



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

February 27, 2024

Franchesca R. Mallonee  
High Flume Gravel Pit, Inc.  
9755 CR 213  
Durango, CO 81303

**Re: High Flume Gravel Pit - File No. M-1990-093**  
**High Flume Gravel Pit, Inc.**  
**Surety Increase (SI-1)**

Dear Franchesca R. Mallonee:

On February 27, 2024 the Division of Reclamation, Mining and Safety increased the Financial Warranty requirement for this permit to \$202,646.00, in accordance with Rule 4.2.1 of the Rules and Regulations. **This is an increase of \$130,001.**

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, is due within 60 days from the date of this letter (February 27, 2024).

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.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit after April 27, 2024, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$72,645.00
Prior Liability:	\$72,645.00
Change in Liability:	\$130,001.00
Revised Liability:	\$202,646.00
Prior Permit Acreage:	43.06



Change in Permit Acreage:	0.00
Revised Permit Acreage:	43.06
Prior Affected Acreage:	11.77
Change in Affected Acreage:	0.00
Revised Affected Acreage:	11.77

If you have any questions, please contact me by telephone at (303) 866-3567 x 8188, or by email at [Dustin.czapla@state.co.us](mailto:Dustin.czapla@state.co.us).

Sincerely,



Dustin M. Czapla  
Environmental Protection Specialist

January 25, 2024

Franchesca Mallonee  
High Flume Gravel Pit, Inc.  
9755 CR 213  
Durango, CO 81303



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

1313 Sherman Street, Room 215  
Denver, CO 80203

***RE: High Flume Gravel Pit, Permit # M-1990-093, Reclamation Costs Update***

Dear Operator:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed) for this site. Division calculations estimate the cost to reclaim the site to be \$202,646.00. This is an increase of \$130,001.00 over the \$72,645.00 currently held by the Division.

Within 15 days, please review the attached estimate and notify me if any calculation errors are noted.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Dustin Czapla".

***Dustin Czapla***  
Environmental Protection Specialist  
Division of Reclamation, Mining and Safety  
Phone: (303) 866-3567, ext. 8188



## COST SUMMARY WORK

Task description: 2024-01-23 Update

Site: High Flume Gravel Pit

Permit Action: 2024-01-23 Update

Permit/Job#: M1990093

### PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 1/23/2024

County: La Plata

Filename: M093-000

User: DMC

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Backfill 150' of Phase 1 highwall	DOZER	1	79.59	\$35,207
02a	Cut & Fill reduction of Phase 1 highwall	DOZER	1	44.38	\$19,633
03a	Regrade Phase 2 area to slight grade toward pit	DOZER	1	24.33	\$10,762
04a	Remove gravel surface from stockpile area and rip surface	DOZER	1	3.42	\$1,584
05a	Replace Topsoil on Phase 1 area	DOZER	1	9.72	\$4,298
06a	Replace Topsoil on Phase 2 area	DOZER	1	7.02	\$3,106
07a	Rip topsoil under gravel storage area prior to revegetation	RIPPER	1	3.17	\$1,493
08a	Revegetation	REVEGE	1	15.00	\$86,159
09a	Mobilize/Demobilize	MOBILIZE	1	3.60	\$2,550
<b><u>SUBTOTALS:</u></b>				<b>190.23</b>	<b>\$164,792</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance: 2.02  
Performance bond: 1.05  
Job superintendent: 95.11  
Profit: 10.00

Total = \$3,329

Total = \$1,730

Total = \$6,190

Total = \$16,479

TOTAL O & P = \$27,728

CONTRACT AMOUNT (direct + O & P) = \$192,520

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$9,626

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$37,854

**TOTAL BOND AMOUNT (direct + indirect) = \$202,646**

**BULLDOZER WORK**Task description: **Backfill 150' of Phase 1 highwall**Site: **High Flume Gravel Pit** Permit Action: **2024-01-23 Update** Permit/Job#: **M1990093****PROJECT IDENTIFICATION**

Task #: **01A** State: **Colorado** Abbreviation: **None**  
 Date: **1/23/2024** County: **La Plata** Filename: **M093-01a**  
 User: **DMC**

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

Basic Machine: **Cat D9T - 9SU**  
 Horsepower: **405**  
 Blade Type: **Semi-Universal**  
 Attachment: **NA**  
 Shift Basis: **1 per day**  
 Data Source: **(CRG)**

**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper own. Cost/Hour:	\$0.00	NA
Ripper op. Cost/Hour:	\$0.00	0
Operator Cost/Hour:	\$41.30	NA

Total unit Cost/Hour: **\$442.35**  
 Total Fleet Cost/Hour: **\$442.35**

**MATERIAL QUANTITIES**

Initial Volume: **30,000**  
 Swell factor: **1.110**  
 Loose volume: **33,300 LCY**

Source of estimated volume: **Division of Reclamation, Mining & Safety**  
 Source of estimated swell factor: **Cat Handbook**

**HOURLY PRODUCTION**

Average push distance: **200 feet**  
 Unadjusted hourly production: **700.0 LCY/hr**

Materials consistency description: **Partly consolidated stockpile 1.1**

Average push gradient: **-15 %**  
 Average site altitude: **6,500 feet**

Material weight: **2,800 lbs/LCY**Weight description: **Clay - Natural bed****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	(SSD-AC)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.821	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5977

Adjusted unit production: 418.39 LCY/hr

Adjusted fleet production: **418.39** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$1.057/LCY

Total job time: **79.59** Hours

Total job cost: **\$35,207**

**BULLDOZER WORK**Task description: Cut & Fill reduction of Phase 1 highwallSite: High Flume Gravel Pit Permit Action: 2024-01-23 Update Permit/Job#: M1990093**PROJECT IDENTIFICATION**

Task #: 02A State: Colorado Abbreviation: None  
 Date: 1/23/2024 County: La Plata Filename: M093-02a  
 User: DMC

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

Basic Machine: Cat D9T - 9SU  
 Horsepower: 405  
 Blade Type: Semi-Universal  
 Attachment: NA  
 Shift Basis: 1 per day  
 Data Source: (CRG)

**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$238.76</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$162.29</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour: \$442.35  
 Total Fleet Cost/Hour: \$442.35

**MATERIAL QUANTITIES**

Initial Volume: 32,500  
 Swell factor: 1.180  
 Loose volume: **38,350** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety  
 Source of estimated swell factor: Cat Handbook

**HOURLY PRODUCTION**

Average push distance: 75 feet  
 Unadjusted hourly production: 1,514.3 LCY/hr

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient: -15 %  
 Average site altitude: 6,500 feet

Material weight: 2,400 lbs/LCYWeight description: Clay and gravel - Dry

<u>Job Condition Correction Factor</u>	<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	(SSD-AC)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5706

Adjusted unit production: 864.06 LCY/hr

Adjusted fleet production: **864.06** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.512/LCY

Total job time: **44.38** Hours

Total job cost: **\$19,633**



**BULLDOZER WORK**Task description: Regrade Phase 2 area to slight grade toward pitSite: High Flume Gravel Pit Permit Action: 2024-01-23 Update Permit/Job#: M1990093**PROJECT IDENTIFICATION**

Task #:	<u>03A</u>	State:	<u>Colorado</u>	Abbreviation:	<u>None</u>
Date:	<u>1/23/2024</u>	County:	<u>La Plata</u>	Filename:	<u>M093-03a</u>
User:	<u>DMC</u>				

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

Basic Machine:	<u>Cat D9T - 9SU</u>
Horsepower:	<u>405</u>
Blade Type:	<u>Semi-Universal</u>
Attachment:	<u>NA</u>
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$238.76</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$162.29</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>0</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour:	<u>\$442.35</u>
Total Fleet Cost/Hour:	<u><b>\$442.35</b></u>

**MATERIAL QUANTITIES**

Initial Volume:	<u>15,488</u>
Swell factor:	<u>1.220</u>
Loose volume:	<u><b>18,895 LCY</b></u>

Source of estimated volume:	<u>Division of Reclamation, Mining &amp; Safety</u>
Source of estimated swell factor:	<u>Cat Handbook</u>

**HOURLY PRODUCTION**

Average push distance:	<u>50 feet</u>
Unadjusted hourly production:	<u>2,110.5 LCY/hr</u>

Materials consistency description: Compacted fill or embankment 0.9

Average push gradient:	<u>0 %</u>
Average site altitude:	<u>6,500 feet</u>

Material weight: 2,800 lbs/LCYWeight description: Clay - Natural bed

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

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.821	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3680

Adjusted unit production: 776.66 LCY/hr

Adjusted fleet production: 776.66 LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.570/LCY

Total job time: 24.33 Hours

Total job cost: \$10,762

**BULLDOZER WORK**Task description: Remove gravel surface from stockpile area and rip surfaceSite: High Flume Gravel Pit Permit Action: 2024-01-23 Update Permit/Job#: M1990093**PROJECT IDENTIFICATION**

Task #: 04A State: Colorado Abbreviation: None  
 Date: 1/23/2024 County: La Plata Filename: M093-04a  
 User: DMC

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

Basic Machine: Cat D9T - 9SU  
 Horsepower: 405  
 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>\$238.76</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$162.29</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$18.32</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$2.25</u>	<u>25</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour: \$462.92  
 Total Fleet Cost/Hour: **\$462.92**

**MATERIAL QUANTITIES**

Initial Volume: 3,791  
 Swell factor: 1.000  
 Loose volume: **3,791** LCY

Source of estimated volume: Division of Reclamation, Mining & Safety  
 Source of estimated swell factor: Cat Handbook

**HOURLY PRODUCTION**

Average push distance: 50 feet  
 Unadjusted hourly production: 2,110.5 LCY/hr

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient: 0 %  
 Average site altitude: 6,500 feet

Material weight: 2,400 lbs/LCYWeight description: Clay and gravel - Dry

<u>Job Condition Correction Factor</u>	<u>Source</u>
Operator Skill: <u>0.750</u>	<u>(AVG.)</u>
Material consistency: <u>1.100</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	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5248

Adjusted unit production: 1,107.59 LCY/hr

Adjusted fleet production: **1107.59** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.418/LCY

Total job time: **3.42** Hours

Total job cost: **\$1,584**

**BULLDOZER WORK**Task description: Replace Topsoil on Phase 1 areaSite: High Flume Gravel Pit Permit Action: 2024-01-23 Update Permit/Job#: M1990093**PROJECT IDENTIFICATION**

Task #:	<u>05A</u>	State:	<u>Colorado</u>	Abbreviation:	<u>None</u>
Date:	<u>1/23/2024</u>	County:	<u>La Plata</u>	Filename:	<u>M093-05a</u>
User:	<u>DMC</u>				

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

Basic Machine:	<u>Cat D9T - 9SU</u>
Horsepower:	<u>405</u>
Blade Type:	<u>Semi-Universal</u>
Attachment:	<u>NA</u>
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$238.76</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$162.29</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>25</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour:	<u>\$442.35</u>
Total Fleet Cost/Hour:	<u><b>\$442.35</b></u>

**MATERIAL QUANTITIES**

Initial Volume:	<u>2,339</u>
Swell factor:	<u>1.000</u>
Loose volume:	<u><b>2,339</b> LCY</u>

Source of estimated volume:	<u>Division of Reclamation, Mining &amp; Safety</u>
Source of estimated swell factor:	<u>Cat Handbook</u>

**HOURLY PRODUCTION**

Average push distance:	<u>400 feet</u>
Unadjusted hourly production:	<u>305.6 LCY/hr</u>

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient:	<u>0 %</u>
Average site altitude:	<u>6,500 feet</u>

Material weight: 1,600 lbs/LCYWeight description: Top Soil

<u>Job Condition Correction Factor</u>	<u>Source</u>
Operator Skill:	<u>0.750</u>
Material consistency:	<u>1.100</u>
Dozing method:	<u>1.000</u>
Visibility:	<u>1.000</u>

	<u>(AVG.)</u>
	<u>(CAT HB)</u>
	<u>(GEN.)</u>
	<u>(AVG.)</u>

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7877

Adjusted unit production: 240.72 LCY/hr

Adjusted fleet production: **240.72 LCY/hr**

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$1.838/LCY

Total job time: **9.72 Hours**

Total job cost: **\$4,298**

**BULLDOZER WORK**Task description: Replace Topsoil on Phase 2 areaSite: High Flume Gravel Pit Permit Action: 2024-01-23 Update Permit/Job#: M1990093**PROJECT IDENTIFICATION**

Task #:	<u>06A</u>	State:	<u>Colorado</u>	Abbreviation:	<u>None</u>
Date:	<u>1/23/2024</u>	County:	<u>La Plata</u>	Filename:	<u>M093-06a</u>
User:	<u>DMC</u>				

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

Basic Machine:	<u>Cat D9T - 9SU</u>
Horsepower:	<u>405</u>
Blade Type:	<u>Semi-Universal</u>
Attachment:	<u>NA</u>
Shift Basis:	<u>1 per day</u>
Data Source:	<u>(CRG)</u>

**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$238.76</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$162.29</u>	<u>100</u>
Ripper own. Cost/Hour:	<u>\$0.00</u>	<u>NA</u>
Ripper op. Cost/Hour:	<u>\$0.00</u>	<u>25</u>
Operator Cost/Hour:	<u>\$41.30</u>	<u>NA</u>

Total unit Cost/Hour:	<u>\$442.35</u>
Total Fleet Cost/Hour:	<u><b>\$442.35</b></u>

**MATERIAL QUANTITIES**

Initial Volume:	<u>3,872</u>
Swell factor:	<u>1.000</u>
Loose volume:	<u><b>3,872</b> LCY</u>

Source of estimated volume:	<u>Division of Reclamation, Mining &amp; Safety</u>
Source of estimated swell factor:	<u>Cat Handbook</u>

**HOURLY PRODUCTION**

Average push distance:	<u>200 feet</u>
Unadjusted hourly production:	<u>700.0 LCY/hr</u>

Materials consistency description: Partly consolidated stockpile 1.1

Average push gradient:	<u>0 %</u>
Average site altitude:	<u>6,500 feet</u>

Material weight: 1,600 lbs/LCYWeight description: Top Soil

<u>Job Condition Correction Factor</u>	<u>Source</u>
Operator Skill:	<u>0.750</u>
Material consistency:	<u>1.100</u>
Dozing method:	<u>1.000</u>
Visibility:	<u>1.000</u>

	<u>(AVG.)</u>
	<u>(CAT HB)</u>
	<u>(GEN.)</u>
	<u>(AVG.)</u>

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.7877

Adjusted unit production: 551.39 LCY/hr

Adjusted fleet production: **551.39** LCY/hr

### **JOB TIME AND COST**

Fleet size: 1 Dozer(s)

Unit cost: \$0.802/LCY

Total job time: **7.02** Hours

Total job cost: **\$3,106**



## BULLDOZER RIPPING WORK

Task description: Rip topsoil under gravel storage area prior to revegetation

Site: High Flume Gravel Pit Permit Action: 2024-01-23 Update Permit/Job#: M1990093

### PROJECT IDENTIFICATION

Task #: 07A State: Colorado Abbreviation: None  
Date: 1/23/2024 County: La Plata Filename: M093-07a  
User: DMC

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat D9T - 9SU Horsepower: 405  
Ripper Attachment: 3-Shank Ripper Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$238.76	NA
Operating Cost/Hour:	\$162.29	100
Ripper Ownership Cost/Hour:	\$18.32	NA
Ripper Operating Cost/Hour:	\$8.98	100
Operator Cost/Hour:	\$41.30	NA
Total Unit Cost/Hour:	\$469.65	
Total Fleet Cost/Hour:	<b>\$469.65</b>	

### MATERIAL QUANTITIES

Selected estimating method: Area

#### Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA  
Area: 2.35 acres Rip Depth (ft): 2.00 Volume: 7,583 BCY or CCY

Source of estimated quantity: Assume 2.35 acres stockpile area

### HOURLY PRODUCTION

#### Seismic:

Seismic Velocity: NA feet/second

#### Area:

Average Ripping Depth: 2.63 feet/pass  
Average Ripping Width: 7.67 feet/pass  
Average Ripping Length: 500.00 feet/pass  
Average Dozer Speed: 88.00 feet/minute  
Average Maneuver Time: 0.25 minutes/pass  
Production per unit area: 0.891 acres/hour

#### Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.891 Acres/hr  
Site Altitude: 6,500 feet  
Altitude Adj: 1.00 (CAT HB)  
Job Efficiency: 0.83 (1 shift/day)  
Net Correction: 0.83 multiplier  
Adjusted Hourly Unit Production: 0.74 Acres/hr  
Adjusted Hourly Fleet Production: 0.74 Acres/hr

### JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 3.18 Hours

Unit cost: \$635.412 Per acre Total job cost: \$1,493

**REVEGETATION WORK**Task description: **Revegetation**Site: **High Flume Gravel Pit**Permit Action: 2024-01-23 UpdatePermit/Job#: M1990093**PROJECT IDENTIFICATION**Task #: 08AState: ColoradoAbbreviation: NoneDate: 1/23/2024County: La PlataFilename: M093-08aUser: DMCAgency or organization name: DRMS**FERTILIZING****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	200.00	pound	\$0.62	\$124.66
Triple superphosphate, 0-46-0	100.00	pound	\$0.89	\$89.00
			<b>Total Fertilizer Materials Cost/Acre</b>	<b>\$213.66</b>

**Application**

Description	Cost /Acre
NA-fertilizer application incl. with hydroseeding	\$262.23
<b>Total Fertilizer Application Cost/Acre</b>	<b>\$262.23</b>

**TILLING**

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$112.82
<b>Total Tilling Cost/Acre</b>	<b>\$112.82</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sand Dropseed	0.30	35.81	\$2.93
Ryegrass, Annual/Gulf	3.00	13.09	\$4.95
Smooth Brome - Manchar	6.00	19.97	\$19.95
Western Wheatgrass - Arriba	9.00	22.73	\$58.50
<b>Totals Seed Mix</b>	<b>18.30</b>	<b>91.60</b>	<b>\$86.33</b>

**Application**

Description	Cost /Acre
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Hydro seeding (MEANS 32 92 19.14 0200)	\$1,313.33
<b>Total Seed Application Cost/Acre</b>	<b>\$1,313.33</b>

**MULCHING and MISCELLANEOUS****Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	1.00	ACRE	\$4.01	\$4.01
Hydromulch tackifier, <15 ac. {Materials Only}	1.00	ACRE	\$1,655.28	\$1,655.28
Hydromulch, 1 ton/ac. rate {Materials Only}	1.00	ACRE	\$1,655.28	\$1,655.28
<b>Total Mulch Materials Cost/Acre</b>				<b>\$3,314.57</b>

**Application**

Description	Cost /Acre
Weed spray, hand, non-aquatic areas, ann. [DMG]	\$119.47
<b>Total Mulch Application Cost/Acre</b>	<b>\$119.47</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: 11.77 Cost /Acre: \$5,422.41  
 Estimated Failure Rate: 35% Cost /Acre\*: \$5,422.41  
 \*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING,MU  
LCHING

Initial Job Cost: \$63,821.77  
 Reseeding Job Cost: \$22,337.62  
 Total Job Cost: \$86,159  
 Job Hours: 15.00

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: Mobilize/DemobilizeSite: High Flume Gravel PitPermit Action: 2024-01-23 UpdatePermit/Job#: M1990093**PROJECT IDENTIFICATION**Task #: 09AState: ColoradoAbbreviation: NoneDate: 1/23/2024County: La PlataFilename: M093-09aUser: DMCAgency 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:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

**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 D9T - 9SU	66.13	\$257.08	\$175.95	1	\$433.03	\$175.95	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$6.73	\$82.29	1	\$89.02	\$82.29	\$0.00
Power Mulcher (Bowie LD-90)	6.00	\$25.94	\$82.29	1	\$108.23	\$82.29	\$0.00

Subtotals: **\$630.28** **\$340.53** **\$250.00****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.	\$15.83	1	\$15.83	\$15.83

Subtotals: **\$15.83** **\$15.83**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>DURANGO</u>	
Total one-way travel distance:	<u>14.00</u>	miles
Average Travel Speed:	<u>35.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$2,537.21</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$12.66</u>
** one round trip, no haul rig:	

**Transportation Cycle Time:**

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.40</u>	<u>0.40</u>
Return Time (Hours):	<u>0.40</u>	<u>0.40</u>
Loading Time (Hours):	<u>0.50</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.50</u>	<u>NA</u>
Subtotals:	<u>1.80</u>	<u>0.80</u>

**JOB TIME AND COST**

Total job time:	<u>3.60</u>	Hours
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Total job cost:	<u>\$2,550</u>
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