

COST SUMMARY WORK

Task description: Cost Summary of Reclamation Tasks

Site: Mineral Mountain Project

Permit Action: AM1

Permit/Job#: M2014045

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 11/8/2021

County: Teller

Filename: 000

User: ERR

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Closure of Mine Shafts (2)	DOZER	1	21.24	\$3,617
002	Closure of Mine Portal	MINESEAL	1	6.00	\$3,898
003	Removal/Disposal of Mill Chemicals	DEMOLISH	1	4.00	\$6,137
004	Structure Demolition and Removal of Misc. Items	DEMOLISH	1	10.00	\$4,138
005	Finish 4.4 Acres (includes removal of MSHA berms)	DOZER	1	42.82	\$7,292
006	Revegetate 4.4 acres	REVEGE	1	9.00	\$2,642
007	Mobilization/Demobilization of Reclamation Equipment	MOBILIZE	1	5.40	\$3,138
<u>SUBTOTALS:</u>				98.46	\$30,862

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$623

Performance bond: 1.05

Total = \$324

Job superintendent: 0.00

Total = \$0

Profit: 10.00

Total = \$3,086

TOTAL O & P = \$4,034

CONTRACT AMOUNT (direct + O & P) = \$34,896

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): \$0

Total = \$0

Engineering work and/or contract/bid preparation: 0.00

Total = \$0

Reclamation management and/or administration: 5.00

\$1,745

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$5,778

TOTAL BOND AMOUNT (direct + indirect) = \$36,640

BULLDOZER WORKTask description: Closure of Mine Shafts (2)Site: Mineral Mountain ProjectPermit Action: AM1Permit/Job#: M2014045**PROJECT IDENTIFICATION**Task #: 001State: ColoradoAbbreviation: NoneDate: 11/8/2021County: TellerFilename: M045-001User: ERRAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D6T XLHorsepower: 185Blade Type: Semi-UniversalAttachment: NAShift Basis: 1 per dayData Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$64.38	NA
Operating Cost/Hour:	\$64.62	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: \$170.30Total Fleet Cost/Hour: **\$170.30****MATERIAL QUANTITIES**Initial Volume: 1,334Swell factor: 1.000Loose volume: **1,334 LCY**Source of estimated volume: AM1 ApplicationSource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 200 feetUnadjusted hourly production: 153.6 LCY/hrMaterials consistency description: Consolidated stockpile 1.0Average push gradient: 0 %Average site altitude: 9,925 feetMaterial weight: 2,800 lbs/LCYWeight description: Granite - Broken**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	0.750	(AVG.)
Material consistency:	1.000	(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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.821	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4089

Adjusted unit production: 62.81 LCY/hr

Adjusted fleet production: **62.81** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$2.711/LCY

Total job time: **21.24** Hours

Total job cost: **\$3,617**

SAFEGUARDING UNDERGROUND OPENINGS

Task description: Closure of Mine Portal

Site: Mineral Mountain Project

Permit Action: AM1

Permit/Job#: M2014045

PROJECT IDENTIFICATION

Task #: 002

State: Colorado

Abbreviation: None

Date: 11/8/2021

County: Teller

Filename: 002

User: ERR

Agency or organization name: DRMS

UNIT COSTS

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
Portal/Adit - Culvert in Place	~8 ft Dia.	Adit closure - grate only, no door (per opening)	1.00	EA	\$3,898.00	\$3,898.00

Job Hours: 6.00

Total Cost: \$3,898.00

DEMOLITION WORK

Task description: Removal/Disposal of Mill Chemicals

Site: Mineral Mountain Project

Permit Action: AM1

Permit/Job#: M2014045

PROJECT IDENTIFICATION

Task #: 003

State: Colorado

Abbreviation: None

Date: 11/8/2021

County: Teller

Filename: M045-003

User: ERR

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 88.40 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Liquid Chemicals	NA	Hazardous waste removal - Bulk liquids, small quantities (to 2,500 gal.)	1,000.00	GAL	\$2.57	\$2,570.00
Solid Chemicals	NA	Hazardous waste removal - Bulk solids, large quantities (over 1.5 tons)	2.00	TON	\$2,186.11	\$4,372.22

Job Hours: 4.00

Subtotal
(unadjusted): \$6,942.22

Total Cost
(adjusted for location): \$6,136.92

DEMOLITION WORK

Task description: Structure Demolition and Removal of Misc. Items

Site: Mineral Mountain Project

Permit Action: AM1

Permit/Job#: M2014045

PROJECT IDENTIFICATION

Task #: 004

State: Colorado

Abbreviation: None

Date: 11/8/2021

County: Teller

Filename: M045-004

User: ERR

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 93.10 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Shop-Warehouse Foundation Pad	34'x34'x5 1/2"	Demo. and on-site disposal in existing pit, 4 in. thick - Max. 200 ft. push	1,156.00	SF	\$0.67	\$776.83
Shop-Warehouse and Covered Storage	34'x34'x10'	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 200 ft. push	11,560.00	CF	\$0.20	\$2,323.56
Misc. Parts and Construction Items	700 CY	Push demolished materials/rubble/debris into pit - Max. 200 ft. push	700.00	CY	\$1.92	\$1,344.70

Job Hours: 10.00

Subtotal
(unadjusted): \$4,445.09

Total Cost
(adjusted for location): \$4,138.38

BULLDOZER WORKTask description: **Finish 4.4 Acres (includes removal of MSHA berms)**Site: **Mineral Mountain Project**Permit Action: **AM1**Permit/Job#: **M2014045****PROJECT IDENTIFICATION**Task #: **005**State: **Colorado**Abbreviation: **None**Date: **11/8/2021**County: **Teller**Filename: **M045-005**User: **ERR**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**

Basic Machine: **Cat D6T XL**
 Horsepower: **185**
 Blade Type: **Semi-Universal**
 Attachment: **NA**
 Shift Basis: **1 per day**
 Data Source: **(CRG)**

Cost Breakdown:

		<u>Utilization %</u>
Ownership Cost/Hour:	\$64.38	NA
Operating Cost/Hour:	\$64.62	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: **\$170.30**
 Total Fleet Cost/Hour: **\$170.30**

MATERIAL QUANTITIES

Initial Volume: **7,098**
 Swell factor: **1.165**
 Loose volume: **8,269 LCY**

Source of estimated volume: **~18" over 4.4 acres**
 Source of estimated swell factor: **Cat Handbook**

HOURLY PRODUCTION

Average push distance: **50 feet**
 Unadjusted hourly production: **444.6 LCY/hr**

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

Average push gradient: **0 %**
 Average site altitude: **9,925 feet**

Material weight: **2,900 lbs/LCY**Weight description: **Decomposed rock - 50% Rock, 50% Earth****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:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4344

Adjusted unit production: 193.13 LCY/hr

Adjusted fleet production: **193.13** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.882/LCY

Total job time: **42.82** Hours

Total job cost: **\$7,292**

REVEGETATION WORKTask description: Revegetate 4.4 acresSite: Mineral Mountain ProjectPermit Action: AM1Permit/Job#: M2014045**PROJECT IDENTIFICATION**Task #: 006
Date: 11/8/2021
User: ERRState: Colorado
County: TellerAbbreviation: None
Filename: M045-006Agency or organization name: DRMS**FERTILIZING****Materials**

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

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Subsoil scarification, (MEANS 32 91 13.23 3100)	\$191.66
Total Tilling Cost/Acre	\$191.66

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Elsie	1.00	12.40	\$3.10
Ryegrass, Perennial - Belramo	1.00	5.67	\$1.80
Crested Wheatgrass - Standard	1.00	4.59	\$4.15
Smooth Brome - Lincoln	2.00	6.66	\$6.65
Intermediate Wheatgrass - Oahe	2.00	4.27	\$5.60
Slender Wheatgrass - Native	1.00	3.65	\$4.63
Basin Wildrye - Trailhead	2.00	8.13	\$30.82
Totals Seed Mix	10.00	45.36	\$56.75

Application

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

MULCHING and MISCELLANEOUS**Materials**

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

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

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: 4.4 Cost /Acre: \$480.41
 Estimated Failure Rate: 25% Cost /Acre*: \$480.41
 *Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: **\$2,113.80**
 Reseeding Job Cost: **\$528.45**
 Total Job Cost: **\$2,642**
 Job Hours: **9.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mobilization/Demobilization of Reclamation Equipment**Site: **Mineral Mountain Project**Permit Action: AM1Permit/Job#: M2014045**PROJECT IDENTIFICATION**Task #: 007State: ColoradoAbbreviation: NoneDate: 11/8/2021County: TellerFilename: M045-007User: ERRAgency 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:**

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$21.28	\$37.94	\$47.67
Operating Cost/Hour:	\$26.55	\$50.48	\$56.21
Operator Cost/Hour:	\$20.54	\$20.54	\$20.54
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$68.37	\$132.49	\$147.95

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 312D L 9'-2" Stick	14.83	\$43.67	\$68.37	1	\$112.04	\$68.37	\$250.00
Cat D6T XL	23.25	\$64.38	\$68.37	1	\$132.75	\$68.37	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$7.98	\$68.37	1	\$76.35	\$68.37	\$250.00

Subtotals: **\$321.14** **\$205.11** **\$750.00****ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$75.87	1	\$75.87	\$75.87

Subtotals: **\$75.87** **\$75.87**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>COLORADO SPRINGS</u>	
Total one-way travel distance:	<u>54.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$2,955.68</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$182.09</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>1.20</u>	<u>1.20</u>
Return Time (Hours):	<u>1.20</u>	<u>1.20</u>
Loading Time (Hours):	<u>0.15</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.15</u>	<u>NA</u>
Subtotals:	<u>2.70</u>	<u>2.40</u>

JOB TIME AND COST

Total job time: 5.40 Hours

Total job cost: \$3,138