

COST SUMMARY WORK

Task description: Cost Summary of Reclamation Tasks

Site: Pensaukee Lode

Permit Action: 2018 New NOI

Permit/Job#: P2018015

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 10/25/2018

County: Park

Filename: P015-000

User: ERR

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Plug and Abandon Boreholes	BOREHOLE	1	15.00	\$1,973.19
002	Regrade Road/Drill Pads	DOZER	1	19.79	\$2,870.00
003	Revegetate Test Pit/Trench	REVEGE	1	1.00	\$690.00
004	Mob/Demob	MOBILIZE	1	6.78	\$2,590.00
<u>SUBTOTALS:</u>				42.57	\$8,123

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 0.00
Profit: 10.00

Total = \$164.08

Total = \$85.29

Total = \$0.00

Total = \$812.30

TOTAL O & P = \$1,061.67

CONTRACT AMOUNT (direct + O & P) = \$9,184.67

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00

Total = 0.00

Engineering work and/or contract/bid preparation: 0.00

Total = \$0.00

Reclamation management and/or administration: 5.00

\$459.23

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$1,520.90

TOTAL BOND AMOUNT (direct + indirect) = \$9,643.90

BOREHOLE SEALING WORK

Task description: Plug and Abandon Boreholes

Site: Pensaukee Lode

Permit Action: 2018 New NOI

Permit/Job#: P2018015

PROJECT IDENTIFICATION

Task #: 001

State: Colorado

Abbreviation: None

Date: 10/25/2018

County: Park

Filename: P015-001

User: ERR

Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Plug and Abandon (12) 2"x120' Boreholes	Portland cement grout (Bag, material cost only...94 lb. bag)	2	1440	7.00	bag	\$13.80	\$96.60
Drill Rig with Mud Pump	Truck Mounted - 3.0in. - 500 ft capy.	NA	NA	15.00	EA	\$74.98	\$1,124.70
Water Truck	Light Duty Pickup, 4x4, 1 T. Crew	NA	NA	15.00	EA	\$47.19	\$707.85
Borehole Markers	Borehole location/identification marker (EA, material cost only)	NA	NA	12.00	EA	\$3.67	\$44.04

Job Hours: 15.00

Total Cost: \$1,973.00

BULLDOZER WORKTask description: **Regrade Road/Drill Pads**Site: **Pensaukee Lode**Permit Action: **2018 New NOI**Permit/Job#: **P2018015****PROJECT IDENTIFICATION**Task #: **002**State: **Colorado**Abbreviation: **None**Date: **10/25/2018**County: **Park**Filename: **P015-002**User: **ERR**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D6T XL**Horsepower: **185**Blade Type: **Semi-Universal**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$52.66	NA
Operating Cost/Hour:	\$46.34	100
Ripper own. Cost/Hour:	\$3.84	NA
Ripper op. Cost/Hour:	\$0.63	25
Operator Cost/Hour:	\$41.52	NA
Total unit Cost/Hour:	\$145.00	
Total Fleet Cost/Hour:	\$145.00	

MATERIAL QUANTITIESInitial Volume: **1,606**Swell factor: **1.430**Loose volume: **2,297 LCY**Source of estimated volume: **Appl: 1400' x15' + (3) 15'x15' , x2'**Source of estimated swell
factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly
production: **444.6 LCY/hr**Materials consistency description: **Rock, well ripped or blasted 0.8**Average push
gradient: **0 %**Average site altitude: **12,500 feet**Material weight: **3,300 lbs/LCY**Weight description: **Decomposed rock - 75% Rock, 25% Earth****Job Condition Correction Factor**Operator Skill: **0.750**Source
(AVG.)

Material consistency:	0.800	(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:	0.940	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2610

Adjusted unit production: 116.04 LCY/hr

Adjusted fleet production: **116.04** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$1.250/LCY

Total job time: **19.79** Hours

Total job cost: **\$2,870**

REVEGETATION WORKTask description: Revegetate Test Pit/TrenchSite: Pensaukee LodePermit Action: 2018 New NOIPermit/Job#: P2018015**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 10/25/2018County: ParkFilename: P015-003User: ERRAgency 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
Subsoiling, light {(DMG)}	\$175.31
Total Tilling Cost/Acre	\$175.31

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Arizona Fescue - Redondo	1.47	16.87	\$17.82
Blue Grama - Native	1.46	23.83	\$21.68
Indian Ricegrass - Native	0.74	2.40	\$5.18
Mountain Brome - Bromar	2.99	4.80	\$13.31
Sandberg Bluegrass - VNS	1.43	30.37	\$11.80
Slender Wheatgrass - Native	1.43	5.22	\$4.12
Western Wheatgrass - Arriba	4.32	10.91	\$35.77
Totals Seed Mix	13.84	94.40	\$109.67

Application

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

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: 1 Cost /Acre: \$552.20
 Estimated Failure Rate: 25% Cost /Acre*: \$552.20
 *Selected Replanting Work Items: TILLING,SEEDING

Initial Job Cost: **\$552.20**
 Reseeding Job Cost: **\$138.05**
 Total Job Cost: **\$690**
 Job Hours: **1.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob/Demob**Site: **Pensaukee Lode**Permit Action: 2018 New NOIPermit/Job#: P2018015**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 10/25/2018County: ParkFilename: P015-004User: 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:	\$16.63	\$18.37	\$22.33
Operating Cost/Hour:	\$44.38	\$46.13	\$50.07
Operator Cost/Hour:	\$27.66	\$27.66	\$27.66
Helper Cost/Hour:	\$0.00	\$25.39	\$25.39
Total Unit Cost/Hour:	\$88.67	\$117.55	\$125.45

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
Truck Mounted - 3.0in. - 500 ft capy.	0.00	\$9.82	\$88.67	1	\$98.49	\$88.67	\$250.00
Cat D6T XL	25.01	\$56.50	\$88.67	1	\$145.17	\$88.67	\$250.00
Subtotals:					\$243.66	\$177.34	\$500.00

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	\$47.19	1	\$47.19	\$47.19
Subtotals:			\$47.19	\$47.19

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	DENVER, CO	
Total one-way travel distance:	107.00	miles
Average Travel Speed:	65.00	mph

Total Non-Roadable Mob/Demob Cost *	\$2,434.79
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	\$155.36
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.65	1.65
Return Time (Hours):	1.65	1.65
Loading Time (Hours):	0.05	NA
Unloading Time (Hours):	0.05	NA
Subtotals:	3.39	3.29

JOB TIME AND COST

Total job time:	6.78	Hours
-----------------	------	-------

Total job cost:	\$2,590
-----------------	---------