

COST SUMMARY WORK

Task description: Cost Summary

Site: Pit 29

Permit Action: SR02

Permit/Job#: M1980183

PROJECT IDENTIFICATION

Task #: 000

State: Colorado

Abbreviation: None

Date: 8/2/2019

County: Adams

Filename: M183-000

User: JLE

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Slurry Wall Retainer	NA	1	1.00	\$324,000
002	Earthwork	SITEMAINT ENANCE	1	97.71	\$56,713
003	Weed control, entire site	REVEGE	1	24.00	\$10,648
004	Revegetation of entire site	REVEGE	1	55.00	\$76,709
005	Mobilization/Demobilization	MOBILIZE	1	4.88	\$5,731
<u>SUBTOTALS:</u>				182.59	\$473,801

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02
Performance bond: 1.05
Job superintendent: 91.29
Profit: 10.00

Total = \$9,571

Total = \$4,975

Total = \$6,335

Total = \$47,380

TOTAL O & P = \$68,260

CONTRACT AMOUNT (direct + O & P) = \$542,061

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Total = \$500

Engineering work and/or contract/bid preparation: 4.25

Total = \$23,038

Reclamation management and/or administration: 5.00

\$27,103

CONTINGENCY: 0.00

Total = \$0

TOTAL INDIRECT COST = \$118,901

TOTAL BOND AMOUNT (direct + indirect) = \$592,700

Slurry Wall Retainer

Task description: 20% Slurry Wall Install Cost

Site: Pit 29 Permit Action: SR02 Permit/Job#: M1980183

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None
Date: 8/2/2019 County: Adams Filename: M183-002
User: JLE

Agency or organization name: DRMS

Slurry Wall Location	Estimated Perimeter (Feet)	Depth (feet)	SF	\$3/SF
North Reservoir	7371	40	294840	\$ 884,520.00
South Reservoir	6129	40	245160	\$ 735,480.00

Total	\$ 1,620,000.00
20%	\$ 324,000.00

SITE MAINTENANCE

Task description: Earthwork

Site: Pit 29

Permit Action: SR02

Permit/Job#: M1980183

PROJECT IDENTIFICATION

Task #: 002

State: Colorado

Abbreviation: None

Date: 8/2/2019

County: Adams

Filename: M183-002

User: JLE

Agency or organization name: DRMS

UNIT COSTS

Maintenance Item	Hours per Year	Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Finish Grading Reservoir Slopes	50.00	Cat D9T - 9SU	100.00	EA	\$290.21	\$29,021.00
Grade Fines in Mining Area III	47.71	Cat D9T - 9SU	95.42	EA	\$290.21	\$27,691.84

Job Hours: 97.71

Total Cost: \$56,712.84

REVEGETATION WORK

Task description: Weed control, entire site

Site: Pit 29 Permit Action: SR02 Permit/Job#: M1980183

PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None
Date: 8/2/2019 County: Adams Filename: M183-003
User: JLE

Agency 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
Weed control spraying (MEANS 31 31 16.13 3100)	\$193.60
Total Tilling Cost/Acre	\$193.60

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
			\$
Totals Seed Mix	0.00	0.00	\$0.00

Application

Description	Cost /Acre
	\$
	\$0.00

Total Seed Application Cost/Acre	
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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:	55	Cost /Acre:	\$193.60
Estimated Failure Rate:	0%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost:	\$10,648.00
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$10,648
Job Hours:	24.00

REVEGETATION WORK

Task description: Revegetation of entire site

Site: Pit 29 Permit Action: SR02 Permit/Job#: M1980183

PROJECT IDENTIFICATION

Task #: 004 State: Colorado Abbreviation: None
Date: 8/2/2019 County: Adams Filename: M183-004
User: JLE

Agency 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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$101.93
Total Tilling Cost/Acre	\$101.93

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	1.10	17.95	\$17.57
Switchgrass - Pathfinder	1.00	8.93	\$12.75
Canby Bluegrass - Canbar	0.50	10.63	\$5.13
Prairie Clover, Purple - Kaneb	0.20	1.37	\$11.31
Sideoats Grama - Butte	2.00	6.57	\$18.00
Blanketflower, Perennial	0.25	0.75	\$13.50
Sheep Fescue - Bighorn	0.60	9.37	\$2.64
Coneflower, Prairie	0.20	5.44	\$6.60
Thickspike Wheatgrass - Critana	5.70	20.15	\$39.19
Western Wheatgrass - Arriba	7.90	19.95	\$51.35
Flax, Lewis Blue	0.20	1.33	\$3.30

Gayfeather, Dotted	0.06	0.18	\$9.00
Penstemon, Rocky Mountain	0.20	3.13	\$5.90
Yarrow, White	0.03	1.91	\$1.20
Totals Seed Mix	19.94	107.65	\$197.43

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
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$295.00	\$590.00
Total Mulch Materials Cost/Acre				\$590.00

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$70.17
Power mulcher (MEANS 32 91 13.16 0350)	\$95.83
Total Mulch Application Cost/Acre	\$166.00

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:	55	Cost /Acre:	\$1,287.36
Estimated Failure Rate:	25%	Cost /Acre*:	\$429.43
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$70,804.80
Reseeding Job Cost:	\$5,904.66
Total Job Cost:	\$76,709
Job Hours:	55.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mobilization/Demobilization

Site: Pit 29

Permit Action: SR02

Permit/Job#: M1980183

PROJECT IDENTIFICATION

Task #: 005

State: Colorado

Abbreviation: None

Date: 8/2/2019

County: Adams

Filename: M183-005

User: JLE

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:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$17.20	\$29.63	\$38.69
Operating Cost/Hour:	\$26.56	\$47.02	\$55.69
Operator Cost/Hour:	\$23.63	\$23.63	\$23.63
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$67.39	\$123.81	\$141.54

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	60.01	\$121.49	\$141.54	2	\$526.06	\$283.08	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$18.15	\$67.39	2	\$171.08	\$134.78	\$250.00
Power Mulcher (Bowie LD-90)	6.00	\$9.74	\$67.39	1	\$77.13	\$67.39	\$250.00

Subtotals: **\$774.27** **\$485.25** **\$1,000.00**

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.	\$167.39	1	\$167.39	\$167.39

Subtotals: **\$167.39** **\$167.39**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>DENVER</u>	
Total one-way travel distance:	<u>10.00</u>	miles
Average Travel Speed:	<u>45.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$5,656.87</u>
'* two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$74.40</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.22	0.22
Return Time (Hours):	0.22	0.22
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.44	0.44

JOB TIME AND COST

Total job time:	<u>4.89</u>	Hours
Total job cost:	<u>\$5,731</u>	