



July 7, 2025

Jon Muller
Kilgore Companies LLC dba Elam Construction
7057 West 2100 South
Salt Lake City, UT 84128

RE: Surface Rock Pit, Permit No. M-1984-001, Proposed Surety Increase (SI-3)

Dear Mr. Muller:

This reclamation cost update was in response to the site inspection conducted on July 2, 2025. It is Division policy to periodically update its costs to ensure that the Financial Warranty adequately, reflects the actual current cost of fulfilling the requirements of the approved reclamation plan.

The bond was last recalculated in 2022 with SI-2. Below is a table summarizing input values that have been updated based on site conditions, **changes are in red**. This table does not account for price changes resulting from inflation or other RS Means cost changes. Bond calculations are based on a combination of field observations and worst case scenario based on the approved reclamation plan.

Task	Form Used	Description
01a	Dozer	Rip and regrade stockpiles in Phase 1 & 2 12,907 BCY = 4ac @ 2'
02a	Dozer	Distribute topsoil/overburden in Phase 1 & 2 3227 LCY = 6" over 4 ac
03a	Reveg	Reveg Phase 1 & 2 4 ac highwall floor area w/ estimated 50% failure Switch from Chesil plow to Disc Harrow Added crimper for mulch application



		Removed tilling form secondary replanting work
03b	Reveg	Failure reveg of previously seeded Phase 2 Estimated 2.5 ac w/no failure Switch from Chesil plow to Disc Harrow Added crimper for mulch application
10a	Mob	Initial Mobilization Dozer, Seeder, Mulcher, 1 Crew Truck Add second crew truck w/reveg supplies
10b	Mob	Secondary Mobilization Seeder, Mulcher, 1 Crew Truck
Indirect		No Job Superintendent, no Engineering, No contingency Per policy all projects should have Engineering work/contract/bid prep included

Per policy I wanted to send this out for review prior to issuance. Please look it over and let me know if there are errors or concerns. If no response is received by **Friday, July 25, 2025** then I'll issue SI-3 the following Monday. SI-3 will result in a total required bond amount of **\$65,099**, which is an increase of \$21,665 over the \$43,434 currently held.

Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, Rm 215, 1001 E 62nd Ave, Denver CO 80216. Direct contact can be made by phone at 970-210-1272 or via email at amy.yeldell@state.co.us

Sincerely,



Amy Yeldell

Environmental Protection Specialist III

Ec:

Travis Marshall, Senior EPS, Grand Junction DRMS

COST SUMMARY WORK

Task description: Post inspection and inflation 2025

Site: Surface Rock Pit

Permit Action: 2025

Permit/Job#: M1984001

PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 7/7/2025

County: Mesa

Filename: M001-ACY

User: ACY

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Rip and regrade Phase 1 & 2	DOZER	1	76.15	\$26,951
02a	Distribute topsoil/overburden in Phase 1 & 2	DOZER	1	5.32	\$1,753
03a	Reveg in Phase 1 & 2	REVEGE	1	16.00	\$12,768
03b	Failure Reveg of 2.5 acres Phase 2	REVEGE	1	6.00	\$5,415
10a	Initial Mobilization	MOBILIZE	1	3.95	\$3,602
10b	Secondary Mobilization	MOBILIZE	1	3.95	\$1,806
<u>SUBTOTALS:</u>				111.37	\$52,295

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,056

Performance bond: 1.05

Total = \$549

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$5,230

TOTAL O & P = \$6,835

CONTRACT AMOUNT (direct + O & P) = \$59,130

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$2,513

Reclamation management and/or administration: 5.00

\$2,956

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$12,804

TOTAL BOND AMOUNT (direct + indirect) = \$65,099

BULLDOZER WORKTask description: **Rip and regrade Phase 1 & 2**Site: **Surface Rock Pit** Permit Action: 2025 Permit/Job#: M1984001**PROJECT IDENTIFICATION**

Task #: 01A State: Colorado Abbreviation: None
 Date: 7/7/2025 County: Mesa Filename: M001-01a
 User: ACY

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:	<u>\$179.60</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$110.45</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$15.28</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$9.14</u>	<u>100</u>
Operator Cost/Hour:	<u>\$39.46</u>	<u>NA</u>

Total unit Cost/Hour: \$353.93
 Total Fleet Cost/Hour: **\$353.93**

MATERIAL QUANTITIES

Initial Volume: 12,907
 Swell factor: 1.330
 Loose volume: **17,166 LCY**

Source of estimated volume: 4 acres at 2'
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Average push distance: 150 feet
 Unadjusted hourly production: 634.3 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: 0 %
 Average site altitude: 6,600 feet

Material weight: 2,900 lbs/LCYWeight description: Decomposed rock - 50% Rock, 50% Earth**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>0.900</u>	<u>(CAT HB))</u>
Dozing method:	<u>1.000</u>	<u>(GEN.)</u>
Visibility:	<u>1.000</u>	<u>(AVG.)</u>

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:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3554

Adjusted unit production: 225.43 LCY/hr

Adjusted fleet production: **225.43** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.570/LCY

Total job time: **76.15** Hours

Total job cost: **\$26,951**

BULLDOZER WORKTask description: **Distribute topsoil/overburden in Phase 1 & 2**Site: **Surface Rock Pit**Permit Action: **2025**Permit/Job#: **M1984001****PROJECT IDENTIFICATION**Task #: **02A**State: **Colorado**Abbreviation: **None**Date: **7/7/2025**County: **Mesa**Filename: **M001-02a**User: **ACY**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:	\$179.60	NA
Operating Cost/Hour:	\$110.45	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	100
Operator Cost/Hour:	\$39.46	NA

Total unit Cost/Hour: **\$329.51**Total Fleet Cost/Hour: **\$329.51****MATERIAL QUANTITIES**Initial Volume: **3,227**Swell factor: **1.000**Loose volume: **3,227 LCY**Source of estimated volume: **6" of topsoil over 4 acres**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: **5 %**Average site altitude: **6,600 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:	1.100	(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:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7113

Adjusted unit production: 606.45 LCY/hr

Adjusted fleet production: **606.45** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.543/LCY

Total job time: **5.32** Hours

Total job cost: **\$1,753**

REVEGETATION WORKTask description: Reveg in Phase 1 & 2Site: Surface Rock PitPermit Action: 2025Permit/Job#: M1984001**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 7/7/2025County: MesaFilename: M001-03aUser: ACYAgency 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)	\$114.13
Total Tilling Cost/Acre	\$114.13

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	1.50	4.86	\$31.53
Blue Grama - Native	0.50	8.16	\$10.92
Sand Dropseed	0.80	95.50	\$10.66
Intermediate Wheatgrass - Oahe	4.50	9.61	\$21.41
Sainfoin - Remont	5.00	2.18	\$18.92
Saltbush, Four Wing	0.80	1.10	\$16.28
Winter Fat	0.50	1.27	\$23.92
Totals Seed Mix	13.60	122.68	\$133.63

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$242.30
Total Seed Application Cost/Acre	\$242.30

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.44	\$4.44
Straw, delivered	2.00	TON	\$504.56	\$1,009.12
Total Mulch Materials Cost/Acre				\$1,013.56

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$239.35
Power mulcher (MEANS 32 91 13.16 0350)	\$141.57
Weed spray, truck, non-aquatic area, nox. [DMG]	\$249.08
Total Mulch Application Cost/Acre	\$630.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Pine, Pinyon	5	Tubling, 10 cu. in. container {(MEANS)}	\$6.50	\$2.40	\$32.50
Totals Nursery Stock Cost / Acre					\$32.50

JOB TIME AND COST

No. of Acres: 4 Cost /Acre: \$2,166.12
 Estimated Failure Rate: 50% Cost /Acre*: \$2,051.99
 *Selected Replanting Work Items: SEEDING,NURSERY,MULCHING

Initial Job Cost: **\$8,664.48**
 Reseeding Job Cost: **\$4,103.98**
 Total Job Cost: **\$12,768**
 Job Hours: **16.00**

REVEGETATION WORKTask description: Failure Reveg of 2.5 acres Phase 2Site: Surface Rock PitPermit Action: 2025Permit/Job#: M1984001**PROJECT IDENTIFICATION**Task #: 03BState: ColoradoAbbreviation: NoneDate: 7/7/2025County: MesaFilename: M001-03bUser: ACYAgency 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)	\$114.13
Total Tilling Cost/Acre	\$114.13

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	1.50	4.86	\$31.53
Blue Grama - Native	0.50	8.16	\$10.92
Sand Dropseed	0.80	95.50	\$10.66
Intermediate Wheatgrass - Oahe	4.50	9.61	\$21.41
Sainfoin - Remont	5.00	2.18	\$18.92
Saltbush, Four Wing	0.80	1.10	\$16.28
Winter Fat	0.50	1.27	\$23.92
Totals Seed Mix	13.60	122.68	\$133.63

Application

Description	Cost /Acre
Drill Seeding (DRMS Survey Cost)	\$242.30
Total Seed Application Cost/Acre	\$242.30

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.44	\$4.44
Straw, delivered	2.00	TON	\$504.56	\$1,009.12
Total Mulch Materials Cost/Acre				\$1,013.56

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$239.35
Power mulcher (MEANS 32 91 13.16 0350)	\$141.57
Weed spray, truck, non-aquatic area, nox. [DMG]	\$249.08
Total Mulch Application Cost/Acre	\$630.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Pine, Pinyon	5	Tubling, 10 cu. in. container {(MEANS)	\$6.50	\$2.40	\$32.50
Totals Nursery Stock Cost / Acre					\$32.50

JOB TIME AND COST

No. of Acres:	<u>2.5</u>	Cost /Acre:	<u>\$2,166.12</u>
Estimated Failure Rate:	<u>0%</u>	Cost /Acre*:	<u>\$0.00</u>
*Selected Replanting Work Items:	<u>NONE</u>		

Initial Job Cost:	\$5,415.30
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$5,415
Job Hours:	6.00

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Initial Mobilization**Site: **Surface Rock Pit**Permit Action: **2025**Permit/Job#: **M1984001****PROJECT IDENTIFICATION**Task #: **10A**State: **Colorado**Abbreviation: **None**Date: **7/7/2025**County: **Mesa**Filename: **M001-10a**User: **ACY**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:	\$21.47	\$38.32	\$48.96
Operating Cost/Hour:	\$31.47	\$60.11	\$65.86
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$22.25	\$22.25
Total Unit Cost/Hour:	\$75.46	\$143.20	\$159.59

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	53.08	\$194.88	\$159.59	1	\$354.47	\$159.59	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$5.99	\$75.46	1	\$81.45	\$75.46	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$29.91	\$75.46	1	\$105.37	\$75.46	\$250.00

Subtotals: **\$541.29** **\$310.51** **\$750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$86.86	1	\$86.86	\$86.86
Light Duty Pickup, 4x4, 1 T. Crew	\$103.98	1	\$103.98	\$103.98

Subtotals: **\$190.84** **\$190.84**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	22.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$3,415.45	
** two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	\$186.60	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.49	0.49
Return Time (Hours):	0.49	0.49
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.98	0.98

JOB TIME AND COST

Total job time: 3.96 Hours

Total job cost: \$3,602

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Secondary Mobilization**Site: **Surface Rock Pit**Permit Action: **2025**Permit/Job#: **M1984001****PROJECT IDENTIFICATION**Task #: **10B**State: **Colorado**Abbreviation: **None**Date: **7/7/2025**County: **Mesa**Filename: **M001-10b**User: **ACY**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:	\$21.47	\$38.32	\$48.96
Operating Cost/Hour:	\$31.47	\$60.11	\$65.86
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$22.25	\$22.25
Total Unit Cost/Hour:	\$75.46	\$143.20	\$159.59

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
Drill/Broadcast Seeder with Tractor	25.00	\$5.99	\$75.46	1	\$81.45	\$75.46	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$29.91	\$75.46	1	\$105.37	\$75.46	\$250.00

Subtotals: **\$186.82** **\$150.92** **\$500.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$103.98	1	\$103.98	\$103.98

Subtotals: **\$103.98** **\$103.98**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GRAND JUNCTION, CO	
Total one-way travel distance:	22.00	miles
Average Travel Speed:	45.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,703.87	
** two round trips with haul rig:		
Total Roadable Mob/Demob Cost **	\$101.67	
** one round trip, no haul rig:		

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.49	0.49
Return Time (Hours):	0.49	0.49
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.98	0.98

JOB TIME AND COST

Total job time:	3.96	Hours
Total job cost:	\$1,806	