

March 1, 2024

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



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

1313 Sherman Street, Room 215
Denver, CO 80203

RE: Haldorson Sand and Gravel Mine, Permit # M-2003-037, Reclamation Costs Update

Dear Operator:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed) for this site. Division calculations estimate the cost to reclaim the site to be \$497,822.00. This is an increase of \$191,092.00 over the \$306,730.00 currently held by the Division.

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

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Dustin Czapla".

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



COST SUMMARY WORK

Task description: 2024-02-14 Review

Site: Haldorson Sand and Gravel
Mine

Permit Action: 2024-02-14 Review

Permit/Job#: M2003037

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: None
Date: 2/14/2024 County: Montrose Filename: 000
User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demo concrete / asphalt plant pads / pylons	DEMOLISH	1	24.00	\$3,868
02a	Transport fill to establish 3H:1V pit slopes	SCRAPER1	1	78.74	\$218,627
02b	Final slope grading to 3H:1V	DOZER	2	12.35	\$11,074
03a	Spread overburden on pit floor	SCRAPER1	1	14.87	\$46,730
04a	Replace 8" topsoil over disturbed area	SCRAPER1	1	16.96	\$46,183
04b	Final grade topsoil	DOZER	2	11.01	\$9,869
05a	Revegetate slopes	REVEGE	1	22.50	\$28,631
06a	Establish crop on pit floor	REVEGE	1	30.00	\$35,076
07a	Mobilize equipment	MOBILIZE	1	2.57	\$12,703
<u>SUBTOTALS:</u>				213	\$412,761

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$8,338
Performance bond:	1.05	Total =	\$4,334
Job superintendent:	106.50	Total =	\$6,931
Profit:	10.00	Total =	\$41,276
		TOTAL O & P =	\$60,879
		CONTRACT AMOUNT (direct + O & P) =	\$473,640

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	\$500	Total =	\$500
Engineering work and/or contract/bid preparation:	0.00	Total =	\$0
Reclamation management and/or administration:	5.00		\$23,682

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$85,061

TOTAL BOND AMOUNT (direct + indirect) = \$497,822

DEMOLITION WORK

Task description: Demo concrete / asphalt plant pads / pylons

Haldorson Sand and Gravel
Site: Mine

Permit Action:
2024-02-14 Review

Permit/Job#: M2003037

PROJECT IDENTIFICATION

Task #: 01A
Date: 2/14/2024
User: DMC

State: Colorado
County: Montrose

Abbreviation: None
Filename: 01a

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 96.90 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
concrete pad	15 X 17	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 200 ft. push	255.00	SF	\$2.50	\$638.09
concrete pad	20 X 10	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 200 ft. push	200.00	SF	\$2.50	\$500.46
concrete pad	14 X 13	Demo. and on-site disposal in existing pit, 12 in. thick - Max. 200 ft. push	182.00	SF	\$2.50	\$455.42
concrete peers	6' X 30"	Pipe, reinforced concrete (RCP) - 30 in. diameter pipe	72.00	LF	\$14.94	\$1,075.56
concrete secondary containment	20' X 50'	Demo. and on-site disposal in excavated pit, 6 in. thick - Max. 50 ft. push	1,000.00	SF	\$1.32	\$1,321.90

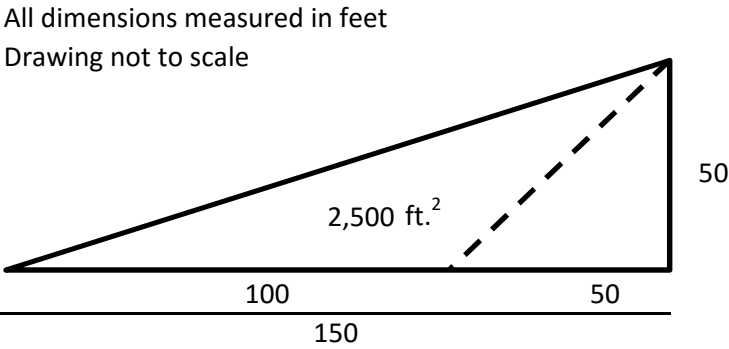
Job Hours: 24.00

Subtotal
(unadjusted): \$3,991.43

Total Cost
(adjusted for location): \$3,867.70

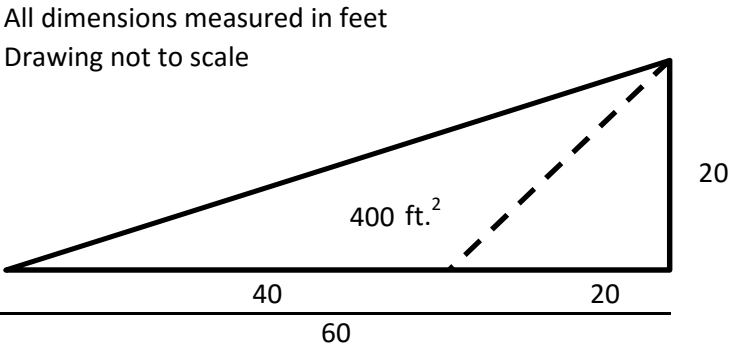
Highwall reduction - backfill

Highwall Height (ft.)	50.00
Length of Highwall (lft.)	1400.00
- - - - Initial Slope	1.00 H:1V
———— Desired Slope	3.00 H:1V
Volume of material to be moved (ft. ³)	3,500,000
Volume of material to be moved (yd. ³)	129,630



Highwall reduction - backfill

Highwall Height (ft.)	20.00	
Length of Highwall (lft.)	2800.00	
- - - - Initial Slope	1.00	H:1V
———— Desired Slope	3.00	H:1V
Volume of material to be moved (ft. ³)		
1,120,000		
Volume of material to be moved (yd. ³)		
41,481		



SCRAPER TEAM WORKTask description: Transport fill to establish 3H:1V pit slopesSite: Haldorson Sand and Gravel
MinePermit Action: 2024-02-14 ReviewPermit/Job#: M2003037**PROJECT IDENTIFICATION**Task #: 02A
Date: 2/14/2024
User: DMCState: Colorado
County: MontroseAbbreviation: None
Filename: 02aAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

Equipment Description	
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	NA
-Water Truck:	Water Tanker, 3,500 Gal.

Cost Breakdown:**Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	NA	NA	100	NA	100
Ownership cost/hour:	\$239.90	NA	NA	\$241.38	NA	\$16.65
Operating cost/hour:	\$303.13	NA	NA	\$143.92	NA	\$37.60
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$0.00	NA	\$0.00
Ripper op. cost/hour:	NA	NA	NA	\$0.00	NA	\$0.00
Operator cost/hour:	\$30.90	NA	NA	\$41.30	NA	\$0.00
Unit Subtotals:	\$573.93	NA	NA	\$426.60	NA	\$54.25
Number of Units:	4	0	0	1	0	1
Group Subtotals:	Work: \$2,295.72		Support: \$426.60		Maint:	\$54.25

Total work team cost/hour: \$2,776.57**MATERIAL QUANTITIES**Initial volume: 170,841 CCY Swell factor: 1.250
Loose volume: 213,551 LCYSource 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: 0.80 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 5800 feet

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

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

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	1867	0.39

Haul Time: 0.39 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	2795	0.34

Return Time: 0.34 minutesTotal Scraper team cycle time: 2.13 minutesAdjusted for job conditions: 678.03 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 2,712.11 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 2,712.11 LCY/HourUnadjusted unit production/hour: 816.90 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 78.74 HoursUnit cost: \$1.024 /LCYTotal job cost: \$218,627

BULLDOZER WORKTask description: **Final slope grading to 3H:1V**Site: **Haldorson Sand and Gravel**
Mine

Permit Action: 2024-02-14 Review

Permit/Job#: M2003037

PROJECT IDENTIFICATIONTask #: 02B
Date: 2/14/2024
User: DMCState: Colorado
County: MontroseAbbreviation: None
Filename: 02b

Agency or organization name: DRMS

HOURLY EQUIPMENT COSTBasic Machine: Cat D8T - 8SU
Horsepower: 310
Blade Type: Semi-Universal
Attachment: 3-shank ripper
Shift Basis: 1 per day
Data Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$14.11	NA
Ripper op. Cost/Hour:	\$7.45	100
Operator Cost/Hour:	\$41.30	NA
Total unit Cost/Hour:	\$448.16	
Total Fleet Cost/Hour:	\$896.32	

MATERIAL QUANTITIESInitial Volume: 8,147
Swell factor: 1.000
Loose volume: **8,147 LCY**Source of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 90 feet
Unadjusted hourly production: 918.4 LCY/hr

Materials consistency description: Loose stockpile 1.2

Average push gradient: 15 %
Average site altitude: 5,800 feet

Material weight: 2,550 lbs/LCY

Weight description: Earth - Dry packed

Job Condition Correction Factor

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

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

Net correction: 0.3590

Adjusted unit production: 329.71 LCY/hr

Adjusted fleet production: **659.42 LCY/hr**

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$1.359/LCY

Total job time: **12.35 Hours**

Total job cost: **\$11,074**

SCRAPER TEAM WORKTask description: **Spread overburden on pit floor**

Permit Action: 2024-02-14 Review

Haldorson Sand and GravelSite: **Mine**Permit/Job#: **M2003037****PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 2/14/2024County: MontroseFilename: 03aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 637G
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	Cat D8T - 8SU
Road Maintenance -Motor Grader:	CAT 16M
-Water Truck:	Water Tanker, 3,500 Gal.

Cost Breakdown:**Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
% Utilization-machine:	100	NA	NA	100	100	100
Ownership cost/hour:	\$239.90	NA	NA	\$241.38	\$212.21	\$16.65
Operating cost/hour:	\$303.13	NA	NA	\$143.92	\$124.88	\$37.60
% Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$0.00	\$0.00	\$0.00
Ripper op. cost/hour:	NA	NA	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$30.90	NA	NA	\$41.30	\$28.56	\$0.00
Unit Subtotals:	\$573.93	NA	NA	\$426.60	\$365.65	\$54.25
Number of Units:	4	0	0	1	1	1
Group Subtotals:	Work: \$2,295.72		Support: \$426.60		Maint: \$419.90	

Total work team cost/hour: **\$3,142.22****MATERIAL QUANTITIES**Initial volume: 32,267

CCY

Swell factor: 1.250Loose volume: **40,334**

LCY

Source of estimated volume: Approx. 20 acres currently x 12" depthSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 2,550 lbs/LCY
 Material description: Earth - Dry packed
 Rated Payload: 81,600 pounds

Struck Volume: 24.00 LCY
 Heaped Volume: 34.00 LCY
 Average Volume: 29.00 LCY

Payload Capacity: 32.00 LCYAdjusted Capacity: 29.00 LCYCycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 5800 feet

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

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

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	1867	0.39

Haul Time: 0.39 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	2795	0.34

Return Time: 0.34 minutesTotal Scraper team cycle time: 2.13 minutesAdjusted for job conditions: 678.03 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 2,712.11 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 2,712.11 LCY/HourUnadjusted unit production/hour: 816.90 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 14.87 HoursUnit cost: \$1.159 /LCYTotal job cost: \$46,730

SCRAPER TEAM WORKTask description: **Replace 8" topsoil over disturbed area**

Permit Action: 2024-02-14 Review

Haldorson Sand and GravelSite: **Mine**Permit/Job#: **M2003037****PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 2/14/2024County: MontroseFilename: 04aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

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

Cost Breakdown:**Scraper Work Team****Support Equipment****Maintenance Equipment**

	Scraper	Dozer	Load Area	Dump Area	Motor Grader	Water Truck
% Utilization-machine:	100	NA	NA	100	NA	NA
Ownership cost/hour:	\$239.90	NA	NA	\$241.38	NA	NA
Operating cost/hour:	\$303.13	NA	NA	\$143.92	NA	NA
% Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	\$0.00	NA	NA
Ripper op. cost/hour:	NA	NA	NA	\$0.00	NA	NA
Operator cost/hour:	\$30.90	NA	NA	\$41.30	NA	NA
Unit Subtotals:	\$573.93	NA	NA	\$426.60	NA	NA
Number of Units:	4	0	0	1	0	0
Group Subtotals:	Work: \$2,295.72		Support: \$426.60		Maint:	\$0.00

Total work team cost/hour: **\$2,722.32****MATERIAL QUANTITIES**Initial volume: 40,000

CCY

Swell factor: 1.000Loose volume: **40,000**

LCY

Source of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 1,600 lbs/LCY
 Material description: Top Soil
 Rated Payload: 81,600 pounds

Struck Volume: 24.00 LCY
 Heaped Volume: 34.00 LCY
 Average Volume: 29.00 LCY

Payload Capacity: 51.00 LCYAdjusted Capacity: 29.00 LCYCycle Time:Scraper Loading Time: 0.80 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 5800 feet

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

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

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	1867	0.36

Haul Time: 0.36 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	850.00	0.00	5.00	5.00	2795	0.46
2	650.00	0.00	5.00	5.00	2795	0.23

Return Time: 0.69 minutesTotal Scraper team cycle time: 2.45 minutesAdjusted for job conditions: 589.47 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 2,357.88 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 2,357.88 LCY/HourUnadjusted unit production/hour: 710.20 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 16.96 HoursUnit cost: \$1.155 /LCYTotal job cost: \$46,183

BULLDOZER WORKTask description: **Final grade topsoil**Site: **Haldorson Sand and Gravel**
Mine

Permit Action: 2024-02-14 Review

Permit/Job#: M2003037

PROJECT IDENTIFICATIONTask #: 04B
Date: 2/14/2024
User: DMCState: Colorado
County: MontroseAbbreviation: None
Filename: M037-04b

Agency or organization name: DRMS

HOURLY EQUIPMENT COSTBasic Machine: Cat D8T - 8SU
Horsepower: 310
Blade Type: Semi-Universal
Attachment: 3-shank ripper
Shift Basis: 1 per day
Data Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$14.11	NA
Ripper op. Cost/Hour:	\$7.45	100
Operator Cost/Hour:	\$41.30	NA
Total unit Cost/Hour:	\$448.16	
Total Fleet Cost/Hour:	\$896.32	

MATERIAL QUANTITIESInitial Volume: 16,133
Swell factor: 1.000
Loose volume: **16,133 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: Loose stockpile 1.2

Average push gradient: 0 %
Average site altitude: 5,800 feet

Material weight: 1,600 lbs/LCY

Weight description: Top Soil

Job Condition Correction Factor

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

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

Net correction: 0.8593

Adjusted unit production: 732.64 LCY/hr

Adjusted fleet production: **1465.28** LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.612/LCY

Total job time: **11.01** Hours

Total job cost: **\$9,869**

REVEGETATION WORKTask description: Revegetate slopesSite: Haldorson Sand and Gravel
MinePermit Action: 2024-02-14 ReviewPermit/Job#: M2003037**PROJECT IDENTIFICATION**Task #: 05A
Date: 2/14/2024
User: DMCState: Colorado
County: MontroseAbbreviation: None
Filename: 05aAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	200.00	pound	\$0.44	\$88.00
			Total Fertilizer Materials Cost/Acre	\$88.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$41.82
Total Fertilizer Application Cost/Acre	\$41.82

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.00	9.71	\$33.38
Bottlebrush Squirreltail	0.50	2.20	\$8.11
Galleta	3.00	10.95	\$67.05
Rabbitbrush, Rubber	0.50	7.45	\$32.15
Saltbush, Four Wing	0.50	0.69	\$6.25
Saltbush, Shadscale	0.50	0.75	\$5.00
Winter Fat	0.50	1.27	\$10.25
Totals Seed Mix	8.50	33.02	\$162.19

Application

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

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$35.09	\$35.09
Straw, delivered {MEANS 31 25 14.16 1200}	1.50	TON	\$429.79	\$644.68
Total Mulch Materials Cost/Acre				\$679.77

Application

Description	Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$210.39

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 Cost /Acre: \$1,526.99
 Estimated Failure Rate: 25% Cost /Acre*: \$1,526.99
 *Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU
LCHING

Initial Job Cost: \$22,904.85
 Reseeding Job Cost: \$5,726.21
 Total Job Cost: \$28,631
 Job Hours: 22.50

REVEGETATION WORKTask description: Establish crop on pit floorSite: Haldorson Sand and Gravel
MinePermit Action: 2024-02-14 ReviewPermit/Job#: M2003037**PROJECT IDENTIFICATION**Task #: 06A
Date: 2/14/2024
User: DMCState: Colorado
County: MontroseAbbreviation: None
Filename: 06aAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
6-24-24, 10-20-10, 15-15-15	200.00	pound	\$0.44	\$88.00
			Total Fertilizer Materials Cost/Acre	\$88.00

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$41.82
Total Fertilizer Application Cost/Acre	\$41.82

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
Total Tilling Cost/Acre	\$112.82

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alfalfa - Ranger (inoculated)	15.00	72.31	\$38.25
Totals Seed Mix	15.00	72.31	\$38.25

Application

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

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	1.50	TON	\$429.79	\$644.68
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$35.09	\$35.09
Total Mulch Materials Cost/Acre				\$679.77

Application

Description	Cost /Acre
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$210.39

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: 20 Cost /Acre: \$1,403.05
 Estimated Failure Rate: 25% Cost /Acre*: \$1,403.05
 *Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU
LCHING

Initial Job Cost: **\$28,061.00**
 Reseeding Job Cost: **\$7,015.25**
 Total Job Cost: **\$35,076**
 Job Hours: **30.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilize equipment**Site: **Haldorson Sand and Gravel**
MinePermit Action: 2024-02-14 ReviewPermit/Job#: M2003037**PROJECT IDENTIFICATION**

Task #: 07A State: Colorado Abbreviation: None
 Date: 2/14/2024 County: Montrose Filename: 07a
 User: DMC

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

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

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

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

NON ROADABLE EQUIPMENT:

Machine Description	Weight/ Unit (TONS)	Owner ship Cost/hr/ unit	Haul Rig Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cat D8T - 8SU	47.71	\$241.38	\$158.17	2	\$799.10	\$316.34	\$500.00
CAT 16M	28.73	\$212.21	\$158.17	1	\$370.38	\$158.17	\$250.00
Cat 637G	57.28	\$239.90	\$175.95	4	\$1,663.40	\$703.80	\$1,000.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$250.00
Cat 320D L 9'-6" Stick	23.70	\$70.85	\$82.29	1	\$153.14	\$82.29	\$250.00

Subtotals: **\$3,183.27** **\$1,425.18** **\$2,500.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 3,500 Gal.	\$54.25	1	\$54.25	\$54.25
Light Duty Pickup, 4x4, 3/4 T.	\$15.83	1	\$15.83	\$15.83

Subtotals: **\$70.08** **\$70.08**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: MONTROSE
 Total one-way travel distance: 5.00 miles
 Average Travel Speed: 35.00 mph

Total Non-Roadable Mob/Demob Cost * \$12,683.24
 ** two round trips with haul rig:
 Total Roadable Mob/Demob Cost ** \$20.02
 ** one round trip, no haul rig:

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.14	0.14
Return Time (Hours):	0.14	0.14
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.29	0.29

JOB TIME AND COST

Total job time: 2.57 Hours

Total job cost: \$12,703