

January 26, 2024

J Pat and Lila Greer
Greer Pit
8097 CR 100
Hesperus, CO 81326



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

1313 Sherman Street, Room 215
Denver, CO 80203

RE: Greer Pit, Permit # M-1985-115, 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 \$15,812.00. This is an increase of \$3,091.00 over the \$12,712.00 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: 2024-01-17 Update

Site: Greer Pit

Permit Action: 2024-01-17 Update

Permit/Job#: M1985115

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 1/17/2024

County: La Plata

Filename: M1985115000

User: DMC

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Backfill highwall	DOZER	1	14.36	\$6,125
03a	Place topsoil on slopes	DOZER	1	0.90	\$383
04a	Revegetate 2 acres	REVEGE	1	6.00	\$3,870
05a	Mobilize/Demobilize	MOBILIZE	1	3.81	\$2,044
<u>SUBTOTALS:</u>				25.07	\$12,422

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 15.57
Profit: 10.00

Total = \$251

Total = \$130

Total = \$1,013

Total = \$1,242

TOTAL O & P = \$2,637

CONTRACT AMOUNT (direct + O & P) = \$15,059

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$753

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$3,390

TOTAL BOND AMOUNT (direct + indirect) = \$15,812

BULLDOZER WORKTask description: **Backfill highwall**Site: **Greer Pit** Permit Action: **2024-01-17 Update** Permit/Job#: **M1985115****PROJECT IDENTIFICATION**

Task #:	01A	State:	Colorado	Abbreviation:	None
Date:	1/17/2024	County:	La Plata	Filename:	M115-01a
User:	DMC				

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

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

Cost Breakdown:

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

Total unit Cost/Hour:	\$426.60
Total Fleet Cost/Hour:	\$426.60

MATERIAL QUANTITIES

Initial Volume:	5,556
Swell factor:	1.000
Loose volume:	5,556 LCY

Source of estimated volume:	500 LN FT Highwall, AVG 20 ft. Tall
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:	6,600 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:	0.750 (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:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4539

Adjusted unit production: 387.00 LCY/hr

Adjusted fleet production: **387** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.102/LCY

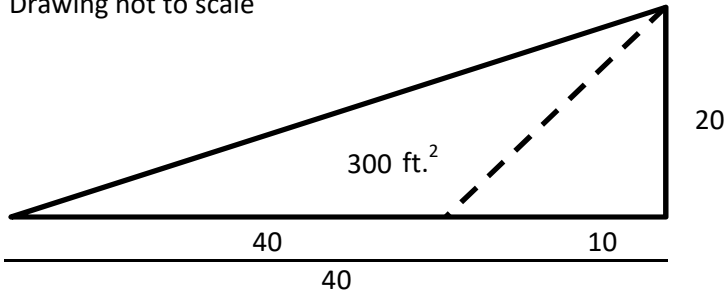
Total job time: **14.36** Hours

Total job cost: **\$6,125**

Highwall reduction - backfill

Highwall Height (ft.)	20.00	
Length of Highwall (lft.)	500.00	
- - - Initial Slope	0.50	H:1V
— Desired Slope	2.00	H:1V
Volume of material to be moved (ft. ³)	150,000	
Volume of material to be moved (yd. ³)	5,556	

All dimensions measured in feet
Drawing not to scale



BULLDOZER WORKTask description: Place topsoil on slopesSite: Greer PitPermit Action: 2024-01-17 UpdatePermit/Job#: M1985115**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 1/17/2024County: La PlataFilename: M115-03aUser: DMCAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D8T - 8SUHorsepower: 310Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

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

Total unit Cost/Hour: \$426.60Total Fleet Cost/Hour: **\$426.60****MATERIAL QUANTITIES**Initial Volume: 807Swell factor: 1.000Loose volume: **807 LCY**Source of estimated volume: 1.0 acre, 6 in deepSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 100 feetUnadjusted hourly production: 852.6 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: -5 %Average site altitude: 6,600 feetMaterial weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	1.000	(EXCL.)
Material consistency:	1.200	(CAT HB)
Dozing method:	1.100	(50% SL)
Visibility:	1.000	(AVG.)

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 1.0540

Adjusted unit production: 898.64 LCY/hr

Adjusted fleet production: **898.64** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.475/LCY

Total job time: **0.90** Hours

Total job cost: **\$383**

REVEGETATION WORKTask description: Revegetate 2 acresSite: Greer PitPermit Action: 2024-01-17 UpdatePermit/Job#: M1985115**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 1/17/2024County: La PlataFilename: M115-04aUser: DMCAgency or organization name: DRMS**FERTILIZING****Materials**

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

Application

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

TILLING

Description	Cost /Acre
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
Russian Wildrye - Vinal	2.00	8.03	\$12.36
Pubescent Wheatgrass - Luna	2.00	4.13	\$6.80
Streambank Wheatgrass - Sodar	2.20	7.17	\$12.54
Western Wheatgrass - Arriba	3.20	8.08	\$20.80
Totals Seed Mix	9.40	27.42	\$52.50

Application

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

MULCHING and MISCELLANEOUS**Materials**

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

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$74.46
Power mulcher (MEANS 32 91 13.16 0350)	\$147.67
Weed spray, hand, non-aquatic area, nox. [DMG]	\$183.16
Total Mulch Application Cost/Acre	\$405.29

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 2 Cost /Acre: \$1,697.40
 Estimated Failure Rate: 15% Cost /Acre*: \$1,584.58
 *Selected Replanting Work Items: SEEDING,MULCHING

Initial Job Cost: **\$3,394.80**
 Reseeding Job Cost: **\$475.37**
 Total Job Cost: **\$3,870**
 Job Hours: **6.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Mobilize/DemobilizeSite: Greer PitPermit Action: 2024-01-17 UpdatePermit/Job#: M1985115**PROJECT IDENTIFICATION**

Task #: 05A State: Colorado Abbreviation: None
 Date: 1/17/2024 County: La Plata Filename: M115-05a
 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	1	\$399.55	\$158.17	\$0.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$0.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$0.00

Subtotals: **\$596.80** **\$322.75** **\$0.00**

ROADABLE EQUIPMENT:

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

Subtotals: **\$15.83** **\$15.83**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>DURANGO</u>	
Total one-way travel distance:	<u>25.00</u>	miles
Average Travel Speed:	<u>55.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$2,029.55</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$14.39</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.45</u>	<u>0.45</u>
Return Time (Hours):	<u>0.45</u>	<u>0.45</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.91</u>	<u>0.91</u>

JOB TIME AND COST

Total job time:	<u>3.82</u>	Hours
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Total job cost:	<u>\$2,044</u>
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