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

September 16, 2025

Peter Freedman
AuPt Industries LLC
PO Box 1424
Edwards, CO 81632

**RE: West Side Placer, File No. M-2016-081, Application for 110 Conversion to a 112c Operation (CN-2), Adequacy Review #4**

Peter Freedman,

On September 14, 2025, the Division of Reclamation, Mining and Safety (Division) received your adequacy response letter for CN-2 at the West Side Placer site, M-2016-081. The Division has reviewed the above referenced material submitted. The following items must be addressed before the Conversion Application can be considered for approval.

1. The Division has calculated an updated reclamation cost estimate for the West Side Placer operation with regard to the proposed operation under CN2. The estimate has been provided to AuPt Industries LLC with this letter. The Division respectfully requests a response from AuPt with any questions regarding the cost estimate or an acceptance of the Division's estimate.

This concludes the Division's adequacy review of this application. This letter shall not be interpreted to mean that there are no other technical deficiencies in your application; other issues may arise as additional information is supplied. Please be advised the permit application may be deemed inadequate, and the application may be denied on **October 17, 2025**, unless the above mentioned adequacy review items are addressed to the satisfaction of the Division. If more time is needed to complete the reply, the Division can grant an extension to the decision date. This will be done upon receipt of a written waiver of the Applicant's right to a decision by **October 17, 2025**, and the request for additional time. This must be received no later than the deadline date.

If you have any questions, please contact me by email at hunter.ridley@state.co.us or by phone at (720)868-7757.

Sincerely,
Hunter C. Ridley

Hunter Ridley

Environmental Protection Specialist II

CC: Zach Trujillo, DRMS

# COST SUMMARY WORK

Task description: **CN2**

Site: **West Side Placer** Permit Action: CN-2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: HCR State: Colorado Abbreviation: None
Date: 3/25/2025 County: Moffat Filename: M081-HCR
User: HR1

Agency or organization name: DRMS

## TASK LIST (DIRECT COSTS)

| Task | Description | Form Used | Fleet Size | Task Hours | Cost |
|---|---|---|---|---|---|
| 01a | Plug 4 water wells @ 300 ft depth | BOREHOLE | 1 | 64.00 | $15,484 |
| 02a | Demo Rapid Thickener Pillars | DEMOLISH | 1 | 4.00 | $65 |
| 02b | Demo Processing Plant foundations | DEMOLISH | 1 | 159.00 | $10,801 |
| 03a | Backfill and OB replacement of 110(2) mining area | SCRAPER1 | 1 | 21.17 | $29,548 |
| 03b | Ore replacement for active mining phase backfill (2 Phases) | DOZER | 1 | 149.40 | $49,012 |
| 04a | Rip compacted processing area and haul roads | RIPPER | 1 | 13.09 | $4,627 |
| 05a | Regrade 110(2) permit area | GRADER | 1 | 7.20 | $1,070 |
| 05b | Grade active mining phases and topsoil stripping phase (3 Ph | GRADER | 1 | 10.91 | $1,621 |
| 06a | Topsoil replacement on 110(2) mining areas | DOZER | 1 | 52.44 | $17,204 |
| 06b | Replace topsoil on stripped and active mining Phases (3) | DOZER | 1 | 79.45 | $26,066 |
| 07a | Seed 110(2) area | REVEGE | 1 | 9.00 | $10,935 |
| 07b | Seed mining phases (2 Phases) and stripped Phase (1 Phase) | REVEGE | 1 | 15.00 | $16,567 |
| 07c | Maintenance seeding of reclamation acres 25% (CN2) | REVEGE | 1 | 2.00 | $1,381 |
| 08a | Initial Mobilization | MOBILIZE | 1 | 5.78 | $7,080 |
| | | **SUBTOTALS:** | | **592.44** | **$191,462** |

## INDIRECT COSTS

OVERHEAD AND PROFIT:

| | | | |
|---|---|---|---|
| Liability insurance: | 2.02 | Total = | $3,868 |
| Performance bond: | 1.05 | Total = | $2,010 |
| Job superintendent: | 296.22 | Total = | $22,255 |
| Profit: | 10.00 | Total = | $19,146 |
| | | TOTAL O & P = | $47,279 |
| | | CONTRACT AMOUNT (direct + O & P) = | $238,741 |

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

| | | | |
|---|---|---|---|
| Financial warranty processing (legal/related costs): | $500 | Total = | $500 |
| Engineering work and/or contract/bid preparation: | 4.25 | Total = | $10,146 |
| Reclamation management and/or administration: | 5.00 | | $11,937 |

| | | |
|---|---|---|
| CONTINGENCY: | 0.00 | Total = $0 |
| | | TOTAL INDIRECT COST = $69,863 |
| | | **TOTAL BOND AMOUNT (direct + indirect) = $261,325** |

# BOREHOLE SEALING WORK

Task description: **Plug 4 water wells @ 300 ft depth**

Site: **West Side Placer** Permit Action: CN2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: 01A State: Colorado Abbreviation: None
Date: 1/3/2025 County: Moffat Filename: 01a
User: HR1

Agency or organization name: DRMS

## UNIT COSTS

| Borehole Description | Sealing/Item Method | Diameter | Length | Quantity | Unit | Unit Cost | Total Cost |
|---|---|---|---|---|---|---|---|
| Plug lower portion of well | Bentonite seal - 8 in. (labor, equip, materials) | 7.875 | 1180 | 1,180.00 | LF | $12.77 | $15,068.60 |
| Plug upper portion of well | Portland cement grout - 10 in. (labor, equip, materials) | 8.625 | 20 | 20.00 | LF | $11.60 | $231.90 |
| Marker | Borehole location/identification marker (EA, material cost only) | 8.625 | 4 | 4.00 | EA | $46.00 | $184.00 |

**Job Hours**: **64.00** **Total Cost**: **$15,484.00**

# DEMOLITION WORK

Task description: **Demo Rapid Thickener Pillars**

Site: **West Side Placer** Permit Action: CN-2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None
Date: 3/25/2025 County: Moffat Filename: 02a
User: HR1

Agency or organization name: DRMS

**UNIT COSTS** **Location adjustment: 95.50 %**

| Structure or Item Description | Dimensions | Demolition Menu Selection | Quantity | Unit | Unit Cost | Total Cost |
|---|---|---|---|---|---|---|
| 6 Pillars | 12"D x 6'L | Footing, concrete, 1.0 ft. x 2 ft. - No reinforcing | 18.00 | LF | $3.77 | $67.86 |

**Job Hours:** **4.00** **Subtotal (unadjusted):** **$67.86** **Total Cost (adjusted for location):** **$64.81**

# DEMOLITION WORK

Task description: **Demo Processing Plant foundations**

Site: **West Side Placer** Permit Action: CN-2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: 02B State: Colorado Abbreviation: None
Date: 3/25/2025 County: Moffat Filename: 02b
User: HR1

Agency or organization name: DRMS

**UNIT COSTS** **Location adjustment: 95.50 %**

| Structure or Item Description | Dimensions | Demolition Menu Selection | Quantity | Unit | Unit Cost | Total Cost |
|---|---|---|---|---|---|---|
| Concrete Foundations | 100'D x 30'L | Footing, concrete, 1.0 ft. x 2 ft. - No reinforcing | 3,000.00 | LF | $3.77 | $11,310.00 |

**Job Hours:** **159.00** **Subtotal (unadjusted)**: **$11,310.00** **Total Cost (adjusted for location)**: **$10,801.05**

# SCRAPER TEAM WORK

Task description: **Backfill and OB replacement of 110(2) mining area**

Site: **West Side Placer** Permit Action: CN-2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: 03A State: Colorado Abbreviation: None
Date: 3/25/2025 County: Moffat Filename: 03a
User: HR1

Agency or organization name: DRMS

## HOURLY EQUIPMENT

COSTShift basis: 1 per day

| | Equipment Description |
|---|---|
| -Scraper: | Cat 637G |
| -Dozer: | NA |
| Support Equipment -Load Area: | Cat D8T - 8SU |
| -Dump Area: | Cat D8T - 8SU |
| Road Maintenance –Motor Grader: | NA |
| -Water Truck: | NA |

**Cost Breakdown:**

| | Scraper Work Team | | Support Equipment | | Maintenance Equipment | |
|---|---|---|---|---|---|---|
| | Scraper | Dozer | Load Area | Dump Area | Motor Grader | Water Truck |
| %Utilization-machine: | 100 | NA | 100 | 100 | NA | NA |
| Ownership cost/hour: | $336.56 | NA | $179.60 | $179.60 | NA | NA |
| Operating cost/hour: | $343.56 | NA | $110.45 | $110.45 | NA | NA |
| %Utilization-ripper: | NA | NA | NA | NA | NA | NA |
| Ripper own. cost/hour: | NA | NA | $0.00 | $0.00 | NA | NA |
| Ripper op. cost/hour: | NA | NA | $0.00 | $0.00 | NA | NA |
| Operator cost/hour: | $59.78 | NA | $38.02 | $38.02 | NA | NA |
| Unit Subtotals: | $739.90 | NA | $328.07 | $328.07 | NA | NA |
| Number of Units: | 1 | 0 | 1 | 1 | 0 | 0 |
| Group Subtotals: | Work: | $739.90 | Support: | $656.14 | Maint: | $0.00 |

Total work team cost/hour: **$1,396.04**

## MATERIAL QUANTITIES

Initial volume: 9,999 CCY Swell factor: 1.000
Loose volume: **9,999** LCY

Source of estimated volume: 72" x 75' x 600' strips
Source of estimated swell factor: Cat Handbook

## HOURLY PRODUCTION

Material weight: 3,400 lbs/LCY
Material description: Sand and gravel - Wet
Rated Payload: 81,600 pounds
Payload Capacity: 24.00 LCY

Scraper Bowl (volume) Basis:

Struck Volume: 24.00 LCY
Heaped Volume: 34.00 LCY
Average Volume: 29.00 LCY
Adjusted Capacity: **24.00** LCY

Cycle Time:

Scraper Loading Time: 0.80 Minutes
Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction: Site Altitude: 6225 feet

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

Travel Time:
Road Condition: Loose sand or gravel 10

Haul Route:

| Seg # | Haul Distance (Ft) | Grade (%) | Roll. Res (%) | Total Res (%) | Velocity (fpm) | Travel Time (min) |
|---|---|---|---|---|---|---|
| 1 | 600.00 | 0.00 | 10.00 | 10.00 | 922 | 0.68 |

Haul Time: **0.68** minutes

Return Route:

| Seg # | Haul Distance (Ft) | Grade (%) | Roll. Res (%) | Total Res (%) | Velocity (fpm) | Travel Time (min) |
|---|---|---|---|---|---|---|
| 1 | 600.00 | 0.00 | 10.00 | 10.00 | 1476 | 0.45 |

Return Time: **0.45** minutes

Total Scraper team cycle time: **2.53** minutes
Adjusted for job conditions: 472.41 LCY/Hour
Selected Number of Scrapers: 1 Scraper(s)
Adjusted single scraper team (unit) hourly production: 472.41 LCY/Hour
Adjusted multiple scraper team (fleet) hourly production: **472.41** LCY/Hour

Unadjusted unit production/hour: 569.17 LCY/Hour
Optimal Number of Scrapers per push dozer:

## JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: **21.17** Hours

Unit cost: $2.955 /LCY Total job cost: **$29,548**

# BULLDOZER WORK

Task description: **Ore replacement for active mining phase backfill (2 Phases)**

Site: **West Side Placer** Permit Action: CN-2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: 03B State: Colorado Abbreviation: None
Date: 3/25/2025 County: Moffat Filename: 03b
User: HR1

Agency or organization name: DRMS

## HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
Horsepower: 310
Blade Type: Semi-Universal
Attachment: NA
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

| | | Utilization % |
|---|---|---|
| Ownership Cost/Hour: | $179.60 | NA |
| Operating Cost/Hour: | $110.45 | 100 |
| Ripper own. Cost/Hour: | $0.00 | NA |
| Ripper op. Cost/Hour: | $0.00 | 0 |
| Operator Cost/Hour: | $38.02 | NA |

Total unit Cost/Hour: $328.07
Total Fleet Cost/Hour: **$328.07**

## MATERIAL QUANTITIES

Initial Volume: 75,000
Swell factor: 1.060
Loose volume: **79,500** LCY

Source of estimated volume: 0.5:1 to 5:1 slopes, 30 ft depth, 500 ft highwall length
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: 0 %
Average site altitude: 6,225 feet

Material weight: 2,900 lbs/LCY

Weight description: Sand and gravel - Dry

| 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: | 0.700 | (FND-MF) |
| Push gradient: | 1.000 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 0.793 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.3801

Adjusted unit production: 532.14 LCY/hr
Adjusted fleet production: **532.14** LCY/hr

## JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $0.617/LCY

Total job time: **149.40** Hours
Total job cost: **$49,012**

# BULLDOZER RIPPING WORK

Task description: **Rip compacted processing area and haul roads**

Site: **West Side Placer** Permit Action: CN-2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: 04A State: Colorado Abbreviation: None
Date: 3/25/2025 County: Moffat Filename: 04a
User: HR1

Agency or organization name: DRMS

## HOURLY EQUIPMENT COST

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

Cost Breakdown:

| | | Utilization % |
|---|---|---|
| Ownership Cost/Hour: | $179.60 | NA |
| Operating Cost/Hour: | $110.45 | 100 |
| Ripper Ownership Cost/Hour: | $14.77 | NA |
| Ripper Operating Cost/Hour: | $10.44 | 100 |
| Operator Cost/Hour: | $38.02 | NA |
| Total Unit Cost/Hour: | $353.28 | |

Total Fleet Cost/Hour: **$353.28**

## MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 6.60 acres Rip Depth (ft): 2.00 Volume: 21,296 BCY or CCY

Source of estimated quantity: CN2 Exhibit D

## HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

| | | |
|---|---|---|
| Average Ripping Depth: | 3.71 | feet/pass |
| Average Ripping Width: | 5.56 | feet/pass |
| Average Ripping Length: | 200.00 | feet/pass |
| Average Dozer Speed: | 88.00 | feet/minute |
| Average Maneuver Time: | 0.25 | minutes/pass |
| Production per unit area: | 0.607 | acres/hour |

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.607 Acres/hr

| | | |
|---|---|---|
| Site Altitude: | 6,225 | feet |
| Altitude Adj: | 1.00 | (CAT HB) |
| Job Efficiency: | 0.83 | (1 shift/day) |
| Net Correction: | 0.83 | multiplier |

Adjusted Hourly Unit Production: 0.50 Acres/hr
Adjusted Hourly Fleet Production: **0.50** Acres/hr

## JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **13.10** Hours

Unit cost: $701.040 Per acre Total job cost: **$4,627**

# MOTOR GRADER WORK

Task description: **Regrade 110(2) permit area**

Site: **West Side Placer** Permit Action: CN-2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: 05A State: Colorado Abbreviation: None
Date: 3/25/2025 County: Moffat Filename: 05a
User: HR1

Agency or organization name: DRMS

## HOURLY EQUIPMENT COST

Basic Machine: CAT 12M Horsepower: 158
Ripper Attachment: Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

| | | Utilization % |
|---|---|---|
| Ownership Cost/Hour: | $47.95 | NA |
| Operating Cost/Hour: | $40.62 | 100 |
| Ripper Ownership Cost/Hour: | $0.00 | NA |
| Ripper Operating Cost/Hour: | $0.00 | |
| Operator Cost/Hour: | $60.00 | NA |
| Total Unit Cost/Hour: | $148.57 | |
| Total Fleet Cost/Hour: | **$148.57** | |

## MATERIAL QUANTITIES

Total Area to be graded or ripped: 9.90 acres

Source of estimated acreage: 110(2) Permit Application

## HOURLY PRODUCTION

| | | |
|---|---|---|
| Average Grader Speed: | 1.50 | mph |
| Selected Application: | Finish grading (0-2.5 mph) - 1.5 | |
| Selected Blade Angle: | 30 | degrees |
| Effective Blade Length: | 10.40 | feet |
| Width of blade overlap per pass: | 2.00 | feet |
| Net grading or ripping width per pass: | 8.40 | feet |
| Unadjusted Hourly Unit Production: | 1.5273 | acres/hour |

Job Condition Correction Factors Site Altitude: 6225 feet

| | | Source |
|---|---|---|
| Altitude Adj: | 1.00 | (CAT HB) |
| Job Efficiency: | 0.90 | (1sh/d, fav.) |
| Net Correction: | 0.9000 | multiplier |

Adjusted Hourly Unit Production: 1.3745 acres/Hour
Adjusted Hourly Fleet Production: **1.3745** acres/Hour

## JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **7.20** Hours

Unit cost: $108.09 per acre Total job cost: **$1,070**

# MOTOR GRADER WORK

Task description: **Grade active mining phases and topsoil stripping phase (3 Ph**

Site: **West Side Placer** Permit Action: CN-2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: 05B State: Colorado Abbreviation: None
Date: 3/25/2025 County: Moffat Filename: 05b
User: HR1

Agency or organization name: DRMS

## HOURLY EQUIPMENT COST

Basic Machine: CAT 12M Horsepower: 158
Ripper Attachment: Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

| | | Utilization % |
|---|---|---|
| Ownership Cost/Hour: | $47.95 | NA |
| Operating Cost/Hour: | $40.62 | 100 |
| Ripper Ownership Cost/Hour: | $0.00 | NA |
| Ripper Operating Cost/Hour: | $0.00 | |
| Operator Cost/Hour: | $60.00 | NA |
| Total Unit Cost/Hour: | $148.57 | |
| Total Fleet Cost/Hour: | **$148.57** | |

## MATERIAL QUANTITIES

Total Area to be graded or ripped: 15.00 acres

Source of estimated acreage: CN2 Exhibit D

## HOURLY PRODUCTION

Average Grader Speed: 1.50 mph
Selected Application: Finish grading (0-2.5 mph) - 1.5
Selected Blade Angle: 30 degrees
Effective Blade Length: 10.40 feet
Width of blade overlap per pass: 2.00 feet
Net grading or ripping width per pass: 8.40 feet
Unadjusted Hourly Unit Production: 1.5273 acres/hour

Job Condition Correction Factors Site Altitude: 6225 feet

| | | Source |
|---|---|---|
| Altitude Adj: | 1.00 | (CAT HB) |
| Job Efficiency: | 0.90 | (1sh/d, fav.) |
| Net Correction: | 0.9000 | multiplier |

Adjusted Hourly Unit Production: 1.3745 acres/Hour
Adjusted Hourly Fleet Production: **1.3745** acres/Hour

## JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **10.91** Hours

Unit cost: $108.09 per acre Total job cost: **$1,621**

# BULLDOZER WORK

Task description: **Topsoil replacement on 110(2) mining areas**

Site: **West Side Placer** Permit Action: CN-2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: 06A State: Colorado Abbreviation: None
Date: 3/25/2025 County: Moffat Filename: 06a
User: HR1

Agency or organization name: DRMS

## HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
Horsepower: 310
Blade Type: Semi-Universal
Attachment: NA
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

| | | Utilization % |
|---|---|---|
| Ownership Cost/Hour: | $179.60 | NA |
| Operating Cost/Hour: | $110.45 | 100 |
| Ripper own. Cost/Hour: | $0.00 | NA |
| Ripper op. Cost/Hour: | $0.00 | 0 |
| Operator Cost/Hour: | $38.02 | NA |

Total unit Cost/Hour: $328.07
Total Fleet Cost/Hour: **$328.07**

## MATERIAL QUANTITIES

Initial Volume: 15,972
Swell factor: 1.000
Loose volume: **15,972** LCY

Source of estimated volume: Avg 12 in over 9.9 acres
Source of estimated swell factor: Cat Handbook

## HOURLY PRODUCTION

Average push distance: 200 feet
Unadjusted hourly production: 491.9 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 10 %
Average site altitude: 6,225 feet

Material weight: 1,600 lbs/LCY

Weight description: Top Soil

| 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: | 0.800 | (FND-RF) |
| Push gradient: | 0.786 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 1.438 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.6192

Adjusted unit production: 304.58 LCY/hr
Adjusted fleet production: **304.58** LCY/hr

## JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $1.077/LCY

Total job time: **52.44** Hours
Total job cost: **$17,204**

# BULLDOZER WORK

Task description: **Replace topsoil on stripped and active mining Phases (3)**

Site: **West Side Placer** Permit Action: CN-2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: 06B State: Colorado Abbreviation: None
Date: 3/25/2025 County: Moffat Filename: 06b
User: HR1

Agency or organization name: DRMS

## HOURLY EQUIPMENT COST

Basic Machine: Cat D8T - 8SU
Horsepower: 310
Blade Type: Semi-Universal
Attachment: NA
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

| | | Utilization % |
|---|---|---|
| Ownership Cost/Hour: | $179.60 | NA |
| Operating Cost/Hour: | $110.45 | 100 |
| Ripper own. Cost/Hour: | $0.00 | NA |
| Ripper op. Cost/Hour: | $0.00 | 0 |
| Operator Cost/Hour: | $38.02 | NA |

Total unit Cost/Hour: $328.07
Total Fleet Cost/Hour: **$328.07**

## MATERIAL QUANTITIES

Initial Volume: 24,200
Swell factor: 1.000
Loose volume: **24,200** LCY

Source of estimated volume: Avg 12 in over 15 acres
Source of estimated swell factor: Cat Handbook

## HOURLY PRODUCTION

Average push distance: 200 feet
Unadjusted hourly production: 491.9 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 10 %
Average site altitude: 6,225 feet

Material weight: 1,600 lbs/LCY

Weight description: Top Soil

| 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: | 0.800 | (FND-RF) |
| Push gradient: | 0.786 | (CAT HB) |
| Altitude: | 1.000 | (CAT HB) |
| Material Weight: | 1.438 | (CAT HB) |
| Blade type: | 1.000 | (PAT) |

Net correction: 0.6192

Adjusted unit production: 304.58 LCY/hr
Adjusted fleet production: **304.58** LCY/hr

## JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: $1.077/LCY

Total job time: **79.45** Hours
Total job cost: **$26,066**

# REVEGETATION WORK

Task description: **Seed 110(2) area**

Site: **West Side Placer** Permit Action: CN-2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: 07A State: Colorado Abbreviation: None
Date: 3/25/2025 County: Moffat Filename: 07a
User: HR1

Agency 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 |
|---|---|
| | $ |
| **Total Tilling Cost/Acre** | **$0.00** |

## SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|---|---|---|---|
| Indian Ricegrass - Native | 2.00 | 6.47 | $35.41 |
| Slender Wheatgrass - Pryor | 2.00 | 7.30 | $12.66 |
| Thickspike Wheatgrass - Critana | 2.00 | 7.07 | $16.69 |
| Needle and Thread | 2.00 | 5.28 | $166.75 |
| Basin Wildrye - Trailhead | 2.00 | 8.13 | $26.65 |
| Bluebunch Wheatgrass - Goldar | 2.00 | 6.43 | $23.47 |
| Rabbitbrush, Douglas | 2.00 | 29.84 | $83.92 |
| **Totals Seed Mix** | 14.00 | 70.52 | **$365.54** |

**Application**

| Description | Cost /Acre |
|---|---|
| Drill Seeding (DRMS Survey Cost) | $242.30 |
| **Total Seed Application Cost/Acre** | **$242.30** |

## MULCHING and MISCELLANEOUS

**Materials**

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|---|---|---|---|---|
| Herbicide - 2,4D @ 1.0 pt/ac | 1.00 | ACRE | $4.44 | $4.44 |
| **Total Mulch Materials Cost/Acre** | | | | **$4.44** |

**Application**

| Description | Cost /Acre |
|---|---|
| Weed spray, truck, non-aquatic area, nox. [DMG] | $249.08 |
| **Total Mulch Application Cost/Acre** | **$249.08** |

## 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: 9.9
Estimated Failure Rate: 40%
*Selected Replanting Work Items: SEEDING

Cost /Acre: $861.36
Cost /Acre*: $607.84

Initial Job Cost: **$8,527.46**
Reseeding Job Cost: **$2,407.05**
Total Job Cost: **$10,935**
Job Hours: **9.00**

# REVEGETATION WORK

Task description: **Seed mining phases (2 Phases) and stripped Phase (1 Phase)**

Site: **West Side Placer** Permit Action: CN-2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: 07B State: Colorado Abbreviation: None
Date: 3/25/2025 County: Moffat Filename: 07b
User: HR1

Agency 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 |
|---|---|
| | $ |
| **Total Tilling Cost/Acre** | **$0.00** |

## SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|---|---|---|---|
| Indian Ricegrass - Native | 2.00 | 6.47 | $35.41 |
| Slender Wheatgrass - Pryor | 2.00 | 7.30 | $12.66 |
| Thickspike Wheatgrass - Critana | 2.00 | 7.07 | $16.69 |
| Needle and Thread | 2.00 | 5.28 | $166.75 |
| Basin Wildrye - Trailhead | 2.00 | 8.13 | $26.65 |
| Bluebunch Wheatgrass - Goldar | 2.00 | 6.43 | $23.47 |
| Rabbitbrush, Douglas | 2.00 | 29.84 | $83.92 |
| **Totals Seed Mix** | 14.00 | 70.52 | **$365.54** |

**Application**

| Description | Cost /Acre |
|---|---|
| Drill Seeding (DRMS Survey Cost) | $242.30 |
| **Total Seed Application Cost/Acre** | **$242.30** |

## MULCHING and MISCELLANEOUS

**Materials**

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|---|---|---|---|---|
| Herbicide - 2,4D @ 1.0 pt/ac | 1.00 | ACRE | $4.44 | $4.44 |
| **Total Mulch Materials Cost/Acre** | | | | **$4.44** |

**Application**

| Description | Cost /Acre |
|---|---|
| Weed spray, truck, non-aquatic area, nox. [DMG] | $249.08 |
| **Total Mulch Application Cost/Acre** | **$249.08** |

## 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: 15
Estimated Failure Rate: 40%
*Selected Replanting Work Items: SEEDING

Cost /Acre: $861.36
Cost /Acre*: $607.84

Initial Job Cost: **$12,920.40**
Reseeding Job Cost: **$3,647.04**
Total Job Cost: **$16,567**
Job Hours: **15.00**

# REVEGETATION WORK

Task description: **Maintenance seeding of reclamation acres 25% (CN2)**

Site: **West Side Placer** Permit Action: CN-2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: 07C State: Colorado Abbreviation: None
Date: 3/25/2025 County: Moffat Filename: 07c
User: HR1

Agency 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 |
|---|---|
| | $ |
| **Total Tilling Cost/Acre** | **$0.00** |

## SEEDING

| Seed Mix | Rate – PLS LBS / Acre | Seeds per SQ. FT | Cost /Acre |
|---|---|---|---|
| Indian Ricegrass - Native | 2.00 | 6.47 | $35.41 |
| Slender Wheatgrass - Pryor | 2.00 | 7.30 | $12.66 |
| Thickspike Wheatgrass - Critana | 2.00 | 7.07 | $16.69 |
| Needle and Thread | 2.00 | 5.28 | $166.75 |
| Basin Wildrye - Trailhead | 2.00 | 8.13 | $26.65 |
| Bluebunch Wheatgrass - Goldar | 2.00 | 6.43 | $23.47 |
| Rabbitbrush, Douglas | 2.00 | 29.84 | $83.92 |
| **Totals Seed Mix** | 14.00 | 70.52 | **$365.54** |

**Application**

| Description | Cost /Acre |
|---|---|
| Drill Seeding (DRMS Survey Cost) | $242.30 |
| **Total Seed Application Cost/Acre** | **$242.30** |

## MULCHING and MISCELLANEOUS

**Materials**

| Description | Units / Acre | Unit | Cost / Unit | Cost /Acre |
|---|---|---|---|---|
| Herbicide - 2,4D @ 1.0 pt/ac | 1.00 | ACRE | $4.44 | $4.44 |
| **Total Mulch Materials Cost/Acre** | | | | **$4.44** |

**Application**

| Description | Cost /Acre |
|---|---|
| Weed spray, truck, non-aquatic area, nox. [DMG] | $249.08 |
| **Total Mulch Application Cost/Acre** | **$249.08** |

## 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: 1.25
Estimated Failure Rate: 40%
*Selected Replanting Work Items: SEEDING

Cost /Acre: $861.36
Cost /Acre*: $607.84

Initial Job Cost: **$1,076.70**
Reseeding Job Cost: **$303.92**
Total Job Cost: **$1,381**
Job Hours: **2.00**

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: **Initial Mobilization**

Site: **West Side Placer** Permit Action: CN-2 Permit/Job#: M2016081

## PROJECT IDENTIFICATION

Task #: 08A State: Colorado Abbreviation: None
Date: 3/25/2025 County: Moffat Filename: 08a
User: HR1

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: | $21.47 | $38.32 | $48.96 |
| Operating Cost/Hour: | $31.47 | $60.11 | $65.86 |
| Operator Cost/Hour: | $22.52 | $22.52 | $22.52 |
| Helper Cost/Hour: | $0.00 | $22.25 | $22.25 |
| Total Unit Cost/Hour: | $75.46 | $143.20 | $159.59 |

## 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 637G | 57.28 | $336.56 | $159.59 | 1 | $496.15 | $159.59 | $250.00 |
| Cat D8T - 8SU | 53.08 | $194.88 | $159.59 | 1 | $354.47 | $159.59 | $250.00 |
| Drill/Broadcast Seeder with Tractor | 25.00 | $5.99 | $75.46 | 1 | $81.45 | $75.46 | $250.00 |
| CAT 12M | 16.01 | $47.95 | $75.46 | 1 | $123.41 | $75.46 | $250.00 |
| Subtotals: | | | | | **$1,055.48** | **$470.10** | **$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. | $44.48 | 1 | $44.48 | $44.48 |
| Subtotals: | | | **$44.48** | **$44.48** |

## EQUIPMENT HAUL DISTANCE and Time

| | | |
|---|---|---|
| Nearest Major City or Town within project area region: | CRAIG | |
| Total one-way travel distance: | 52.00 | miles |
| Average Travel Speed: | 55.00 | mph |
| Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig: | $6,995.69 | |
| Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig: | $84.11 | |

Transportation Cycle Time:

| | Non-Roadable Equipment | Roadable Equipment |
|---|---|---|
| Haul Time (Hours): | 0.95 | 0.95 |
| Return Time (Hours): | 0.95 | 0.95 |
| Loading Time (Hours): | 0.50 | NA |
| Unloading Time (Hours): | 0.50 | NA |
| Subtotals: | 2.89 | 1.89 |

## JOB TIME AND COST

| | | |
|---|---|---|
| Total job time: | **5.78** | Hours |
| Total job cost: | **$7,080** | |