



MINERALS PROGRAM INSPECTION REPORT
PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME: Greeley 35th Ave Pit	MINE/PROSPECTING ID#: M-1977-036	MINERAL: Sand and gravel	COUNTY: Weld
INSPECTION TYPE: Monitoring	WEATHER: Clear	INSP. DATE: November 1, 2023	INSP. TIME: 11:30
OPERATOR: Martin Marietta Materials, Inc.	OPERATOR REPRESENTATIVE: Julie Mikulas	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$7,764,000.00	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
INSPECTOR(S): Hunter Ridley	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: November 8, 2023	

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS----- <u>N</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>N</u>
(PW) PROCESSING WASTE/TAILING---- <u>N</u>	(SF) PROCESSING FACILITIES----- <u>N</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>Y</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>N</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>N</u>	

Y = Inspected / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

The Greeley 35th Ave site, Permit No. M-1977-036, was inspected by Hunter Ridley with the Division of Reclamation, Mining and Safety (Division) as part of the Division's monitoring inspection program. Julie Mikulas with Martin Marietta Materials, Inc. was present for the inspection. The Greeley 35th Ave site is located approximately 4 miles northwest of Greeley, CO and is accessed via N 35th Ave. The site is a 112c operation permitted for 381.38 acres with a post-mining land use of recreation and developed water resources.

Boundary markers were observed as required by Rule 3.1.12. A mine identification sign was posted at the site entrance (Photo 1). The sign met all requirements of Rule 3.1.12 except section 3.1.12(1) which specifies a required sign size of 11 x 17. The Operator stated that when the current sign is damaged, the new replacement sign will comply with this sizing rule. The site was being actively mined at the time of inspection. Mining and excavation were occurring in the middle of the site, with product stockpiles being stored in various piles around the floor of the mining area. Unlike the West Pit, the Operator stated that they will likely not submit an amendment to convert this middle area to a slurry wall lined pit. Topsoil and overburden have been stripped from the active mining area and placed in adjacent pit areas to create final reclamation slopes. An asphalt plant and concrete import facilities are located in the southwest corner of the site (Photo 3). A large sedimentation pond is located on the southern half of the pit, near the active mining area (Photos 4 and 5). The exposed slopes of the pond are vegetated with volunteer weeds.

Mining in the East Pit cell was completed pre-1981, therefore an augmentation or substitute water supply plan for any out-of-priority water depletions is not required for this area of the permit. The East Pit is currently in final reclamation (Photo 2). All other water depletions are covered under the site's Substitute Water Supply Plan, the most updated of which was submitted to the Division on March 21, 2023 and covers the site through March 31, 2024.

The West Pit is still in final reclamation. The slurry wall around the West Pit was certified by the Division of Water Resources on December 1, 2015. Should the Operator wish to request a reduction of the bond to reflect the completion and certification of the slurry wall in this area, a Surety Reduction request will need to be submitted to the Division. The application for this type of revision can be found on the Division's website at <https://drms.colorado.gov/forms/minerals-program-forms>. The pit slopes remain at the approved 3H:1V slopes and the areas above the anticipated high water level remain vegetated. However some large patches of vegetation on the slopes consisted of annual weed species such as Kochia and Russian thistle. The reservoir is filled with free water from the Cache La Poudre River (Photo 6).

An oil and gas well pad is located along the southern end of the West Pit. The Operator noted that these facilities are due to be removed from the site soon. A technical revision will need to be submitted to the Division to update this change on Mining and Reclamation Plan Maps once removal is complete. No erosion features were noted in this area. Two groundwater monitoring wells, MW-35TH AVE 7 and MW-35TH AVE 8, have been recently replaced at the site after damage due to excavation activities. The two replaced wells are located in the southwest portion of the permit (Photo 7), near their original locations. The other four monitoring wells are located around the West Pit reservoir. Monitoring reports for these wells are to be included with the site's Annual Reports.

The Division currently holds a financial warranty amount of \$7,764,000.00 for this site. The bond was last assessed post inspection in 2019. In an effort to ensure the Financial Warranty adequately reflects the actual current cost of fulfilling the requirements of the approved reclamation plan, the Division has updated the reclamation cost estimate. The Division has found the current bond to be **inadequate** for reclamation of the site. The updated required bond amount is \$8,409,301.00. This is an **increase of \$645,301.00**. A copy of staff

calculations has been attached with this report. A notice of surety increase will be sent under separate cover.

Photographs taken during the inspection have been included below. Responses to this inspection report should be directed to: Hunter Ridley at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 720-868-7757 or via email at hunter.ridley@state.co.us.

PHOTOGRAPHS



Photo 1: Mine sign posted at the site entrance.



Photo 2: View north of the East pit which is in final reclamation.



Photo 3: View west of the asphalt plant and concrete importation facilities located to the southeast of the affected pit area.



Photo 4: View northeast of the large sedimentation pond located in the middle of the site.



Photo 5: View north of the sedimentation pond onsite.



Photo 6: View north of the lined west pit area, in final reclamation.



Photo 7: One of two monitoring wells replaced on the eastern side of the permit.

Inspection Contact Address

Julie Mikulas
Martin Marietta Materials, Inc.
1800 N. Taft Hill Road
Fort Collins, CO 80521

COST SUMMARY WORK

Task description: Updated post inspection in 2023

Site: Greeley 35th Ave Pit

Permit Action: Insp 2023

Permit/Job#: M1977036

PROJECT IDENTIFICATION

Task #: HCR

State: Colorado

Abbreviation: None

Date: 10/19/2023

County: Weld

Filename: M036-HCR

User: HR1

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
201	Final Slope Grading - Non West Cell - 153 Acres	DOZER	1	1,534.08	\$679,861
202	Import Topsoil	SITEMAINT ENANCE	1	0.00	\$511,200
203	Topsoil Placement - Non West Cell - 153 Acres	LOADER	2	1,555.74	\$356,982
204	Topsoil Final Grading - Non West Cell - 153 Acres	DOZER	1	109.49	\$48,117
205	Conveyor Removal - Non West Cell	DEMOLISH	1	80.00	\$71,669
206	Revegetation - 90.5 Acres - Upland	REVEGE	1	40.00	\$118,814
207	Revegetate - Transition Zone - 60.5 Acres	REVEGE	1	20.00	\$85,306
208	Mob/Demob	MOBILIZE	1	3.14	\$3,361
209	West Cell Slurry Wall Construction	SITEMAINT ENANCE	1	0.00	\$2,591,735
210	Install Slurry Wall - Non West Cell for SEO compliance	SITEMAINT ENANCE	1	0.00	\$2,244,318
<u>SUBTOTALS:</u>				3342.45	\$6,711,363

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$135,570

Performance bond: 1.05

Total = \$70,469

Job superintendent: 1,671.22

Total = \$108,763

Profit: 10.00

Total = \$671,136

TOTAL O & P = \$985,938

CONTRACT AMOUNT (direct + O & P) = \$7,697,301

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$0

Engineering work and/or contract/bid preparation: 4.25

Total = \$327,135

Reclamation management and/or administration: 5.00

\$384,865

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$1,697,938

TOTAL BOND AMOUNT (direct + indirect) = \$8,409,301

BULLDOZER WORKTask description: **Final Slope Grading - Non West Cell - 153 Acres**Site: **Greeley 35th Ave Pit**Permit Action: **Insp 2023**Permit/Job#: **M1977036****PROJECT IDENTIFICATION**

Task #:	201	State:	Colorado	Abbreviation:	None
Date:	11/6/2023	County:	Weld	Filename:	201
	2:03:22 PM				
User:	HR1				

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

Basic Machine:	Cat D8T - 8SU
Horsepower:	310
Blade Type:	Semi-Universal
Attachment:	3-shank ripper
Shift Basis:	1 per day
Data Source:	(CRG)

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$241.38	NA
Operating Cost/Hour:	\$143.92	100
Ripper own. Cost/Hour:	\$14.11	NA
Ripper op. Cost/Hour:	\$3.73	50
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour:	\$443.17
Total Fleet Cost/Hour:	\$443.17

MATERIAL QUANTITIES

Initial Volume:	550,000
Swell factor:	1.000
Loose volume:	550,000 LCY

Source of estimated volume:	AM-02 Application
Source of estimated swell factor:	Cat Handbook

HOURLY PRODUCTION

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

Materials consistency description: **Consolidated stockpile 1.0**

Average push gradient:	-5 %
Average site altitude:	4,670 feet

Material weight: **4,050 lbs/LCY**Weight description: **Sand and clay - Compacted****Job Condition Correction Factor**

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

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.115	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.568	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4205

Adjusted unit production: 358.52 LCY/hr

Adjusted fleet production: **358.52** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.236/LCY

Total job time: **1,534.08** Hours

Total job cost: **\$679,861**

SITE MAINTENANCE

Task description: **Import Topsoil**

Site: **Greeley 35th Ave Pit**

Permit Action: Insp 2023

Permit/Job#: M1977036

PROJECT IDENTIFICATION

Task #: 202

State: Colorado

Abbreviation: None

Date: 11/6/2023 2:09:50

County: Weld

Filename: 202

PM

User: HR1

Agency or organization name: DRMS

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Import 51,120 CY Topsoil	40.00	USER PROVIDED ITEM	51,120.00	0	\$10.00	\$511,200.00

Job Hours: **0.00**

Total Cost: **\$511,200.00**

WHEEL LOADER – LOAD AND CARRY WORKTask description: Topsoil Placement - Non West Cell - 153 AcresSite: Greeley 35th Ave PitPermit Action: Insp 2023Permit/Job#: M1977036**PROJECT IDENTIFICATION**

Task #: 203 State: Colorado Abbreviation: None
 Date: 11/6/2023 County: Weld Filename: 203
 2:06:25 PM
 User: HR1

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

Basic Machine: CAT 938H
 Attachment 1: ROPS Cab

Horsepower: 172
 Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$43.90	NA
Operating Cost/Hour:	\$34.86	100
Operator Cost/Hour:	\$35.97	NA
Total Unit Cost/Hour:	\$114.73	
Total Fleet Cost/Hour:	\$229.46	

MATERIAL QUANTITIES

Initial volume: 185,130 CCY Swell factor: 1.000
 Loose volume: 185,130 LCY

Source of estimated volume: AM-02 ApplicationSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.483 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Mixed material 0.02	0.020	(Cat HB)
Stockpile:	Dumped by truck 0.02	0.020	(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:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.040	minutes
Adjusted Basic Cycle Time:		0.443	minutes

Rolling Resistance – Road ConditionsHaul: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Return: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0**Haul and Return Time**

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	1800	0.00	3.00	3.00	1.4131	(Cat HB)
Return Route:	1800	0.00	3.00	3.00	1.3271	(Cat HB)

Total Travel Time: 2.7402 minutes
 Total Cycle Time: 3.1827 minutes

Load Bucket Capacity

Rated Capacity: 3.90 LCY (heaped)
 Bucket Fill Factor: 0.975 Loose material - mixed moist aggregates (95-100%) 0.975
 Adjusted Capacity: 3.80 LCY

Job Condition Correction Factors

Site Altitude: 4670 feet

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

Unadjusted Hourly Unit Production: 71.69 LCY/Hour
 Adjusted Hourly Unit Production: 59.50 LCY/Hour
 Adjusted Hourly Fleet Production: 119.00 LCY/Hour

JOB TIME AND COST

Fleet size:	<u>2</u>	Loader(s)	Total job time:	<u>1,555.75</u>	Hours
Unit cost:	<u>\$1.928</u>	/LCY	Total job cost:	<u>\$356,982</u>	

BULLDOZER WORKTask description: Topsoil Final Grading - Non West Cell - 153 AcresSite: Greeley 35th Ave PitPermit Action: Insp 2023Permit/Job#: M1977036**PROJECT IDENTIFICATION**

Task #:	<u>204</u>	State:	<u>Colorado</u>	Abbreviation:	<u>None</u>
Date:	<u>11/6/2023</u>	County:	<u>Weld</u>	Filename:	<u>204</u>
	<u>2:04:36 PM</u>				
User:	<u>HR1</u>				

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

Basic Machine:	<u>Cat D8T - 8SU</u>
Horsepower:	<u>310</u>
Blade Type:	<u>Semi-Universal</u>
Attachment:	<u>3-shank ripper</u>
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$241.38</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$143.92</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$14.11</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$40.04</u>	<u>NA</u>

Total unit Cost/Hour:	<u>\$439.45</u>
Total Fleet Cost/Hour:	<u>\$439.45</u>

MATERIAL QUANTITIES

Initial Volume:	<u>185,130</u>
Swell factor:	<u>1.000</u>
Loose volume:	<u>185,130 LCY</u>

Source of estimated volume:	<u>Division of Reclamation, Mining & Safety</u>
Source of estimated swell factor:	<u>Cat Handbook</u>

HOURLY PRODUCTION

Average push distance:	<u>55 feet</u>
Unadjusted hourly production:	<u>1,323.4 LCY/hr</u>

Materials consistency description: Loose stockpile 1.2

Average push gradient:	<u>-5 %</u>
Average site altitude:	<u>4,670 feet</u>

Material weight: 1,600 lbs/LCYWeight description: Top Soil**Job Condition Correction Factor**

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

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

Net correction: 1.2776

Adjusted unit production: 1,690.78 LCY/hr

Adjusted fleet production: **1690.78** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.260/LCY

Total job time: **109.49** Hours

Total job cost: **\$48,117**

DEMOLITION WORK

Task description: Conveyor Removal - Non West Cell

Site: Greeley 35th Ave Pit

Permit Action: Insp 2023

Permit/Job#: M1977036

PROJECT IDENTIFICATION

Task #: 205

State: Colorado

Abbreviation: None

Date: 11/6/2023 2:02:46

County: Weld

Filename: 205

PM

User: HR1

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 94.70 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Conveyor Removal	4,300 feet	OBSOLETE-Conveyor, overland, including supports - 5 ft. W x 6 ft. H housing	4,300.00	LF	\$17.60	\$75,680.00

Job Hours: 80.00

Subtotal
(unadjusted): \$75,680.00

Total Cost
(adjusted for location): \$71,668.96

REVEGETATION WORKTask description: **Revegetation - 90.5 Acres - Upland**Site: **Greeley 35th Ave Pit**Permit Action: Insp 2023Permit/Job#: M1977036**PROJECT IDENTIFICATION**Task #: 206State: ColoradoAbbreviation: NoneDate: 11/6/2023County: WeldFilename: 2062:08:07 PMUser: HR1Agency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
0-20-20, 4-8-12, 10-10-10	40.00	pound	\$0.62	\$24.80
			Total Fertilizer Materials Cost/Acre	\$24.80

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
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$451.62

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.10	3.90	\$2.85
Switchgrass - Pathfinder	0.67	5.98	\$8.54
Sand Dropseed	0.48	57.30	\$4.68
Mountain Brome - Bromar	1.74	2.80	\$6.61
Sideoats Grama - Butte	1.80	5.91	\$16.20
Western Wheatgrass - Arriba	1.74	4.39	\$11.31
Sweetvetch, Utah or Northern	1.02	0.46	\$76.50
Needle and Thread	1.29	3.41	\$53.99
Rose, Meadow	0.87	0.74	\$21.75

Globemallow, Scarlet (or copper)	0.25	2.83	\$33.88
Penstemon, Rocky Mountain	0.46	7.21	\$13.57
Totals Seed Mix	10.42	94.93	\$249.87

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
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
Total Mulch Application Cost/Acre	\$62.72

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:	90.5	Cost /Acre:	\$1,062.83
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,000.11
*Selected Replanting Work Items:	FERTILIZING,TILLING,SEEDING		
Initial Job Cost:	\$96,186.12		
Reseeding Job Cost:	\$22,627.49		
Total Job Cost:	\$118,814		
Job Hours:	40.00		

REVEGETATION WORKTask description: Revegetate - Transition Zone - 60.5 AcresSite: Greeley 35th Ave PitPermit Action: Insp 2023Permit/Job#: M1977036**PROJECT IDENTIFICATION**Task #: 207State: ColoradoAbbreviation: NoneDate: 11/6/2023County: WeldFilename: 2072:08:49 PMUser: HR1Agency 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
Weed control spraying (MEANS 31 31 16.13 3100)	\$338.80
Total Tilling Cost/Acre	\$338.80

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Switchgrass - Pathfinder	0.78	6.97	\$9.95
Sand Dropseed	0.03	3.58	\$0.29
Canada Wildrye	2.47	6.52	\$26.77
Sideoats Grama - Butte	1.24	4.07	\$11.16
Great Basin Wildrye - Magnar	1.34	5.44	\$15.48
Western Wheatgrass - Arriba	1.45	3.66	\$9.43
Vetch, American	5.81	2.63	\$580.56
Globemallow, Scarlet (or copper)	0.05	0.59	\$7.05

Totals Seed Mix	13.17	33.46	\$660.68
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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
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

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

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:	60.5	Cost /Acre:	\$1,231.48
Estimated Failure Rate:	20%	Cost /Acre*:	\$892.68
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$74,504.54
Reseeding Job Cost:	\$10,801.43
Total Job Cost:	\$85,306
Job Hours:	20.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob/Demob**Site: **Greeley 35th Ave Pit**Permit Action: **Insp 2023**Permit/Job#: **M1977036****PROJECT IDENTIFICATION**

Task #: 208 State: Colorado Abbreviation: None
 Date: 11/6/2023 County: Weld Filename: 208
 2:07:09 PM
 User: HR1

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

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

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

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$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	\$500.00
CAT 938H	16.34	\$43.90	\$82.29	2	\$252.38	\$164.58	\$250.00

Subtotals: **\$651.93** **\$322.75** **\$750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
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Subtotals: **\$0.00** **\$0.00**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GREELEY</u>	
Total one-way travel distance:	<u>10.00</u>	miles
Average Travel Speed:	<u>35.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$3,360.82</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$0.00</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.29</u>	<u>0.29</u>
Return Time (Hours):	<u>0.29</u>	<u>0.29</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.57</u>	<u>0.57</u>

JOB TIME AND COST

Total job time:	<u>3.14</u>	Hours
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Total job cost:	<u>\$3,361</u>
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SITE MAINTENANCE

Task description: West Cell Slurry Wall Construction

Site: Greeley 35th Ave Pit

Permit Action: Insp 2023

Permit/Job#: M1977036

PROJECT IDENTIFICATION

Task #: 209

State: Colorado

Abbreviation: None

Date: 11/6/2023 2:10:18

County: Weld

Filename: 209

PM

User: HR1

Agency or organization name: DRMS

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
West Cell Slurry Wall Construction Cost	40.00	USER PROVIDED ITEM	2,591,735.00	1	\$1.00	\$2,591,735.00

Job Hours: 0.00

Total Cost: \$2,591,735.00

SITE MAINTENANCE

Task description: Install Slurry Wall - Non West Cell for SEO compliance

Site: Greeley 35th Ave Pit

Permit Action: Insp 2023

Permit/Job#: M1977036

PROJECT IDENTIFICATION

Task #: 210

State: Colorado

Abbreviation: None

Date: 11/6/2023 2:10:44

County: Weld

Filename: 210

PM

User: HR1

Agency or organization name: DRMS

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Install Slurry Wall at 4 remaining open water lakes	1.00	USER PROVIDED ITEM	748,106.00	1	\$3.00	\$2,244,318.00

Job Hours: 0.00

Total Cost: \$2,244,318.00