



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

October 5, 2024

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

RE: Financial Warranty Increase, Revision No. SI-2, Parsons Mine, Permit No. M-2009-082

Dear Ms. Mikulas,

On October 5, 2024, the Division of Reclamation, Mining and Safety (Division/DRMS) increased the current Financial Warranty for the Parsons Mine (M-2009-082) to \$7,491,518.00, in accordance with Rule 4.2.1 of the Mineral Rules and Regulations for the Extraction of Construction Materials. This is an increase of \$3,322,804.00 from the currently held amount of \$4,168,714.00.

The surety increase is based on documents in the permit file, a review of aerial imagery from May 2023, and inflationary costs from the Bureau of Labor Statistics.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, is due within sixty (60) days from the date of this letter, **December 4, 2024**. Failure to post the additional required Financial Warranty within sixty (60) days may result in the Division pursuing enforcement actions.

Please make arrangements with Sara Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara at sara.stevenson-benn@state.co.us.

If you need additional information or have any questions, please contact me by email at patrick.lennberg@state.co.us.

Sincerely,

Patrick Lennberg
Environmental Protection Specialist



Enclosures: Financial Warranty Cost Estimate

CERTIFIED MAIL NO.

Return Receipt Requested

cc: Jared Ebert, DRMS
Sara Stevenson-Benn, DRMS

ec: Julie Mikulas, Martin Marietta, Julie.Mikulas@martinmarietta.com

Enclosure

COST SUMMARY WORK

Task description: Cost Summary

Site: Parsons Mine

Permit Action: SI-1

Permit/Job#: M2009082

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 10/2/2024

County: Weld

Filename: M082-000

User: JPL

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Slurry Wall Install	NA	1	1.00	\$5,226,073
002	Replace Topsoil	SCRAPER1	1	76.06	\$218,888
003	Demolition Conveyor System	DEMOLISH	1	290.00	\$332,092
004	Reveg Wetland Areas	REVEGE	1	40.00	\$62,381
005	Reveg Upland	REVEGE	1	50.00	\$96,883
006	Weed Control	REVEGE	1	8.00	\$13,552
007	Mob/Demob	MOBILIZE	1	2.80	\$11,138
<u>SUBTOTALS:</u>				467.86	\$5,961,007

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$120,412

Performance bond: 1.05

Total = \$62,591

Job superintendent: 233.93

Total = \$18,544

Profit: 10.00

Total = \$596,101

TOTAL O & P = \$797,647

CONTRACT AMOUNT (direct + O & P) = \$6,758,654

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$500

Total = \$500

Engineering work and/or contract/bid preparation: 4.61

Total = \$311,574

Reclamation management and/or administration: 3.58

\$241,960

CONTINGENCY: 3.00

Total = \$178,830

TOTAL INDIRECT COST = \$1,530,511

TOTAL BOND AMOUNT (direct + indirect) = \$7,491,518

SCRAPER TEAM WORKTask description: Replace TopsoilSite: Parsons MinePermit Action: SI-1Permit/Job#: M2009082**PROJECT IDENTIFICATION**Task #: 002State: ColoradoAbbreviation: NoneDate: 10/2/2024County: WeldFilename: M082-002User: JPLAgency or organization name: DRMS**HOURLY EQUIPMENT**COSTShift basis: 1 per day

	Equipment Description
-Scraper:	Cat 637G w/push-pull
-Dozer:	NA
Support Equipment -Load Area:	NA
-Dump Area:	NA
Road Maintenance -Motor Grader:	CAT 14M
-Water Truck:	Water Tanker, 2,500 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	NA	50	10
Ownership cost/hour:	\$281.32	NA	NA	NA	\$129.81	\$11.65
Operating cost/hour:	\$319.35	NA	NA	NA	\$44.57	\$2.25
%Utilization-ripper:	NA	NA	NA	NA	NA	NA
Ripper own. cost/hour:	NA	NA	NA	NA	\$0.00	\$0.00
Ripper op. cost/hour:	NA	NA	NA	NA	\$0.00	\$0.00
Operator cost/hour:	\$57.52	NA	NA	NA	\$56.70	\$0.00
Unit Subtotals:	\$658.19	NA	NA	NA	\$231.07	\$13.90
Number of Units:	4	0	0	0	1	1
Group Subtotals:	Work:	\$2,632.76	Support:	\$0.00	Maint:	\$244.97

Total work team cost/hour: \$2,877.73**MATERIAL QUANTITIES**Initial volume: 130,000

CCY

Swell factor: 1.000Loose volume: 130,000

LCY

Source of estimated volume: Ex L Approved PermitSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION****Scraper Bowl (volume) Basis:**

Material weight: 2,650 lbs/LCY
 Material description: Decomposed rock - 25% Rock, 75% Earth
 Rated Payload: 81,600 pounds
 Payload Capacity: 30.79 LCY

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

Cycle Time:Scraper Loading Time: 1.00 MinutesManeuver and Spread Time: 0.60 MinutesJob Condition Correction:

Site Altitude: 4750 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: Firm, smooth, rolling, dirt/lt. surfaced, watered, maintained 3.0Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1900.00	0.50	3.00	3.50	2394	1.00

Haul Time: 1.00 minutesReturn Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1900.00	-0.50	3.00	2.50	2960	0.78

Return Time: 0.78 minutesTotal Scraper team cycle time: 3.38 minutesAdjusted for job conditions: 854.56 LCY/HourSelected Number of Scrapers: 4 Scraper(s)Adjusted single scraper team (unit) hourly production: 1,709.11 LCY/HourAdjusted multiple scraper team (fleet) hourly production: 1,709.11 LCY/HourUnadjusted unit production/hour: 1,029.59 LCY/Hour

Optimal Number of Scrapers per push dozer: _____

JOB TIME AND COSTFleet size: 1 Team(s)Total job time: 76.06 HoursUnit cost: \$1.684 /LCYTotal job cost: \$218,888

DEMOLITION WORK

Task description: Demolition Conveyor System

Site: Parsons Mine

Permit Action: SI-1

Permit/Job#: M2009082

PROJECT IDENTIFICATION

Task #: 003

State: Colorado

Abbreviation: None

Date: 10/2/2024

County: Weld

Filename: M082-003

User: JPL

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 89.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Conveyor	6'x10'x7300	Conveyor, demolition, off-site disposal in approved landfill, 15 mile haul	438,000.00	CF	\$0.85	\$372,300.00

Job Hours: 290.00

Subtotal
(unadjusted): \$372,300.00

Total Cost
(adjusted for location): \$332,091.60

REVEGETATION WORKTask description: Reveg Wetland AreasSite: Parsons MinePermit Action: SI-1Permit/Job#: M2009082**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 10/2/2024County: WeldFilename: M082-004User: JPLAgency 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)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Switchgrass - Blackwell	0.96	8.57	\$12.69
Baltic Rush	0.16	44.96	\$30.17
Common Rush	0.40	67.27	\$83.56
Beaked Sedge	0.16	1.33	\$43.38
Canada Wildrye	0.80	2.11	\$8.18
Arrowgrass	0.16	1.72	\$17.65
Hardstem Bulrush	0.16	1.49	\$25.87
River Bulrush	0.80	1.98	\$76.67
Torrey's Rush	0.16	38.40	\$44.30
Three Square Bulrush	0.80	5.51	\$121.92

Cordgrass, Prairie	0.64	2.69	\$59.43
Nebraska Sedge	0.80	16.75	\$117.37
Saltgrass, Inland	0.40	5.54	\$19.94
Slough Grass	0.96	24.24	\$31.98
Spike Muhly	0.64	23.51	\$7.26
Totals Seed Mix	8.00	246.09	\$700.37

Application

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

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:	<u>48.4</u>	Cost /Acre:	<u>\$1,054.62</u>
Estimated Failure Rate:	<u>25%</u>	Cost /Acre*:	<u>\$937.01</u>
*Selected Replanting Work Items:	<u>SEEDING</u>		

Initial Job Cost:	<u>\$51,043.61</u>
Reseeding Job Cost:	<u>\$11,337.82</u>
Total Job Cost:	<u>\$62,381</u>
Job Hours:	<u>40.00</u>

REVEGETATION WORKTask description: Reveg UplandSite: Parsons MinePermit Action: SI-1Permit/Job#: M2009082**PROJECT IDENTIFICATION**Task #: 005State: ColoradoAbbreviation: NoneDate: 10/3/2024County: WeldFilename: M082-005User: JPLAgency 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)	\$117.61
Total Tilling Cost/Acre	\$117.61

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.10	3.90	\$2.91
Mountain Brome - Bromar	1.74	2.80	\$10.47
Sideoats Grama - Butte	1.80	5.91	\$43.48
Western Wheatgrass - Arriba	1.74	4.39	\$15.72
Sweetvetch, Utah or Northern	1.02	0.46	\$91.32
Needle and Thread	1.29	3.41	\$105.04
Rose, Wood's	0.87	0.00	\$46.44
Prairie Sandreed - Goshen	0.48	3.01	\$8.17
Globemallow, Scarlet (or copper)	0.26	2.94	\$48.24
Penstemon, Rocky Mountain	0.46	7.21	\$28.25

Totals Seed Mix	9.76	34.03	\$400.04
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Application

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

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:	109.2	Cost /Acre:	\$754.29
Estimated Failure Rate:	25%	Cost /Acre*:	\$636.68
*Selected Replanting Work Items:	SEEDING		
Initial Job Cost:	\$82,368.47		
Reseeding Job Cost:	\$17,381.36		
Total Job Cost:	\$99,750		
Job Hours:	50.00		

REVEGETATION WORKTask description: Weed ControlSite: Parsons MinePermit Action: SI-1Permit/Job#: M2009082PROJECT IDENTIFICATIONTask #: 006State: ColoradoAbbreviation: NoneDate: 10/3/2024County: WeldFilename: M082-006User: JPLAgency or organization name: DRMSFERTILIZING**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
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$

Total Seed Application Cost/Acre	\$0.00
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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:	40	Cost /Acre:	\$338.80
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost:	\$13,552.00
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$13,552
Job Hours:	8.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob/Demob**Site: **Parsons Mine**Permit Action: **SI-1**Permit/Job#: **M2009082****PROJECT IDENTIFICATION**Task #: **007**State: **Colorado**Abbreviation: **None**Date: **10/3/2024**County: **Weld**Filename: **M082-007**User: **JPL**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
Grove RT650E, 105', 45.4 MT	28.74	\$189.03	\$122.78	1	\$311.81	\$122.78	\$250.00
CAT 973D	29.07	\$120.46	\$122.78	1	\$243.24	\$122.78	\$250.00
Cat 637G w/push- pull	59.59	\$281.32	\$125.64	4	\$1,627.84	\$502.56	\$1,000.00
CAT 14M	23.57	\$129.81	\$59.44	1	\$189.25	\$59.44	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$41.02	\$59.44	2	\$200.92	\$118.88	\$500.00

Subtotals: **\$2,573.06** **\$926.44** **\$2,250.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 12-18 cy, 6x4	\$114.77	1	\$114.77	\$114.77
Flatbed Truck, 6x4, 45K GVW	\$81.77	1	\$81.77	\$81.77
Water Tanker, 2,500 Gal.	\$34.10	1	\$34.10	\$34.10

Subtotals: **\$230.64** **\$230.64**

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>50.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$11,045.92</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$92.26</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.20</u>	<u>0.20</u>
Return Time (Hours):	<u>0.20</u>	<u>0.20</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.40</u>	<u>0.40</u>

JOB TIME AND COST

Total job time:	<u>2.80</u>	Hours
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Total job cost:	<u>\$11,138</u>
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