

## COST SUMMARY WORK

Task description: Initial Estimate

Site: Good Shepherd Ranch Test  
Cores

Permit Action: 2024-11-01 Estimate

Permit/Job#: P2024013

### PROJECT IDENTIFICATION

Task #: 000  
Date: 11/1/2024  
User: DMC

State: Colorado  
County: Montrose

Abbreviation: None  
Filename: P013-000

Agency or organization name: DRMS

### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Seal two boreholes	BOREHOLE	1	8.00	\$187
02a	Grade drill pads and office trailer pad	EXCAVATE	1	4.88	\$2,427
03a	Revegetate disturbed areas	REVEGE	1	4.00	\$201
04a	Mobilize reclamation crew and equipment	MOBILIZE	1	6.00	\$1,861
<b><u>SUBTOTALS:</u></b>				<b>22.88</b>	<b>\$4,676</b>

### INDIRECT COSTS

#### OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$94
Performance bond:	1.05	Total =	\$49
Job superintendent:	0.00	Total =	\$0
Profit:	10.00	Total =	\$468

TOTAL O & P = \$611

CONTRACT AMOUNT (direct + O & P) = \$5,287

#### 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>\$264</u>

CONTINGENCY: 0.00 Total = \$0

TOTAL INDIRECT COST = \$876

**TOTAL BOND AMOUNT (direct + indirect) = \$5,552**

## BOREHOLE SEALING WORK

Task description: Seal two boreholes

Site: Good Shepherd Ranch Test  
Cores

Permit Action: 2024-11-01 Estimate

Permit/Job#: P2024013

### PROJECT IDENTIFICATION

Task #: 01A  
Date: 11/1/2024  
User: DMC

State: Colorado  
County: Montrose

Abbreviation: None  
Filename: P013-01a

Agency or organization name: DRMS

### UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
SWA Core Drill	Stainless steel plug - 4 in. diameter borehole	4	5000	1.00	EA	\$93.74	\$93.74
SWB Core Drill	Stainless steel plug - 4 in. diameter borehole	4	5000	1.00	EA	\$93.74	\$93.74

Job Hours: 8.00

Total Cost: \$187.00

## HYDRAULIC EXCAVATOR WORK

Task description: Grade drill pads and office trailer pad

Site: Good Shepherd Ranch Test  
Cores

Permit Action:

2024-11-01 Estimate

Permit/Job#: P2024013

### PROJECT IDENTIFICATION

Task #: 02A

State: Colorado

Abbreviation: None

Date: 11/1/2024

County: Montrose

Filename: P013-02a

User: DMC

Agency or organization name: DRMS

### HOURLY EQUIPMENT COST

Basic Machine: Cat 311D LRR 8'-6" Stick  
Attachment 1: ROPS Cab

Horsepower: 80  
Weight (MT): 12.74  
Shift Basis: 1 per day  
Data Source: (CRG)

#### Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$244.29	NA
Operating Cost/Hour:	\$218.49	100
Operator Cost/Hour:	\$33.87	NA
Total Unit Cost/Hour:	\$496.65	
Total Fleet Cost/Hour:	\$496.65	

### MATERIAL QUANTITIES

Initial volume: 600 CCY Swell factor: 1.000  
Loose volume: 600 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: 0.242 minutes

#### Load Bucket Capacity

Rated Capacity: 0.68 LCY (heaped)  
Bucket Fill Factor: 0.975 Loose material - mixed moist aggregates (95-100%)  
Adjusted Capacity: 0.66 LCY

#### Job Condition Correction Factors

Site Altitude: 8900 feet

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

Unadjusted Hourly Unit Production: 164.38 LCY/Hour  
Adjusted Hourly Unit Production: 122.79 LCY/Hour  
Adjusted Hourly Fleet Production: 122.79 LCY/Hour

### JOB TIME AND COST

Fleet size: 1 Excavator Total job time: 4.89 Hours

Unit cost: \$4.045 /LCY Total job cost: \$2,427

**REVEGETATION WORK**Task description: Revegetate disturbed areasSite: Good Shepherd Ranch Test  
CoresPermit Action: 2024-11-01 EstimatePermit/Job#: P2024013**PROJECT IDENTIFICATION**Task #: 03A  
Date: 11/1/2024  
User: DMCState: Colorado  
County: MontroseAbbreviation: None  
Filename: P013-03aAgency 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
	\$
<b>Total Tilling Cost/Acre</b>	<b>\$0.00</b>

**SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Bluebunch Wheatgrass - Secar	7.42	23.85	\$78.01
Mountain Brome - Bromar	3.86	6.20	\$23.23
Sandberg Bluegrass - VNS	0.74	15.71	\$10.69
Idaho Fescue	1.58	19.95	\$22.51
Prairie Junegrass	0.30	15.95	\$14.62
Yarrow, Western	0.50	30.40	\$24.12
<b>Totals Seed Mix</b>	<b>14.40</b>	<b>112.06</b>	<b>\$173.18</b>

**Application**

Description	Cost /Acre
Broadcast seeding [DMG]	\$272.56
<b>Total Seed Application Cost/Acre</b>	<b>\$272.56</b>

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

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

**Application**

Description	Cost /Acre
	\$
<b>Total Mulch Application Cost/Acre</b>	<b>\$0.00</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: 0.36                      Cost /Acre: \$445.74  
 Estimated Failure Rate: 25%                      Cost /Acre\*: \$445.74  
 \*Selected Replanting Work Items: SEEDING

Initial Job Cost: **\$160.47**  
 Reseeding Job Cost: **\$40.12**  
 Total Job Cost: **\$201**  
 Job Hours: **4.00**

**EQUIPMENT MOBILIZATION/DEMOBILIZATION**Task description: **Mobilize reclamation crew and equipment**Site: **Good Shepherd Ranch Test  
Cores**Permit Action: **2024-11-01 Estimate**Permit/Job#: **P2024013****PROJECT IDENTIFICATION**

Task #: **04A** State: **Colorado** Abbreviation: **None**  
 Date: **11/1/2024** County: **Montrose** Filename: **P013-04a**  
 User: **DMC**

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:	\$10.44	\$22.18	\$23.94
Operating Cost/Hour:	\$26.48	\$54.55	\$55.65
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$59.44	\$122.78	\$125.64

**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 311D LRR 8'-6"Stick	14.01	\$244.29	\$59.44	1	\$303.73	\$59.44	\$250.00

Subtotals: **\$303.73** **\$59.44** **\$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.	\$13.77	1	\$13.77	\$13.77

Subtotals: **\$13.77** **\$13.77**

**EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	<u>MONTROSE</u>	
Total one-way travel distance:	<u>30.00</u>	miles
Average Travel Speed:	<u>30.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,833.80</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$27.54</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>\$1,861</u>
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