

COAL BOND COMPLIANCE INSPECTION

Mine Peabody Sage Creek

Permittee Peabody Sage Creek Mining

Permit No. C2009087

Operator Miranda Kawcak

Date 17 June 2025

Inspector R. Reilley



Photo 1: Overview of the entrance area from above Pond 2.

Part 1 - Contemporaneous Reclamation - To be completed at least annually.

Compare the following field conditions to approved plans using the reclamation cost estimate, mine plan/operations plan maps, post-mining topography maps, and maps from annual reclamation reports, etc. Write a brief description of any observed discrepancies.

The Peabody Sage Creek site is an underground mine and currently rests in temporary cessation. The site in its current state adheres to the approved permit.

1. Number of mine shafts, and/or adits. open pits, and portals.
The portal is sealed. There are no open pits, adits or shafts present at the site.

- 1.a. Approximate dimensions of pits/openings.
NA all openings have been sealed.
2. Number of spoil ridges at each pit, or time elapsed since the pit was last active.
NA, spoil ridges have all been bond released and are no longer part of the active permit.
3. Are there existing subsidence features that require backfilling and grading?
Over the course of my oversight duties at Peabody Sage Creek Mine no subsidence features have been identified.
4. List refuse areas and their locations.
NA, no refuse areas are present at the site.

Topsoil

1. How large is the area ahead of the active mining area where topsoil has been removed?
NA, this mine site is in temporary cessation. As this is an underground mine site only topsoil piles for pond reclamation and pads are present.
2. What is the approximate area of graded areas where topsoil has not been redistributed?
NA, no reclamation is currently underway.
3. List Topsoil stockpiles and their locations.
Approximately 140,000 cubic yards are stockpiled at the South end of the site as per map 2.05.3-M1A. Most topsoil stockpiles are associated with ponds, pads and portal excavation.

Revegetation

1. How much area ahead of the pit and topsoil removal areas has been brushed?
NA, the site is an underground mine and in temporary cessation.

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Part 2 - Aerial Inspection - To be completed at least once annually.

Date of Photograph: 26 March 2025

Images taken by H. Ridley from State Patrol Plane.

Compare the following to the approved permit application maps, text, and the reclamation cost estimate. Describe any inconsistencies.

1. Number and area of pits or mine openings, mine benches, stockpile/storage pads.
The site is inactive. There is one portal that has been sealed. Topsoil stockpile comprises approximately 140,000 cubic yards as per the South End Map. Several storage pads comprise equipment stored for use at other Peabody sites.



Photo 2: Overview of some of the facilities buildings, portal bone yards and ponds.

2. Location/progression of pit areas.
NA.
3. Number of spoil ridges at each pit.
NA.

4. Area stripped ahead of pit areas.

NA.

5. Number of buildings and other structures.

6. In total, 136 structures are present on the site comprising buildings, pads and culverts.

There are 66 structures in addition to numerous culverts depicted on the two facilities maps:

- Map M1B Mine Facilities North End
- Map M1A Mine Facilities South End
- There are several ditches throughout the site. Ditches and culverts are also depicted on *Map M4, the Drainage and Sediment Control Plan Map*. Culverts are listed in Addendum 2.05.3 E2.A-1 on the *Summary Table Operational Culvert Schedule*. Culverts associated with permanent roads will be left as permanent structures and approximately 12 culverts will be removed as per the CIRCES estimate.



Photo 3: Overview of some of the facilities buildings, ponds and haul road.

7. Offsite/remote facilities.

NA

8. Ponds and Diversions

Diversion ditches and ponds are illustrated on *Map M4, the Drainage and Sediment Control Plan Map*. The permit comprises SEDCad demonstrations for the 10 and 25 year 24 hour events for the various ponds. Field inspections over the course of the 2024 and 2025 field season verified the condition and construction material of the ditches, ponds and spillways and found the structures to be functioning adequately.



Photo 4: Overview of the Pond System.

9. Roads (light use, access and haul roads).
Haul road and access road to the Portal and ponds are permanent facilities.
10. Location and approximate size of coal stockpiles.
NA

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Mine Peabody Sage Creek Permittee Peabody Sage Creek Mining LLC
Permit No. C2009087 Operator Miranda Kawcak
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Part 3 - Support Facilities/Hydrologic Structures -To be completed at Permit Renewal and Midterm

1. Verify that all roads are documented in the permit. If not, list all undocumented roads and their approximate width and length. Verify the type of surfacing used on each road (gravel, asphalt pavement, etc.)
All haul roads are documented in the permit and are gravel covered roads.
 2. Verify that all culverts are documented in the permit. If not, list their diameter and length.
 - *All culverts are documented in the permit. The majority of culverts comprise road culverts and will remain in place once reclamation is completed. All road culverts were surveyed and exist as documented. Some culverts have been removed in the course of reclamation activities. Culverts are listed in Addendum 2.05.3 E2.A-1 culverts are also depicted on Map M4, the Drainage and Sediment Control Plan Map.*
 3. List the location, type of opening (drift, shaft, incline), and dimensions of all mine openings.
NA
 4. Verify that all drill holes, bore holes, degas wells, etc, are documented in the permit. If not, list the type of opening, its location, diameter, and depth. Document dimensions of any structures associated.
Wells, boreholes, and degas wells are documented in the permit.
 5. List all offsite remote structures their composition, and dimensions. (Example: ventilation fans, weather stations, rail loops, loadouts).
NA
 6. List all sedimentation ponds, impoundments, and their locations. Document the type and the approximate dimensions of each structure.
 - *Ponds, stock ponds, channels, and culverts are depicted on Map M4, the Drainage and Sediment Control Plan Map. Culverts are listed in Addendum 2.05.3 E2.A-1 on the Summary Table Operational Culvert Schedule.*
- | <i>Pond</i> | <i>Pond</i> |
|-------------|-------------|
| Pond 004 | Upper Sump |
| Pond 002 | Lower Sump |
| Pond 003 | PECOCO Pond |
7. Are there stock tanks or dozer basins on site? If so, what is their average size and aerial density.
Yes, sumps and stock ponds are depicted on Map M4, the Drainage and Sediment Control Plan Map.

Mine Peabody Sage Creek_____

Permittee Peabody Sage Creek Mining LLC__

Permit No. C2009087_____

Operator Miranda Kawcak_____

Date 17 June 2024_____

Inspector R. Reilley_____

Part 4 – Structures and Facilities - Completed at Permit Renewal and Midterm



Photo 5: Water Tank.

1. List all structures, their composition, rough dimensions, and whether or not they are on concrete foundations and/or footings.

There are 136 structures on the site that comprise building, pads, and culverts. These are detailed in the See Structure Appendices and comprise CIRCES demolition Tasks 110 and 111. Culverts are listed in the *Summary Table Operational Culvert Schedule* in Addendum 2.05.3 E2.A-1, attached to this report.



Photo 6: Sealed Portal area and conveyor.

2. List the amounts and types of materials on site which may be costly to remove (Examples: soiled solvents, waste oils [metal laden], hydraulic fluids, antifreeze, etc.) and types of containers (Examples: 55-gallon drums, 5-gallon bucket, 100-lb. sacks, etc.). Inquire as to whether any of these materials are stored underground, and document accordingly.
No solvents or hazardous were found to exist on the site. Several barrels were identified containing grease/ oily rags and other nonhazardous waste. Other items observed are identified in the April 2025 complete inspection conducted by DRMS. No hazardous waste was noted at the time of inspection.
3. List the number and volume of any PCB or PCB contaminated transformers. If no evidence of "PCB Free" certification is found, and operator cannot produce documentation during inspection, list all transformers and volumes.
Transformers are present at the site. All transformers are PCB free.
4. Give the location, area, and **rough** volume of all equipment storage and facilities areas on site.
There are various bone yards and equipment storage structures around the site. The volume of all buildings to be demolished is considered in demo tasks 110 and 111. These demo tasks comprise costs for all items to be demolished, i.e. buildings, tanks, pads, footers etc.



Photo 7: One of the bone yards.

5. List the location of any buried fuel tanks or fuel lines. If there are buried tanks, inquire about the volume of them.

NA. All tanks are stationed above ground.

6. Briefly describe any factors that might complicate reclamation activities (Examples: restricted roads or bridges to access the site, utility corridors, transportation corridors, confined work areas, low wet areas, overburden problems, etc.)

The site is in temporary cessation and no restricted bridges, roads or utility corridors are present on site. Various fuel and oil tanks exist throughout the site and the costs for inert transportation has been considered in the reclamation cost estimate for each of the tanks at the site.

TRUCK/LOADER TEAM WORKTask description: **Haul Backfill Mat. from Coal Handling Fac. to Portal**Site: **Peabody Sage Creek Mine**Permit Action: BondReviewPermit/Job#: C2009087**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 12/18/2024County: RouttFilename: BondReviewUser: RARAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Shift basis: 1 per day

	Equipment Description
Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	Cat D10T - 10SU
-Dump Area:	NA
Road Maintenance -Motor Grader:	NA
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown:

	Truck/Loader Team		Support Equipment		Maintenance Equipment	
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
% Utilization-machine:	100	95	100	NA	NA	25
Ownership cost/hour:	\$116.19	\$131.26	\$257.39	NA	NA	\$111.67
Operating cost/hour:	\$85.60	\$95.11	\$196.93	NA	NA	\$29.61
% Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	NA	NA	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	NA	NA	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	NA	NA	\$21.12
Unit Subtotals:	\$227.03	\$263.23	\$492.91	NA	NA	\$162.40
Number of Units:	4	2	1	0	0	1
Group Subtotals:	Work: \$1,434.58		Support: \$492.91		Maint: \$162.40	

Total work team cost/hour: **\$2,089.89****MATERIAL QUANTITIES**Initial volume: 291,017

CCY

Swell factor: 1.125Loose volume: **327,394**

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat HandbookMaterial Purchase Cost: \$0.00Total Cost: \$0.00**HOURLY PRODUCTION****Truck Capacity:**Truck Payload (weight) Basis:Material weight: 2,650 Pounds/LCYDescription: Decomposed rock - 25% Rock, 75% EarthRated Payload: 82,000 PoundsPayload Capacity: 30.94 LCY

Truck Bed (volume) Basis:

Struck Volume:	21.60	LCY
Heaped Volume:	31.70	LCY
Average Volume:	26.65	LCY
Adjusted Volume:	30.94	LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	9.200	LCY (heaped)
Bucket Fill Factor:	0.825	Blasted rock - avg. blasted (75 - 90%) 0.825
Adjusted Capacity:	7.590	LCY

Job Condition Corrections:

Site Altitude (ft.): 6800 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time:

Number of Loading Tool Passes Required to Fill Truck: 4 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition Rating: NA

Selected Value within this Basic Rating: NA

Track Loaders – Material Description: _____

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.575 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders - 0.04	-0.040	(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:		-0.060	minutes
Adjusted Loader Cycle Time:		0.515	minutes
Net Load Time per Truck:		1.645	minutes

Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.600	Minutes
Truck Load Time:	1.645	Minutes	Adjusted for site altitude:	1.645	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.000	Minutes

Truck Travel (Haul & Return) Time:

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

maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	950.00	-5.00	3.00	-2.00	3893	0.294

Haul Time: **0.294** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	950.00	5.00	3.00	8.00	2120	0.572

Return Time: **0.572** minutesTotal Truck Cycle Time: **4.111** minutes

Loading Tool unit
 Production 811.40 LCY/Hour Adjusted for job efficiency: 673.46 LCY/Hour
 Truck Unit Production
443.10 LCY/Hour Adjusted for job efficiency: 367.78 LCY/Hour
 Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 2 Truck(s)
 Adjusted hourly truck team production: 735.55 LCY/Hour
 Adjusted single truck/loader team production: 673.46 LCY/Hour
 Adjusted multiple truck/loader team production: **1,346.93** LCY/Hour

JOB TIME AND COSTFleet size: 2 Team(s) Total job time: **243.07** HoursUnit cost: \$1.552 /LCY Total job cost: **\$507,983**

TRUCK/LOADER TEAM WORKTask description: Haul Backfill Material from Utility Pad Area to Portal Face-

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 002 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: BondReview
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	Cat D10T - 10SU
-Dump Area:	NA
Road Maintenance –Motor Grader:	NA
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	95	100	NA	NA	25
Ownership cost/hour:	\$116.19	\$131.26	\$257.39	NA	NA	\$111.67
Operating cost/hour:	\$85.60	\$95.11	\$196.93	NA	NA	\$29.61
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	NA	NA	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	NA	NA	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	NA	NA	\$21.12
Unit Subtotals:	\$227.03	\$263.23	\$492.91	NA	NA	\$162.40
Number of Units:	6	3	1	0	0	1
Group Subtotals:	Work: \$2,151.87	Support: \$492.91	Maint: \$162.40			

Total work team cost/hour: \$2,807.18

MATERIAL QUANTITIES

Initial volume: 183,389 CCY Swell factor: 1.125
 Loose volume: 206,313 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook
 Material Purchase Cost: \$0.00
 Total Cost: \$0.00

HOURLY PRODUCTION**Truck Capacity:****Truck Payload (weight) Basis:**

Material weight: 2,650 Pounds/LCY
 Description: Decomposed rock - 25% Rock, 75% Earth
 Rated Payload: 82,000 Pounds
 Payload Capacity: 30.94 LCY

Truck Bed (volume) Basis:

Struck Volume: 21.60 LCY
 Heaped Volume: 31.70 LCY
 Average Volume: 26.65 LCY
 Adjusted Volume: 30.94 LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)
 Bucket Fill Factor: 0.825 Blasted rock - avg. blasted (75 - 90%) 0.825
 Adjusted Capacity: 7.590 LCY

Job Condition Corrections: Site Altitude (ft.): 6800 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time: Number of Loading Tool Passes Required to Fill Truck: 4 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition

Rating:

NA

Selected Value within this Basic Rating:

NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.575 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(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:	-0.060	minutes
	Adjusted Loader Cycle Time:	0.515	minutes
	Net Load Time per Truck:	1.645	minutes

Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.600	Minutes
Truck Load Time:	1.645	Minutes	Adjusted for site altitude:	1.645	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.000	Minutes

Truck Travel (Haul & Return) Time: Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	3.00	3.00	2754	0.632

Haul Time: **0.632** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	3.00	3.00	4074	0.466

Return Time:	<u>0.466</u>	minutes
Total Truck Cycle Time:	<u>4.343</u>	minutes

Loading Tool unit

Production	<u>811.40</u>	LCY/Hour	Adjusted for job efficiency:	<u>673.46</u>	LCY/Hour
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Truck Unit

Production	<u>419.43</u>	LCY/Hour	Adjusted for job efficiency:	<u>348.13</u>	LCY/Hour
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Optimal No. of Trucks:	<u>2</u>	Truck(s)	Selected Number of Trucks:	<u>2</u>	Truck(s)
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Adjusted hourly truck team production:	<u>696.26</u>	LCY/Hour
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Adjusted single truck/loader team production:	<u>673.46</u>	LCY/Hour
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Adjusted multiple truck/loader team production:	<u>2,020.39</u>	LCY/Hour
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JOB TIME AND COST

Fleet size:	<u>3</u>	Team(s)	Total job time:	<u>102.12</u>	Hours
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Unit cost:	<u>\$1.389</u>	/LCY	Total job cost:	<u>\$286,655</u>
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TRUCK/LOADER TEAM WORKTask description: Haul Backfill Material from South Facilities to Portal Face-

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: BondReview
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	Cat D10T - 10SU
-Dump Area:	Cat D10T - 10SU
Road Maintenance –Motor Grader:	NA
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	95	100	100	NA	25
Ownership cost/hour:	\$116.19	\$131.26	\$257.39	\$257.39	NA	\$111.67
Operating cost/hour:	\$85.60	\$95.11	\$196.93	\$196.93	NA	\$29.61
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	NA	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	NA	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	NA	\$21.12
Unit Subtotals:	\$227.03	\$263.23	\$492.91	\$492.91	NA	\$162.40
Number of Units:	4	2	1	1	0	1
Group Subtotals:	Work:	\$1,434.58	Support:	\$985.82	Maint:	\$162.40

Total work team cost/hour: \$2,582.80

MATERIAL QUANTITIES

Initial volume: 192,960 CCY Swell factor: 1.125
 Loose volume: 217,080 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook
 Material Purchase Cost: \$0.00
 Total Cost: \$0.00

HOURLY PRODUCTION**Truck Capacity:****Truck Payload (weight) Basis:**

Material weight: 2,650 Pounds/LCY
 Description: Decomposed rock - 25% Rock, 75% Earth
 Rated Payload: 82,000 Pounds
 Payload Capacity: 30.94 LCY

Truck Bed (volume) Basis:

Struck Volume: 21.60 LCY
 Heaped Volume: 31.70 LCY
 Average Volume: 26.65 LCY
 Adjusted Volume: 30.94 LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)
 Bucket Fill Factor: 0.825 Blasted rock - avg. blasted (75 - 90%) 0.825
 Adjusted Capacity: 7.590 LCY

Job Condition Corrections: Site Altitude (ft.): 6800 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time: Number of Loading Tool Passes Required to Fill Truck: 4 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition

Rating:

NA

Selected Value within this Basic Rating:

NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.575 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(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:	-0.060	minutes
	Adjusted Loader Cycle Time:	0.515	minutes
	Net Load Time per Truck:	1.645	minutes

Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.600	Minutes
Truck Load Time:	1.645	Minutes	Adjusted for site altitude:	1.645	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.000	Minutes

Truck Travel (Haul & Return) Time: Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1250.00	-1.00	3.00	2.00	3843	1.131

Haul Time: 1.131 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1250.00	1.00	3.00	4.00	3891	0.703

Return Time: 0.703 minutes
 Total Truck Cycle Time: 5.079 minutes

Loading Tool unit

Production 811.40 LCY/Hour Adjusted for job efficiency: 673.46 LCY/Hour
 Truck Unit
 Production 358.65 LCY/Hour Adjusted for job efficiency: 297.68 LCY/Hour

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

Adjusted hourly truck team production: 595.36 LCY/Hour
 Adjusted single truck/loader team production: 595.36 LCY/Hour
 Adjusted multiple truck/loader team production: 1,190.73 LCY/Hour

JOB TIME AND COST

Fleet size: 2 Team(s) Total job time: 182.31 Hours

Unit cost: \$2.169 /LCY Total job cost: \$470,866

TRUCK/LOADER TEAM WORKTask description: Remove Coal Stockpile Footprint

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 004 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 004
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	Cat D10T - 10SU
-Dump Area:	Cat D10T - 10SU
Road Maintenance –Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	95	100	100	25	25
Ownership cost/hour:	\$116.19	\$131.26	\$257.39	\$257.39	\$129.81	\$111.67
Operating cost/hour:	\$85.60	\$95.11	\$196.93	\$196.93	\$22.28	\$29.61
%Utilization-ripper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	\$38.59	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$227.03	\$263.23	\$492.91	\$492.91	\$179.85	\$162.40
Number of Units:	4	1	1	1	1	1
Group Subtotals:	Work: \$1,171.35	Support: \$985.82	Maint: \$342.25			

Total work team cost/hour: \$2,499.42

MATERIAL QUANTITIES

Initial volume: 48,400 CCY Swell factor: 1.000
 Loose volume: 48,400 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook
 Material Purchase Cost: \$0.00
 Total Cost: \$0.00

HOURLY PRODUCTION**Truck Capacity:****Truck Payload (weight) Basis:**

Material weight: 1,600 Pounds/LCY
 Description: Coal - Bituminous, Raw
 Rated Payload: 82,000 Pounds
 Payload Capacity: 51.25 LCY

Truck Bed (volume) Basis:

Struck Volume: 21.60 LCY
 Heaped Volume: 31.70 LCY
 Average Volume: 26.65 LCY
 Adjusted Volume: 31.70 LCY

Final Truck Volume Based on Number of Loader Passes: 25.53 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)
 Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925
 Adjusted Capacity: 8.510 LCY

Job Condition Corrections: Site Altitude (ft.): 6800 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time: Number of Loading Tool Passes Required 3 passes
 to Fill Truck:

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition

Rating:

NA

Selected Value within this Basic Rating:

NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.575 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 1/8" to 3/4" diameter -0.02	-0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(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:	-0.100	minutes
	Adjusted Loader Cycle Time:	0.475	minutes
	Net Load Time per Truck:	1.050	minutes

Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.600	Minutes
Truck Load Time:	1.050	Minutes	Adjusted for site altitude:	1.050	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.000	Minutes

Truck Travel (Haul & Return) Time: Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	365.00	-2.60	3.00	0.40	4254	0.622
2	525.00	-8.69	3.00	-5.69	1693	0.437
3	1760.00	-6.25	3.00	-3.25	3053	0.642
4	900.00	-5.30	3.00	-2.30	3893	0.286

Haul Time: 1.987 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	900.00	5.30	3.00	8.30	2120	0.555
2	1760.00	6.25	3.00	9.25	2000	0.878
3	525.00	8.69	3.00	11.69	1477	0.321
4	365.00	2.60	3.00	5.60	2851	0.277

Return Time: 2.031 minutesTotal Truck Cycle Time: 6.668 minutes

Loading Tool unit

Production 928.36 LCY/Hour Adjusted for job efficiency: 770.54 LCY/Hour

Truck Unit

Production 229.72 LCY/Hour Adjusted for job efficiency: 190.67 LCY/HourOptimal No. of Trucks: 4 Truck(s) Selected Number of Trucks: 4 Truck(s)Adjusted hourly truck team production: 762.68 LCY/HourAdjusted single truck/loader team production: 762.68 LCY/HourAdjusted multiple truck/loader team production: 762.68 LCY/Hour**JOB TIME AND COST**Fleet size: 1 Team(s) Total job time: 63.46 HoursUnit cost: \$3.277 /LCY Total job cost: \$158,613

BULLDOZER WORKTask description: Regrade Cut Material Over 6.93 ROM Coal Area

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 005 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: C087-005
 User: RAR

Agency or organization name: DRMSHOURLY 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:	\$173.32	NA
Operating Cost/Hour:	\$109.71	100
Ripper own. Cost/Hour:	\$14.53	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA
Total unit Cost/Hour:	\$336.15	
Total Fleet Cost/Hour:	\$336.15	

MATERIAL QUANTITIES

Initial
Volume: 16,770
Swell factor: 1.125
Loose
volume: **18,866 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 100 feet
Unadjusted hourly production: 852.6 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 0 %
Average site altitude: 6,800 feet

Material weight: 2,650 lbs/LCY

Weight description: Decomposed rock - 25% Rock, 75% Earth

<u>Job Condition</u>	<u>Correction Factor</u>	<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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4755

Adjusted unit production: 405.41 LCY/hr

Adjusted fleet production:	<hr/> 405.41 LCY/hr <hr/>
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JOB TIME AND COST

Fleet size:	<hr/> 1 Dozer(s) <hr/>
Unit cost:	<hr/> \$0.829/LCY <hr/>

Total job time:	<hr/> 46.54 Hours <hr/>
Total job cost:	<hr/> \$15,643 <hr/>

BULLDOZER WORKTask description: Regrade Cut Material Over covered Storage Pad Area

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 011 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 011
 User: RAR

Agency or organization name: DRMSHOURLY 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:	\$173.32	NA
Operating Cost/Hour:	\$109.71	100
Ripper own. Cost/Hour:	\$14.53	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA
Total unit Cost/Hour:	\$336.15	
Total Fleet Cost/Hour:	\$336.15	

MATERIAL QUANTITIES

Initial
Volume: 2,500
Swell factor: 1.125
Loose
volume: **2,813 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 100 feet
Unadjusted hourly production: 852.6 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 0 %
Average site altitude: 6,800 feet

Material weight: 2,650 lbs/LCY

Weight description: Decomposed rock - 25% Rock, 75% Earth

<u>Job Condition</u>	<u>Correction Factor</u>	<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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4755

Adjusted unit production: 405.41 LCY/hr

Adjusted fleet production:	<hr/> 405.41 LCY/hr <hr/>
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JOB TIME AND COST

Fleet size:	<hr/> 1 Dozer(s) <hr/>
Unit cost:	<hr/> \$0.829/LCY <hr/>

Total job time:	<hr/> 6.94 Hours <hr/>
Total job cost:	<hr/> \$2,332 <hr/>

BULLDOZER WORK

Task description: **Regrade Drill Pads COV11, CCU31, CCU47, CCU58, CCU67, CCU84**

Site: **Peabody Sage Creek Mine** Permit Action: **BondReview** Permit/Job#: **C2009087**

PROJECT IDENTIFICATION

Task #: 012 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 012
 User: RAR

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:	\$173.32	NA
Operating Cost/Hour:	\$109.71	100
Ripper own. Cost/Hour:	\$14.53	NA
Ripper op. Cost/Hour:	\$7.95	100
Operator Cost/Hour:	\$38.59	NA
Total unit Cost/Hour:	\$344.10	
Total Fleet Cost/Hour:	\$344.10	

MATERIAL QUANTITIES

Initial
Volume: 3,388
Swell factor: 1.250
Loose
volume: **4,235 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety

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: Compacted fill or embankment 0.9

Average push gradient: 0 %
Average site altitude: 6,800 feet

Material weight: 2,650 lbs/LCY

Weight description: Decomposed rock - 25% Rock, 75% Earth

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3890

Adjusted unit production: 544.60 LCY/hr

Adjusted fleet production:	<hr/> 544.6 LCY/hr <hr/>
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JOB TIME AND COST

Fleet size:	<hr/> 1 Dozer(s) <hr/>
Unit cost:	<hr/> \$0.632/LCY <hr/>
Total job time:	<hr/> 7.78 Hours <hr/>
Total job cost:	<hr/> \$2,676 <hr/>

BULLDOZER WORKTask description: Regrade Drill Pads CCU087 and Septic Drainfield

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 013 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 013
 User: RAR

Agency or organization name: DRMSHOURLY 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:	\$173.32	NA
Operating Cost/Hour:	\$109.71	100
Ripper own. Cost/Hour:	\$14.53	NA
Ripper op. Cost/Hour:	\$7.95	100
Operator Cost/Hour:	\$38.59	NA
Total unit Cost/Hour:	\$344.10	
Total Fleet Cost/Hour:	\$344.10	

MATERIAL QUANTITIES

Initial
Volume: 847
Swell factor: 1.250
Loose
volume: **1,059 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety
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: Compacted fill or embankment 0.9

Average push gradient: 0 %
Average site altitude: 6,800 feet

Material weight: 2,650 lbs/LCY

Weight description: Decomposed rock - 25% Rock, 75% Earth

<u>Job Condition Correction Factor</u>	<u>Source</u>	
Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4668

Adjusted unit
production: 653.52 LCY/hr

Adjusted fleet
production: **653.52** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.527/LCY

Total job time: **1.62** Hours

Total job cost: **\$557**

TRUCK/LOADER TEAM WORKTask description: Remove Gravel from North Facilities Parking Area

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 020 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 020
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance –Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	95	NA	NA	25	25
Ownership cost/hour:	\$116.19	\$131.26	NA	NA	\$129.81	\$111.67
Operating cost/hour:	\$85.60	\$95.11	NA	NA	\$22.28	\$29.61
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	NA	NA	\$27.76	\$21.12
Unit Subtotals:	\$227.03	\$263.23	NA	NA	\$179.85	\$162.40
Number of Units:	6	1	0	0	1	1
Group Subtotals:	Work:	\$1,625.41	Support:	\$0.00	Maint:	\$342.25

Total work team cost/hour: **\$1,967.66****MATERIAL QUANTITIES**

Initial volume: 4,195 CCY Swell factor: 1.090
Loose volume: 4,573 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook
Material Purchase Cost: \$0.00
Total Cost: \$0.00

HOURLY PRODUCTION**Truck Capacity:**Truck Payload (weight) Basis:

Material weight: 2,400 Pounds/LCY
Description: Clay and gravel - Dry
Rated Payload: 82,000 Pounds
Payload Capacity: 34.17 LCY

Truck Bed (volume) Basis:

Struck Volume: 21.60 LCY
Heaped Volume: 31.70 LCY
Average Volume: 26.65 LCY
Adjusted Volume: 31.70 LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY
Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	9.200	LCY (heaped)
Bucket Fill Factor:	1.100	Other - rock/dirt mixtures (100-120%) 1.100
Adjusted Capacity:	10.120	LCY

Job Condition Corrections: Site Altitude (ft.): 6800 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Number of Loading Tool Passes Required
to Fill Truck: 3 passes

Loading Tool Cycle Time:

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition
Rating: NA
 Selected Value within this Basic Rating: NA

Track Loaders – Material Description: _____

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load,
dump, maneuver): 0.575 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 1/8" to 3/4" diameter -0.02	-0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(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:	-0.100	minutes
	Adjusted Loader Cycle Time:	0.475	minutes
	Net Load Time per Truck:	1.050	minutes

Truck Cycle Time:

Truck Exchange Time:	<u>0.60</u>	Minutes	Adjusted for site altitude:	<u>0.600</u>	Minutes
Truck Load Time:	<u>1.050</u>	Minutes	Adjusted for site altitude:	<u>1.050</u>	Minutes
Truck Maneuver and Dump Time:	<u>1.00</u>	Minutes	Adjusted for site altitude:	<u>1.000</u>	Minutes

Truck Travel (Haul & Return) Time: Road Condition: Very hard, smooth, asphalt or concrete, no
tire penetration 1.2

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	10560.00	0.00	1.20	1.20	4223	3.212

Haul Time: **3.212** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	10560.00	0.00	1.20	1.20	4254	2.754

Return Time: **2.754** minutes
Total Truck Cycle Time: **8.616** minutes

Loading Tool unit

Production	<u>1,104.00</u>	LCY/Hour	Adjusted for job efficiency:	<u>916.32</u>	LCY/Hour
Truck Unit Production	<u>211.42</u>	LCY/Hour	Adjusted for job efficiency:	<u>175.48</u>	LCY/Hour

Optimal No. of Trucks: 5 Truck(s) Selected Number of Trucks: 6 Truck(s)

Adjusted hourly truck team production: 1,052.87 LCY/Hour
Adjusted single truck/loader team production: 916.32 LCY/Hour
Adjusted multiple truck/loader team production: **916.32** LCY/Hour

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: **4.99** Hours

Unit cost: \$2.147 /LCY Total job cost: **\$9,819**

TRUCK/LOADER TEAM WORKTask description: Remove Gravel from Main North Facilities Area

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 021 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 021
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance –Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	95	NA	NA	25	25
Ownership cost/hour:	\$116.19	\$131.26	NA	NA	\$129.81	\$111.67
Operating cost/hour:	\$85.60	\$95.11	NA	NA	\$22.28	\$29.61
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	NA	NA	\$27.76	\$21.12
Unit Subtotals:	\$227.03	\$263.23	NA	NA	\$179.85	\$162.40
Number of Units:	6	1	0	0	1	1
Group Subtotals:	Work: \$1,625.41	Support: \$0.00	Maint: \$342.25			

Total work team cost/hour: \$1,967.66

MATERIAL QUANTITIES

Initial volume: 9,680 CCY Swell factor: 1.090
 Loose volume: 10,551 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook
 Material Purchase Cost: \$0.00
 Total Cost: \$0.00

HOURLY PRODUCTION**Truck Capacity:****Truck Payload (weight) Basis:**

Material weight: 2,400 Pounds/LCY
 Description: Clay and gravel - Dry
 Rated Payload: 82,000 Pounds
 Payload Capacity: 34.17 LCY

Truck Bed (volume) Basis:

Struck Volume: 21.60 LCY
 Heaped Volume: 31.70 LCY
 Average Volume: 26.65 LCY
 Adjusted Volume: 31.70 LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
 Adjusted Capacity: 10.120 LCY

Job Condition Corrections: Site Altitude (ft.): 6800 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time: Number of Loading Tool Passes Required to Fill Truck: 3 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition

Rating:

NA

Selected Value within this Basic Rating:

NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.575 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 1/8" to 3/4" diameter -0.02	-0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(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:	-0.100	minutes
	Adjusted Loader Cycle Time:	0.475	minutes
	Net Load Time per Truck:	1.050	minutes

Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.600	Minutes
Truck Load Time:	1.050	Minutes	Adjusted for site altitude:	1.050	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.000	Minutes

Truck Travel (Haul & Return) Time: Road Condition: Very hard, smooth, asphalt or concrete, no tire penetration 1.2

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	10560.00	0.00	1.20	1.20	4223	3.212

Haul Time: **3.212** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	10560.00	0.00	1.20	1.20	4254	2.754

Return Time: 2.754 minutes
Total Truck Cycle Time: 8.616 minutes

Loading Tool unit

Production 1,104.00 LCY/Hour Adjusted for job efficiency: 916.32 LCY/Hour

Truck Unit
Production 211.42 LCY/Hour Adjusted for job efficiency: 175.48 LCY/Hour

Optimal No. of Trucks: 5 Truck(s) Selected Number of Trucks: 6 Truck(s)

Adjusted hourly truck team production: 1,052.87 LCY/Hour
Adjusted single truck/loader team production: 916.32 LCY/Hour
Adjusted multiple truck/loader team production: 916.32 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 11.51 Hours

Unit cost: \$2.147 /LCY Total job cost: \$22,657

TRUCK/LOADER TEAM WORKTask description: Remove Gravel from North Facilities Electrical Shop Area

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 022 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 022
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance –Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	95	NA	NA	25	25
Ownership cost/hour:	\$116.19	\$131.26	NA	NA	\$129.81	\$111.67
Operating cost/hour:	\$85.60	\$95.11	NA	NA	\$22.28	\$29.61
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	NA	NA	\$27.76	\$21.12
Unit Subtotals:	\$227.03	\$263.23	NA	NA	\$179.85	\$162.40
Number of Units:	6	1	0	0	1	1
Group Subtotals:	Work: \$1,625.41	Support: \$0.00	Maint: \$342.25			

Total work team cost/hour: \$1,967.66

MATERIAL QUANTITIES

Initial volume: 2,581 CCY Swell factor: 1.090
 Loose volume: 2,813 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook
 Material Purchase Cost: \$0.00
 Total Cost: \$0.00

HOURLY PRODUCTION**Truck Capacity:****Truck Payload (weight) Basis:**

Material weight: 2,400 Pounds/LCY
 Description: Clay and gravel - Dry
 Rated Payload: 82,000 Pounds
 Payload Capacity: 34.17 LCY

Truck Bed (volume) Basis:

Struck Volume: 21.60 LCY
 Heaped Volume: 31.70 LCY
 Average Volume: 26.65 LCY
 Adjusted Volume: 31.70 LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
 Adjusted Capacity: 10.120 LCY

Job Condition Corrections: Site Altitude (ft.): 6800 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time: Number of Loading Tool Passes Required to Fill Truck: 3 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition

Rating:

NA

Selected Value within this Basic Rating:

NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.575 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 1/8" to 3/4" diameter -0.02	-0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(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:	-0.100	minutes
	Adjusted Loader Cycle Time:	0.475	minutes
	Net Load Time per Truck:	1.050	minutes

Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.600	Minutes
Truck Load Time:	1.050	Minutes	Adjusted for site altitude:	1.050	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.000	Minutes

Truck Travel (Haul & Return) Time: Road Condition: Very hard, smooth, asphalt or concrete, no tire penetration 1.2

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	10560.00	0.00	1.20	1.20	4223	3.212

Haul Time: **3.212** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	10560.00	0.00	1.20	1.20	4254	2.754

Return Time: 2.754 minutes
Total Truck Cycle Time: 8.616 minutes

Loading Tool unit

Production 1,104.00 LCY/Hour Adjusted for job efficiency: 916.32 LCY/Hour

Truck Unit

Production 211.42 LCY/Hour Adjusted for job efficiency: 175.48 LCY/Hour

Optimal No. of Trucks: 5 Truck(s) Selected Number of Trucks: 6 Truck(s)

Adjusted hourly truck team production: 1,052.87 LCY/Hour

Adjusted single truck/loader team production: 916.32 LCY/Hour

Adjusted multiple truck/loader team production: 916.32 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 3.07 Hours

Unit cost: \$2.147 /LCY Total job cost: \$6,041

TRUCK/LOADER TEAM WORKTask description: Remove Gravel from North Office Parking Area

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 023 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 023
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance –Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	95	NA	NA	25	25
Ownership cost/hour:	\$116.19	\$131.26	NA	NA	\$129.81	\$111.67
Operating cost/hour:	\$85.60	\$95.11	NA	NA	\$22.28	\$29.61
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	NA	NA	\$27.76	\$21.12
Unit Subtotals:	\$227.03	\$263.23	NA	NA	\$179.85	\$162.40
Number of Units:	6	1	0	0	1	1
Group Subtotals:	Work: \$1,625.41	Support: \$0.00	Maint: \$342.25			

Total work team cost/hour: \$1,967.66

MATERIAL QUANTITIES

Initial volume: 484 CCY Swell factor: 1.090
 Loose volume: 528 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook
 Material Purchase Cost: \$0.00
 Total Cost: \$0.00

HOURLY PRODUCTION**Truck Capacity:****Truck Payload (weight) Basis:**

Material weight: 2,400 Pounds/LCY
 Description: Clay and gravel - Dry
 Rated Payload: 82,000 Pounds
 Payload Capacity: 34.17 LCY

Truck Bed (volume) Basis:

Struck Volume: 21.60 LCY
 Heaped Volume: 31.70 LCY
 Average Volume: 26.65 LCY
 Adjusted Volume: 31.70 LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
 Adjusted Capacity: 10.120 LCY

Job Condition Corrections: Site Altitude (ft.): 6800 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time: Number of Loading Tool Passes Required to Fill Truck: 3 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition

NA

Rating:

Selected Value within this Basic Rating:

NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.575 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 1/8" to 3/4" diameter -0.02	-0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(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:	-0.100	minutes
	Adjusted Loader Cycle Time:	0.475	minutes
	Net Load Time per Truck:	1.050	minutes

Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.600	Minutes
Truck Load Time:	1.050	Minutes	Adjusted for site altitude:	1.050	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.000	Minutes

Truck Travel (Haul & Return) Time: Road Condition: Very hard, smooth, asphalt or concrete, no tire penetration 1.2

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	10560.00	0.00	1.20	1.20	4223	3.212

Haul Time: **3.212** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	10560.00	0.00	1.20	1.20	4254	2.754

Return Time: 2.754 minutes
Total Truck Cycle Time: 8.616 minutes

Loading Tool unit

Production 1,104.00 LCY/Hour Adjusted for job efficiency: 916.32 LCY/Hour

Truck Unit

Production 211.42 LCY/Hour Adjusted for job efficiency: 175.48 LCY/Hour

Optimal No. of Trucks: 5 Truck(s) Selected Number of Trucks: 6 Truck(s)

Adjusted hourly truck team production: 1,052.87 LCY/Hour
Adjusted single truck/loader team production: 916.32 LCY/Hour
Adjusted multiple truck/loader team production: 916.32 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 0.58 Hours

Unit cost: \$2.147 /LCY Total job cost: \$1,133

TRUCK/LOADER TEAM WORKTask description: Remove Gravel from South Powder Magazine Pad

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 024 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 024
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Cat 770D
-Loader:	CAT 988H
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance –Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	95	NA	NA	25	25
Ownership cost/hour:	\$116.19	\$131.26	NA	NA	\$129.81	\$111.67
Operating cost/hour:	\$85.60	\$95.11	NA	NA	\$22.28	\$29.61
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$25.24	\$36.85	NA	NA	\$27.76	\$21.12
Unit Subtotals:	\$227.03	\$263.23	NA	NA	\$179.85	\$162.40
Number of Units:	6	1	0	0	1	1
Group Subtotals:	Work: \$1,625.41	Support: \$0.00	Maint: \$342.25			

Total work team cost/hour: \$1,967.66

MATERIAL QUANTITIES

Initial volume: 416 CCY Swell factor: 1.090
 Loose volume: 453 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook
 Material Purchase Cost: \$0.00
 Total Cost: \$0.00

HOURLY PRODUCTION**Truck Capacity:****Truck Payload (weight) Basis:**

Material weight: 2,400 Pounds/LCY
 Description: Clay and gravel - Dry
 Rated Payload: 82,000 Pounds
 Payload Capacity: 34.17 LCY

Truck Bed (volume) Basis:

Struck Volume: 21.60 LCY
 Heaped Volume: 31.70 LCY
 Average Volume: 26.65 LCY
 Adjusted Volume: 31.70 LCY

Final Truck Volume Based on Number of Loader Passes: 30.36 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 9.200 LCY (heaped)
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
 Adjusted Capacity: 10.120 LCY

Job Condition Corrections: Site Altitude (ft.): 6800 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time: Number of Loading Tool Passes Required to Fill Truck: 3 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition

Rating:

NA

Selected Value within this Basic Rating:

NA

Track Loaders – Material Description:

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.575 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 1/8" to 3/4" diameter -0.02	-0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(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:	-0.100	minutes
	Adjusted Loader Cycle Time:	0.475	minutes
	Net Load Time per Truck:	1.050	minutes

Truck Cycle Time:

Truck Exchange Time:	<u>0.60</u>	Minutes	Adjusted for site altitude:	<u>0.600</u>	Minutes
Truck Load Time:	<u>1.050</u>	Minutes	Adjusted for site altitude:	<u>1.050</u>	Minutes
Truck Maneuver and Dump Time:	<u>1.00</u>	Minutes	Adjusted for site altitude:	<u>1.000</u>	Minutes

Truck Travel (Haul & Return) Time: Road Condition: Very hard, smooth, asphalt or concrete, no tire penetration 1.2

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	10560.00	0.00	1.20	1.20	4223	3.212

Haul Time: 3.212 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	10560.00	0.00	1.20	1.20	4254	2.754

Return Time: 2.754 minutesTotal Truck Cycle Time: 8.616 minutes

Loading Tool unit

Production 1,104.00 LCY/Hour Adjusted for job efficiency: 916.32 LCY/Hour

Truck Unit

Production 211.42 LCY/Hour Adjusted for job efficiency: 175.48 LCY/HourOptimal No. of Trucks: 5 Truck(s) Selected Number of Trucks: 6 Truck(s)Adjusted hourly truck team production: 1,052.87 LCY/HourAdjusted single truck/loader team production: 916.32 LCY/HourAdjusted multiple truck/loader team production: 916.32 LCY/Hour**JOB TIME AND COST**Fleet size: 1 Team(s) Total job time: 0.49 HoursUnit cost: \$2.147 /LCY Total job cost: \$974

BULLDOZER RIPPING WORKTask description: **Rip North Facilities Parking Area**

Site: **Peabody Sage Creek Mine** Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 030 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 030
 User: RAR

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: Cat D10T - 10SU Horsepower: 574
 Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$25.02</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$11.73</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$529.66</u>	

Total Fleet Cost/Hour: **\$529.66****MATERIAL QUANTITIES**Selected estimating
method:

Area

Alternate Methods:

Seismic:	<u>NA</u>		Bank Volume:	<u>NA</u>	BCY	<u>NA</u>	
Area:	<u>2.60</u>	acres	Rip Depth (ft):	<u>1.50</u>	Volum e:	<u>6,292</u>	BCY or CCY

Source of estimated quantity: Map 2.05.3 M1B

HOURLY PRODUCTION**Seismic:**

Seismic Velocity:	<u>NA</u>	feet/second
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Area:

Average Ripping Depth:	<u>1.50</u>	feet/pass
Average Ripping Width:	<u>8.67</u>	feet/pass
Average Ripping Length:	<u>250.00</u>	feet/pass
Average Dozer Speed:	<u>88.00</u>	feet/minute
Average Maneuver Time:	<u>0.25</u>	minutes/pass
Production per unit area:	<u>0.966</u>	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.966</u>	Acres/hr
Site Altitude:	<u>6,800</u>	feet
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier

Adjusted Hourly Unit Production:	<u>0.80</u>	Acres/hr
Adjusted Hourly Fleet Production:	<u>0.80</u>	Acres/hr

JOB TIME AND COST

Fleet size:	<u>1</u>	Grader(s)	Total job time:	<u>3.24</u>	Hours
Unit cost:	<u>\$660.667</u>	Per acre	Total job cost:	<u>\$1,718</u>	

BULLDOZER RIPPING WORKTask description: **Rip North Facilities Area**

Site: **Peabody Sage Creek Mine** Permit Action: **BondReview** Permit/Job#: **C2009087**

PROJECT IDENTIFICATION

Task #: 031 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 031
 User: RAR

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: Cat D10T - 10SU Horsepower: 574
 Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper Ownership Cost/Hour:	\$25.02	NA
Ripper Operating Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA
Total Unit Cost/Hour:	\$529.66	

Total Fleet Cost/Hour: **\$529.66****MATERIAL QUANTITIES**Selected estimating
method:

Area

Alternate Methods:

Seismic:	<u>NA</u>	Bank Volume:	<u>NA</u>	BCY	<u>NA</u>	
Area:	<u>6.00</u> acres	Rip Depth (ft):	<u>1.50</u>	Volum	<u>14,520</u>	BCY or CCY

Source of estimated quantity: Map 2.05.3 M1B**HOURLY PRODUCTION****Seismic:**Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>1.50</u>	feet/pass
Average Ripping Width:	<u>8.67</u>	feet/pass
Average Ripping Length:	<u>250.00</u>	feet/pass
Average Dozer Speed:	<u>88.00</u>	feet/minute
Average Maneuver Time:	<u>0.25</u>	minutes/pass
Production per unit area:	<u>0.966</u>	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.966</u>	Acres/hr
Site Altitude:	<u>6,800</u>	feet
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier
Adjusted Hourly Unit Production:	<u>0.80</u>	Acres/hr
Adjusted Hourly Fleet Production:	<u>0.80</u>	Acres/hr

JOB TIME AND COST

Fleet size:	<u>1</u>	Grader(s)	Total job time:	<u>7.48</u>	Hours
Unit cost:	<u>\$660.667</u>	Per acre	Total job cost:	<u>\$3,964</u>	

BULLDOZER RIPPING WORKTask description: **Rip North Electrical Shop Facilities Area**

Site: **Peabody Sage Creek Mine** Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 032 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 032
 User: RAR

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: Cat D10T - 10SU Horsepower: 574
 Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$25.02</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$11.73</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$529.66</u>	

Total Fleet Cost/Hour: **\$529.66****MATERIAL QUANTITIES**Selected estimating
method:

Area

Alternate Methods:

Seismic:	<u>NA</u>	Bank Volume:	<u>NA</u>	BCY	<u>NA</u>	
Area:	<u>1.60</u> acres	Rip Depth (ft):	<u>1.50</u>	Volum	<u>3,872</u>	BCY or CCY

Source of estimated quantity: Map 2.05.3 M1B**HOURLY PRODUCTION****Seismic:**Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>1.50</u>	feet/pass
Average Ripping Width:	<u>8.67</u>	feet/pass
Average Ripping Length:	<u>250.00</u>	feet/pass
Average Dozer Speed:	<u>88.00</u>	feet/minute
Average Maneuver Time:	<u>0.25</u>	minutes/pass
Production per unit area:	<u>0.966</u>	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.966</u>	Acres/hr
Site Altitude:	<u>6,800</u>	feet
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier
Adjusted Hourly Unit Production:	<u>0.80</u>	Acres/hr
Adjusted Hourly Fleet Production:	<u>0.80</u>	Acres/hr

JOB TIME AND COST

Fleet size:	<u>1</u>	Grader(s)	Total job time:	<u>2.00</u>	Hours
Unit cost:	<u>\$660.667</u>	Per acre	Total job cost:	<u>\$1,057</u>	

BULLDOZER RIPPING WORKTask description: **Rip North Office Parking Area**

Site: **Peabody Sage Creek Mine** Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 033 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 033
 User: RAR

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: Cat D10T - 10SU Horsepower: 574
 Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper Ownership Cost/Hour:	\$25.02	NA
Ripper Operating Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA
Total Unit Cost/Hour:	\$529.66	

Total Fleet Cost/Hour: **\$529.66****MATERIAL QUANTITIES**Selected estimating
method:

Area

Alternate Methods:

Seismic:	<u>NA</u>		Bank Volume:	<u>NA</u>	BCY	<u>NA</u>	
Area:	<u>0.30</u>	acres	Rip Depth (ft):	<u>1.50</u>	Volum e:	<u>726</u>	BCY or CCY

Source of estimated quantity: Map 2.05.3 M1B

HOURLY PRODUCTION**Seismic:**

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 1.50 feet/pass
 Average Ripping Width: 8.67 feet/pass
 Average Ripping Length: 250.00 feet/pass
 Average Dozer Speed: 88.00 feet/minute
 Average Maneuver Time: 0.25 minutes/pass
 Production per unit area: 0.966 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.966 Acres/hr
 Site Altitude: 6,800 feet
 Altitude Adj: 1.00 (CAT HB)
 Job Efficiency: 0.83 (1 shift/day)
 Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.80 Acres/hr
 Adjusted Hourly Fleet Production: **0.80** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **0.37** Hours

Unit cost: \$660.667 Per acre Total job cost: **\$198**

BULLDOZER RIPPING WORKTask description: **Rip South Powder Magazine Pad**

Site: **Peabody Sage Creek Mine** Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 034 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 034
 User: RAR

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: Cat D10T - 10SU Horsepower: 574
 Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$25.02</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$11.73</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$529.66</u>	

Total Fleet Cost/Hour: **\$529.66****MATERIAL QUANTITIES**Selected estimating
method:

Area

Alternate Methods:

Seismic:	<u>NA</u>		Bank Volume:	<u>NA</u>	BCY	<u>NA</u>	
Area:	<u>0.25</u>	acres	Rip Depth (ft):	<u>1.50</u>	Volum e:	<u>605</u>	BCY or CCY

Source of estimated quantity: Map 2.05.3 M1B

HOURLY PRODUCTION**Seismic:**

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 1.50 feet/pass
 Average Ripping Width: 8.67 feet/pass
 Average Ripping Length: 150.00 feet/pass
 Average Dozer Speed: 88.00 feet/minute
 Average Maneuver Time: 0.25 minutes/pass
 Production per unit area: 0.916 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.916 Acres/hr
 Site Altitude: 6,800 feet
 Altitude Adj: 1.00 (CAT HB)
 Job Efficiency: 0.83 (1 shift/day)
 Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.76 Acres/hr
 Adjusted Hourly Fleet Production: **0.76** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **0.33** Hours

Unit cost: \$696.292 Per acre Total job cost: **\$174**

BULLDOZER RIPPING WORKTask description: **Rip South Covered Storage Area**

Site: **Peabody Sage Creek Mine** Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 035 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 035
 User: RAR

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: Cat D10T - 10SU Horsepower: 574
 Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$25.02</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$11.73</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$529.66</u>	

Total Fleet Cost/Hour: **\$529.66****MATERIAL QUANTITIES**Selected estimating
method:

Area

Alternate Methods:

Seismic:	<u>NA</u>		Bank Volume:	<u>NA</u>	BCY	<u>NA</u>	
Area:	<u>3.00</u>	acres	Rip Depth (ft):	<u>1.50</u>	Volum e:	<u>7,260</u>	BCY or CCY

Source of estimated quantity: Map 2.05.3 M1B

HOURLY PRODUCTION**Seismic:**

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 1.50 feet/pass
 Average Ripping Width: 8.67 feet/pass
 Average Ripping Length: 250.00 feet/pass
 Average Dozer Speed: 88.00 feet/minute
 Average Maneuver Time: 0.25 minutes/pass
 Production per unit area: 0.966 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.966 Acres/hr
 Site Altitude: 6,800 feet
 Altitude Adj: 1.00 (CAT HB)
 Job Efficiency: 0.83 (1 shift/day)
 Net Correction: 0.83 multiplier
 Adjusted Hourly Unit Production: 0.80 Acres/hr
 Adjusted Hourly Fleet Production: **0.80** Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **3.74** Hours
 Unit cost: \$660.667 Per acre Total job cost: **\$1,982**

BULLDOZER RIPPING WORKTask description: **Rip Haulroad A/A1 Reduction**

Site: **Peabody Sage Creek Mine** Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 040 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 040
 User: RAR

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: Cat D10T - 10SU Horsepower: 574
 Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$25.02</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$11.73</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$529.66</u>	

Total Fleet Cost/Hour: **\$529.66****MATERIAL QUANTITIES**Selected estimating
method:

Area

Alternate Methods:

Seismic:	<u>NA</u>	Bank Volume:	<u>NA</u>	BCY	<u>NA</u>	
Area:	<u>7.10</u> acres	Rip Depth (ft):	<u>1.50</u>	Volum e:	<u>17,182</u>	BCY or CCY

Source of estimated quantity: Map 2.05.3 M1B and A**HOURLY PRODUCTION****Seismic:**Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>1.50</u>	feet/pass
Average Ripping Width:	<u>8.67</u>	feet/pass
Average Ripping Length:	<u>250.00</u>	feet/pass
Average Dozer Speed:	<u>88.00</u>	feet/minute
Average Maneuver Time:	<u>0.25</u>	minutes/pass
Production per unit area:	<u>0.966</u>	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.966</u>	Acres/hr
Site Altitude:	<u>6,800</u>	feet
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier
Adjusted Hourly Unit Production:	<u>0.80</u>	Acres/hr
Adjusted Hourly Fleet Production:	<u>0.80</u>	Acres/hr

JOB TIME AND COST

Fleet size:	<u>1</u>	Grader(s)	Total job time:	<u>8.86</u>	Hours
Unit cost:	<u>\$660.667</u>	Per acre	Total job cost:	<u>\$4,691</u>	

BULLDOZER RIPPING WORKTask description: **Rip Haulroad B Reduction**

Site: **Peabody Sage Creek Mine** Permit Action: **BondReview** Permit/Job#: **C2009087**

PROJECT IDENTIFICATION

Task #: 041 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 041
 User: RAR

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: Cat D10T - 10SU Horsepower: 574
 Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$257.39</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$196.93</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$25.02</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$11.73</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.59</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$529.66</u>	

Total Fleet Cost/Hour: **\$529.66****MATERIAL QUANTITIES**Selected estimating
method:

Area

Alternate Methods:

Seismic: <u>NA</u>	Bank Volume: <u>NA</u>	BCY	<u>NA</u>	
Area: <u>4.80</u> acres	Rip Depth (ft): <u>1.50</u>	Volum e:	<u>11,616</u>	BCY or CCY

Source of estimated quantity: Map 2.05.3 M1B and A**HOURLY PRODUCTION****Seismic:**Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>1.50</u>	feet/pass
Average Ripping Width:	<u>8.67</u>	feet/pass
Average Ripping Length:	<u>250.00</u>	feet/pass
Average Dozer Speed:	<u>88.00</u>	feet/minute
Average Maneuver Time:	<u>0.25</u>	minutes/pass
Production per unit area:	<u>0.966</u>	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.966</u>	Acres/hr
Site Altitude:	<u>6,800</u>	feet
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier
Adjusted Hourly Unit Production:	<u>0.80</u>	Acres/hr
Adjusted Hourly Fleet Production:	<u>0.80</u>	Acres/hr

JOB TIME AND COST

Fleet size:	<u>1</u>	Grader(s)	Total job time:	<u>5.99</u>	Hours
Unit cost:	<u>\$660.667</u>	Per acre	Total job cost:	<u>\$3,171</u>	

BULLDOZER RIPPING WORKTask description: Rip Haulroad D

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 042 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 042
 User: RAR

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: Cat D10T - 10SU Horsepower: 574
 Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper Ownership Cost/Hour:	\$25.02	NA
Ripper Operating Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA
Total Unit Cost/Hour:	\$529.66	

Total Fleet Cost/Hour: \$529.66**MATERIAL QUANTITIES**Selected estimating
method:

Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
 Area: 2.10 acres Rip Depth (ft): 1.50 Volum e: 5,082 BCY or CCY

Source of estimated quantity: Map 2.05.3 M1B and A**HOURLY PRODUCTION****Seismic:**Seismic Velocity: NA feet/second

Area:

Average Ripping Depth:	<u>1.50</u>	feet/pass
Average Ripping Width:	<u>8.67</u>	feet/pass
Average Ripping Length:	<u>250.00</u>	feet/pass
Average Dozer Speed:	<u>88.00</u>	feet/minute
Average Maneuver Time:	<u>0.25</u>	minutes/pass
Production per unit area:	<u>0.966</u>	acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production:	<u>0.966</u>	Acres/hr
Site Altitude:	<u>6,800</u>	feet
Altitude Adj:	<u>1.00</u>	(CAT HB)
Job Efficiency:	<u>0.83</u>	(1 shift/day)
Net Correction:	<u>0.83</u>	multiplier
Adjusted Hourly Unit Production:	<u>0.80</u>	Acres/hr
Adjusted Hourly Fleet Production:	<u>0.80</u>	Acres/hr

JOB TIME AND COST

Fleet size:	<u>1</u>	Grader(s)	Total job time:	<u>2.62</u>	Hours
Unit cost:	<u>\$660.667</u>	Per acre	Total job cost:	<u>\$1,387</u>	

BULLDOZER WORKTask description: Regrade Haulroad A/A1 Reduction

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 045 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 045
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU
 Horsepower: 574
 Blade Type: Semi-Universal
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA
Total unit Cost/Hour:	\$529.66	
Total Fleet Cost/Hour:	\$1,059.31	

MATERIAL QUANTITIES

Initial
Volume: 17,182
Swell factor: 1.000
Loose
volume: **17,182 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 250 feet
Unadjusted hourly production: 754.3 LCY/hr

Materials consistency description: Rock, well ripped or blasted 0.8

Average push gradient: 0 %
Average site altitude: 6,800 feet

Material weight: 2,650 lbs/LCY

Weight description: Decomposed rock - 25% Rock, 75% Earth

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.800	(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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3458

Adjusted unit production: 260.84 LCY/hr

Adjusted fleet production:	<hr/> 521.68 LCY/hr <hr/>
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JOB TIME AND COST

Fleet size:	<hr/> 2 Dozer(s) <hr/>
Unit cost:	<hr/> \$2.031/LCY <hr/>
 Total job time:	 <hr/> 32.94 Hours <hr/>
Total job cost:	<hr/> \$34,889 <hr/>

BULLDOZER WORKTask description: Regrade Haulroad B Reduction

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 046 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 046
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST

Basic
 Machine: Cat D10T - 10SU
 Horsepower: 574
 Blade Type: Semi-Universal
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership	\$257.39	NA
Cost/Hour:		
Operating	\$196.93	100
Cost/Hour:		
Ripper own.	\$25.02	NA
Cost/Hour:		
Ripper op.	\$11.73	100
Cost/Hour:		
Operator	\$38.59	NA
Cost/Hour:		
Total unit	\$529.66	
Cost/Hour:		
Total Fleet	\$1,059.31	
Cost/Hour:		

MATERIAL QUANTITIES

Initial Volume:	11,616
Swell factor:	1.000
Loose volume:	11,616 LCY

Source of estimated volume:	Division of Reclamation, Mining & Safety
Source of estimated swell factor:	Cat Handbook

HOURLY PRODUCTION

Average push distance:	250 feet
Unadjusted hourly production:	754.3 LCY/hr

Materials consistency description:	Rock, well ripped or blasted 0.8
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Average push gradient:	0 %
Average site altitude:	6,800 feet

Material weight:	2,650 lbs/LCY
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Weight description:	Decomposed rock - 25% Rock, 75% Earth
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<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.800	(CAT HB)
Dozing method:	1.200	(S-BY-S)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3735	

Adjusted unit production:	281.73 LCY/hr
Adjusted fleet production:	563.46 LCY/hr

JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$1.880/LCY
Total job time:	20.62 Hours
Total job cost:	\$21,838

BULLDOZER WORKTask description: **Regrade Haulroad D**

Site: **Peabody Sage Creek Mine** Permit Action: **BondReview** Permit/Job#: **C2009087**

PROJECT IDENTIFICATION

Task #: **047** State: **Colorado** Abbreviation: **None**
 Date: **12/18/2024** County: **Routt** Filename: **047**
 User: **RAR**

Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**

Basic Machine: **Cat D10T - 10SU**
 Horsepower: **574**
 Blade Type: **Semi-Universal**
 Attachment: **3-shank ripper**
 Shift Basis: **1 per day**
 Data Source: **(CRG)**

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$11.73	100
Operator Cost/Hour:	\$38.59	NA
Total unit Cost/Hour:	\$529.66	
Total Fleet Cost/Hour:	\$1,059.31	

MATERIAL QUANTITIES

Initial Volume: **5,178**
 Swell factor: **1.000**

Loose
volume: 5,178 LCY

Source of estimated
volume: Division of Reclamation, Mining & Safety

Source of estimated swell
factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 250 feet
Unadjusted hourly
production: 754.3 LCY/hr

Materials consistency
description: Rock, well ripped or blasted 0.8

Average push
gradient: 0 %

Average site
altitude: 6,800 feet

Material weight: 2,650 lbs/LCY

Weight
description: Decomposed rock - 25% Rock, 75% Earth

Job Condition Correction Factor **Source**

Operator Skill:	0.750	(AVG.)
Material consistency:	0.800	(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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3458

Adjusted unit
production: 260.84 LCY/hr

Adjusted fleet
production: 521.68 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost:	<u>\$2.031/LCY</u>
Total job time:	<u>9.93 Hours</u>
Total job cost:	<u>\$10,514</u>

BULLDOZER WORKTask description: Regrade Upper Sump

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 050 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 050
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU
 Horsepower: 574
 Blade Type: Semi-Universal
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA
Total unit Cost/Hour:	\$517.93	
Total Fleet Cost/Hour:	\$517.93	

MATERIAL QUANTITIES

Initial
Volume: 3,388
Swell factor: 1.125
Loose
volume: **3,812 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 200 feet
Unadjusted hourly production: 946.0 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %
Average site altitude: 6,800 feet

Material weight: 2,650 lbs/LCY

Weight description: Decomposed rock - 25% Rock, 75% Earth

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3890

Adjusted unit production: 367.99 LCY/hr

Adjusted fleet production:	<hr/> 367.99 LCY/hr <hr/>
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JOB TIME AND COST

Fleet size:	<hr/> 1 Dozer(s) <hr/>
Unit cost:	<hr/> \$1.407/LCY <hr/>
 Total job time:	 <hr/> 10.36 Hours <hr/>
Total job cost:	<hr/> \$5,364 <hr/>

BULLDOZER WORKTask description: Regrade Lower Sump

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 051 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 051
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU
 Horsepower: 574
 Blade Type: Semi-Universal
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA
Total unit Cost/Hour:	\$517.93	
Total Fleet Cost/Hour:	\$517.93	

MATERIAL QUANTITIES

Initial
Volume: 2,420
Swell factor: 1.125
Loose
volume: **2,723 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 200 feet
Unadjusted hourly production: 946.0 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %
Average site altitude: 6,800 feet

Material weight: 2,650 lbs/LCY

Weight description: Decomposed rock - 25% Rock, 75% Earth

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3890

Adjusted unit production: 367.99 LCY/hr

Adjusted fleet production:	<hr/> 367.99 LCY/hr <hr/>
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JOB TIME AND COST

Fleet size:	<hr/> 1 Dozer(s) <hr/>
Unit cost:	<hr/> \$1.407/LCY <hr/>
Total job time:	<hr/> 7.40 Hours <hr/>
Total job cost:	<hr/> \$3,832 <hr/>

MOTOR GRADER WORKTask description: **Regrade Area Ditches**

Site: **Peabody Sage Creek Mine** Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 052 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 052
 User: RAR

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: CAT 14M Horsepower: 259
 Ripper Attachment: Multi-Shank Ripper Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$129.81</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$89.13</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$5.75</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$27.76</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$252.45</u>	

Total Fleet Cost/Hour: \$252.45**MATERIAL QUANTITIES**Total Area to be graded or ripped: 2.00 acresSource of estimated acreage: PAP Table 2.05.3-E2-6**HOURLY PRODUCTION**

Average Grader Speed:	<u>1.75</u>	mph
Selected Application:	<u>Ditch building/cleaning (0-3 mph) - 1.75</u>	
Selected Blade Angle:	<u>30</u>	degrees
Effective Blade Length:	<u>12.10</u>	feet
Width of blade overlap per pass:	<u>2.00</u>	feet
Net grading or ripping width per pass:	<u>10.10</u>	feet
Unadjusted Hourly Unit Production:	<u>2.1424</u>	acres/hour

Job Condition Correction Factors Site Altitude: 6800 feet

Altitude Adj:	<u>1.00</u>	Source (CAT HB)
Job Efficiency:	<u>0.90</u>	(1sh/d, fav.)
Net Correction:	<u>0.9000</u>	multiplier
Adjusted Hourly Unit Production:	<u>1.9282</u>	acres/Hour
Adjusted Hourly Fleet Production:	<u>1.9282</u>	acres/Hour

JOB TIME AND COST

Fleet size:	<u>1</u>	Grader(s)	Total job time:	<u>1.04</u>	Hours
Unit cost:	<u>\$130.93</u>	per acre	Total job cost:	<u>\$262</u>	

BULLDOZER WORKTask description: Backfill and Regrade Microwave Tower Pad (MR22)

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 053 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 053
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST

Basic Machine: Cat D6T LGP
 Horsepower: 200
 Blade Type: Straight
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$99.72	NA
Operating Cost/Hour:	\$71.22	100
Ripper own. Cost/Hour:	\$9.25	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA
Total unit Cost/Hour:	\$218.78	
Total Fleet Cost/Hour:	\$218.78	

MATERIAL QUANTITIES

Initial
Volume: 24
Swell factor: 1.125
Loose
volume: 27 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet
Unadjusted hourly production: 444.6 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %
Average site altitude: 6,500 feet

Material weight: 2,650 lbs/LCY

Weight description: Decomposed rock - 25% Rock, 75% Earth

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
Operator Skill:	0.900	(AB.AVG.)
Material consistency:	0.900	(CAT HB))
Dozing method:	1.000	(GEN.)
Visibility:	0.800	(POOR)
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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3735

Adjusted unit production: 166.06 LCY/hr

Adjusted fleet production:	<hr/> 166.06 LCY/hr <hr/>
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JOB TIME AND COST

Fleet size:	<hr/> 1 Dozer(s) <hr/>
Unit cost:	<hr/> \$1.317/LCY <hr/>
 Total job time:	 <hr/> 0.16 Hours <hr/>
Total job cost:	<hr/> \$36 <hr/>

BULLDOZER WORKTask description: Replace Topsoil on Microwave Tower Pad

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 054 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 054
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST

Basic Machine: Cat D6T LGP
 Horsepower: 200
 Blade Type: Straight
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$99.72	NA
Operating Cost/Hour:	\$71.22	100
Ripper own. Cost/Hour:	\$9.25	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA
Total unit Cost/Hour:	\$218.78	
Total Fleet Cost/Hour:	\$218.78	

MATERIAL QUANTITIES

Initial
Volume: 16
Swell factor: 1.000
Loose
volume: **16 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 50 feet
Unadjusted hourly production: 444.6 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 0 %
Average site altitude: 6,500 feet

Material weight: 2,550 lbs/LCY

Weight description: Earth - Dry packed

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
Operator Skill:	0.900	(AB.AVG.)
Material consistency:	1.100	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	0.800	(POOR)
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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4744

Adjusted unit production: 210.92 LCY/hr

Adjusted fleet production:	<hr/> 210.92 LCY/hr <hr/>
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JOB TIME AND COST

Fleet size:	<hr/> 1 Dozer(s) <hr/>
Unit cost:	<hr/> \$1.037/LCY <hr/>
 Total job time:	 <hr/> 0.08 Hours <hr/>
Total job cost:	<hr/> \$17 <hr/>

SCRAPER TEAM WORKTask description: **Replace Topsoil on Coal Handling Facilities Area**

Site: **Peabody Sage Creek Mine** Permit Action: **BondReview** Permit/Job#: **C2009087**

PROJECT IDENTIFICATION

Task #: 060 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 060
 User: RAR

Agency or organization name: DRMS**HOURLY EQUIPMENT** COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance –Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Scraper Work Team Support Equipment Maintenance Equipment

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	25	25
Ownership cost/hour:	\$281.32	\$173.32	NA	NA	\$129.81	\$111.67
Operating cost/hour:	\$319.35	\$109.71	NA	NA	\$22.28	\$29.61
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$30.90	\$38.59	NA	NA	\$27.76	\$21.12
Unit Subtotals:	\$631.57	\$321.62	NA	NA	\$179.85	\$162.40
Number of Units:	2	1	0	0	1	1
Group Subtotals:	Work:	\$1,584.76	Support:	\$0.00	Maint:	\$342.25

Total work team cost/hour: **\$1,927.01****MATERIAL QUANTITIES**

Initial volume: 18,230 CCY Swell factor: 1.125
 Loose volume: 20,509 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION**Scraper Bowl (volume) Basis:**

Material weight:	2,550 lbs/LCY	Struck Volume:	24.00	LCY
Material description:	Earth - Dry packed	Heaped Volume:	34.00	LCY
Rated Payload:	81,600 pounds	Average Volume:	29.00	LCY
Payload Capacity:	32.00 LCY	Adjusted Capacity:	29.00	LCY

Cycle Time:

Scraper Loading Time:	<u>1.00</u> Minutes
Maneuver and Spread Time:	<u>0.60</u> Minutes

Job Condition Correction: Site Altitude: 6800 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	300.00	-10.00	4.00	-6.00	2192	0.20
2	2550.00	-2.10	4.00	1.90	2939	0.91
3	450.00	-2.20	4.00	1.80	2939	0.15

Haul Time: 1.26 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	450.00	2.20	4.00	6.20	2638	0.35
2	2550.00	2.10	4.00	6.10	2638	0.97
3	300.00	10.00	4.00	14.00	1073	0.09

Return Time: 1.41 minutes

Total Scraper team cycle time:	<u>4.27</u>	minutes
Adjusted for job conditions:	<u>676.44</u>	LCY/Hour

Selected Number of Scrapers:	<u>2</u>	Scraper(s)
Adjusted single scraper team (unit) hourly production:	<u>676.44</u>	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	<u>676.44</u>	LCY/Hour

Unadjusted unit production/hour: 814.99 LCY/Hour

Optimal Number of Scrapers per
push dozer: _____

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: **30.32** Hours

Unit cost: \$2.849 /LCY Total job cost: **\$58,424**

SCRAPER TEAM WORKTask description: Replace Topsoil on Portal Face-Up Area

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 061 State: Colorado Abbreviation: None
 Date: 12/18/2024 County: Routt Filename: 061
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance –Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Scraper Work Team Support Equipment Maintenance Equipment

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	25	25
Ownership cost/hour:	\$281.32	\$173.32	NA	NA	\$129.81	\$111.67
Operating cost/hour:	\$319.35	\$109.71	NA	NA	\$22.28	\$29.61
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$30.90	\$38.59	NA	NA	\$27.76	\$21.12
Unit Subtotals:	\$631.57	\$321.62	NA	NA	\$179.85	\$162.40
Number of Units:	2	1	0	0	1	1
Group Subtotals:	Work:	\$1,584.76	Support:	\$0.00	Maint:	\$342.25

Total work team cost/hour: \$1,927.01MATERIAL QUANTITIES

Initial volume: 25,490 CCY Swell factor: 1.125
 Loose volume: 28,676 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION**Scraper Bowl (volume) Basis:**

Material weight:	<u>2,550 lbs/LCY</u>	Struck Volume:	<u>24.00</u>	LCY
Material description:	<u>Earth - Dry packed</u>	Heaped Volume:	<u>34.00</u>	LCY
Rated Payload:	<u>81,600 pounds</u>	Average Volume:	<u>29.00</u>	LCY
Payload Capacity:	<u>32.00 LCY</u>	Adjusted Capacity:	<u>29.00</u>	LCY

Cycle Time:

Scraper Loading Time:	<u>1.00</u> Minutes
Maneuver and Spread Time:	<u>0.60</u> Minutes

Job Condition Correction: Site Altitude: 6800 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	300.00	-10.00	4.00	-6.00	2192	0.20
2	2550.00	-2.10	4.00	1.90	2939	0.91
3	750.00	-5.30	4.00	-1.30	2972	0.32

Haul Time: 1.43 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	750.00	5.30	4.00	9.30	1711	0.51
2	2550.00	2.10	4.00	6.10	2638	1.06
3	300.00	10.00	4.00	14.00	1073	0.09

Return Time: 1.66 minutes

Total Scraper team cycle time: 4.69 minutes
 Adjusted for job conditions: 615.86 LCY/Hour
 Selected Number of Scrapers: 2 Scraper(s)
 Adjusted single scraper team (unit) hourly production: 615.86 LCY/Hour
 Adjusted multiple scraper team (fleet) hourly production: 615.86 LCY/Hour

Unadjusted unit production/hour: 742.00 LCY/Hour
 Optimal Number of Scrapers per
 push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: 46.56 HoursUnit cost: \$3.129 /LCY Total job cost: \$89,727

SCRAPER TEAM WORKTask description: Replace Topsoil on South Utility Pads

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 062 State: Colorado Abbreviation: None
 Date: 12/19/2024 County: Routt Filename: 062
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance –Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Scraper Work Team Support Equipment Maintenance Equipment

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	25	25
Ownership cost/hour:	\$281.32	\$173.32	NA	NA	\$129.81	\$111.67
Operating cost/hour:	\$319.35	\$109.71	NA	NA	\$22.28	\$29.61
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$30.90	\$38.59	NA	NA	\$27.76	\$21.12
Unit Subtotals:	\$631.57	\$321.62	NA	NA	\$179.85	\$162.40
Number of Units:	2	1	0	0	1	1
Group Subtotals:	Work: \$1,584.76	Support: \$0.00	Maint: \$342.25			

Total work team cost/hour: \$1,927.01MATERIAL QUANTITIES

Initial volume: 15,810 CCY Swell factor: 1.125
 Loose volume: 17,786 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION**Scraper Bowl (volume) Basis:**

Material weight:	2,550 lbs/LCY	Struck Volume:	24.00	LCY
Material description:	Earth - Dry packed	Heaped Volume:	34.00	LCY
Rated Payload:	81,600 pounds	Average Volume:	29.00	LCY
Payload Capacity:	32.00 LCY	Adjusted Capacity:	29.00	LCY

Cycle Time:

Scraper Loading Time:	<u>1.00</u> Minutes
Maneuver and Spread Time:	<u>0.60</u> Minutes

Job Condition Correction: Site Altitude: 6800 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	750.00	-6.67	4.00	-2.67	2972	0.32
2	1050.00	0.00	4.00	4.00	2394	0.15

Haul Time: **0.47** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1050.00	0.00	4.00	4.00	2910	0.52
2	750.00	6.67	4.00	10.67	1434	0.31

Return Time: **0.83** minutes

Total Scraper team cycle time:	<u>2.90</u>	minutes
Adjusted for job conditions:	<u>996.00</u>	LCY/Hour
Selected Number of Scrapers:	<u>2</u>	Scraper(s)
Adjusted single scraper team (unit) hourly production:	<u>996.00</u>	LCY/Hour

Adjusted multiple scraper team (fleet) hourly production: 996.00 LCY/Hour

Unadjusted unit production/hour: 1,200.00 LCY/Hour

Optimal Number of Scrapers per
push dozer: _____

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 17.86 Hours

Unit cost: \$1.935 /LCY Total job cost: \$34,412

SCRAPER TEAM WORKTask description: Replace Topsoil on South Facilities Storage Areas

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 063 State: Colorado Abbreviation: None
 Date: 12/19/2024 County: Routt Filename: 063
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance –Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Scraper Work Team Support Equipment Maintenance Equipment

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	NA	25	25
Ownership cost/hour:	\$281.32	\$173.32	NA	NA	\$129.81	\$111.67
Operating cost/hour:	\$319.35	\$109.71	NA	NA	\$22.28	\$29.61
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$30.90	\$38.59	NA	NA	\$27.76	\$21.12
Unit Subtotals:	\$631.57	\$321.62	NA	NA	\$179.85	\$162.40
Number of Units:	2	1	0	0	1	1
Group Subtotals:	Work:	\$1,584.76	Support:	\$0.00	Maint:	\$342.25

Total work team cost/hour: \$1,927.01MATERIAL QUANTITIES

Initial volume: 22,759 CCY Swell factor: 1.125
 Loose volume: 25,604 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION**Scraper Bowl (volume) Basis:**

Material weight:	2,550 lbs/LCY	Struck Volume:	24.00	LCY
Material description:	Earth - Dry packed	Heaped Volume:	34.00	LCY
Rated Payload:	81,600 pounds	Average Volume:	29.00	LCY
Payload Capacity:	32.00 LCY	Adjusted Capacity:	29.00	LCY

Cycle Time:

Scraper Loading Time:	<u>1.00</u> Minutes
Maneuver and Spread Time:	<u>0.60</u> Minutes

Job Condition Correction: Site Altitude: 6800 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	-6.67	4.00	-2.67	2972	0.23
2	2500.00	-2.00	4.00	2.00	2939	0.85
3	1000.00	0.00	4.00	4.00	2394	0.13

Haul Time: 1.21 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	0.00	4.00	4.00	2910	0.51
2	2500.00	2.00	4.00	6.00	2638	0.75
3	500.00	6.67	4.00	10.67	1434	0.18

Return Time: 1.44 minutes

Total Scraper team cycle time:	<u>4.25</u>	minutes
Adjusted for job conditions:	<u>679.62</u>	LCY/Hour

Selected Number of Scrapers:	<u>2</u>	Scraper(s)
Adjusted single scraper team (unit) hourly production:	<u>679.62</u>	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	<u>679.62</u>	LCY/Hour

Unadjusted unit production/hour: 818.82 LCY/Hour

Optimal Number of Scrapers per
push dozer: _____

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: **37.67** Hours

Unit cost: \$2.835 /LCY Total job cost: **\$72,597**

SCRAPER TEAM WORKTask description: Replace Topsoil on Haulroad A/A-1 Reduction

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 064 State: Colorado Abbreviation: None
 Date: 12/19/2024 County: Routt Filename: 064
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance –Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Scraper Work Team Support Equipment Maintenance Equipment

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	25	25	25
Ownership cost/hour:	\$281.32	\$173.32	NA	\$173.32	\$129.81	\$111.67
Operating cost/hour:	\$319.35	\$109.71	NA	\$27.43	\$22.28	\$29.61
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$30.90	\$38.59	NA	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$631.57	\$321.62	NA	\$239.33	\$179.85	\$162.40
Number of Units:	2	1	0	1	1	1
Group Subtotals:	Work:	\$1,584.76	Support:	\$239.33	Maint:	\$342.25

Total work team cost/hour: \$2,166.34MATERIAL QUANTITIES

Initial volume: 11,454 CCY Swell factor: 1.125
 Loose volume: 12,886 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Scraper Bowl (volume) Basis:

Material weight:	<u>2,550 lbs/LCY</u>	Struck Volume:	<u>24.00</u>	LCY
Material description:	<u>Earth - Dry packed</u>	Heaped Volume:	<u>34.00</u>	LCY
Rated Payload:	<u>81,600 pounds</u>	Average Volume:	<u>29.00</u>	LCY
Payload Capacity:	<u>32.00 LCY</u>	Adjusted Capacity:	<u>29.00</u>	LCY

Cycle Time:

Scraper Loading Time: 1.00 Minutes
 Maneuver and Spread Time: 0.60 Minutes

Job Condition Correction: Site Altitude: 6800 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3728.00	2.00	4.00	6.00	1477	2.60

Haul Time: 2.60 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3728.00	-2.00	4.00	2.00	2960	1.39

Return Time: 1.39 minutes

Total Scraper team cycle time: 5.59 minutes
 Adjusted for job conditions: 516.71 LCY/Hour
 Selected Number of Scrapers: 2 Scraper(s)
 Adjusted single scraper team (unit) hourly production: 516.71 LCY/Hour

Adjusted multiple scraper team (fleet) hourly production: **516.71** LCY/Hour

Unadjusted unit production/hour: 622.54 LCY/Hour

Optimal Number of Scrapers per
push dozer: _____

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: **24.94** Hours

Unit cost: \$4.193 /LCY Total job cost: **\$54,025**

SCRAPER TEAM WORKTask description: **Replace Topsoil on Haulroad B Reduction**

Site: **Peabody Sage Creek** Permit Action:
Mine BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 065 State: Colorado Abbreviation: None
Date: 12/19/2024 County: Routt Filename: 065
User: RAR

Agency or organization name: DRMS**HOURLY EQUIPMENT COST** Shift basis: 1 per day

<u>Equipment Description</u>	
<u>-Scraper:</u>	<u>Cat 637G w/push-pull</u>
<u>-Dozer:</u>	<u>Cat D8T - 8SU</u>
<u>Support Equipment -Load Area:</u>	<u>NA</u>
<u>-Dump Area:</u>	<u>Cat D8T - 8SU</u>
<u>Road Maintenance –Motor Grader:</u>	<u>CAT 14M</u>
<u>-Water Truck:</u>	<u>Water Tanker, 10,000 Gal.</u>

Cost Breakdown: Scraper Work Team Support Equipment Maintenance Equipment

	<u>Scraper</u>	<u>Dozer</u>	<u>Load Area</u>	<u>Dump Area</u>	<u>Motor Grader</u>	<u>Water Truck</u>
<u>%Utilization-machine:</u>	<u>100</u>	<u>100</u>	<u>NA</u>	<u>25</u>	<u>25</u>	<u>25</u>
<u>Ownership cost/hour:</u>	<u>\$281.32</u>	<u>\$173.32</u>	<u>NA</u>	<u>\$173.32</u>	<u>\$129.81</u>	<u>\$111.67</u>
<u>Operating cost/hour:</u>	<u>\$319.35</u>	<u>\$109.71</u>	<u>NA</u>	<u>\$27.43</u>	<u>\$22.28</u>	<u>\$29.61</u>
<u>%Utilization-ripper:</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
<u>Ripper own. cost/hour:</u>	<u>NA</u>	<u>\$0.00</u>	<u>NA</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>
<u>Ripper op. cost/hour:</u>	<u>NA</u>	<u>\$0.00</u>	<u>NA</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$0.00</u>
<u>Operator cost/hour:</u>	<u>\$30.90</u>	<u>\$38.59</u>	<u>NA</u>	<u>\$38.59</u>	<u>\$27.76</u>	<u>\$21.12</u>
<u>Unit Subtotals:</u>	<u>\$631.57</u>	<u>\$321.62</u>	<u>NA</u>	<u>\$239.33</u>	<u>\$179.85</u>	<u>\$162.40</u>
<u>Number of Units:</u>	<u>2</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>1</u>	<u>1</u>
<u>Group Subtotals:</u>	<u>Work:</u>	<u>\$1,584.76</u>	<u>Support:</u>	<u>\$239.33</u>	<u>Maint:</u>	<u>\$342.25</u>

Total work team cost/hour: **\$2,166.34****MATERIAL QUANTITIES**

Initial volume: 7,743 CCY Swell factor: 1.125
Loose volume: **8,711** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor:

Cat Handbook**HOURLY PRODUCTION**Scraper Bowl (volume) Basis:

<u>Material weight:</u>	<u>2,550 lbs/LCY</u>	<u>Struck Volume:</u>	<u>24.00</u>	<u>LCY</u>
<u>Material description:</u>	<u>Earth - Dry packed</u>	<u>Heaped Volume:</u>	<u>34.00</u>	<u>LCY</u>
<u>Rated Payload:</u>	<u>81,600 pounds</u>	<u>Average Volume:</u>	<u>29.00</u>	<u>LCY</u>
<u>Payload Capacity:</u>	<u>32.00 LCY</u>	<u>Adjusted Capacity:</u>	<u>29.00</u>	<u>LCY</u>

Cycle Time:Scraper Loading Time:1.00 MinutesManeuver and Spread Time:0.60 MinutesJob Condition Correction: Site Altitude: 6800 feet

	<u>Scraper</u>	<u>Push Dozer</u>	<u>Source</u>
<u>Altitude Adj:</u>	<u>1.000</u>	<u>1.000</u>	<u>(CAT HB)</u>
<u>Job Efficiency:</u>	<u>0.830</u>	<u>0.830</u>	<u>(CAT HB)</u>
<u>Net Correction:</u>	<u>0.830</u>	<u>0.830</u>	

Travel Time:Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0Haul Route:

<u>Seg #</u>	<u>Haul Distance (Ft)</u>	<u>Grade (%)</u>	<u>Roll. Res (%)</u>	<u>Total Res (%)</u>	<u>Velocity (fpm)</u>	<u>Travel Time (min)</u>
<u>1</u>	<u>3753.00</u>	<u>-3.60</u>	<u>4.00</u>	<u>0.40</u>	<u>2965</u>	<u>1.45</u>

Haul Time: 1.45 minutesReturn Route:

<u>Seg #</u>	<u>Haul Distance (Ft)</u>	<u>Grade (%)</u>	<u>Roll. Res (%)</u>	<u>Total Res (%)</u>	<u>Velocity (fpm)</u>	<u>Travel Time (min)</u>
<u>1</u>	<u>3753.00</u>	<u>3.60</u>	<u>4.00</u>	<u>7.60</u>	<u>1931</u>	<u>2.03</u>

Return Time: 2.03 minutesTotal Scraper team cycle time:5.08 minutesAdjusted for job conditions:568.58 LCY/HourSelected Number of Scrapers:2 Scraper(s)Adjusted single scraper team (unit) hourly production:568.58 LCY/Hour

Adjusted multiple scraper team (fleet) hourly production: 568.58 LCY/Hour

Unadjusted unit production/hour: 685.04 LCY/Hour

Optimal Number of Scrapers per
push dozer: _____

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 15.32 Hours

Unit cost: \$3.810 /LCY Total job cost: \$33,189

SCRAPER TEAM WORKTask description: Replace Topsoil on Haulroad D Location

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 066 State: Colorado Abbreviation: None
 Date: 12/19/2024 County: Routt Filename: 066
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G w/push-pull
-Dozer:	Cat D8T - 8SU
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance –Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 10,000 Gal.

Cost Breakdown: Scraper Work Team Support Equipment Maintenance Equipment

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	25	25	25
Ownership cost/hour:	\$281.32	\$173.32	NA	\$173.32	\$129.81	\$111.67
Operating cost/hour:	\$319.35	\$109.71	NA	\$27.43	\$22.28	\$29.61
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$30.90	\$38.59	NA	\$38.59	\$27.76	\$21.12
Unit Subtotals:	\$631.57	\$321.62	NA	\$239.33	\$179.85	\$162.40
Number of Units:	2	1	0	1	1	1
Group Subtotals:	Work:	\$1,584.76	Support:	\$239.33	Maint:	\$342.25

Total work team cost/hour: \$2,166.34MATERIAL QUANTITIES

Initial volume: 3,452 CCY Swell factor: 1.125
 Loose volume: 3,884 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION**Scraper Bowl (volume) Basis:**

Material weight:	<u>2,550 lbs/LCY</u>	Struck Volume:	<u>24.00</u>	LCY
Material description:	<u>Earth - Dry packed</u>	Heaped Volume:	<u>34.00</u>	LCY
Rated Payload:	<u>81,600 pounds</u>	Average Volume:	<u>29.00</u>	LCY
Payload Capacity:	<u>32.00 LCY</u>	Adjusted Capacity:	<u>29.00</u>	LCY

Cycle Time:

Scraper Loading Time:	<u>1.00</u> Minutes
Maneuver and Spread Time:	<u>0.60</u> Minutes

Job Condition Correction: Site Altitude: 6800 feet

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

Travel Time:

Road Condition: Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3560.00	-2.90	4.00	1.10	2952	1.41

Haul Time: 1.41 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	3560.00	2.90	4.00	6.90	2240	1.71

Return Time: 1.71 minutes

Total Scraper team cycle time:	<u>4.72</u>	minutes
Adjusted for job conditions:	<u>611.95</u>	LCY/Hour
Selected Number of Scrapers:	<u>2</u>	Scraper(s)
Adjusted single scraper team (unit) hourly production:	<u>611.95</u>	LCY/Hour
Adjusted multiple scraper team (fleet) hourly production:	<u>611.95</u>	LCY/Hour

Unadjusted unit production/hour: 737.29 LCY/Hour

Optimal Number of Scrapers per
push dozer: _____

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 6.35 Hours

Unit cost: \$3.540 /LCY Total job cost: \$13,748

BULLDOZER WORK

Task description: **Replace Topsoil on COV11, CCU31, CCU47, CCU58, CCU67, CCU84,**

Site: **Peabody Sage Creek Mine** Permit Action: **BondReview** Permit/Job#: **C2009087**

PROJECT IDENTIFICATION

Task #: **068** State: **Colorado** Abbreviation: **None**
 Date: **12/19/2024** County: **Routt** Filename: **068**
 User: **RAR**

Agency or organization name: **DRMS**

HOURLY EQUIPMENT COST

Basic Machine: **Cat D10T - 10SU**
 Horsepower: **574**
 Blade Type: **Semi-Universal**
 Attachment: **3-shank ripper**
 Shift Basis: **1 per day**
 Data Source: **(CRG)**

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA
Total unit Cost/Hour:	\$517.93	
Total Fleet Cost/Hour:	\$517.93	

MATERIAL QUANTITIES

Initial
Volume: 2,258
Swell factor: 1.125
Loose
volume: **2,540 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 200 feet
Unadjusted hourly production: 946.0 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %
Average site altitude: 6,800 feet

Material weight: 2,550 lbs/LCY

Weight description: Earth - Dry packed

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4043

Adjusted unit production: 382.47 LCY/hr

Adjusted fleet production:	<hr/> 382.47 LCY/hr <hr/>
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JOB TIME AND COST

Fleet size:	<hr/> 1 Dozer(s) <hr/>
Unit cost:	<hr/> \$1.354/LCY <hr/>
 Total job time:	 <hr/> 6.64 Hours <hr/>
Total job cost:	<hr/> \$3,440 <hr/>

BULLDOZER WORKTask description: Replace Topsoil on Upper Sump

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 069 State: Colorado Abbreviation: None
 Date: 12/19/2024 County: Routt Filename: 069
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST

Basic Machine: Cat D10T - 10SU
 Horsepower: 574
 Blade Type: Semi-Universal
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$257.39	NA
Operating Cost/Hour:	\$196.93	100
Ripper own. Cost/Hour:	\$25.02	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$38.59	NA
Total unit Cost/Hour:	\$517.93	
Total Fleet Cost/Hour:	\$517.93	

MATERIAL QUANTITIES

Initial
Volume: 2,258
Swell factor: 1.125
Loose
volume: **2,540 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 200 feet
Unadjusted hourly production: 946.0 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %
Average site altitude: 6,800 feet

Material weight: 2,550 lbs/LCY

Weight description: Earth - Dry packed

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4043

Adjusted unit production: 382.47 LCY/hr

Adjusted fleet production:	<hr/> 382.47 LCY/hr <hr/>
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JOB TIME AND COST

Fleet size:	<hr/> 1 Dozer(s) <hr/>
Unit cost:	<hr/> \$1.354/LCY <hr/>
Total job time:	<hr/> 6.64 Hours <hr/>
Total job cost:	<hr/> \$3,440 <hr/>

BULLDOZER WORKTask description: Replace Topsoil on Lower Sump

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 070 State: Colorado Abbreviation: None
 Date: 12/19/2024 County: Routt Filename: 070
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST

Basic
 Machine: Cat D10T - 10SU
 Horsepower: 574
 Blade Type: Semi-Universal
 Attachment: 3-shank ripper
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership	\$257.39	NA
Cost/Hour:		
Operating	\$196.93	100
Cost/Hour:		
Ripper own.	\$25.02	NA
Cost/Hour:		
Ripper op.	\$0.00	0
Cost/Hour:		
Operator	\$38.59	NA
Cost/Hour:		
Total unit	\$517.93	
Cost/Hour:		
Total Fleet	\$517.93	
Cost/Hour:		

MATERIAL QUANTITIES

Initial
Volume: 1,613
Swell factor: 1.125
Loose
volume: **1,815 LCY**

Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 200 feet
Unadjusted hourly production: 946.0 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %
Average site altitude: 6,800 feet

Material weight: 2,550 lbs/LCY

Weight description: Earth - Dry packed

<u>Job Condition</u>	<u>Correction Factor</u>	<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	0.900	(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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4043

Adjusted unit production: 382.47 LCY/hr

Adjusted fleet production:	<hr/> 382.47 LCY/hr <hr/>
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JOB TIME AND COST

Fleet size:	<hr/> 1 Dozer(s) <hr/>
Unit cost:	<hr/> \$1.354/LCY <hr/>
 Total job time:	 <hr/> 4.74 Hours <hr/>
Total job cost:	<hr/> \$2,457 <hr/>

SAFEGUARDING UNDERGROUND OPENINGSTask description: **Seal Mine Shafts and Portals**

Site: **Peabody Sage Creek Mine** Permit Action: **BondReview** Permit/Job#: **C2009087**

PROJECT IDENTIFICATION

Task 080 State: Colorado Abbreviation: None
 #: _____
 Date: 12/19/2024 County: Routt Filename: 080
 User: RAR

Agency or organization name: DRMS

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Mine Portal Openings	20'X11' (4)	Adit closure - bulkhead seal (per opening)	4.00	EA	\$5,246.60	\$20,986.40
Backfill Portal Openings	20'X11' (4)	Adit closure - backfilling (per opening)	4.00	EA	\$3,649.41	\$14,597.64
Seal Portal Dewatering Well	3'X90'	Shaft closure - backfilling, by hand	30.00	CY	\$75.00	\$2,250.00
Portal Dewatering Well Bottom Plug	3'X90'	Shaft closure - monolithic plug (per opening)	1.00	EA	\$20,646.59	\$20,646.59

Job Hours: 32.00 **Total Cost:** \$58,480.63

BOREHOLE SEALING WORKTask description: **Drillhole/Monitoring Well Sealing**

Site: **Peabody Sage Creek Mine** Permit Action: **BondReview** Permit/Job#: **C2009087**

PROJECT IDENTIFICATION

Task 090 State: Colorado Abbreviation: None
 #: _____
 Date: 12/19/2024 County: Routt Filename: 090
 User: RAR

Agency or organization name: DRMS**UNIT COSTS**

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Seal Overburden Wells	Portland cement grout (Bag, material cost only...94 lb. bag)	6"	5033	220.00	bag	\$22.00	\$4,840.00
Seal Coal Wells	Portland cement grout (Bag, material cost only...94 lb. bag)	6"	3723	162.00	bag	\$22.00	\$3,564.00
Seal Underburden Wells	Portland cement grout (Bag, material cost only...94 lb. bag)	6"	3973	173.00	bag	\$22.00	\$3,806.00
Seal Exploration Wells	Portland cement grout (Bag, material cost only...94 lb. bag)	6"	8600	375.00	bag	\$22.00	\$8,250.00
Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	6"	23'	23.00	LF	\$3.23	\$74.29
Borehole Plug	PVC plug - 6 in. diameter borehole	6"	NA	23.00	EA	\$65.19	\$1,499.40
Borehole Marker	Borehole location/identification marker (EA,	NA	NA	23.00	EA	\$46.00	\$1,058.00

	material cost only)						
Seal Misc Borehole/ Well	Portland cement grout (Bag, material cost only...94 lb. bag)	12"	1000	175.00	bag	\$22.00	\$3,850.00
Cut Casing at Surface	Exposed casing removal - Calculate Circumference in Linear Feet	12"	4'	4.00	LF	\$3.23	\$12.92
Borehole Plug	PVC plug - 12 in. diameter borehole	12"	NA	4.00	EA	\$167.62	\$670.50
Borehole Marker	Borehole location/identification marker (EA, material cost only)	NA	NA	4.00	EA	\$46.00	\$184.00
Drill Rig and Labor	SCHRAMM T450WS	NA	NA	233.00	EA	\$574.01	\$133,744.33
Water Truck	Water Tanker, 2,500 Gal.	NA	NA	233.00	EA	\$55.22	\$12,866.26
Seal Alluvial/Sp oil Wells	Bentonite seal - 6 in. (labor, equip, materials)	6"	222.2	7.00	LF	\$11.25	\$78.77
Seal and Abandon 14" Water Pump Borehole (MR20)	Portland cement grout (Bag, material cost only...94 lb. bag)	14"	45	6.00	bag	\$22.00	\$132.00
Seal and Abandon 5.625" pump control hole	Portland cement grout (Bag, material cost only...94 lb. bag)	5.625"	45	2.00	bag	\$22.00	\$44.00
Bottom Plug (MR20)	PVC plug - 12 in. diameter borehole	14"	NA	1.00	EA	\$167.62	\$167.62
Bottom Plug (MR20)	PVC plug - 6 in. diameter borehole	5.625"	NA	1.00	EA	\$65.19	\$65.19
Borehole Marker (MR20)	Borehole location/identification marker (EA, material cost only)	NA	NA	2.00	EA	\$46.00	\$92.00

Cut Casings (MR20)	Exposed casing removal - Calculate Circumference in Linear Feet	14 & 5.625"	NA	5.28	LF	\$3.23	\$17.05
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Job Hours:**233.00****Total Cost:****\$175,016.00**

REVEGETATION WORKTask description: **Reseed North Facilities Areas**

Site: **Peabody Sage Creek Mine** Permit Action: **BondReview** Permit/Job#: **C2009087**

PROJECT IDENTIFICATION

Task #: 100 State: Colorado Abbreviation: None
 Date: 12/19/2024 County: Routt Filename: 100
 User: RAR

Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Composted manure DRMS Survey	500.00	pound	\$0.43	\$213.90
			Total Fertilizer Materials Cost/Acre	\$213.90

Application

Description	Cost /Acre
Manure, tractor spreader (MEANS 32 91 13.23 4450)	\$77.10
Total Fertilizer Application Cost/Acre	\$77.10

TILLING

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$49.76
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92
Big Bluegrass - Sherman	0.10	2.07	\$1.59
Bitterbrush, Antelope	1.00	0.31	\$56.51
Aster, Engleman's	0.10	0.48	\$22.69
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.40
Rocky Mountain Fescue	0.10	1.61	\$1.08
Slender Wheatgrass - Native	1.00	3.65	\$7.06
Coneflower, Prairie	1.00	27.18	\$35.61
Streambank Wheatgrass - Sodar	0.50	1.63	\$4.15
Thickspike Wheatgrass - Critana	0.50	1.77	\$4.07
Western Wheatgrass - Native	1.00	2.53	\$9.01
Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
Sagebrush, Mountain or Big	0.25	13.20	\$20.67
Flax, Lewis Blue	0.50	3.32	\$21.15
Sagebrush, Wyoming Big	0.25	14.78	\$19.70
Snowberry, Mountain	0.50	0.86	\$29.53
Penstemon, Palmer	0.10	2.21	\$7.79
Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, White	0.10	6.36	\$7.34
Totals Seed Mix	11.35	98.42	\$346.74

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

JOB TIME AND COST

No. of Acres:	14.35	Cost /Acre:	\$991.99
Estimated Failure Rate:	20%	Cost /Acre*:	\$991.99
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING		

Initial Job Cost:	\$14,235.06
Reseeding Job Cost:	\$2,847.01
Total Job Cost:	\$17,082
Job Hours:	7.20

REVEGETATION WORKTask description: **Reseed South Facilities Areas**

Site: **Peabody Sage Creek** Permit Action: **Mine** **BondReview** Permit/Job#: **C2009087**

PROJECT IDENTIFICATION

Task #: **101** State: **Colorado** Abbreviation: **None**
 Date: **12/19/2024** County: **Routt** Filename: **101**
 User: **RAR**

Agency or organization name: **DRMS****TILLING**

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$49.76
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92
Big Bluegrass - Sherman	0.10	2.07	\$1.59
Bitterbrush, Antelope	1.00	0.31	\$56.51
Aster, Engelman's	0.10	0.48	\$22.69
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.40
Rocky Mountain Fescue	0.10	1.61	\$1.08
Slender Wheatgrass - Native	1.00	3.65	\$7.06
Coneflower, Prairie	1.00	27.18	\$35.61
Streambank Wheatgrass - Sodar	0.50	1.63	\$4.15
Thickspike Wheatgrass - Critana	0.50	1.77	\$4.07
Western Wheatgrass - Native	1.00	2.53	\$9.01
Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
Sagebrush, Mountain or Big	0.25	13.20	\$20.67
Flax, Lewis Blue	0.50	3.32	\$21.15
Sagebrush, Wyoming Big	0.25	14.78	\$19.70
Snowberry, Mountain	0.50	0.86	\$29.53
Penstemon, Palmer	0.10	2.21	\$7.79

Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, White	0.10	6.36	\$7.34
Totals Seed Mix	11.35	98.42	\$346.74

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

JOB TIME AND COST

No. of Acres:	76.8	Cost /Acre:	\$700.99
Estimated Failure Rate:	20%	Cost /Acre*:	\$700.99
*Selected Replanting Work Items:	TILLING,SEEDING		

Initial Job Cost:	\$53,836.03
Reseeding Job Cost:	\$10,767.21
Total Job Cost:	\$64,603
Job Hours:	38.40

REVEGETATION WORKTask description: **Reseed Reclaimed Roads**

Site: **Peabody Sage Creek** Permit Action: **Mine** **BondReview** Permit/Job#: **C2009087**

PROJECT IDENTIFICATION

Task #: **102** State: **Colorado** Abbreviation: **None**
 Date: **12/19/2024** County: **Routt** Filename: **102**
 User: **RAR**

Agency or organization name: **DRMS****TILLING**

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$49.76
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92
Big Bluegrass - Sherman	0.10	2.07	\$1.59
Bitterbrush, Antelope	1.00	0.31	\$56.51
Aster, Engelman's	0.10	0.48	\$22.69
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.40
Rocky Mountain Fescue	0.10	1.61	\$1.08
Slender Wheatgrass - Native	1.00	3.65	\$7.06
Coneflower, Prairie	1.00	27.18	\$35.61
Streambank Wheatgrass - Sodar	0.50	1.63	\$4.15
Thickspike Wheatgrass - Critana	0.50	1.77	\$4.07
Western Wheatgrass - Native	1.00	2.53	\$9.01
Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
Sagebrush, Mountain or Big	0.25	13.20	\$20.67
Flax, Lewis Blue	0.50	3.32	\$21.15
Sagebrush, Wyoming Big	0.25	14.78	\$19.70
Snowberry, Mountain	0.50	0.86	\$29.53
Penstemon, Palmer	0.10	2.21	\$7.79

Penstemon, Rocky Mountain	0.25	3.92	\$15.35
Yarrow, White	0.10	6.36	\$7.34
Totals Seed Mix	11.35	98.42	\$346.74

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$236.64
Total Seed Application Cost/Acre	\$236.64

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:	15.2	Cost /Acre:	\$700.99
Estimated Failure Rate:	20%	Cost /Acre*:	\$700.99
*Selected Replanting Work Items:	TILLING, SEEDING		

Initial Job Cost:	\$10,655.05
Reseeding Job Cost:	\$2,131.01
Total Job Cost:	\$12,786
Job Hours:	7.10

REVEGETATION WORKTask description: **Reseed Drill Pads and Geotechnical Hole Locations**

Site: **Peabody Sage Creek** Permit Action: **Mine** **BondReview** Permit/Job#: **C2009087**

PROJECT IDENTIFICATION

Task #: **103** State: **Colorado** Abbreviation: **None**
 Date: **12/19/2024** County: **Routt** Filename: **103**
 User: **RAR**

Agency or organization name: **DRMS****TILLING**

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

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$49.76
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92
Big Bluegrass - Sherman	0.10	2.07	\$1.59
Bitterbrush, Antelope	1.00	0.31	\$56.51
Aster, Engleman's	0.10	0.48	\$22.69
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.40
Rocky Mountain Fescue	0.10	1.61	\$1.08
Slender Wheatgrass - Native	1.00	3.65	\$7.06
Coneflower, Prairie	1.00	27.18	\$35.61
Streambank Wheatgrass - Sodar	0.50	1.63	\$4.15
			\$
Totals Seed Mix			\$

JOB TIME AND COST

No. of Acres:	1.45	Cost /Acre:	\$700.99
Estimated Failure Rate:	20%	Cost /Acre*:	\$700.99

*Selected Replanting Work Items:	TILLING, SEEDING
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Initial Job Cost:	\$1,016.44
Reseeding Job Cost:	\$203.29
Total Job Cost:	\$1,220
<i>Job Hours:</i>	<i>3.00</i>

REVEGETATION WORKTask description: Seed Remaining BRB-2 and BRB-3 Area

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 104 State: Colorado Abbreviation: None
 Date: 12/19/2024 County: Routt Filename: 104
 User: RAR

Agency or organization name: DRMSSEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$49.76
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92
Big Bluegrass - Sherman	0.10	2.07	\$1.59
Bitterbrush, Antelope	1.00	0.31	\$56.51
Aster, Engleman's	0.10	0.48	\$22.69
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.40
Rocky Mountain Fescue	0.10	1.61	\$1.08
Slender Wheatgrass - Native	1.00	3.65	\$7.06
Coneflower, Prairie	1.00	27.18	\$35.61
Streambank Wheatgrass - Sodar	0.50	1.63	\$4.15
Thickspike Wheatgrass - Critana	0.50	1.77	\$4.07
Western Wheatgrass - Native	1.00	2.53	\$9.01
			\$
Totals Seed Mix			\$

JOB TIME AND COST

No. of Acres:	136.02	Cost /Acre:	\$583.38
Estimated Failure Rate:	0%	Cost /Acre*:	\$583.38
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost: \$79,351.35
 Reseeding Job Cost: \$0.00

Total Job Cost:	<div><div></div><div>\$79,351</div></div>
Job Hours:	<div><div></div><div>68.01</div></div>

REVEGETATION WORKTask description: **Seed Phase II Released BRB4**

Site: **Peabody Sage Creek** Permit Action: **Mine** BondReview **Permit/Job#: C2009087**

PROJECT IDENTIFICATION

Task #: 106 State: Colorado Abbreviation: None
 Date: 12/19/2024 County: Routt Filename: 106
 User: RAR

Agency or organization name: **DRMS****SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arrowleaf Balsamroot	0.50	0.62	\$49.76
Beardless Wheatgrass - Whitmar	0.50	1.63	\$6.92
Big Bluegrass - Sherman	0.10	2.07	\$1.59
Bitterbrush, Antelope	1.00	0.31	\$56.51
Aster, Engleman's	0.10	0.48	\$22.69
Mountain Brome - Bromar	1.00	1.61	\$6.02
Great Basin Wildrye - Magnar	1.00	4.06	\$11.69
Alfalfa - Ladak (inoculated)	0.10	0.48	\$0.40
Rocky Mountain Fescue	0.10	1.61	\$1.08
Slender Wheatgrass - Native	1.00	3.65	\$7.06
Coneflower, Prairie	1.00	27.18	\$35.61
Streambank Wheatgrass - Sodar	0.50	1.63	\$4.15
Thickspike Wheatgrass - Critana	0.50	1.77	\$4.07
Western Wheatgrass - Native	1.00	2.53	\$9.01
Needlegrass, Green - Lodorm	1.00	4.16	\$8.65
Sagebrush, Mountain or Big	0.25	13.20	\$20.67
Flax, Lewis Blue	0.50	3.32	\$21.15
Sagebrush, Wyoming Big	0.25	14.78	\$19.70
Snowberry, Mountain	0.50	0.86	\$29.53
			\$
Totals Seed Mix			\$

JOB TIME AND COST

No. of Acres:	462.4	Cost /Acre:	\$583.38
Estimated Failure Rate:	0%	Cost /Acre*:	\$583.38
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$269,754.91
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$269,755
Job Hours:	231.20

DEMOLITION WORKTask description: Demolish and Remove North Facilities and Materials

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 110 State: Colorado Abbreviation: None
 Date: 12/19/2024 County: Routt Filename: 110
 User: RAR

Agency or organization name: DRMSUNIT COSTS Location adjustment: 98.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Security Building	12'X40'X10'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	4,800.00	CF	\$0.24	\$1,168.32
Bathhouse	42'X40'X10'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	16,800.00	CF	\$0.24	\$4,089.12
Bathhouse Floor	42'X40'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 10,000 ft. haul	1,680.00	SF	\$0.77	\$1,295.28
Bathhouse Footers	84'X76'	Demo. and on-site disposal in existing pit, 1.5 ft. x 2 ft. - Max. 10,000 ft. haul	160.00	LF	\$6.94	\$1,110.27
Temporary Bathhouse	24'X70'X10'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	16,800.00	CF	\$0.24	\$4,089.12

Temporary Bathhouse Floor	24'X70'	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 10,000 ft. haul	1,680.00	SF	\$0.77	\$1,295.28
Diesel Tank Removal	20,000g	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	2.00	EA	\$1,050.00	\$2,100.00
Diesel Tank Sludge Removal	5% of 20,000g	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$259.50	\$259.50
Diesel Tank Dry Ice	20,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	300.00	LB	\$2.11	\$633.00
Unleaded Fuel Tank Removal	2,000g	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Unleaded Fuel Tank Sludge Removal	5% of 2,000g	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$259.50	\$259.50
Unleaded Fuel Tank Dry Ice	2,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	30.00	LB	\$2.11	\$63.30
Used Oil Tank Removal	2,000g(3)	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	3.00	EA	\$760.00	\$2,280.00
Used Oil Tank Sludge Removal	5% of 2,000g	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	3.00	EA	\$259.50	\$778.50
Unleaded Fuel Tank Dry Ice	2,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	90.00	LB	\$2.11	\$189.90
Mag Cholide Tank Removal	2,500g	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00

North Facilities Tank Pads	120 CY	Slab on grade, concrete, demolition only - Mesh reinforcing	120.00	CY	\$142.00	\$17,040.00
North Facilities Septic Tank	1,000G	Comprehensive storage tank removal, non-leaking - 3,000 to 5,000 gal. tank	1.00	EA	\$3,550.90	\$3,550.90
North Facilities Dosing Tank	1,000G	Comprehensive storage tank removal, non-leaking - 3,000 to 5,000 gal. tank	1.00	EA	\$3,550.90	\$3,550.90
Vehicle Maintenance Shop	140'X80'X20'	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	224,000.00	CF	\$0.33	\$73,606.40
Vehicle Maintenance Shop Floor	140'X80'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	11,200.00	SF	\$1.16	\$12,952.80
Parts Building	110'X70'X20'	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	154,000.00	CF	\$0.33	\$50,604.40
Parts Building Floor	110'X70'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	7,700.00	SF	\$1.16	\$8,905.05
Electrical Parts Building	30'X22'X10'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	6,600.00	CF	\$0.24	\$1,606.44
Electrical Parts Building Floor	30'X22'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	660.00	SF	\$1.16	\$763.29
Lean-To Building	100'X12'X10'	Bldg. (SN) demo./on-site disposal in	1,200.00	CF	\$0.24	\$292.08

		existing pit or cut - Max. 10,000 ft. haul				
Office Building	60'X50'X10'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	30,000.00	CF	\$0.24	\$7,302.00
Office Building Floor	60'X50'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	3,000.00	SF	\$1.16	\$3,469.50
Engineering Trailer	55'X10'X10'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	5,500.00	CF	\$0.24	\$1,338.70
Engineering Trailer Floor	55'X10'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	550.00	SF	\$1.16	\$636.08
Welding Shop	90'X56'X15'	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	75,600.00	CF	\$0.33	\$24,842.16
Welding Shop Floor	90'X56'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	5,040.00	SF	\$1.16	\$5,828.76
PM Shop	120'X42'X15'	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	75,600.00	CF	\$0.33	\$24,842.16
PM Shop Floor	120'X42'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	5,040.00	SF	\$1.16	\$5,828.76
Lube Storage Building	44'X18'X10'	Bldg. (SN) demo./on-site disposal in	7,920.00	CF	\$0.24	\$1,927.73

		existing pit or cut - Max. 10,000 ft. haul				
Lube Storage Building Floor	44'X18'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	792.00	SF	\$1.16	\$915.95
Wadge Pond 002 Pump Facility	20'X10'X8'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	1,600.00	CF	\$0.24	\$389.44
Wadge Pond 002 Pump Facility Pad	20'X10'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	200.00	SF	\$2.31	\$462.62
Wadge Pond 002 Pump Facility Precast Blocks	20'X20'	Wall, block, demolition only, 12 in. thick - No reinforcing	400.00	SF	\$1.33	\$532.00
Electrical Substation Pads	12'X30'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	360.00	SF	\$1.16	\$416.34
North Facilites Propane Tanks	1,000g (5)	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	5.00	EA	\$760.00	\$3,800.00
North Facilites Propane Tank Saddles	4'X8'X1'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	160.00	SF	\$4.52	\$723.28
Remove Fencing	20,000LF	Fencing, barbed wire, - 3 strand	20,000.00	LF	\$1.82	\$36,400.00
Remove Fencing	1100LF	Fencing, chain link, including posts and fabric - to 6 ft. high	1,100.00	LF	\$3.02	\$3,322.00
Remove Powerlines	5 Miles	Utility Poles, Wood 35' - 45' high (each pole)	26.00	EA	\$325.00	\$8,450.00
Culvert 52A	30"	Pipe, corrugated metal (CMP) - 30 in. diameter pipe	40.00	LF	\$13.98	\$559.19

Culvert SC-23	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	20.00	LF	\$10.60	\$211.90
Culvert 64A	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	40.00	LF	\$10.60	\$423.80
Culvert 53A	12"	Pipe, corrugated metal (CMP) - 12 in. diameter pipe	40.00	LF	\$5.91	\$236.34
Culvert 54A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$8.10	\$323.89
Culvert 55A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$8.10	\$323.89
Culvert 13A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	60.00	LF	\$8.10	\$485.83
Culvert 59A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$8.10	\$323.89
Culvert 9A	48"	Pipe, corrugated metal (CMP) - 48 in. diameter pipe	80.00	LF	\$24.52	\$1,961.81
Culvert 12A	30"	Pipe, corrugated metal (CMP) - 30 in. diameter pipe	60.00	LF	\$13.98	\$838.78
Culvert A8	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$8.10	\$323.89
Culvert 31A	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	60.00	LF	\$8.10	\$485.83
Pond 002 Valve Building (MR17)	20'X12'X10'	Bldg. (SN) demo./on-site disposal in excavated pit - Max. 10,000 ft. haul	2,400.00	CF	\$0.24	\$584.16
Pond 002 Valve Building floor (MR17)	20'X12'X6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	240.00	SF	\$1.16	\$277.56
Pond 002 Valve Building Foundation	8'X10"	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft. - Max. 10,000 ft. haul	64.00	LF	\$4.63	\$296.07

Job Hours:	<u>134.00</u>	Subtotal		Total Cost	
		(unadjusted):	<u>\$333,087.66</u>	(adjusted for	
				location):	<u>\$327,092.08</u>

DEMOLITION WORKTask description: Demolish and Remove South Facilities and Structures

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 111 State: Colorado Abbreviation: None
 Date: 3/25/2025 County: Routt Filename: 111
 User: RAR

Agency or organization name: DRMSUNIT COSTS Location adjustment: 98.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Million Gallon Water Tank	85'dX24'	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	133,600.00	CF	\$0.33	\$43,900.96
Million Gallon Water Tank Pad	85'dX1'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	5,682.00	SF	\$2.31	\$13,143.03
Million Gallon Water Tank Footer	85'd	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft. - Max. 10,000 ft. haul	85.00	LF	\$4.63	\$393.22
Remove 20,000g Diesel Tank	20,000	Haul tank to certified salvage dump - 9,000 to	1.00	EA	\$1,050.00	\$1,050.00

		12,000 gal. tank				
Remove 20,000g Diesel Tank Sludge	5% of 20,000g	Remove sludge, water, and rem. product from tank - 9,000 to 12,000 gal.	1.00	EA	\$432.00	\$432.00
Dry Ice for Inert Transport 20,000g Diesel Tank	20,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	300.00	LB	\$2.11	\$633.00
Remove 10,000g Diesel Tanks	10,000g(2)	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	2.00	EA	\$1,050.00	\$2,100.00
Remove 10,000g Diesel Tank Sludge	5% of 10,000g(2)	Remove sludge, water, and rem. product from tank - 9,000 to 12,000 gal.	2.00	EA	\$432.00	\$864.00
Dry Ice for Inert Transport 10,000g Diesel Tanks	10,000g(2)	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	300.00	LB	\$2.11	\$633.00
Remove 5,000g Diesel Tank	5,000g	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Remove 5,000g Diesel Tank Sludge	5% of 5,000	Remove sludge, water, and rem. product from tank -	1.00	EA	\$259.50	\$259.50

		3,000 to 5,000 gal.				
Dry Ice for Inert Transport 5,000g Diesel Tank	5,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	75.00	LB	\$2.11	\$158.25
Remove 2,000g Unleaded Fuel Tank	2,000g	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	1.00	EA	\$760.00	\$760.00
Remove 2,000g Unleaded Tank Sludge	5% of 2,000	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	1.00	EA	\$259.50	\$259.50
Dry Ice for Inert Transport 2,000g Unleaded Tank	2,000g	Insert dry ice (CO2) into tank to produce inert gas - 1.5 lbs./100 gal.	30.00	LB	\$2.11	\$63.30
Remove 2,000 Oil Tanks	2,000g (6)	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	6.00	EA	\$760.00	\$4,560.00
Remove 2,000g Oil Tank Sludge	5% of 2,000g(6)	Remove sludge, water, and rem. product from tank - 3,000 to 5,000 gal.	6.00	EA	\$259.50	\$1,557.00
Dry Ice for Inert Transport 2,000g Oil Tank	2,000g(6)	Insert dry ice (CO2) into tank to produce inert gas -	180.00	LB	\$2.11	\$379.80

		1.5 lbs./100 gal.				
Remove Mag Chloride Tanks	2,500g(2)	Haul tank to certified salvage dump - 3,000 to 5,000 gal. tank	2.00	EA	\$760.00	\$1,520.00
Remove Propane Tank	20,000g	Haul tank to certified salvage dump - 9,000 to 12,000 gal. tank	1.00	EA	\$1,050.00	\$1,050.00
Remove Propane Tank Saddles	8'X4'X1'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	64.00	SF	\$4.52	\$289.31
Fuel Storage and Oil Storage Tank Pads	120 CY	Slab on grade, concrete, demolition only - Mesh reinforcing	120.00	CY	\$142.00	\$17,040.00
Portal Entry Fan Housing	30'X30'	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 50 ft. push	18,000.00	CF	\$0.32	\$5,756.40
Pad Fan Housing	30'X30'X20'	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 50 ft. push	18,000.00	CF	\$0.32	\$5,756.40
Pad Fan Pad	31'X70'X2'	Demo. and on-site disposal in existing pit, 12 in. thick -	2,170.00	SF	\$2.27	\$4,916.14

		Max. 50 ft. push				
Pad Fan Footers	7'X7'X11'	Demo. and on-site disposal in excavated pit, 2.0 ft. x 3 ft. - Max. 50 ft. push	92.00	LF	\$14.21	\$1,307.26
Pad Fan Motor	10'X10'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 50 ft. push	1,000.00	CF	\$0.22	\$215.60
Electrical Substation Pad	160'X160'	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	25,600.00	SF	\$1.54	\$39,475.20
Electrical Substation Fencing	600 LF	Fencing, chain link, including posts and fabric - to 6 ft. high	600.00	LF	\$3.02	\$1,812.00
Utility Building	30'X40'X12'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	14,400.00	CF	\$0.24	\$3,504.96
Utility Building Floor	30'X40'	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	1,200.00	SF	\$1.54	\$1,850.40
Compressor Building	140'X40'X16'	Bldg. (MN) demo./on-site disposal in existing pit or cut -	89,600.00	CF	\$0.33	\$29,442.56

		Max. 10,000 ft. haul				
Compressor Building Floor	140'X40'	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	5,600.00	SF	\$1.54	\$8,635.20
Waste Handling and Recycle Area	250'X8'X6"	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	2,000.00	SF	\$3.34	\$6,677.80
Waste Handling and Recycle Area Pad	100'X150'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	15,000.00	SF	\$1.16	\$17,347.50
Waste Handling and Recycle Area Roof	50'X150'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	7,500.00	CF	\$0.24	\$1,825.50
Portal Conveyor	100LF	OBSOLETE -Conveyor, overland, including supports - 5 ft. W x 6 ft. H housing	100.00	LF	\$17.60	\$1,760.00
Transfer Conveyor	700LF	OBSOLETE -Conveyor, overland, including supports - 5 ft. W x 6 ft. H housing	700.00	LF	\$17.60	\$12,320.00
Radial Staker Conveyor	150LF	OBSOLETE -Conveyor, elevated, including supports - 5	150.00	LF	\$44.51	\$6,676.35

		ft. W x 6 ft. H housing				
Temporary Conveyor Supports	67 CY	Slab on grade, concrete, demolition only - No reinforcing	67.00	CY	\$104.00	\$6,968.00
Mine Portal Heaters (Bury in Pit)	2 Each	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 50 ft. push	10.00	CF	\$0.22	\$2.16
Rock Dust Tanks (2)	1131 SF	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	1,131.00	CF	\$0.33	\$371.65
Rock Dust Tank Pads (2)	22 CY	Slab on grade, concrete, demolition only - Rod reinforcing	22.00	CY	\$187.50	\$4,125.00
Electrical Metering Station	30'X30'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	900.00	CF	\$0.24	\$219.06
Electrical Metering Station Pad	30'X30'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 10,000 ft. haul	900.00	SF	\$1.16	\$1,040.85
Portal Pump Station (Buried in Pit)	36.5'X36'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 50 ft. push	10.00	CF	\$0.22	\$2.16

Covered Storage Building	150'X30'X20'	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	90,000.00	CF	\$0.33	\$29,574.00
Covered Storage Pylons	2'd	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft. - Max. 10,000 ft. haul	160.00	LF	\$4.63	\$740.18
Covered Storage Building	200'X30'X20'	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	120,000.00	CF	\$0.33	\$39,432.00
Covered Storage Pylons	2'D	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft. - Max. 10,000 ft. haul	180.00	LF	\$4.63	\$832.70
Covered Storage Buildings (2)	200'X50'X20'	Bldg. (MN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	400,000.00	CF	\$0.33	\$131,440.00
Covered Storage Pylons	2'D	Demo. and on-site disposal in existing pit, 1.0 ft. x 2 ft. - Max. 10,000 ft. haul	360.00	LF	\$4.63	\$1,665.40
South Facilities Powerlines	9100LF	Utility Poles, Wood 35' - 45' high (each pole)	10.00	EA	\$325.00	\$3,250.00

Powder Magazines (2)	16'X12'X10'(2)	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 10,000 ft. haul	3,840.00	CF	\$0.24	\$934.66
Powder Magazine Fence	450 LF	Fencing, chain link, including posts and fabric - 8 ft. to 10 ft. high	450.00	LF	\$3.53	\$1,588.50
Culvert 15A	54"(2)	Pipe, corrugated metal (CMP) - 60 in. diameter pipe	120.00	LF	\$33.06	\$3,967.51
Culvert SC-20	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	60.00	LF	\$10.60	\$635.71
Culvert SC-19	54"	Pipe, corrugated metal (CMP) - 60 in. diameter pipe	90.00	LF	\$33.06	\$2,975.63
Culvert SC-17	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	60.00	LF	\$16.96	\$1,017.62
Culvert SC-9 (Buried in Pit)	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	1.00	LF	\$16.96	\$16.96
Culvert SC-24 (Buried in Pit)	6"	Pipe, corrugated metal (CMP) - 8 in. diameter pipe	1.00	LF	\$4.51	\$4.51

Culvert SC-22	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	60.00	LF	\$16.96	\$1,017.62
Culvert SC-21	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	40.00	LF	\$10.60	\$423.80
Culvert SC-13	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$8.10	\$323.89
Culvert SC-18	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	20.00	LF	\$10.60	\$211.90
Culvert SC-25	8"	Pipe, corrugated metal (CMP) - 8 in. diameter pipe	10.00	LF	\$4.51	\$45.07
Culvert SC-16	48"	Pipe, corrugated metal (CMP) - 48 in. diameter pipe	100.00	LF	\$24.52	\$2,452.26
Culvert SC-10	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	240.00	LF	\$16.96	\$4,070.47
Culvert SC-15	36"	Pipe, corrugated metal (CMP) - 36 in. diameter pipe	60.00	LF	\$16.96	\$1,017.62

Culvert SC-11	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	80.00	LF	\$8.10	\$647.78
Culvert SC-12	18"	Pipe, corrugated metal (CMP) - 18 in. diameter pipe	40.00	LF	\$8.10	\$323.89
Culvert SC-14	48"(2)	Pipe, corrugated metal (CMP) - 48 in. diameter pipe	160.00	LF	\$24.52	\$3,923.62
Pumphouse Pad (MR20)	6'X'6X1'	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 10,000 ft. haul	36.00	SF	\$2.31	\$83.27
Pumphouse Building (MR20)	4'X4'X8'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 200 ft. push	128.00	CF	\$0.24	\$30.23
Remove Culvert SC-27	24"	Pipe, corrugated metal (CMP) - 24 in. diameter pipe	25.00	LF	\$10.60	\$264.88
Demolish and Remove Microwave Tower Foundation	8'x8'x8'	Demo. and on-site disposal in existing pit, 8 in. thick - Max. 10,000 ft. haul	64.00	SF	\$1.54	\$98.69
Demolish and Remove	10'x25'	Bldg. (SN) demo./on-site disposal in existing	250.00	CF	\$0.24	\$60.85

Microwave Tower		pit or cut - Max. 10,000 ft. haul				
Demo temporary tent MR32	30x50	Cat D8T - 8SU	0.50	EA	\$321.62	\$160.81

				Total Cost (adjusted for location):	
Job		Subtotal			
Hours:	<u>190.00</u>	(unadjusted):	<u>\$487,046.05</u>		<u>\$478,279.22</u>

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize/Demobilize Equipment from Hayden**

Site: **Peabody Sage Creek Mine** Permit Action: **BondReview** Permit/Job#: **C2009087**

PROJECT IDENTIFICATION

Task #: **120** State: **Colorado** Abbreviation: **None**
 Date: **3/25/2025** County: **Routt** Filename: **120**
 User: **RAR**

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:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D10T - 10SU	84.53	\$257.39	\$125.64	6	\$2,298.18	\$753.84	\$1,500.00
Cat 637G w/push-pull	59.59	\$281.32	\$125.64	4	\$1,627.84	\$502.56	\$1,000.00
CAT 972H	28.00	\$62.43	\$122.78	1	\$185.21	\$122.78	\$250.00
CAT 980H	33.12	\$69.00	\$122.78	2	\$383.56	\$245.56	\$500.00
Cat D9T - 9SU	60.01	\$253.16	\$125.64	2	\$757.60	\$251.28	\$500.00
Cat D8T - 8SU	47.71	\$173.32	\$122.78	1	\$296.10	\$122.78	\$250.00
Cat 772	36.80	\$116.97	\$122.78	1	\$239.75	\$122.78	\$250.00
SCHRAMM T450WS	35.00	\$281.20	\$122.78	1	\$403.98	\$122.78	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	1	\$100.46	\$59.44	\$250.00
Water Tanker, 10,000 Gal.	41.10	\$111.67	\$122.78	1	\$234.45	\$122.78	\$250.00
Cat 324D L 9'-8" Stick	27.33	\$281.20	\$122.78	1	\$403.98	\$122.78	\$250.00
Cat 770D	37.54	\$116.19	\$122.78	8	\$1,911.76	\$982.24	\$2,000.00
CAT 14M	23.57	\$129.81	\$59.44	2	\$378.50	\$118.88	\$500.00

Subtotals:

\$9,221.37	\$3,650.48	\$7,750.00
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ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 10-12 cy, 6x4	\$108.12	6	\$648.72	\$648.72
Flatbed Truck, 4x2, 15K GVW	\$42.24	1	\$42.24	\$42.24
Fuel Tanker, 6x4, 210 HP	\$53.90	1	\$53.90	\$53.90
Lube Truck, 6x4, 250 HP	\$53.90	1	\$53.90	\$53.90

Subtotals:

\$798.76	\$798.76
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EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>HAYDEN</u>	
Total one-way travel distance:	<u>10.00</u>	miles
Average Travel Speed:	<u>30.00</u>	mph
 Total Non-Roadable Mob/Demob Cost *	 \$42,523.97	
‘* two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	<u>\$532.51</u>	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.33</u>	<u>0.33</u>
Return Time (Hours):	<u>0.33</u>	<u>0.33</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.67</u>	<u>0.67</u>

JOB TIME AND COST

Total job time:	<u>3.33</u>	Hours
Total job cost:	<u>\$43,056</u>	

REVEGETATION WORKTask description: **Weed Management Over Liability Period**

Site: **Peabody Sage Creek** Permit Action: **Bond Review** Permit/Job#: **C2009087**
Mine

PROJECT IDENTIFICATION

Task #: **126** State: **Colorado** Abbreviation: **None**
 Date: **3/25/2025** County: **Routt** Filename: **126**
 User: **RAR**

Agency or organization name: **DRMS****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	150.00	ACRE	\$4.13	\$619.04
Total Mulch Materials Cost/Acre				\$619.04

Application

Description	Cost /Acre
Weed spray, hand, aquatic area, nox. [DMG]	\$199.01
Total Mulch Application Cost/Acre	\$199.01

JOB TIME AND COST

No. of Acres:	17.1	Cost /Acre:	\$818.05
Estimated Failure Rate:	0%	Cost /Acre*:	\$818.05
*Selected Replanting Work Items:	MULCHING		

Initial Job Cost: **\$13,988.66**
 Reseeding Job Cost: **\$0.00**
 Total Job Cost: **\$13,989**
 Job Hours: **0.00**

SITE MAINTENANCETask description: Water Monitoring During Liability Period

Peabody Sage Creek Permit Action:
 Site: Mine Bond Review Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 127 State: Colorado Abbreviation: None
 Date: 3/25/2025 County: Routt Filename: 127
 User: RAR

Agency or organization name: DRMSUNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
NPDES Site 003 - Sampling \$/Hr	0.25	USER PROVIDED ITEM	2.50	EA	\$48.60	\$121.50
NPDES Site 004 - Sampling \$/Hr	0.50	USER PROVIDED ITEM	5.00	EA	\$48.60	\$243.00
NPDES Site 002 - Sampling \$/Hr	0.25	USER PROVIDED ITEM	2.50	EA	\$48.60	\$121.50
GW Monitoring Wells (15)	2.00	USER PROVIDED ITEM	300.00	EA	\$57.40	\$17,220.00
Grassy Creek Upstream - Sampling \$/Hr	0.50	USER PROVIDED ITEM	5.00	EA	\$48.60	\$243.00
Grassy Creek Downstream - Sampling \$/Hr	0.50	USER PROVIDED ITEM	5.00	EA	\$48.60	\$243.00
Sampling Containers - 7 Sets	1.00	USER PROVIDED ITEM	7.00	EA	\$36.00	\$252.00
Lab Analysis - for 20 Sites/year	1.00	USER PROVIDED ITEM	200.00	EA	\$187.00	\$37,400.00

JobHours: 60.00Total Cost: \$55,844.00

TRUCK/LOADER TEAM WORKTask description: Clean Sediment from Upper and Lower Sumps

Site: Peabody Sage Creek Mine Permit Action: BondReview Permit/Job#: C2009087

PROJECT IDENTIFICATION

Task #: 128 State: Colorado Abbreviation: None
 Date: 3/25/2025 County: Routt Filename: 128
 User: RAR

Agency or organization name: DRMSHOURLY EQUIPMENT COST Shift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Generic 10-12 cy, 6x4
-Loader:	CAT 973D
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance –Motor Grader:	NA
-Water Truck:	NA

Cost Breakdown: Truck/Loader Team Support Equipment Maintenance Equipment

	Truck	Track Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	20	NA	NA	NA	NA
Ownership cost/hour:	\$22.44	\$120.46	NA	NA	NA	NA
Operating cost/hour:	\$60.44	\$17.59	NA	NA	NA	NA
%Utilization-riper:	NA	0	NA	NA	NA	NA
Ripper own. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Ripper op. cost/hour:	NA	\$0.00	NA	NA	NA	NA
Operator cost/hour:	\$0.00	\$36.85	NA	NA	NA	NA
Unit Subtotals:	\$82.88	\$174.90	NA	NA	NA	NA
Number of Units:	6	1	0	0	0	0
Group Subtotals:	Work: \$672.18	Support: \$0.00	Maint: \$0.00			

Total work team cost/hour: \$672.18

MATERIAL QUANTITIES

Initial volume: 5,485 CCY Swell factor: 1.090
 Loose volume: 5,979 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook
 Material Purchase Cost: \$0.00
 Total Cost: \$0.00

HOURLY PRODUCTION**Truck Capacity:****Truck Payload (weight) Basis:**

Material weight: 2,600 Pounds/LCY
 Description: Clay and gravel - Wet
 Rated Payload: 35,400 Pounds
 Payload Capacity: 13.62 LCY

Truck Bed (volume) Basis:

Struck Volume: 10.00 LCY
 Heaped Volume: 12.00 LCY
 Average Volume: 11.00 LCY
 Adjusted Volume: 12.00 LCY

Final Truck Volume Based on Number of Loader Passes: 9.22 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity: 4.190 LCY (heaped)
 Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100
 Adjusted Capacity: 4.609 LCY

Job Condition Corrections: Site Altitude (ft.): 6800 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time:

Number of Loading Tool Passes Required to Fill Truck: 2 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition

Rating: NA

Selected Value within this Basic Rating: NA

Track Loaders – Material Description: _____

Cycle Time Elements (min.):

Load: 0.050 Maneuver: 0.200 Dump: 0.055

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.305 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Inconsistent operation 0.04	0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
	Net Cycle Time Adjustment:	0.020	minutes
	Adjusted Loader Cycle Time:	0.325	minutes
	Net Load Time per Truck:	0.380	minutes

Truck Cycle Time:

Truck Exchange Time:	0.50	Minutes	Adjusted for site altitude:	0.500	Minutes
Truck Load Time:	0.380	Minutes	Adjusted for site altitude:	0.380	Minutes
Truck Maneuver and Dump Time:	0.90	Minutes	Adjusted for site altitude:	0.900	Minutes

Truck Travel (Haul & Return) Time: Road Condition: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	36960.00	0.00	3.00	3.00	2824	13.189

Haul Time: **13.189** minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	36960.00	0.00	3.00	3.00	2874	12.886

Return Time: **12.886** minutesTotal Truck Cycle Time: **27.855** minutes

Loading Tool unit

Production 628.50 LCY/Hour Adjusted for job efficiency: 521.66 LCY/Hour

Truck Unit

Production 19.86 LCY/Hour Adjusted for job efficiency: 16.48 LCY/Hour

Optimal No. of Trucks: _____

32

Truck(s)

Selected Number of Trucks:

6

Truck(s)

Adjusted hourly truck team production:

98.88

LCY/Hour

Adjusted single truck/loader team production:

98.88

LCY/Hour

Adjusted multiple truck/loader team production:

98.88

LCY/Hour

JOB TIME AND COSTFleet size: 1 Team(s) Total job time: **60.46** HoursUnit cost: \$6.798 /LCY Total job cost: **\$40,642**