



April 10, 2023

Chris Hurley  
IHC Scott, Inc.  
10303 East Dry Creek Road #300  
Englewood, CO 80112

***RE: Collette Property, File No. M-2022-051, Construction Material Special (111) Operation Reclamation Permit Application Package- Adequacy Review***

Dear Mr. Hurley:

On April 5, 2023, the Division of Reclamation, Mining and Safety (Division) received your incompleteness response for the Construction Material Special (111) Operation Reclamation Permit Application package for the Collette Property, File No. M-2022-051. The application was filed on April 10, 2023. The Division determined that the following issue(s) of concern shall be adequately addressed before the application can be considered for approval.

1. Mine plan question 6b describes the newly created access road. Per Rule 6.3.3(g) please provide the dimensions (the width and length) of the new access road.
2. Will any on site processing of mined material occur within the proposed permit boundary? Rule 6.3.3(e) and (m).
3. Will fuel or other hydrocarbons be stored on site? If so, please provide a list of types and anticipated max quantities stored on site at any given time. Describe containment measures and commit to Rule 3.1.13 regarding spills reporting. Also locate the storage location(s) on the Mine Plan Map per Rule 6.3.3(e)
4. Per Rule 6.3.3(p) will explosives be used in conjunction with the mining or reclamation operation?
5. Clarify for the reclamation plan that of the 9.07 ac permit, only 7.3 acres will required topsoil and seeding. The remaining disturbed areas will remain as a permanent access road.
6. Per 4.2.4(1) The Division has received a financial warranty in the amount of \$25,000. Based on the reclamation plan and reclamation cost provided the Division has calculated the estimated financial warranty for this site to be \$72,551. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Please submit your response(s) to the above listed issue(s) by **Wednesday, April 19, 2023** in order to allow the Division sufficient time for review. The decision date for your application is scheduled for **April 25, 2023**.



The Division will continue to review your application and will contact you if additional information is needed.

If you require additional information, or have questions or concerns, please feel free to contact me. at amy.yeldell@state.co.us or 303-866-3567 Ext 8183.

Sincerely,

A handwritten signature in blue ink that reads "Amy Yeldell". The signature is written in a cursive, flowing style.

**Amy Yeldell**  
Environmental Protection Specialist  
Department of Natural Resources  
Division of Reclamation, Mining and Safety

Cc:  
Travis Marshall  
Sara Stevenson-Benn

## COST SUMMARY WORK

Task description: Initial Bond Calc

Site: Collett Property

Permit Action: New App

Permit/Job#: M2022051

### PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 4/10/2023

County: Rio Blanco

Filename: M051-ACY

User: ACY

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Regrade south slopes to 3.2H: 1V	DOZER	1	79.24	\$17,969
02a	Rip affected lands prior to topsoil application	RIPPER	1	12.14	\$2,754
03a	Apply topsoil to affected lands	DOZER	1	49.33	\$11,013
04a	Reveg affected lands	REVEGE	1	12.00	\$20,887
05a	Initial Mobilization	MOBILIZE	1	3.45	\$2,754
05b	Secondary Mobilization	MOBILIZE	1	3.45	\$1,567
<b><u>SUBTOTALS:</u></b>				<b>159.61</b>	<b>\$56,944</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$1,150

Performance bond: 1.05

Total = \$598

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$5,694

TOTAL O & P = \$7,443

CONTRACT AMOUNT (direct + O & P) = \$64,387

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$2,736

Reclamation management and/or administration: 5.00

\$3,219

CONTINGENCY: 3.00

Total = \$1,708

TOTAL INDIRECT COST = \$15,607

**TOTAL BOND AMOUNT (direct + indirect) = \$72,551**

**BULLDOZER WORK**Task description: **Regrade south slopes to 3.2H: 1V**Site: **Collett Property** Permit Action: **New App** Permit/Job#: **M2022051****PROJECT IDENTIFICATION**

Task #: **01A** State: **Colorado** Abbreviation: **None**  
 Date: **4/10/2023** County: **Rio Blanco** Filename: **M051-01a**  
 User: **ACY**

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

Basic Machine: **Cat D7R DS Series II LGP**  
 Horsepower: **240**  
 Blade Type: **Straight**  
 Attachment: **3-shank ripper**  
 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:	\$8.37	NA
Ripper op. Cost/Hour:	\$4.99	100
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$226.77**  
 Total Fleet Cost/Hour: **\$226.77**

**MATERIAL QUANTITIES**

Initial Volume: **6,111**  
 Swell factor: **1.250**  
 Loose volume: **7,639 LCY**

Source of estimated volume: **3 benches @ 500LF of 10'H 1:1 going to 3.2:1 backfill**  
 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: **30 %**  
 Average site altitude: **7,400 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:	0.298	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1205

Adjusted unit production: 96.40 LCY/hr

Adjusted fleet production: **96.4** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$2.352/LCY

Total job time: **79.24** Hours

Total job cost: **\$17,969**

## BULLDOZER RIPPING WORK

Task description: Rip affected lands prior to topsoil application

Site: Collett Property Permit Action: New App Permit/Job#: M2022051

### PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None  
Date: 4/10/2023 County: Rio Blanco Filename: M051-02a  
User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

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

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$92.78	NA
Operating Cost/Hour:	\$79.33	100
Ripper Ownership Cost/Hour:	\$8.37	NA
Ripper Operating Cost/Hour:	\$4.99	100
Operator Cost/Hour:	\$41.30	NA
Total Unit Cost/Hour:	\$226.77	
Total Fleet Cost/Hour:	<b>\$226.77</b>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 7.30 acres Rip Depth (ft): 2.00 Volume: 23,555 BCY or CCY

Source of estimated quantity: Reclamation Plan

### 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: 250.00 feet/pass  
Average Dozer Speed: 88.00 feet/minute  
Average Maneuver Time: 0.25 minutes/pass  
Production per unit area: 0.724 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.724 Acres/hr  
Site Altitude: 7,400 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.60 Acres/hr  
Adjusted Hourly Fleet Production: **0.60** Acres/hr

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: **12.15** Hours

Unit cost: \$377.291 Per acre Total job cost: **\$2,754**

**BULLDOZER WORK**Task description: Apply topsoil to affected landsSite: Collett PropertyPermit Action: New AppPermit/Job#: M2022051**PROJECT IDENTIFICATION**Task #: 03AState: ColoradoAbbreviation: NoneDate: 4/10/2023County: Rio BlancoFilename: M051-03aUser: ACYAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D7R DS Series II LGPHorsepower: 240Blade Type: StraightAttachment: 3-shank ripperShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$92.78	NA
Operating Cost/Hour:	\$79.33	100
Ripper own. Cost/Hour:	\$8.37	NA
Ripper op. Cost/Hour:	\$1.50	30
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: \$223.28Total Fleet Cost/Hour: \$223.28**MATERIAL QUANTITIES**Initial Volume: 4,907Swell factor: 1.215Loose volume: 5,962 LCYSource of estimated volume: 7.3 ac @ 5" of topsoilSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 250 feetUnadjusted hourly production: 230.4 LCY/hrMaterials consistency description: Partly consolidated stockpile 1.1Average push gradient: 15 %Average site altitude: 7,400 feetMaterial weight: 1,600 lbs/LCYWeight 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:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5246

Adjusted unit production: 120.87 LCY/hr

Adjusted fleet production: **120.87** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$1.847/LCY

Total job time: **49.33** Hours

Total job cost: **\$11,013**



**REVEGETATION WORK**Task description: Reveg affected landsSite: Collett PropertyPermit Action: New AppPermit/Job#: M2022051**PROJECT IDENTIFICATION**Task #: 04AState: ColoradoAbbreviation: NoneDate: 4/10/2023County: Rio BlancoFilename: M051-04aUser: ACYAgency or organization name: DRMS**FERTILIZING****Materials**

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

**Application**

Description	Cost /Acre
	\$
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$0.00</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
Indian Ricegrass - Native	3.70	11.98	\$24.05
Galleta	4.38	15.99	\$97.89
Needle and Thread	6.06	16.00	\$253.61
Western Wheatgrass - Native	5.52	13.94	\$33.12
Globemallow, Scarlet (or copper)	0.50	5.66	\$67.75
Basin Wildrye - Trailhead	6.06	24.62	\$93.38
<b>Totals Seed Mix</b>	<b>26.22</b>	<b>88.19</b>	<b>\$569.81</b>

**Application**

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

## MULCHING and MISCELLANEOUS

## Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$3.04	\$3.04
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$421.36	\$842.72
<b>Total Mulch Materials Cost/Acre</b>				<b>\$845.76</b>

## Application

Description	Cost /Acre
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

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:	7.3	Cost /Acre:	\$2,077.26
Estimated Failure Rate:	40%	Cost /Acre*:	\$1,960.08
*Selected Replanting Work Items:	SEEDING,MULCHING		
Initial Job Cost:	\$15,164.00		
Reseeding Job Cost:	\$5,723.43		
Total Job Cost:	\$20,887		
Job Hours:	12.00		

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Initial Mobilization**Site: **Collett Property**Permit Action: **New App**Permit/Job#: **M2022051****PROJECT IDENTIFICATION**Task #: **05A**State: **Colorado**Abbreviation: **None**Date: **4/10/2023**County: **Rio Blanco**Filename: **M051-05a**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 Series II LGP	38.49	\$101.15	\$101.82	1	\$202.97	\$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:					<b>\$360.45</b>	<b>\$238.26</b>	<b>\$750.00</b>

**ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 6x4, 45K GVW	\$82.19	1	\$82.19	\$82.19
Light Duty Pickup, 4x4, 1 T. Crew	\$51.98	1	\$51.98	\$51.98
Subtotals:			<b>\$134.17</b>	<b>\$134.17</b>

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: RIFLE, CO  
 Total one-way travel distance: 20.00 miles  
 Average Travel Speed: 55.00 mph

Total Non-Roadable Mob/Demob Cost \* \$2,656.33  
 \* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$97.58  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.36	0.36
Return Time (Hours):	0.36	0.36
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.73	0.73

**JOB TIME AND COST**

Total job time: 3.45 Hours

Total job cost: \$2,754

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Secondary Mobilization**Site: **Collett Property**Permit Action: **New App**Permit/Job#: **M2022051****PROJECT IDENTIFICATION**Task #: **05B**State: **Colorado**Abbreviation: **None**Date: **4/10/2023**County: **Rio Blanco**Filename: **M051-05b**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, 1 T. Crew	\$51.98	1	\$51.98	\$51.98
Subtotals:			<b>\$51.98</b>	<b>\$51.98</b>

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>RIFLE, CO</u>	
Total one-way travel distance:	<u>20.00</u>	miles
Average Travel Speed:	<u>55.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,528.72</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$37.80</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.36</u>	<u>0.36</u>
Return Time (Hours):	<u>0.36</u>	<u>0.36</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.73</u>	<u>0.73</u>

**JOB TIME AND COST**

Total job time:	<u>3.45</u>	Hours
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Total job cost:	<u>\$1,567</u>
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