

COST SUMMARY WORK

Task description: Cost Summary of Reclamation Tasks

Site: Godsend Claim- CMC 252626

Permit Action: 2017 Cost Est.

Permit/Job#: M2013040

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 8/31/2017

County: Teller

Filename: M040-000

User: ERR

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Backfill Overburden	DOZER	1	6.73	\$851.00
002	Replace Topsoil	DOZER	1	0.17	\$21.00
003	Revegetate 1 acre area	REVEGE	1	1.00	\$755.00
004	Revegetate .25 acre area (older)	REVEGE	1	0.50	\$189.00
005	On Site Laborers (2)	MISCTRUK	1	1.50	\$102.00
006	Mob/Demob	MOBILIZE	1	4.12	\$1,129.00
<u>SUBTOTALS:</u>				14.02	\$3,047

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02

Total = \$61.55

Performance bond: 1.05

Total = \$31.99

Job superintendent: 0.00

Total = \$0.00

Profit: 10.00

Total = \$304.70

TOTAL O & P = \$398.24

CONTRACT AMOUNT (direct + O & P) = \$3,445.24

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

\$172.26

CONTINGENCY: 0.00

Total = \$0.00

TOTAL INDIRECT COST = \$570.50

TOTAL BOND AMOUNT (direct + indirect) = \$3,617.50

BULLDOZER WORKTask description: **Backfill Overburden**Site: **Godsend Claim- CMC 252626**Permit Action: **2017 Cost Est.**Permit/Job#: **M2013040****PROJECT IDENTIFICATION**Task #: **001**
Date: **8/31/2017**
User: **ERR**State: **Colorado**
County: **Teller**Abbreviation: **None**
Filename: **M040-001**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D6T LGP**
Horsepower: **200**
Blade Type: **Straight**
Attachment: **3-shank ripper**
Shift Basis: **1 per day**
Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$43.25	NA
Operating Cost/Hour:	\$35.17	100
Ripper own. Cost/Hour:	\$5.33	NA
Ripper op. Cost/Hour:	\$0.89	25
Operator Cost/Hour:	\$41.85	NA
Total unit Cost/Hour:	\$126.49	
Total Fleet Cost/Hour:	\$126.49	

MATERIAL QUANTITIESInitial Volume: **1,333**
Swell factor: **1.330**
Loose volume: **1,773 LCY**Source of estimated volume: **TR-01**Source of estimated swell
factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**
Unadjusted hourly
production: **444.6 LCY/hr**Materials consistency description: **Loose stockpile 1.2**Average push
gradient: **0 %**
Average site altitude: **8,850 feet**Material weight: **2,900 lbs/LCY**Weight description: **Decomposed rock - 50% Rock, 50% Earth****Job Condition Correction Factor**Operator Skill: **0.750**Source
(AVG.)

Material consistency:	1.200	(CAT HB)
Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	1.000	(DOZ-OC)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.5924

Adjusted unit
production: 263.38 LCY/hr

Adjusted fleet
production: **263.38** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.480/LCY

Total job time: **6.73** Hours

Total job cost: **\$851**

BULLDOZER WORKTask description: **Replace Topsoil**Site: **Godsend Claim- CMC 252626**Permit Action: **2017 Cost Est.**Permit/Job#: **M2013040****PROJECT IDENTIFICATION**Task #: **002**State: **Colorado**Abbreviation: **None**Date: **8/31/2017**County: **Teller**Filename: **M040-002**User: **ERR**Agency or organization name: **DRMS****HOURLY EQUIPMENT COST**Basic Machine: **Cat D6T LGP**Horsepower: **200**Blade Type: **Straight**Attachment: **3-shank ripper**Shift Basis: **1 per day**Data Source: **(CRG)****Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	\$43.25	NA
Operating Cost/Hour:	\$35.17	100
Ripper own. Cost/Hour:	\$5.33	NA
Ripper op. Cost/Hour:	\$0.89	25
Operator Cost/Hour:	\$41.85	NA

Total unit Cost/Hour: **\$126.49**Total Fleet Cost/Hour: **\$126.49****MATERIAL QUANTITIES**Initial Volume: **45**Swell factor: **1.429**Loose volume: **64 LCY**Source of estimated volume: **DRMS**Source of estimated swell
factor: **Cat Handbook****HOURLY PRODUCTION**Average push distance: **50 feet**Unadjusted hourly
production: **444.6 LCY/hr**Materials consistency description: **Loose stockpile 1.2**Average push
gradient: **0 %**Average site altitude: **8,850 feet**Material weight: **1,600 lbs/LCY**Weight description: **Top Soil****Job Condition Correction Factor**Operator Skill: **0.750**Source
(AVG.)

Material consistency:	1.200	(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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production: 382.04 LCY/hr

Adjusted fleet production: **382.04** LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.331/LCY

Total job time: **0.17** Hours

Total job cost: **\$21**

REVEGETATION WORKTask description: Revegetate 1 acre areaSite: Godsend Claim- CMC 252626Permit Action: 2017 Cost Est.Permit/Job#: M2013040**PROJECT IDENTIFICATION**Task #: 003State: ColoradoAbbreviation: NoneDate: 8/31/2017County: TellerFilename: M040-003User: 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
Alpine Fescue	1.50	44.77	\$26.13
Blue Grama - Hachita	1.00	16.32	\$16.27
Alkali Sacaton	1.00	39.03	\$28.32
Meadow Brome - Regar	2.00	1.84	\$10.16
Ryegrass, Perennial - Linn	1.00	5.67	\$1.44
Slender Wheatgrass - Native	2.30	8.40	\$6.49
Prairie Junegrass	1.00	53.15	\$30.33
Totals Seed Mix	9.80	169.17	\$119.14

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:	<u>1</u>	Cost /Acre:	<u>\$561.67</u>
Estimated Failure Rate:	<u>50%</u>	Cost /Acre*:	<u>\$386.36</u>
*Selected Replanting Work Items:	<u>SEEDING</u>		

Initial Job Cost:	<u>\$561.67</u>
Reseeding Job Cost:	<u>\$193.18</u>
Total Job Cost:	<u>\$755</u>
Job Hours:	<u>1.00</u>

REVEGETATION WORKTask description: Revegetate .25 acre area (older)Site: Godsend Claim- CMC 252626Permit Action: 2017 Cost Est.Permit/Job#: M2013040**PROJECT IDENTIFICATION**Task #: 004State: ColoradoAbbreviation: NoneDate: 8/31/2017County: TellerFilename: M040-004User: 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
Alpine Fescue	1.50	44.77	\$26.13
Blue Grama - Hachita	1.00	16.32	\$16.27
Alkali Sacaton	1.00	39.03	\$28.32
Meadow Brome - Regar	2.00	1.84	\$10.16
Ryegrass, Perennial - Linn	1.00	5.67	\$1.44
Slender Wheatgrass - Native	2.30	8.40	\$6.49
Prairie Junegrass	1.00	53.15	\$30.33
Totals Seed Mix	9.80	169.17	\$119.14

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:	0.25	Cost /Acre:	\$561.67
Estimated Failure Rate:	50%	Cost /Acre*:	\$386.36
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$140.42
Reseeding Job Cost:	\$48.30
Total Job Cost:	\$189
Job Hours:	0.50

MISCELLANEOUS TRUCK WORK

Task description: On Site Laborers (2)

Site: Godsend Claim- CMC 252626

Permit Action: 2017 Cost Est.

Permit/Job#: M2013040

PROJECT IDENTIFICATION

Task #: 005

State: Colorado

Abbreviation: None

Date: 8/31/2017

County: Teller

Filename: M040-005

User: ERR

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Make and Model: Light Duty Pickup, 4x4, 3/4 T.

Horsepower: 160

Attachment 1: _____

Shift Basis: 1 per day

Attachment 2: _____

Weight: 2.25

Labor Unit 1: General Laborer

(US Tons)

Labor Unit 2: General Laborer

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	<u>\$5.12</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$7.14</u>	<u>100</u>
Operator Cost/Hour:	<u>\$55.95</u>	<u>NA</u>
Total Unit Cost/Hour:	<u>\$68.21</u>	
Total Fleet Cost/Hour:	<u>\$68.21</u>	

JOB TIME AND COST

Fleet size: 1 Truck(s)

Total job time: 1.50 Hours

Unit cost: \$68.21 /Hour

Total job cost: \$102

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: **Mob/Demob**Site: **Godsend Claim- CMC 252626**Permit Action: 2017 Cost Est.Permit/Job#: M2013040**PROJECT IDENTIFICATION**Task #: 006State: ColoradoAbbreviation: NoneDate: 8/31/2017County: TellerFilename: M040-006User: 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
Cat D6T LGP	28.63	\$48.58	\$117.55	1	\$166.13	\$117.55	\$250.00
Subtotals:					\$166.13	\$117.55	\$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.	\$12.26	1	\$12.26	\$12.26
Subtotals:			\$12.26	\$12.26

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>COLORADO SPRINGS</u>	
Total one-way travel distance:	<u>43.00</u>	miles
Average Travel Speed:	<u>55.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$1,109.70</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$19.17</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	<u>0.78</u>	<u>0.78</u>
Return Time (Hours):	<u>0.78</u>	<u>0.78</u>
Loading Time (Hours):	<u>0.25</u>	<u>NA</u>
Unloading Time (Hours):	<u>0.25</u>	<u>NA</u>
Subtotals:	<u>2.06</u>	<u>1.56</u>

JOB TIME AND COST

Total job time:	<u>4.13</u>	Hours
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Total job cost:	<u>\$1,129</u>
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