

COST SUMMARY WORK

Task description: _____

Site: Otter Creek Pit Permit Action: Reclamation
Cost Estimate Permit/Job#: M2012050

PROJECT IDENTIFICATION

Task #: 001 State: Colorado Abbreviation: None
Date: 3/20/2013 County: Mesa Filename: M050-001
User: THM

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Equipment Removal	DEMOLISH	1	0.00	\$4,000.00
02a	Backfill 500 ft. of 1H:1V	LOADER	1	42.56	\$6,671.00
03a	Push Backfill Down 3H:1V Slope	DOZER	1	6.86	\$1,871.07
04a	Topsoil berm pushed to backfill	DOZER	1	53.02	\$14,457.26
05a	Move topsoil to 6 acre overburden storage area	TRUCK1	1	17.39	\$16,172.69
06a	Topsoil Compaction Releif	RIPPER	1	20.54	\$2,786.00
07a	Revegetate 12.5 acres	REVEGE	1	16.00	\$33,364.63
08a	Revegetate 1.2 Acres Wetland Area	REVEGE	1	8.00	\$6,921.45
09a	Mobilization	MOBILIZE	1	2.57	\$6,944.69
<u>SUBTOTALS:</u>				166.94	\$93,188.79

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02%	Total =	\$1,882.41
Performance bond:	1.05%	Total =	\$978.48
Job superintendent:	83.47 hrs	Total =	\$5,459.77
Profit:	10.00%	Total =	\$9,318.88

TOTAL O & P = \$17,639.54

CONTRACT AMOUNT (direct + O & P) = \$110,828.33

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	<u>500.00</u>	Total =	<u>500.00</u>
Engineering work and/or contract/bid preparation:	<u>4.25%</u>	Total =	<u>\$4,710.20</u>
Reclamation management and/or administration:	<u>5.00%</u>		<u>\$5,541.42</u>

CONTINGENCY: 3.00 Total = \$2,795.66

TOTAL INDIRECT COST = \$31,186.82

TOTAL BOND AMOUNT (direct + indirect) = \$124,375.61

DEMOLITION WORK

Task description: Equipment Removal

Site: Otter Creek Pit Permit Action: Reclamation Cost
Estimate Permit/Job#: M2012050

PROJECT IDENTIFICATION

Task #: 01A State: Colorado Abbreviation: None
Date: 3/18/2013 County: Mesa Filename: M050-01a
User: THM

Agency or organization name: DRMS

UNIT COSTS

Location adjustment: 100.00 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Removal of Buried Truck Scale	15' x 60'	USER PROVIDED ITEM	1.00	1	\$3,500.00	\$3,500.00
Removal of 500 gallon tank	500 gal	USER PROVIDED ITEM	1.00	1	\$250.00	\$250.00
Removal of Pit Pump and Piping	n/a	USER PROVIDED ITEM	1.00	1	\$250.00	\$250.00

Job Hours: 0.00 Subtotal (unadjusted): \$4,000.00 Total Cost (adjusted for location): \$4,000.00

WHEEL LOADER – LOAD AND CARRY WORKTask description: Backfill 500 ft. of 1H:1V

Site: Otter Creek Pit Permit Action: Reclamation Cost Estimate Permit/Job#: M2012050

PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None
 Date: 3/18/2013 County: Mesa Filename: M050-02a
 User: THM

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**

Basic Machine: CAT 980H high lift Horsepower: 315
 Attachment 1: ROPS Cab Shift Basis: 1 per day
 Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$43.47	NA
Operating Cost/Hour:	\$77.01	100
Operator Cost/Hour:	\$36.27	NA
Total Unit Cost/Hour:	\$156.75	
Total Fleet Cost/Hour:	\$156.75	

MATERIAL QUANTITIES

Initial volume: 5,350 CCY Swell factor: 1.000
 Loose volume: 5,350 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTIONLoader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 3/4" to 6" diameter 0.00	0.000	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high or less 0.01	0.010	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Inconsistent operation 0.04	0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		0.010	minutes
Adjusted Basic Cycle Time:		0.560	minutes

Rolling Resistance – Road Conditions

Haul: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0
 Return: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0

Haul and Return Time

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	1300	0.00	5.00	5.00	1.1492	(Cat HB)
Return Route:	1300	0.00	5.00	5.00	1.0392	(Cat HB)

Total Travel Time: 2.1884 minutes
 Total Cycle Time: 2.7484 minutes

Load Bucket Capacity

Rated Capacity: 7.50 LCY (heaped)
 Bucket Fill Factor: 0.925 Loose material - 1/8" to 3/8" (90 - 95%) 0.925
 Adjusted Capacity: 6.94 LCY

Job Condition Correction Factors

Site Altitude: 4630 feet

Altitude Adj:	<u>1.00</u>	Source
Job Efficiency:	<u>0.83</u>	(CAT HB)
Net Correction:	<u>0.83</u>	(1 shift/day)
		multiplier

Unadjusted Hourly Unit Production: 151.45 LCY/Hour
 Adjusted Hourly Unit Production: 125.70 LCY/Hour
 Adjusted Hourly Fleet Production: 125.70 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Loader(s) Total job time: 42.56 Hours
 Unit cost: \$1.247 /LCY Total job cost: \$6,671.00

BULLDOZER WORKTask description: Push Backfill Down 3H:1V SlopeSite: Otter Creek PitPermit Action: Reclamation Cost
EstimatePermit/Job#: M2012050**PROJECT IDENTIFICATION**Task #: 03A
Date: 3/18/2013
User: THMState: Colorado
County: MesaAbbreviation: None
Filename: M050-03aAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SU
Horsepower: 405
Blade Type: Semi-Universal
Attachment: 3-shank ripper
Shift Basis: 1 per day
Data Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$78.33</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$146.66</u>	<u>100</u>
Ripper op. Cost/Hour:	<u>\$8.83</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.85</u>	<u>NA</u>
Total unit Cost/Hour:	<u>\$272.67</u>	
Total Fleet Cost/Hour:	<u>\$272.67</u>	

MATERIAL QUANTITIESInitial Volume: 5,350
Swell factor: 1.115
Loose volume: 5,965 LCYSource of estimated volume: Division of Reclamation, Mining & Safety
Source of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 50 feet
Unadjusted hourly production: 2,110.5 LCY/hrMaterials consistency description: Loose stockpile 1.2Average push gradient: 15 %
Average site altitude: 4,630 feetMaterial weight: 2,500 lbs/LCYWeight description: Clay - Dry**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>1.200</u>	<u>(CAT HB)</u>

Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4119

Adjusted unit production: 869.31 LCY/hr

Adjusted fleet production: 869.31 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.314/LCY

Total job time: 6.86 Hours

Total job cost: \$1,871.07

BULLDOZER WORKTask description: Topsoil berm pushed to backfillSite: Otter Creek PitPermit Action: Reclamation Cost EstimatePermit/Job#: M2012050**PROJECT IDENTIFICATION**Task #: 04A
Date: 3/18/2013
User: THMState: Colorado
County: MesaAbbreviation: None
Filename: M050-04aAgency or organization name: DRMS**HOURLY EQUIPMENT COST**Basic Machine: Cat D9T - 9SU
Horsepower: 405
Blade Type: Semi-Universal
Attachment: 3-shank ripper
Shift Basis: 1 per day
Data Source: (CRG)**Cost Breakdown:**

		<u>Utilization %</u>
Ownership Cost/Hour:	<u>\$78.33</u>	<u>NA</u>
Operating Cost/Hour:	<u>\$146.66</u>	<u>100</u>
Ripper op. Cost/Hour:	<u>\$8.83</u>	<u>100</u>
Operator Cost/Hour:	<u>\$38.85</u>	<u>NA</u>

Total unit Cost/Hour: \$272.67Total Fleet Cost/Hour: \$272.67**MATERIAL QUANTITIES**Initial Volume: 18,518
Swell factor: 1.115
Loose volume: 20,648 LCYSource of estimated volume: Division of Reclamation, Mining & SafetySource of estimated swell factor: Cat Handbook**HOURLY PRODUCTION**Average push distance: 90 feet
Unadjusted hourly production: 1,351.7 LCY/hrMaterials consistency description: Dry, non-cohesive 0.8Average push gradient: 10 %
Average site altitude: 4,630 feetMaterial weight: 2,500 lbs/LCYWeight description: Clay - Dry**Job Condition Correction Factor**

		<u>Source</u>
Operator Skill:	<u>0.750</u>	<u>(AVG.)</u>
Material consistency:	<u>0.800</u>	<u>(CAT HB)</u>

Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.920	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2881

Adjusted unit production: 389.42 LCY/hr

Adjusted fleet production: 389.42 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.700/LCY

Total job time: 53.02 Hours

Total job cost: \$14,457.26

TRUCK/LOADER TEAM WORKTask description: Move topsoil to 6 acre overburden storage area

Site: Otter Creek Pit Permit Action: Reclamation Cost Estimate Permit/Job#: M2012050

PROJECT IDENTIFICATION

Task #: 05A State: Colorado Abbreviation: None
 Date: 3/18/2013 County: Mesa Filename: M050-05a
 User: THM

Agency or organization name: DRMS**HOURLY EQUIPMENT COST**Shift basis: 1 per day

Equipment Description	
Truck Loader Team -Truck:	Cat 769D
-Loader:	CAT 980H high lift
Support Equipment -Load Area:	NA
-Dump Area:	Cat D9T - 9SU
Road Maintenance -Motor Grader:	CAT 140M
-Water Truck:	Water Tanker, 5,000 Gal.

<u>Cost Breakdown:</u>	Truck/Loader Team		Support Equipment		Maintenance Equipment	
	Truck	Loader	Load Area	Dump Area	Motor Grader	Water Truck
%Utilization-machine:	100	100	NA	100	100	100
Ownership cost/hour:	\$41.57	\$43.47	NA	\$69.88	\$26.17	\$20.80
Operating cost/hour:	\$98.38	\$77.01	NA	\$146.66	\$50.53	\$48.82
Ripper op. cost/hour:	NA	\$0.00	NA	\$0.00	\$0.00	\$0.00
Operator cost/hour:	\$26.92	\$36.27	NA	\$38.85	\$37.83	\$0.00
Unit Subtotals:	\$166.87	\$156.75	NA	\$255.39	\$114.54	\$69.62
Number of Units:	2	1	0	1	1	1
Group Subtotals:	Work: \$490.49		Support: \$255.39		Maint: \$184.16	

Total work team cost/hour: \$930.04**MATERIAL QUANTITIES**

Initial volume: 9,680 CCY Swell factor: 1.115
 Loose volume: 10,793 LCY

Source of estimated volume: Division of Reclamation, Mining & Safety
 Source of estimated swell factor: Cat Handbook
 Material Purchase Cost: \$0.00
 Total Cost: \$0.00

HOURLY PRODUCTION**Truck Capacity:****Truck Payload (weight) Basis:**

Material weight: 2,500 Pounds/LCY
 Description: Clay - Dry
 Rated Payload: 82,000 Pounds
 Payload Capacity: 32.80 LCY

Truck Bed (volume) Basis:

Struck Volume:	21.60	LCY
Heaped Volume:	31.70	LCY
Average Volume:	26.65	LCY
Adjusted Volume:	31.70	LCY

Final Truck Volume Based on Number of Loader Passes: 27.75 LCY

Loading Tool Capacity

Bucket Size Class: NA

Rated Capacity:	7.500	LCY (heaped)
Bucket Fill Factor:	0.925	Loose material - 1/8" to 3/8" (90 - 95%) 0.925
Adjusted Capacity:	6.938	LCY

Job Condition Corrections:

Site Altitude (ft.): 4630 feet

	Truck	Loader	Source
Altitude Adj:	1.000	1.000	(CAT HB)
Job Efficiency:	0.830	0.830	(CAT HB)
Net Correction:	0.830	0.830	

Loading Tool Cycle Time: Number of Loading Tool Passes Required to Fill Truck: 4 passes

Excavators and Front Shovels:

Machine Cycle Time vs. Job Condition Rating: NA
 Selected Value within this Basic Rating: NA

Track Loaders – Material Description: _____

Cycle Time Elements (min.):

Load: NA Maneuver: NA Dump: 0.100

Wheel and Track Loaders - Unadjusted Basic Loader Cycle Time (load, dump, maneuver): 0.550 minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material 1/8" to 3/4" diameter -0.02	-0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high or less 0.01	0.010	(Cat HB)
Truck Ownership:	Common ownership of trucks and loaders -0.04	-0.040	(Cat HB)
Operation:	Constant operation -0.04	-0.040	(Cat HB)
Dump Target:	Nominal target 0.00	0.000	(Cat HB)
Net Cycle Time Adjustment:		-0.090	minutes
Adjusted Loader Cycle Time:		0.460	minutes
Net Load Time per Truck:		1.480	minutes

Truck Cycle Time:

Truck Exchange Time:	0.60	Minutes	Adjusted for site altitude:	0.600	Minutes
Truck Load Time:	1.480	Minutes	Adjusted for site altitude:	1.480	Minutes
Truck Maneuver and Dump Time:	1.00	Minutes	Adjusted for site altitude:	1.000	Minutes

Truck Travel (Haul & Return) Time:
penetration 4.0

Road Condition: Rutted dirt, little maintenance, no water, 1" tire

Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	0.00	4.00	4.00	2051	0.735

Haul Time: 0.735 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	1000.00	0.00	4.00	4.00	3891	0.638

Return Time: 0.638 minutesTotal Truck Cycle Time: 4.453 minutes

Loading Tool unit

Production 800.48 LCY/Hour Adjusted for job efficiency: 664.40 LCY/Hour

Truck Unit Production 373.91 LCY/Hour Adjusted for job efficiency: 310.34 LCY/Hour

Optimal No. of Trucks: 2 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 620.68 LCY/Hour
Adjusted single truck/loader team production: 620.68 LCY/Hour
Adjusted multiple truck/loader team production: 620.68 LCY/Hour

JOB TIME AND COST

Fleet size: 1 Team(s) Total job time: 17.39 Hours

Unit cost: \$1.498 /LCY Total job cost: \$16,172.69

BULLDOZER RIPPING WORK

Task description: Topsoil Compaction Relief

Site: Otter Creek Pit

Permit Action: Reclamation Cost
Estimate

Permit/Job#: M2012050

PROJECT IDENTIFICATION

Task #: 06A
Date: 3/18/2013
User: THM

State: Colorado
County: Mesa

Abbreviation: None
Filename: M050-06a

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine: Cat D6T
Ripper Attachment: 3-Shank Ripper

Horsepower: 185
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

		Utilization %
Ownership Cost/Hour:	\$33.12	NA
Operating Cost/Hour:	\$60.42	100
Ripper Operating Cost/Hour:	\$3.22	100
Operator Cost/Hour:	\$38.85	NA
Total Unit Cost/Hour:	\$135.61	
Total Fleet Cost/Hour:	\$135.61	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic: NA Bank Volume: NA BCY NA
Area: 12.50 acres Rip Depth (ft): 1.00 Volume: 20,167 BCY or CCY

Source of estimated quantity: Exhibit L

HOURLY PRODUCTION

Seismic:

Seismic Velocity: NA feet/second

Area:

Average Ripping Depth: 1.64 mph
Average Ripping Width: 6.58 degrees
Average Ripping Length: 250.00 feet
Average Dozer Speed: 88.00 feet
Average Maneuver Time: 0.25 feet
Production per unit area: 0.733 acres/hour

Job Condition Correction Factors

Unadjusted Hourly Unit Production: 0.733 Acres/hr
Site Altitude: 4,630 feet
Altitude Adj: 1.00 (CAT HB)
Job Efficiency: 0.83 (1 shift/day)
Net Correction: 0.83 multiplier

Adjusted Hourly Unit Production: 0.61 Acres/hr
Adjusted Hourly Fleet Production: 0.61 Acres/hr

JOB TIME AND COST

Fleet size: 1 Grader(s) Total job time: 20.54 Hours

Unit cost: \$222.880 Per acre Total job cost: \$2,786.00

REVEGETATION WORKTask description: Revegetate 12.5 acresSite: Otter Creek PitPermit Action: Reclamation Cost
EstimatePermit/Job#: M2012050PROJECT IDENTIFICATIONTask #: 07AState: ColoradoAbbreviation: NoneDate: 3/18/2013County: MesaFilename: M050-07aUser: THMAgency or organization name: DRMSFERTILIZINGMaterials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
12-4-8	100.00	pound	\$0.48	\$47.50
			Total Fertilizer Materials Cost/Acre	\$47.50

Application

Description	Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)	\$52.71
Total Fertilizer Application Cost/Acre	\$52.71

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$98.01
Total Tilling Cost/Acre	\$98.01

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Sand Dropseed	1.90	226.81	\$13.26
Sandberg Bluegrass - VNS	1.50	31.85	\$13.02
Galleta	1.90	6.94	\$47.88
Rabbitbrush, Rubber	0.20	2.98	\$7.32
Winter Fat	1.13	2.87	\$36.78
Yarrow, Western	0.40	24.32	\$12.26
Kochia, Forage (Prostrate)	0.20	28.09	\$2.48
Globemallow, Munro	0.40	4.53	\$32.69
Totals Seed Mix	7.63	328.39	\$165.69

Application

Description	Cost /Acre
Drill seeding (DRMS Cost Data)	\$88.20
Total Seed Application Cost/Acre	\$88.20

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	100.00	ACRE	\$1.23	\$123.00
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$653.00

Application

Description	Cost /Acre
Crimping, with tractor {DMG survey data}	\$65.89
Power mulcher (MEANS 32 91 13.16 0250)	\$86.68
Weed spray, truck, aquatic area, nox. [DMG]	\$61.49
Total Mulch Application Cost/Acre	\$214.06

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Cottonwood, Narrowleaf	100	Container, 1 gallon (MEANS)	\$13.50	\$0.00	\$1,350.00
Totals Nursery Stock Cost / Acre					\$1,350.00

JOB TIME AND COST

No. of Acres:	12.5	Cost /Acre:	\$2,669.17
Estimated Failure Rate:	40%	Cost /Acre*:	\$0.00
*Selected Replanting Work Items:	NONE		

Initial Job Cost:	\$33,364.63
Reseeding Job Cost:	\$0.00
Total Job Cost:	\$33,364.63
Job Hours:	16.00

REVEGETATION WORKTask description: Revegetate 1.2 Acres Wetland AreaSite: Otter Creek PitPermit Action: Reclamation Cost EstimatePermit/Job#: M2012050**PROJECT IDENTIFICATION**Task #: 08AState: ColoradoAbbreviation: NoneDate: 3/20/2013County: MesaFilename: M050-08aUser: THMAgency 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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alkali Sacaton	2.00	78.05	\$45.62
Aquatic Sedge	0.20	5.29	\$46.99
Orchardgrass - Paiute	2.00	24.79	\$4.32
Slender Wheatgrass - Native	6.00	21.90	\$13.50
Western Wheatgrass - Native	0.20	0.51	\$0.61
Red Top	2.00	229.11	\$12.26
Reedgrass, Canadian (or Blue Joint)	0.40	41.14	\$81.24
Reedgrass, Northern - Native	1.00	102.85	\$137.92
Saltgrass, Inland	2.00	27.72	\$93.98

Snowberry, Western	2.00	3.44	\$134.86
Sumac, Skunkbrush	0.80	0.37	\$28.34
Timothy - Climax	2.00	57.39	\$2.30
Basin Wildrye - Trailhead	3.00	12.19	\$19.65
Greasewood, Black	2.00	280.90	\$43.26
Totals Seed Mix	25.60	885.66	\$664.85

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$261.28
Total Seed Application Cost/Acre	\$261.28

MULCHING and MISCELLANEOUS**Materials**

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - 2,4D @ 1.0 pt/ac	100.00	ACRE	\$1.23	\$123.00
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$653.00

Application

Description	Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)	\$2,855.60
Weed spray, hand, aquatic area, nox. [DMG]	\$179.57
Total Mulch Application Cost/Acre	\$3,035.17

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:	1.2	Cost /Acre:	\$4,614.30
Estimated Failure Rate:	25%	Cost /Acre*:	\$4,614.30
*Selected Replanting Work Items:	SEEDING,MULCHING		
Initial Job Cost:	\$5,537.16		
Reseeding Job Cost:	\$1,384.29		
Total Job Cost:	\$6,921.45		
Job Hours:	8.00		

EQUIPMENT MOBILIZATION/DEMOBILIZATIONTask description: Mobilization

Site: Otter Creek Pit Permit Action: Reclamation Cost Estimate Permit/Job#: M2012050

PROJECT IDENTIFICATION

Task #: 09A State: Colorado Abbreviation: None
 Date: 3/20/2013 County: Mesa Filename: M050-09a
 User: THM

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:	\$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 D9T - 9SU	60.01	\$69.88	\$125.45	1	\$195.33	\$125.45	\$250.00
Cat D6T LGP	26.87	\$35.09	\$117.55	1	\$152.64	\$117.55	\$250.00
CAT 980H high lift	33.12	\$43.47	\$117.55	1	\$161.02	\$117.55	\$250.00
Cat 769D	37.54	\$41.57	\$117.55	2	\$318.23	\$235.10	\$500.00
CAT 140M	16.68	\$26.17	\$88.67	1	\$114.84	\$88.67	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00

Subtotals: **\$1,166.02** **\$861.66** **\$2,000.00**

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Water Tanker, 5,000 Gal.	\$69.62	1	\$69.62	\$69.62
Light Duty Pickup, 4x4, 3/4 T.	\$15.66	3	\$46.98	\$46.98

Subtotals: **\$116.60** **\$116.60**

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	<u>GRAND JUNCTION</u>	
Total one-way travel distance:	<u>5.00</u>	miles
Average Travel Speed:	<u>35.00</u>	mph

Total Non-Roadable Mob/Demob Cost *	<u>\$6,911.38</u>
** two round trips with haul rig:	
Total Roadable Mob/Demob Cost **	<u>\$33.31</u>
** one round trip, no haul rig:	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.14	0.14
Return Time (Hours):	0.14	0.14
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.29	0.29

JOB TIME AND COST

Total job time: 2.57 Hours

Total job cost: \$6,944.69