total unit Cost/Hour: \$426.60Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: 1,075Swell factor: 1.000Loose volume: **1,075 LCY**Source of estimated volume: 2 acres 4" depthSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: -5 %Average site altitude: 6,350 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

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

| | | |
|------------------|-------|---------------|
| Job efficiency: | 0.830 | (1 SHIFT/DAY) |
| Spoil pile: | 0.800 | (FND-RF) |
| Push gradient: | 1.115 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 1.438 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.9582

Adjusted unit production: 816.96 LCY/hr

Adjusted fleet production: **816.96** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.522/LCY

Total job time: **1.32** Hours

Total job cost: **\$561**

REVEGETATION WORKTask description: Reveg. pit areaSite: Monogram MinesPermit Action: 2024-02-08 UpdatePermit/Job#: M1978222UG**PROJECT IDENTIFICATION**Task #: 13AState: ColoradoAbbreviation: NoneDate: 2/8/2024County: MontroseFilename: 7822213aUser: DMCAgency or organization name: DRMS**FERTILIZING****Materials**

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|-------------|-----------------|------|---|---------------|
| | | | \$ | \$ |
| | | | Total Fertilizer Materials Cost/Acre | \$0.00 |

Application

| Description | Cost /Acre |
|---|---------------|
| | \$ |
| Total Fertilizer Application Cost/Acre | \$0.00 |

TILLING

| Description | Cost /Acre |
|---|-----------------|
| Subsoil scarification, (MEANS 32 91 13.23 3100) | \$233.48 |
| Weed control spraying (MEANS 31 31 16.13 3100) | \$338.80 |
| Total Tilling Cost/Acre | \$572.28 |

SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|----------------------------------|--------------------------------|------------------------|------------|
| Indian Ricegrass - Paloma | 1.20 | 3.88 | \$13.35 |
| Sand Dropseed | 0.04 | 4.78 | \$0.39 |
| Bottlebrush Squirreltail | 3.20 | 14.10 | \$51.92 |
| Sandberg Bluegrass - VNS | 0.60 | 12.74 | \$5.04 |
| Galleta | 0.60 | 2.19 | \$13.41 |
| Sweetvetch, Utah or Northern | 0.20 | 0.09 | \$15.00 |
| Needle and Thread | 0.80 | 2.11 | \$33.48 |
| Western Wheatgrass - Native | 5.60 | 14.14 | \$33.60 |
| Daisy or Sunflower, Maximillians | 0.40 | 2.27 | \$22.40 |

| | | | |
|----------------------------------|-------|-------|-----------------|
| Sagebrush, Mountain or Big | 0.10 | 5.28 | \$1.98 |
| Saltbush, Four Wing | 0.06 | 0.08 | \$0.75 |
| Globemallow, Scarlet (or copper) | 0.18 | 2.04 | \$24.39 |
| Winter Fat | 0.10 | 0.25 | \$2.05 |
| Penstemon, Rocky Mountain | 0.12 | 1.88 | \$3.54 |
| Yarrow, White | 0.06 | 3.82 | \$2.40 |
| Totals Seed Mix | 13.26 | 69.66 | \$223.70 |

Application

| Description | Cost /Acre |
|---|-----------------|
| Broadcast seeding [DMG] | \$267.22 |
| Total Seed Application Cost/Acre | \$267.22 |

MULCHING and MISCELLANEOUS**Materials**

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|---|-----------------|------|-------------|-----------------|
| Straw, delivered {MEANS 31 25 14.16 1200} | 2.00 | TON | \$429.79 | \$859.57 |
| Total Mulch Materials Cost/Acre | | | | \$859.57 |

Application

| Description | Cost /Acre |
|--|-----------------|
| Power mulcher (MEANS 32 91 13.16 0350) | \$147.67 |
| Total Mulch Application Cost/Acre | \$147.67 |

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 2 Cost /Acre: \$2,070.44
 Estimated Failure Rate: 25% Cost /Acre*: \$2,070.44
 *Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$4,140.88
 Reseeding Job Cost: \$1,035.22
 Total Job Cost: \$5,176
 Job Hours: 2.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize reclamation crew/equipment**Site: **Monogram Mines**Permit Action: 2024-02-08 UpdatePermit/Job#: M1978222UG**PROJECT IDENTIFICATION**

Task #: 14A State: Colorado Abbreviation: None
 Date: 2/8/2024 County: Montrose Filename: 7822214a
 User: DMC

Agency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**

Shift basis: 1 per day
 Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED, 400 HP (2ND HALF, 2006)Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT TRAILER (25T, 50T, AND 100T)**Cost Breakdown:**

| Available Rig Capacities | 0-25 Tons | 26-50 Tons | 51+ Tons |
|---------------------------------|------------------|-------------------|-----------------|
| Ownership Cost/Hour: | \$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 D8T - 8SU | 53.08 | \$255.49 | \$175.95 | 1 | \$431.44 | \$175.95 | \$250.00 |
| CAT 450E | 9.80 | \$92.02 | \$82.29 | 1 | \$174.31 | \$82.29 | \$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 |
| Subtotals: | | | | | \$803.00 | \$422.82 | \$1,000.00 |

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: | NUCLA/NATURITA | |
| Total one-way travel distance: | 20.00 | miles |
| Average Travel Speed: | 35.00 | mph |

| | |
|-------------------------------------|------------|
| Total Non-Roadable Mob/Demob Cost * | \$5,006.94 |
| ** two round trips with haul rig: | |
| Total Roadable Mob/Demob Cost ** | \$18.09 |
| ** one round trip, no haul rig: | |

Transportation Cycle Time:

| | Non-Roadable Equipment | Roadable Equipment |
|-------------------------|------------------------|--------------------|
| Haul Time (Hours): | 0.57 | 0.57 |
| Return Time (Hours): | 0.57 | 0.57 |
| Loading Time (Hours): | 0.50 | NA |
| Unloading Time (Hours): | 0.50 | NA |
| Subtotals: | 2.14 | 1.14 |

JOB TIME AND COST

Total job time: 4.29 Hours

Total job cost: \$5,025