



## COLORADO

### Division of Reclamation, Mining and Safety

Department of Natural Resources

1313 Sherman Street, Room 215  
Denver, CO 80203

October 30, 2020

Dennis Schneider  
Miners Mall, LLC  
3143 ½ Goldeneye Ave.  
Grand Junction CO 81504

**RE: Humming Bird Mine, File No. M-2017-035 , Amendment (AM-1) 110(1) Hard Rock Reclamation Permit, Application Adequacy Review 3**

Dear Mr. Schneider:

The Division of Reclamation, Mining and Safety (Division) is in the process of reviewing the above referenced. During review of the material submitted, the Division determined that the following issue(s) of concern shall be adequately addressed before the application can be considered for approval. **Red text indicates new items.**

#### Exhibit E

1. Reclamation Maps Per Rule 6.3.5(2) (b) - Indicate where vegetation (seeding) will not be established AND 6.3.5(2) (d) and (e) - By project area state the average depth of overburden and topsoil to be replaced.
  - a. **Acres for seeding are not uniform throughout the application. Maps submitted in response to Adequacy Review 2 question #17 have a text box that states 0.03 ac. On PAR-1 response #23 it states that 0.8 ac to be seeded and that there are 0.42 ac of project areas (disturbances). All areas disturbed by mining shall be reclaimed. Please ensure values provided throughout the application are consistent. If areas are to not be seeded include a justification.**

#### Exhibit L

**All 200 foot Rules are based on the DRMS 1 ac permit boundary. The 200 foot buffer depicted on maps in Exhibit E appear to be based off of the 3.35 ac BLM claim boundary. This may result in additional features being identified.**

2. Per Rule 6.3.12, Address any permanent man-made structure within two hundred (200) feet affected lands. If none exist explicitly state that.
  - a. Please provide the Division with documentation that Structure Agreements were sent.

**Proof of mailing to Villard, Yates, CDOT, and Grand Valley Power received. No completed agreements received to date.**



- b. where such an agreement cannot be reached, the applicant shall provide an appropriate engineering evaluation that demonstrates that such structure shall not be damaged by activities occurring at the mining operation.

The engineering evaluation letter completed by Dennis Schneider on October 28, 2020 in response to Adequacy review #2- Question 8 was inadequate. The letter only included cursory statements rather than an engineering evaluation and does not meet the requirements of Rule 6.3.12 or 6.5. The application shall demonstrate through appropriate geotechnical and stability analyses that structures will not be affected. Additionally per Rule 6.5(3) the applicant shall demonstrate that off-site damages will not occur and the appropriate factor of safety (FOS) will be maintained.

Specifically the Division is concerned about potential impacts to CO HWY-141 throughout the mining operation. The Division is committed to ensuring the safety of the public at all times. In lieu of a completed structure agreement an engineering evaluation completed by a licensed engineer shall be submitted which demonstrates that structures will not be affected.

#### Reclamation Cost Estimate

The Division has included its reclamation cost estimate. In general if land is affected by mining in any way it becomes the Operators responsibility to reclaimed. At the end of the calculation is a sheet summarizing input values and sources.

The Divisions calculation is significantly higher than the Operators proposed cost. In an effort to decrease liability, the Operator may wish to phase the operation or limit disturbances within each project area at any given time. The total project liability could remain the same but if less land is affected at any given time, less bond could be required.

This application has a decision date of November 2, 2020. Please request an extension to the decision date to allow for more time to continue to address adequacy issues.

If you require additional information, or have questions or concerns, please feel free to contact me.

Sincerely,



**Amy Yeldell**

Environmental Protection Specialist

Cc:

Travis Marshall, Senior EPS, Grand Junction DRMS

Eric Eckberg, BLM

## COST SUMMARY WORK

Task description: Update 2020 for AM-1

Site: Humming Bird Mine

Permit Action: AM-1

Permit/Job#: M2017035

### PROJECT IDENTIFICATION

Task #: ACY

State: Colorado

Abbreviation: None

Date: 10/28/2020

County: Mesa

Filename: M035-ACY

User: ACY

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

<b>Task</b>	<b>Description</b>	<b>Form Used</b>	<b>Fleet Size</b>	<b>Task Hours</b>	<b>Cost</b>
01a	Ridgetop Project-Place Rock in Pit	EXCAVATE	1	3.97	\$340
01b	Ridgetop Project-Place Soil in Pit	EXCAVATE	1	4.53	\$388
01c	Ridgetop Project-Reveg	REVEGE	1	8.00	\$1,918
01d	Ridgetop Project-Remove Safety Fence	DEMOLISH	1	8.00	\$269
02a	Siberia Project-Reveg	REVEGE	1	1.60	\$384
03a	Midway Project-Grade Rock Material	EXCAVATE	1	2.21	\$189
03b	Midway Project-Grade Soil Material	EXCAVATE	1	6.59	\$564
03c	Midway Project-Reveg	REVEGE	1	2.50	\$614
04a	Connector Project/Midway Portal-Reveg	REVEGE	1	1.00	\$77
05a	Purple Pipe Project-Reveg	REVEGE	1	1.00	\$77
06a	Unnamed Project-Reveg	REVEGE	1	1.00	\$153
07a	Site Wide-Public Safety Fence	DEMOLISH	1	16.00	\$1,718
07b	Fencing-Reveg	REVEGE	1	2.00	\$307
10a	Initial Mobilization	MOBILIZE	1	3.33	\$831
10b	Secondary Mobilization	MOBILIZE	1	0.66	\$53
<b><u>SUBTOTALS:</u></b>				<b>62.39</b>	<b>\$7,882</b>

**INDIRECT COSTS**

**OVERHEAD AND PROFIT:**

Liability insurance:	2.02	Total =	<u>\$159</u>
Performance bond:	1.05	Total =	<u>\$83</u>
Job superintendent:	0.00	Total =	<u>\$0</u>
Profit:	10.00	Total =	<u>\$788</u>
		TOTAL O & P =	<u>\$1,030</u>
		CONTRACT AMOUNT (direct + O & P) =	<u>\$8,912</u>

**LEGAL - ENGINEERING - PROJECT MANAGEMENT:**

Financial warranty processing (legal/related costs):	<u>\$0</u>	Total =	<u>\$0</u>
Engineering work and/or contract/bid preparation:	<u>0.00</u>	Total =	<u>\$0</u>
Reclamation management and/or administration:	<u>5.00</u>		<u>\$446</u>
CONTINGENCY:	0.00	Total =	<u>\$0</u>

TOTAL INDIRECT COST = \$1,476

**TOTAL BOND AMOUNT (direct + indirect) = \$9,358**

## HYDRAULIC EXCAVATOR WORK

Task description: Ridgetop Project-Place Rock in Pit

Site: Humming Bird Mine

Permit Action: AM-1

Permit/Job#: M2017035

### PROJECT IDENTIFICATION

Task #: 01A

State: Colorado

Abbreviation: None

Date: 10/29/2020

County: Mesa

Filename: M035-01a

User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 307D 7'-3" Stick

Horsepower: 56

Attachment 1: ROPS Cab

Weight (MT): 7.23

Shift Basis: 1 per day

Data Source: (CRG)

### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$19.99</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$18.64</u>	<u>100</u>
Operator Cost/Hour:	<u>\$46.87</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$85.51</u>	
Total Fleet Cost/Hour:	<u>\$85.51</u>	

### MATERIAL QUANTITIES

Initial volume: 225

CCY

Swell factor: 1.000

Loose volume: 225

LCY

Source of estimated volume: Rec Plan PAR-1

Source of estimated swell factor: Cat Handbook

### HOURLY PRODUCTION

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

Basic Job Condition Description: SEVERE

Secondary Job Condition within Basic Description: SEVERE

Cycle Time Value: 0.325 minutes

### Load Bucket Capacity

Bucket Size Class: Medium

Rated Capacity: 0.40 LCY (heaped)

Bucket Fill Factor: 1.025 Rock - Earth Mixture (100%-105%) 1.025

Adjusted Capacity: 0.41 LCY

### Job Condition Correction Factors

Site Altitude: 6100 feet

		Source
Altitude Adj:	<u>0.90</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.75</u>	<u>multiplier</u>

Unadjusted Hourly Unit Production: 75.69 LCY/Hour

Adjusted Hourly Unit Production: 56.54 LCY/Hour

Adjusted Hourly Fleet Production: 56.54 LCY/Hour

### JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 3.98 Hours

Unit cost: \$1.512 /LCY Total job cost: \$340

## HYDRAULIC EXCAVATOR WORK

Task description: Ridgetop Project-Place Soil in Pit

Site: Humming Bird Mine

Permit Action: AM-1

Permit/Job#: M2017035

### PROJECT IDENTIFICATION

Task #: 01B

State: Colorado

Abbreviation: None

Date: 10/29/2020

County: Mesa

Filename: M035-01b

User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 307D 7'-3" Stick

Horsepower: 56

Attachment 1: ROPS Cab

Weight (MT): 7.23

Shift Basis: 1 per day

Data Source: (CRG)

### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$19.99</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$18.64</u>	<u>100</u>
Operator Cost/Hour:	<u>\$46.87</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$85.51</u>	
Total Fleet Cost/Hour:	<u>\$85.51</u>	

### MATERIAL QUANTITIES

Initial volume: 275

CCY

Swell factor: 1.000

Loose volume: 275

LCY

Source of estimated volume: Rec Plan PAR-1

Source of estimated swell factor: Cat Handbook

### HOURLY PRODUCTION

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

Basic Job Condition Description: SEVERE

Secondary Job Condition within Basic Description: SEVERE

Cycle Time Value: 0.325 minutes

### Load Bucket Capacity

Bucket Size Class: Medium

Rated Capacity: 0.40 LCY (heaped)

Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100

Adjusted Capacity: 0.44 LCY

### Job Condition Correction Factors

Site Altitude: 6100 feet

		Source
Altitude Adj:	<u>0.90</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.75</u>	<u>multiplier</u>

Unadjusted Hourly Unit Production: 81.23 LCY/Hour

Adjusted Hourly Unit Production: 60.68 LCY/Hour

Adjusted Hourly Fleet Production: 60.68 LCY/Hour

### JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 4.53 Hours

Unit cost: \$1.409 /LCY Total job cost: \$388

REVEGETATION WORKTask description: Ridgetop Project-RevegSite: Humming Bird MinePermit Action: AM-1Permit/Job#: M2017035PROJECT IDENTIFICATIONTask #: 01CState: ColoradoAbbreviation: NoneDate: 10/28/2020County: MesaFilename: M035-01cUser: ACYAgency or organization name: DRMSFERTILIZING**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
Hand raking (MEANS 32 91 13.23 0250)	\$1,459.26
<b>Total Tilling Cost/Acre</b>	<b>\$1,459.26</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.70	11.98	\$41.16
Galleta	4.38	15.99	\$97.89
Western Wheatgrass - Arriba	5.52	13.94	\$35.88
Needle and Thread	6.06	16.00	\$253.61
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>\$589.68</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
Straw, delivered {MEANS 31 25 14.16 1200}	0.50	TON	\$301.00	\$150.50
<b>Total Mulch Materials Cost/Acre</b>				<b>\$150.50</b>

**Application**

Description	Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)	\$3,436.40
<b>Total Mulch Application Cost/Acre</b>	<b>\$3,436.40</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres: 0.25 Cost /Acre: \$5,903.06  
 Estimated Failure Rate: 30% Cost /Acre\*: \$5,903.06  
 \*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$1,475.77  
 Reseeding Job Cost: \$442.73  
 Total Job Cost: \$1,918  
 Job Hours: 8.00



DEMOLITION WORK

Task description: Ridgetop Project-Remove Safety Fence

Site: Humming Bird Mine Permit Action: AM-1 Permit/Job#: M2017035

**PROJECT IDENTIFICATION**

Task #: 01D State: Colorado Abbreviation: None  
Date: 10/29/2020 County: Mesa Filename: M035-01d  
User: ACY

Agency or organization name: DRMS

**UNIT COSTS**

**Location adjustment: 90.70 %**

<b>Structure or Item Description</b>	<b>Dimensions</b>	<b>Demolition Menu Selection</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Total Cost</b>
Safety Fence 1	116 LF	Fencing, barbed wire, - 3 strand	116.00	LF	\$1.57	\$182.12
Safety Fence 2	73 LF	Fencing, barbed wire, - 3 strand	73.00	LF	\$1.57	\$114.61

**Job Hours:** 8.00                      **Subtotal (unadjusted):** \$296.73                      **Total Cost (adjusted for location):** \$269.13

REVEGETATION WORKTask description: Siberia Project-RevegSite: Humming Bird MinePermit Action: AM-1Permit/Job#: M2017035PROJECT IDENTIFICATIONTask #: 02AState: ColoradoAbbreviation: NoneDate: 10/29/2020County: MesaFilename: M035-02aUser: ACYAgency or organization name: DRMSFERTILIZING**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
Hand raking (MEANS 32 91 13.23 0250)	\$1,459.26
<b>Total Tilling Cost/Acre</b>	<b>\$1,459.26</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.70	11.98	\$41.16
Galleta	4.38	15.99	\$97.89
Western Wheatgrass - Arriba	5.52	13.94	\$35.88
Needle and Thread	6.06	16.00	\$253.61
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>\$589.68</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
Straw, delivered {MEANS 31 25 14.16 1200}	0.50	TON	\$301.00	\$150.50
<b>Total Mulch Materials Cost/Acre</b>				<b>\$150.50</b>

**Application**

Description	Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)	\$3,436.40
<b>Total Mulch Application Cost/Acre</b>	<b>\$3,436.40</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres: 0.05 Cost /Acre: \$5,903.06  
 Estimated Failure Rate: 30% Cost /Acre\*: \$5,903.06  
 \*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$295.15**  
 Reseeding Job Cost: **\$88.55**  
 Total Job Cost: **\$384**  
 Job Hours: **1.60**

## HYDRAULIC EXCAVATOR WORK

Task description: Midway Project-Grade Rock Material

Site: Humming Bird Mine

Permit Action: AM-1

Permit/Job#: M2017035

### PROJECT IDENTIFICATION

Task #: 03A

State: Colorado

Abbreviation: None

Date: 10/29/2020

County: Mesa

Filename: M035-03a

User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 307D 7'-3" Stick

Horsepower: 56

Attachment 1: ROPS Cab

Weight (MT): 7.23

Shift Basis: 1 per day

Data Source: (CRG)

### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$19.99</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$18.64</u>	<u>100</u>
Operator Cost/Hour:	<u>\$46.87</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$85.51</u>	
Total Fleet Cost/Hour:	<u>\$85.51</u>	

### MATERIAL QUANTITIES

Initial volume: 125

CCY

Swell factor: 1.000

Loose volume: 125

LCY

Source of estimated volume: Rec Plan PAR-1

Source of estimated swell factor: Cat Handbook

### HOURLY PRODUCTION

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

Basic Job Condition Description: SEVERE

Secondary Job Condition within Basic Description: SEVERE

Cycle Time Value: 0.325 minutes

### Load Bucket Capacity

Bucket Size Class: Medium

Rated Capacity: 0.40 LCY (heaped)

Bucket Fill Factor: 1.025 Rock - Earth Mixture (100%-105%) 1.025

Adjusted Capacity: 0.41 LCY

### Job Condition Correction Factors

Site Altitude: 6100 feet

		Source
Altitude Adj:	<u>0.90</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.75</u>	<u>multiplier</u>

Unadjusted Hourly Unit Production: 75.69 LCY/Hour

Adjusted Hourly Unit Production: 56.54 LCY/Hour

Adjusted Hourly Fleet Production: 56.54 LCY/Hour

### JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 2.21 Hours

Unit cost: \$1.512 /LCY Total job cost: \$189

## HYDRAULIC EXCAVATOR WORK

Task description: Midway Project-Grade Soil Material

Site: Humming Bird Mine Permit Action: AM-1 Permit/Job#: M2017035

### PROJECT IDENTIFICATION

Task #: 03B State: Colorado Abbreviation: None  
Date: 10/29/2020 County: Mesa Filename: M035-03b  
User: ACY

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 307D 7'-3" Stick Horsepower: 56  
Attachment 1: ROPS Cab Weight (MT): 7.23  
Shift Basis: 1 per day  
Data Source: (CRG)

### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$19.99</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$18.64</u>	<u>100</u>
Operator Cost/Hour:	<u>\$46.87</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$85.51</u>	
Total Fleet Cost/Hour:	<u>\$85.51</u>	

### MATERIAL QUANTITIES

Initial volume: 400 CCY Swell factor: 1.000  
Loose volume: 400 LCY

Source of estimated volume: Rec Plan PAR-1, Staff estimates 0.08ac @ 3ft  
Source of estimated swell factor: Cat Handbook

### HOURLY PRODUCTION

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

Basic Job Condition Description: SEVERE  
Secondary Job Condition within Basic Description: SEVERE  
Cycle Time Value: 0.325 minutes

### Load Bucket Capacity

Rated Capacity: 0.40 LCY (heaped) Bucket Size Class: Medium  
Bucket Fill Factor: 1.100 Other - rock/dirt mixtures (100-120%) 1.100  
Adjusted Capacity: 0.44 LCY

### Job Condition Correction Factors

Site Altitude: 6100 feet

		Source
Altitude Adj:	<u>0.90</u>	<u>(CAT HB)</u>
Job Efficiency:	<u>0.83</u>	<u>(1 shift/day)</u>
Net Correction:	<u>0.75</u>	<u>multiplier</u>

Unadjusted Hourly Unit Production: 81.23 LCY/Hour  
Adjusted Hourly Unit Production: 60.68 LCY/Hour  
Adjusted Hourly Fleet Production: 60.68 LCY/Hour

### JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 6.59 Hours  
Unit cost: \$1.409 /LCY Total job cost: \$564

REVEGETATION WORKTask description: Midway Project-RevegSite: Humming Bird MinePermit Action: AM-1Permit/Job#: M2017035PROJECT IDENTIFICATIONTask #: 03CState: ColoradoAbbreviation: NoneDate: 10/29/2020County: MesaFilename: M035-03cUser: ACYAgency or organization name: DRMSFERTILIZING**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
Hand raking (MEANS 32 91 13.23 0250)	\$1,459.26
<b>Total Tilling Cost/Acre</b>	<b>\$1,459.26</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.70	11.98	\$41.16
Galleta	4.38	15.99	\$97.89
Western Wheatgrass - Arriba	5.52	13.94	\$35.88
Needle and Thread	6.06	16.00	\$253.61
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>\$589.68</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
Straw, delivered {MEANS 31 25 14.16 1200}	0.50	TON	\$301.00	\$150.50
<b>Total Mulch Materials Cost/Acre</b>				<b>\$150.50</b>

**Application**

Description	Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)	\$3,436.40
<b>Total Mulch Application Cost/Acre</b>	<b>\$3,436.40</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres:	0.08	Cost /Acre:	\$5,903.06
Estimated Failure Rate:	30%	Cost /Acre*:	\$5,903.06
*Selected Replanting Work Items:	TILLING,SEEDING,MULCHING		
Initial Job Cost:	<b>\$472.24</b>		
Reseeding Job Cost:	<b>\$141.67</b>		
Total Job Cost:	<b>\$614</b>		
Job Hours:	<b>2.50</b>		

REVEGETATION WORKTask description: Connector Project/Midway Portal-RevegSite: Humming Bird MinePermit Action: AM-1Permit/Job#: M2017035PROJECT IDENTIFICATIONTask #: 04AState: ColoradoAbbreviation: NoneDate: 10/29/2020County: MesaFilename: M035-04aUser: ACYAgency or organization name: DRMSFERTILIZING**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
Hand raking (MEANS 32 91 13.23 0250)	\$1,459.26
<b>Total Tilling Cost/Acre</b>	<b>\$1,459.26</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.70	11.98	\$41.16
Galleta	4.38	15.99	\$97.89
Western Wheatgrass - Arriba	5.52	13.94	\$35.88
Needle and Thread	6.06	16.00	\$253.61
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>\$589.68</b>

**Application**



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

**MULCHING and MISCELLANEOUS**

**Materials**

<b>Description</b>	<b>Units / Acre</b>	<b>Unit</b>	<b>Cost / Unit</b>	<b>Cost /Acre</b>
Straw, delivered {MEANS 31 25 14.16 1200}	0.50	TON	\$301.00	\$150.50
<b>Total Mulch Materials Cost/Acre</b>				<b>\$150.50</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>
Hand spread, 1" deep (MEANS 32 91 13.16 0200)	\$3,436.40
<b>Total Mulch Application Cost/Acre</b>	<b>\$3,436.40</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: 0.01 Cost /Acre: \$5,903.06  
 Estimated Failure Rate: 30% Cost /Acre\*: \$5,903.06  
 \*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: **\$59.03**  
 Reseeding Job Cost: **\$17.71**  
 Total Job Cost: **\$77**  
 Job Hours: **1.00**

REVEGETATION WORKTask description: Purple Pipe Project-RevegSite: Humming Bird MinePermit Action: AM-1Permit/Job#: M2017035PROJECT IDENTIFICATIONTask #: 05AState: ColoradoAbbreviation: NoneDate: 10/29/2020County: MesaFilename: M035-05aUser: ACYAgency or organization name: DRMSFERTILIZING**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
Hand raking (MEANS 32 91 13.23 0250)	\$1,459.26
<b>Total Tilling Cost/Acre</b>	<b>\$1,459.26</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.70	11.98	\$41.16
Galleta	4.38	15.99	\$97.89
Western Wheatgrass - Arriba	5.52	13.94	\$35.88
Needle and Thread	6.06	16.00	\$253.61
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>\$589.68</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
Straw, delivered {MEANS 31 25 14.16 1200}	0.50	TON	\$301.00	\$150.50
<b>Total Mulch Materials Cost/Acre</b>				<b>\$150.50</b>

**Application**

Description	Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)	\$3,436.40
<b>Total Mulch Application Cost/Acre</b>	<b>\$3,436.40</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres: 0.01 Cost /Acre: \$5,903.06  
 Estimated Failure Rate: 30% Cost /Acre\*: \$5,903.06  
 \*Selected Replanting Work Items: TILLING,SEEDING,MULCHING

Initial Job Cost: \$59.03  
 Reseeding Job Cost: \$17.71  
 Total Job Cost: \$77  
 Job Hours: 1.00

REVEGETATION WORKTask description: Unnamed Project-RevegSite: Humming Bird MinePermit Action: AM-1Permit/Job#: M2017035PROJECT IDENTIFICATION

Task #: 06A State: Colorado Abbreviation: None  
 Date: 10/29/2020 County: Mesa Filename: M035-06a  
 User: ACY

Agency or organization name: DRMSFERTILIZING**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
Hand raking (MEANS 32 91 13.23 0250)	\$1,459.26
<b>Total Tilling Cost/Acre</b>	<b>\$1,459.26</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.70	11.98	\$41.16
Galleta	4.38	15.99	\$97.89
Western Wheatgrass - Arriba	5.52	13.94	\$35.88
Needle and Thread	6.06	16.00	\$253.61
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>\$589.68</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
Straw, delivered {MEANS 31 25 14.16 1200}	0.50	TON	\$301.00	\$150.50
<b>Total Mulch Materials Cost/Acre</b>				<b>\$150.50</b>

**Application**

Description	Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)	\$3,436.40
<b>Total Mulch Application Cost/Acre</b>	<b>\$3,436.40</b>

**NURSERY STOCK PLANTING**

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

**JOB TIME AND COST**

No. of Acres:	0.02	Cost /Acre:	\$5,903.06
Estimated Failure Rate:	30%	Cost /Acre*:	\$5,903.06
*Selected Replanting Work Items:	TILLING,SEEDING,MULCHING		
Initial Job Cost:	<b>\$118.06</b>		
Reseeding Job Cost:	<b>\$35.42</b>		
Total Job Cost:	<b>\$153</b>		
Job Hours:	<b>1.00</b>		

DEMOLITION WORK

Task description: Site Wide-Public Safety Fence

Site: Humming Bird Mine Permit Action: AM-1 Permit/Job#: M2017035

**PROJECT IDENTIFICATION**

Task #: 07A State: Colorado Abbreviation: None  
Date: 10/29/2020 County: Mesa Filename: M035-07a  
User: ACY

Agency or organization name: DRMS

**UNIT COSTS**

**Location adjustment: 90.70 %**

<b>Structure or Item Description</b>	<b>Dimensions</b>	<b>Demolition Menu Selection</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Total Cost</b>
Upper Fence	498 LF	Fencing, barbed wire, - 3 strand	498.00	LF	\$1.57	\$781.86
Lower Fence	204 LF	Fencing, barbed wire, - 3 strand	204.00	LF	\$1.57	\$320.28
Disposal of fence-All	1325 LF	Dump fees - Building construction materials.	10.00	CY	\$11.10	\$111.00
New SW Public Fence	288 LF	Fencing, barbed wire, - 3 strand	288.00	LF	\$1.57	\$452.16
New SE Public Fence	146 LF	Fencing, barbed wire, - 3 strand	146.00	LF	\$1.57	\$229.22

**Job Hours:** 16.00      **Subtotal (unadjusted):** \$1,894.52      **Total Cost (adjusted for location):** \$1,718.33

REVEGETATION WORKTask description: Fencing-RevegSite: Humming Bird MinePermit Action: AM-1Permit/Job#: M2017035PROJECT IDENTIFICATION

Task #: 07B State: Colorado Abbreviation: None  
 Date: 10/29/2020 County: Mesa Filename: M035-07b  
 User: ACY

Agency or organization name: DRMSFERTILIZING**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
Hand raking (MEANS 32 91 13.23 0250)	\$1,459.26
<b>Total Tilling Cost/Acre</b>	
	<b>\$1,459.26</b>

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	3.70	11.98	\$41.16
Galleta	4.38	15.99	\$97.89
Western Wheatgrass - Arriba	5.52	13.94	\$35.88
Needle and Thread	6.06	16.00	\$253.61
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>\$589.68</b>

**Application**

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

**MULCHING and MISCELLANEOUS**

**Materials**

<b>Description</b>	<b>Units / Acre</b>	<b>Unit</b>	<b>Cost / Unit</b>	<b>Cost /Acre</b>
Straw, delivered {MEANS 31 25 14.16 1200}	0.50	TON	\$301.00	\$150.50
<b>Total Mulch Materials Cost/Acre</b>				<b>\$150.50</b>

**Application**

<b>Description</b>	<b>Cost /Acre</b>	
Hand spread, 1" deep (MEANS 32 91 13.16 0200)	\$3,436.40	
<b>Total Mulch Application Cost/Acre</b>		<b>\$3,436.40</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:	<u>0.04</u>	Cost /Acre:	<u>\$5,903.06</u>
Estimated Failure Rate:	<u>30%</u>	Cost /Acre*:	<u>\$5,903.06</u>
*Selected Replanting Work Items:	<u>TILLING,SEEDING,MULCHING</u>		
Initial Job Cost:	<u>\$236.12</u>		
Reseeding Job Cost:	<u>\$70.84</u>		
Total Job Cost:	<u>\$307</u>		
Job Hours:	<u>2.00</u>		



EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Initial MobilizationSite: Humming Bird MinePermit Action: AM-1Permit/Job#: M2017035PROJECT IDENTIFICATION

Task #: 10A State: Colorado Abbreviation: None  
 Date: 10/29/2020 County: Mesa Filename: M035-10a  
 User: ACY

Agency or organization name: DRMSEQUIPMENT 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:

<u>Available Rig Capacities</u>	<u>0-25 Tons</u>	<u>26-50 Tons</u>	<u>51+ Tons</u>
Ownership Cost/Hour:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

NON ROADABLE EQUIPMENT:

<u>Machine Description</u>	<u>Weight/ Unit (TONS)</u>	<u>Owner ship Cost/hr/ unit</u>	<u>Haul Rig Cost/hr/unit</u>	<u>Fleet Size</u>	<u>Haul Trip Cost/hr/ fleet</u>	<u>Return Trip Cost/hr/ fleet</u>	<u>DOT Permit Cost/ fleet</u>
Cat 307D 7'-3" Stick	7.95	\$19.99	\$67.39	1	\$87.38	\$67.39	\$250.00

Subtotals: **\$87.38** **\$67.39** **\$250.00**ROADABLE EQUIPMENT:

<u>Machine Description</u>	<u>Total Cost/hr/ unit</u>	<u>Fleet Size</u>	<u>Haul Trip Cost/hr/ fleet</u>	<u>Return Trip Cost/hr/ fleet</u>
Flatbed Truck, 4x2, 15K GVW	\$79.68	1	\$79.68	\$79.68

Subtotals: **\$79.68** **\$79.68**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: GRAND JUNCTION  
 Total one-way travel distance: 15.00 miles  
 Average Travel Speed: 45.00 mph

Total Non-Roadable Mob/Demob Cost \* \$777.94  
 \* \* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$53.12  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.33	0.33
Return Time (Hours):	0.33	0.33
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.67	0.67

**JOB TIME AND COST**

Total job time: 3.33 Hours

Total job cost: \$831

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: Secondary MobilizationSite: Humming Bird MinePermit Action: AM-1Permit/Job#: M2017035**PROJECT IDENTIFICATION**Task #: 10BState: ColoradoAbbreviation: NoneDate: 10/29/2020County: MesaFilename: M035-10bUser: ACYAgency or organization name: DRMS**EQUIPMENT TRANSPORT RIG COST**Shift basis: 1 per dayCost Data Source: CRG DataTruck 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:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

**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
Subtotals:							
					<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>

**ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 15K GVW	\$79.68	1	\$79.68	\$79.68
Subtotals:			<b>\$79.68</b>	<b>\$79.68</b>

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region: GRAND JUNCTION  
 Total one-way travel distance: 15.00 miles  
 Average Travel Speed: 45.00 mph

Total Non-Roadable Mob/Demob Cost \* \$0.00  
 \* \* two round trips with haul rig:  
 Total Roadable Mob/Demob Cost \*\* \$53.12  
 \*\* one round trip, no haul rig:

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.33	0.33
Return Time (Hours):	0.33	0.33
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.67	0.67

**JOB TIME AND COST**

Total job time: 0.67 Hours

Total job cost: \$53



October 30, 2020

***RE: Hummingbird Mine, Permit No. M-207-035, AM-1 Reclamation Cost Estimate***

Dear Mr. Schneider:

This reclamation cost update was in response to the amendment application (AM-1) which was submitted on August 25, 2020 and a previous site inspection conducted on October 20, 2020. There have been no surety increases since the permit issuance in 2017. 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.

Below is a table summarizing input values that have been updated in AM-1. 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 permit.

<b>Task</b>	<b>Form Used</b>	<b>Description</b>
01a	Excavate	Ridgetop Project- Place rock in Pit PAR Rec Plan states 225 CY of waste rock stockpiled
01b	Excavate	Ridgetop Project- Place Soil in Pit PAR Rec Plan states 275 CY of soil material stockpiled
01c	Reveg	Ridgetop Project – Reveg PAR Question 23, actual disturbance is 0.25 ac per PAR Mine Plan 30% failure, Hand rake (rip), Broadcast (hand seed), mulch spread by hand 1”
01d	Demo	Ridgetop Project – Remove Safety Fence Per PAR Mine Map (and provided KML link) upper/west fence 116 LF and lower/east fence 73 LF.



		No option for smooth wire in CIRCES, used available 3 wire option. Off-site disposal under task 07a
02a	Reveg	Siberia Project – Reveg PAR Question 23, actual disturbance is 0.05 ac per PAR Mine Plan (portal and support area) 30 % failure, Hand rake (rip), Broadcast (hand seed), mulch spread by hand 1”
03a	Excavate	Midway Project – Grade Rock Material PAR Rec Plan states 125 CY of waste rock stockpiled, roughly equal to 0.08 ac @ 1 ft
03b	Excavate	Midway Project – Grade Soil Material PAR Rec Plan states 750 CY of soil material stockpiled, Used 400 CY (0.08 ac @ 3 ft) realistically needed to contour site
03c	Reveg	Midway Project – Reveg PAR Question 23, actual disturbance is 0.08 ac per PAR Mine Plan 30 % failure, Hand rake (rip), Broadcast (hand seed), mulch spread by hand 1”
04a	Reveg	Connector Project / Midway Portal – Reveg PAR Question 23, actual disturbance is 0.01 ac per PAR Mine Plan 30 % failure, Hand rake (rip), Broadcast (hand seed), mulch spread by hand 1”
05a	Reveg	Purple Pipe Project – Reveg PAR Question 23, actual disturbance is 0.01 ac per PAR Mine Plan 30 % failure, Hand rake (rip), Broadcast (hand seed), mulch spread by hand 1”
06a	Reveg	Unnamed Project – Reveg PAR Question 23, actual disturbance is 0.02 ac per PAR Mine Plan 30 % failure, Hand rake (rip), Broadcast (hand seed), mulch spread by hand 1”
07a	Demo	Site Wide – Public Safety Fence Per adequacy response #2. Upper fence 498 LF, lower fence 204 LF, New SW public safety fence 288 LF, New SE public safety fence 146 LF.

		Disposal of all fencing 1325 LF, volume approx. 10 CY dump fee only
07b	Reveg	Site Wide – Fencing Reveg Per adequacy response #2, 1250 LF, 18” wide, fence affects 0.04 ac
10a	Mob	Initial Mobilization CAT 307 used for grading work. All reclamation work is by hand. Flatbed truck to bring supplies to and form site
10b	Mob	Secondary Mobilization For reclamation failure work only. All reclamation work is by hand. Flatbed truck to bring supplies to and form site
Indirect Costs		DRMS Standard Overhead Costs: Liability insurance, performance bond, profit and administration No Job supervisor on 110. No engineering required, cash bond.

Please feel free to contact me with any further questions. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 303-866-3567 Ext 8183 or via email at amy.yeldell@state.co.us

Sincerely,



**Amy Yeldell**  
Environmental Protection Specialist

Ec:  
Travis Marshall, Senior EPS, Grand Junction DRMS  
Eric Ekberg, BLM