



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

March 1, 2023

Jason Burkey  
Oldcastle SW Group, Inc. dba United Companies of Mesa County  
2273 River Road  
Grand Junction, CO 81502-3609

**Re: Preston Pit Extension - File No. M-1980-022**  
**Oldcastle SW Group, Inc. dba United Companies of Mesa County**  
**Surety Increase (SI-2)**  
**Surety Increase based on 2-28-2023 Inspection**

Dear Jason Burkey:

On March 1, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$42,291.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$10,277.70.

Please see the February 28, 2023 inspection report for details regarding why this surety increase is required.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter (March 1, 2023).

Please make arrangements with Sara M. 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 M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at [Sara.stevenson-benn@state.co.us](mailto:Sara.stevenson-benn@state.co.us).

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit after April 30, 2023, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$69,184.43
Prior Liability:	\$32,013.30
Change in Liability:	\$10,277.70
Revised Liability:	\$42,291.00
Prior Permit Acreage:	8.90



Change in Permit Acreage:	0.00
Revised Permit Acreage:	8.90
Prior Affected Acreage:	8.90
Change in Affected Acreage:	0.00
Revised Affected Acreage:	8.90

If you have any questions, please contact me by telephone at (303) 866-3567 x 8183, or by email at Amy.yeldell@state.co.us.

Sincerely,



Amy C. Yeldell  
Environmental Protection Specialist

cc: Jason Burkey

M-GR-04

## COST SUMMARY WORK

Task description: Post inspection update 03-2023

Site: Preston Pit Extension

Permit Action: 03-2023

Permit/Job#: M1980022

### PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 3/1/2023

County: Mesa

Filename: M022-ACY

User: ACY

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demolition and Disposal of Structures	DEMOLISH	1	16.00	\$4,203
02a	Regrade remaining slopes to 3H:11V	DOZER	1	3.49	\$740
03a	shape approx. 500' of pit slope below water level	EXCAVATE	1	4.54	\$859
04a	Rip compacted areas	RIPPER	1	9.32	\$2,104
05a	Reveg dryland	REVEGE	1	24.00	\$16,941
06a	Initial Mobilization	MOBILIZE	1	6.00	\$4,924
06b	Secondary Mobilization	MOBILIZE	1	6.00	\$1,960
<b><u>SUBTOTALS:</u></b>				<b>69.35</b>	<b>\$31,731</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$641

Performance bond: 1.05

Total = \$333

Job superintendent: 20.00

Total = \$1,503

Profit: 10.00

Total = \$3,173

TOTAL O & P = \$5,650

CONTRACT AMOUNT (direct + O & P) = \$37,381

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$1,589

Reclamation management and/or administration: 5.00

\$1,869

CONTINGENCY: 3.00

Total = \$952

TOTAL INDIRECT COST = \$10,560

**TOTAL BOND AMOUNT (direct + indirect) = \$42,291**

## DEMOLITION WORK

Task description: Demolition and Disposal of Structures

Site: Preston Pit Extension

Permit Action: 03-2023

Permit/Job#: M1980022

### PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 3/1/2023

County: Mesa

Filename: M022-01a

User: ACY

Agency or organization name: DRMS

### UNIT COSTS

Location adjustment: 91.30 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Mobile home #1	12H x 14W x 65L	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 15 mile haul	10,920.00	CF	\$0.36	\$3,974.88
Misc debris-Load and Hual	20 CY max	Loading and 2 mile haul, no salvage - Machine loading	20.00	CY	\$19.40	\$388.00
Misc debris-Hauling	5 miles	Hauling only, per mile, 12-18 CY truck - 50 mph average speed	5.00	MI	\$3.78	\$18.90
Misc debris-dump fees	20 CY Max	Dump fees - Building construction materials.	20.00	CY	\$11.10	\$222.00

Job Hours: 16.00

Subtotal  
(unadjusted): \$4,603.78

Total Cost  
(adjusted for location): \$4,203.25

**BULLDOZER WORK**Task description: **Regrade remaining slopes to 3H:11V**Site: **Preston Pit Extension**Permit Action: **03-2023**Permit/Job#: **M1980022****PROJECT IDENTIFICATION**Task #: **02A**State: **Colorado**Abbreviation: **None**Date: **3/1/2023**County: **Mesa**Filename: **M022-02a**User: **ACY**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D7R DS Series II LGP**Horsepower: **240**Blade Type: **Straight**Attachment: **NA**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$92.78	NA
Operating Cost/Hour:	\$79.33	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$40.04	NA

Total unit Cost/Hour: **\$212.15**Total Fleet Cost/Hour: **\$212.15****MATERIAL QUANTITIES**Initial Volume: **1,200**Swell factor: **1.250**Loose volume: **1,500 LCY**Source of estimated volume: **100 LF 2:1 and 500 LF 1:1 @ 15'H to a 3:1**Source of estimated swell factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly production: **800.0 LCY/hr**Materials consistency description: **Compacted fill or embankment 0.9**Average push gradient: **-15 %**Average site altitude: **4,540 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:	0.900	(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:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5373

Adjusted unit production: 429.84 LCY/hr

Adjusted fleet production: **429.84** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.494/LCY

Total job time: **3.49** Hours

Total job cost: **\$740**

## HYDRAULIC EXCAVATOR WORK

Task description: Shape approx. 500' of pit slope below water level

Site: Preston Pit Extension

Permit Action: 03-2023

Permit/Job#: M1980022

### PROJECT IDENTIFICATION

Task #: 03A

State: Colorado

Abbreviation: None

Date: 3/1/2023

County: Mesa

Filename: M022-03a

User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 324D L 9'-8" Stick

Attachment 1: ROPS Cab

Horsepower: 194

Weight (MT): 24.85

Shift Basis: 1 per day

Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$84.48	NA
Operating Cost/Hour:	\$57.76	100
Operator Cost/Hour:	\$46.87	NA
Total Unit Cost/Hour:	\$189.11	
Total Fleet Cost/Hour:	\$189.11	

### MATERIAL QUANTITIES

Initial volume: 1,350

CCY

Swell factor: 1.099

Loose volume: 1,484

LCY

Source of estimated volume: Division of Reclamation, Mining & Safety

Source of estimated swell factor: Cat Handbook

### HOURLY PRODUCTION

Excavator Cycle Time (load bucket, swing loaded, dump bucket, swing empty):

Basic Job Condition Description: AVERAGE

Secondary Job Condition within Basic Description: AVERAGE

Cycle Time Value: 0.293 minutes

#### Load Bucket Capacity

Bucket Size Class: Medium

Rated Capacity: 2.26 LCY (heaped)

Bucket Fill Factor: 0.850 Hard, tough clay (80% - 90%) 0.850

Adjusted Capacity: 1.92 LCY

#### Job Condition Correction Factors

Site Altitude: 4540 feet

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

Unadjusted Hourly Unit Production: 393.38 LCY/Hour

Adjusted Hourly Unit Production: 326.50 LCY/Hour

Adjusted Hourly Fleet Production: 326.50 LCY/Hour

### JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 4.54 Hours

Unit cost: \$0.579 /LCY Total job cost: \$859

## BULLDOZER RIPPING WORK

Task description: Rip compacted areas

Site: Preston Pit Extension Permit Action: 03-2023 Permit/Job#: M1980022

### PROJECT IDENTIFICATION

Task #: 04A State: Colorado Abbreviation: None  
Date: 3/1/2023 County: Mesa Filename: M022-04a  
User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D7R DS XR Series II Horsepower: 240  
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$92.78</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$79.33</u>	<u>100</u>
Ripper Ownership Cost/Hour:	<u>\$8.37</u>	<u>NA</u>
Ripper Operating Cost/Hour:	<u>\$4.99</u>	<u>100</u>
Operator Cost/Hour:	<u>\$40.04</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$225.51</u>	
Total Fleet Cost/Hour:	<u>\$225.51</u>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 5.00 acres Rip Depth (ft): 2.00 Volume: 16,133 BCY or CCY

Source of estimated quantity: Site estimates, historical pad area

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth: 2.45 feet/pass  
Average Ripping Width: 6.50 feet/pass  
Average Ripping Length: 100.00 feet/pass  
Average Dozer Speed: 88.00 feet/minute  
Average Maneuver Time: 0.25 minutes/pass  
Production per unit area: 0.646 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.646 Acres/hr  
Site Altitude: 4,540 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.54 Acres/hr  
Adjusted Hourly Fleet Production: 0.54 Acres/hr

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 9.33 Hours

Unit cost: \$420.715 Per acre Total job cost: \$2,104



**REVEGETATION WORK**Task description: Reveg drylandSite: Preston Pit ExtensionPermit Action: 03-2023Permit/Job#: M1980022**PROJECT IDENTIFICATION**Task #: 05AState: ColoradoAbbreviation: NoneDate: 3/1/2023County: MesaFilename: M022-05aUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
5-10-10, 5-10-15, 6-12-12	200.00	pound	\$0.23	\$46.00
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$46.00</b>

**Application**

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$39.64
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$39.64</b>

**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$117.18
<b>Total Tilling Cost/Acre</b>	<b>\$117.18</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	0.12	4.68	\$3.42
Sand Dropseed	0.05	5.97	\$0.49
Crested Wheatgrass - Nordan	1.50	6.89	\$5.85
Western Wheatgrass - Arriba	4.00	10.10	\$26.00
<b>Totals Seed Mix</b>	<b>5.67</b>	<b>27.64</b>	<b>\$35.75</b>

**Application**

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

<b>Total Seed Application Cost/Acre</b>	<b>\$232.00</b>
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**MULCHING and MISCELLANEOUS****Materials**

<b>Description</b>	<b>Units / Acre</b>	<b>Unit</b>	<b>Cost / Unit</b>	<b>Cost /Acre</b>
Herbicide - Glyphosate (Journey)@ 1.0 pt/ac	1.00	ACRE	\$4.61	\$4.61
Herbicide - Transline @ 1.0 pt/ac	1.00	ACRE	\$18.26	\$18.26
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
<b>Total Mulch Materials Cost/Acre</b>				<b>\$865.59</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Crimping, with tractor {DMG survey data}	\$73.00
Power mulcher (MEANS 32 91 13.16 0350)	\$141.57
Weed spray, truck, non-aquatic area, nox. [DMG]	\$62.72
<b>Total Mulch Application Cost/Acre</b>	<b>\$277.29</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres: 7 Cost /Acre: \$1,613.45  
 Estimated Failure Rate: 50% Cost /Acre\*: \$1,613.45  
 \*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU  
LCHING

Initial Job Cost: **\$11,294.15**  
 Reseeding Job Cost: **\$5,647.08**  
 Total Job Cost: **\$16,941**  
 Job Hours: **24.00**

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Initial Mobilization**Site: **Preston Pit Extension**Permit Action: **03-2023**Permit/Job#: **M1980022****PROJECT IDENTIFICATION**

Task #: **06A** State: **Colorado** Abbreviation: **None**  
 Date: **3/1/2023** County: **Mesa** Filename: **M022-06a**  
 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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

**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 D7R DS XR Series II	35.93	\$101.15	\$101.82	1	\$202.97	\$101.82	\$250.00
Cat 324D L 9'-8" Stick	27.33	\$84.48	\$101.82	1	\$186.30	\$101.82	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00

Subtotals: **\$546.75** **\$340.08** **\$1,000.00**

**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.	\$14.23	2	\$28.46	\$28.46

Subtotals: **\$28.46** **\$28.46**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>5.00</u>	miles
Average Travel Speed:	<u>5.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$4,867.16</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$56.92</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>1.00</u>	<u>1.00</u>
Return Time (Hours):	<u>1.00</u>	<u>1.00</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>3.00</u>	<u>2.00</u>

**JOB TIME AND COST**

Total job time:	<u>6.00</u>	Hours
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Total job cost:	<u>\$4,924</u>
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**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Secondary Mobilization**Site: **Preston Pit Extension**Permit Action: **03-2023**Permit/Job#: **M1980022****PROJECT IDENTIFICATION**Task #: **06B**State: **Colorado**Abbreviation: **None**Date: **3/1/2023**County: **Mesa**Filename: **M022-06b**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:**

<b>Available Rig Capacities</b>	<b>0-25 Tons</b>	<b>26-50 Tons</b>	<b>51+ Tons</b>
Ownership Cost/Hour:	\$15.25	\$23.06	\$37.58
Operating Cost/Hour:	\$25.26	\$30.83	\$51.41
Operator Cost/Hour:	\$27.71	\$27.71	\$27.71
Helper Cost/Hour:	\$0.00	\$20.22	\$20.22
Total Unit Cost/Hour:	\$68.22	\$101.82	\$136.92

**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	\$6.25	\$68.22	1	\$74.47	\$68.22	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$14.79	\$68.22	1	\$83.01	\$68.22	\$250.00
Subtotals:					<b>\$157.48</b>	<b>\$136.44</b>	<b>\$500.00</b>

**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.	\$14.23	2	\$28.46	\$28.46
Subtotals:			<b>\$28.46</b>	<b>\$28.46</b>

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>5.00</u>	miles
Average Travel Speed:	<u>5.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,902.80</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$56.92</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>1.00</u>	<u>1.00</u>
Return Time (Hours):	<u>1.00</u>	<u>1.00</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>3.00</u>	<u>2.00</u>

**JOB TIME AND COST**

Total job time:	<u>6.00</u>	Hours
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Total job cost:	<u>\$1,960</u>
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