### **COST SUMMARY WORK**

Task description: AM2 Financial Warrranty Estimate

Site: Camilletti Pit Permit Action: AM2 Permit/Job#: M1987164

#### **PROJECT IDENTIFICATION**

Task #: \_\_000 State: Colorado Abbreviation: None

Date: 1/29/2014 County: Routt Filename: M164-000
User: DMC

Agency or organization name: DRMS

#### TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Demolition of asphalt plant and support facilities	DEMOLISH	1	40.00	\$30,744.29
02a	Transport backfill material to highwalls in Phase 1 LOADER area		2	58.64	\$16,151.00
03a	Establish 3H:1V slopes in Phase 1 area	DOZER	2	31.00	\$12,285.70
04a	Rip pit floor in Phase 1 area	RIPPER	1	5.12	\$1,082.00
05a	Transport topsoil from stockpiles	LOADER	2	103.31	\$48,573.00
06a	Distribute topsoil	DOZER	2	27.70	\$10,976.21
07a	Revegetate Camilletti Hay Meadows	REVEGE	1	20.00	\$50,918.63
07b	Revegetate Phase 1 Dryland Pasture	REVEGE	1	20.00	\$14,898.38
08a	Mobilize reclamation crew and equipment	MOBILIZE	1	4.22	\$5,572.61
		SUBTO	OTALS:	309.99	\$191,201.82

#### **INDIRECT COSTS**

#### **OVERHEAD AND PROFIT:**

 Liability insurance:
 2.02%
 Total = \$3,862.28

 Performance bond:
 1.05%
 Total = \$2,007.62

 Job superintendent:
 154.99 hrs
 Total = \$10,137.90

Profit: 10.00% Total =  $\frac{$10,157.50}{$19,120.18}$ 

TOTAL O & P =  $\frac{$35,127.98}{$226,329.80}$ 

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 500.00 Total = 500.00

Engineering work and/or contract/bid preparation: Reclamation management and/or administration: 5.00% Total = \$0.00

Total = 500.00

Total = \$0.00

\$11,316.49

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$46,944.47

TOTAL BOND AMOUNT (direct + indirect) = \$238,146.29

# **DEMOLITION WORK**

Site:	Camilletti Pit	Permit Action:	AM2	Permit/Job#: M1987164
ROJEC	CT IDENTIFICAT	<u> TION</u>		
Task #: Date: User:	01A 1/29/2014 DMC	State: Colorado County: Routt		Abbreviation: None Filename: 8716401a

## **UNIT COSTS**

## Location adjustment: 91.30 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Asphalt plant structures	30,000 c.f.	Plant (3S) demo./off-site disposal in approved landfill - Max. 15 mile haul	30,000.00	CF	\$1.08	\$32,460.00
Scale/load out ramp	360	Demo. and on-site disposal in excavated pit, 12 in. thick - Max. 50 ft. push	360.00	SF	\$3.37	\$1,213.92

Subtotal Cost

Subtotal (adjusted for

Job Hours: 40.00 (unadjusted): \$33,673.92 location): \$30,744.29

## WHEEL LOADER – LOAD AND CARRY WORK

Task description:

Transport backfill material to highwalls in Phase 1 area

Site: Camilletti Pit

Permit Action: AM2

Permit/Job#: M1987164

Filename:

PROJECT IDENTIFICATION

Task #: 02A

State: County: Colorado Routt

Abbreviation:

None

M164-02a

Date: 7/29/2011 User: **DMC** 

Agency or organization name: DRMS

**HOURLY EQUIPMENT COST** 

Basic Machine:

**CAT 980H** 

Horsepower:

315

Attachment 1:

**ROPS Cab** 

Shift Basis:

2 per day

Data Source:

(CRG)

Cost Breakdown:

Ownership Cost/Hour:

Operating Cost/Hour: Operator Cost/Hour:

\$35.97 \$137.71

\$27.56

\$74.19

Total Unit Cost/Hour: Total Fleet Cost/Hour:

\$275.42

**MATERIAL QUANTITIES** 

Initial volume:

CCY

Swell factor: 1.124

Utilization %

NA

100

NA

Loose volume:

31,835 Source of estimated volume:

LCY

Onsite observations

Source of estimated swell factor:

Cat Handbook

**HOURLY PRODUCTION** 

**Loader Cycle Time:** 

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

minutes

Cycle Time Factors		Factor (min.)	Source
Material:	Material up to 1/8" diameter 0.02	0.020	(Cat HB)
Stockpile:	Conveyor or dozer piled 10 ft. high and up 0.00	0.000	(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:	-0.060	minutes

Adjusted Basic Cycle Time:

-0.060 0.490

minutes minutes

Rolling Resistance – Road Conditions

Haul:

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

Return:

Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul and Return Time

T T	Length (feet)	Grade Res.	Rolling Res. (%)	Total Res.	Travel Time (minutes)	Source
Haul Route:	500	0.00	5.00	5.00	0.4420	(Cat HB)
Return Route:	500	0.00	4.00	4.00	0.3773	(Cat HB)

		Total Travel Tin Total Cycle Tin		minutes minutes
Load Bucket Capacity				
Rated Capacity: Bucket Fill Factor: Adjusted Capacity:		heaped) material - uniform ag	gregates to 1/8" (95-1	00%) 0.975
Job Condition Correction F Site Altitude: 6500 feet				
Altitude Adj: Job Efficiency: Net Correction:	Sour   1.00   (CAT   0.81   (2 shifts   0.81   multipl	HB) s/day)		
Ad	justed Hourly Unit Productio justed Hourly Unit Productio usted Hourly Fleet Productio	n: 271.43	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND COST	<u>r</u>			
Fleet size: 2	Loader(s)	Total job time: _	58.64	Hours
Unit cost: \$0.50	7 /LCY	Total job cost:	\$16,151.00	

#### BULLDOZER WORK

Task o	escription:	Establish 3H:1V slopes in Phase 1 area		

Site: Camilletti Pit Permit Action: AM2 Permit/Job#: M1987164

**PROJECT IDENTIFICATION** 

Task #:03AState:ColoradoAbbreviation:NoneDate:7/29/2011County:RouttFilename:M164-03a

User: DMC

Agency or organization name: DRMS

**HOURLY EQUIPMENT COST** 

Basic Machine: Cat D8T - 8U

Horsepower: 310
Blade Type: Universal
Attachment: NA
Shift Basis: 1 per day
Data Source: (CRG)

Cost Breakdown:

 Ownership Cost/Hour:
 \$56.69
 NA

 Operating Cost/Hour:
 \$104.06
 100

 Ripper op. Cost/Hour:
 \$0.00
 0

 Operator Cost/Hour:
 \$37.41
 NA

Total unit Cost/Hour: \$198.16
Total Fleet Cost/Hour: \$396.32

**MATERIAL QUANTITIES** 

Initial Volume: 28,333
Swell factor: 1.124
Loose volume: 31,835 LCY

Source 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: 1,627.0 LCY/hr

Materials consistency description: Loose stockpile 1.2

Average push gradient: 15 %

Average site altitude: 6,500 feet

Material weight: 2,900 lbs/LCY

Weight description: Sand and gravel - Dry

Job Condition Correction FactorSourceOperator Skill:0.750(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:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.3156

Adjusted unit production: 513.48 LCY/hr

Adjusted fleet production: 1026.96 LCY/hr

## **JOB TIME AND COST**

Fleet size: 2 Dozer(s)

Unit cost: \$0.386/LCY

Total job time: 31.00 Hours

Total job cost: \$12,285.70

# **BULLDOZER RIPPING WORK**

	Task description	n: <b>Rip</b> p	it floor in Phase 1	area			
Site	: Camilletti Pi	t	Permit Act	ion: AM2	Permit/Job	#: M1987164	
	PROJECT II	<u>ENTIFICATIO</u>	<u>ON</u>				
		4A /29/2011	State: Color County: Routt		Abbreviation:		
		MC	County: Routt		Filename:	M164-04a	
	Agenc	y or organization	name: DRMS				
	HOURLY E	DUIPMENT CO	<u>OST</u>				
	Basic	Machine: Cat	D8T - 8U		Horsepower:	310	
	Ripper A	ttachment: 3-Sl	nank Ripper			per day	
	Cost Breakdow				Data Source:	(CRG)	
	Cost Breakdow	<u>n:</u>			Utilization %		
		Ownership Co		\$63.00	NA		
	<b>D</b> .	Operating Co		\$104.06	100		
	Rij	pper Operating Co		\$6.53	100		
		Operator Co Total Unit Co		\$37.41 \$211.01	NA		
	Total Fleet Cost/Hour: \$211.01						
		QUANTITIES		Selected estimatin	g method: Area		
	Alternate Metho	ods:					
Seismic: Area:			Bank Volum		BCY	NA	
Alca.							
		Source of estin	nated quantity: S	ite maps			
	<b>HOURLY PH</b>	RODUCTION					
	Seismic:						
			Seismic Velocity:	NA	feet/second		
	Area:						
			e Ripping Depth:	2.56	mph		
			e Ripping Width:	7.08	degrees		
			Ripping Length:	500.00	feet		
			age Dozer Speed: _ Maneuver Time:	88.00	feet		
		_	ion per unit area:	0.25 0.822	feet		
	Ich Condition (	Correction Factors	_	0.622	acres/hour		
		Jnadjusted Hourly		0.833	À/1.		
		madjusted Hourty	_	0.822	Acres/hr		
			Site Altitude:	6,500	feet		
			Altitude Adj:	1.00	(CAT HB)		
			Job Efficiency: Net Correction:	0.83 0.83	(1 shift/day)		
			_		multiplier		
			Hourly Unit Produc		Acres/hr		
		-	Hourly Fleet Produc	tion: 0.68	Acres/hr		
	JOB TIME A	ND COST					
	Fleet size:	1	Grader(s)	Total job ti	me: 5.13	Hours	
	Unit cost:	\$309.276	Per acre	Total job c	ost: <b>\$1,082.00</b>		

## WHEEL LOADER - LOAD AND CARRY WORK

Task description: Transport topsoil from stockpiles Site: Camilletti Pit Permit Action: AM2 Permit/Job#: M1987164 **PROJECT IDENTIFICATION** Task #: 05A State: Colorado Abbreviation: None Date: 7/29/2011 County: Routt Filename: M164-05a User: **DMC** Agency or organization name: DRMS **HOURLY EQUIPMENT COST** Basic Machine: CAT 988H Horsepower: 475 Attachment 1: **ROPS Cab** Shift Basis: 1 per day Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$82.23 NA Operating Cost/Hour: \$117.03 100 Operator Cost/Hour: \$35.82 NA Total Unit Cost/Hour: \$235.07 Total Fleet Cost/Hour: \$470.14 **MATERIAL QUANTITIES** Initial volume: CCY Swell factor: 1.000 Loose volume: 77,440 LCY Source of estimated volume: Division of Reclamation, Mining & Safety Source of estimated swell factor: Cat Handbook **HOURLY PRODUCTION** Loader Cycle Time: Unadjusted Basic Cycle Time (load, dump, maneuver): 0.575 minutes Cycle Time Factors Factor (min.) Source Material up to 1/8" diameter 0.02 Material: 0.020 (Cat HB) Stockpile: Conveyor or dozer piled 10 ft. high and up 0.00 0.000 (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: -0.060 minutes Adjusted Basic Cycle Time: 0.515 minutes Rolling Resistance – Road Conditions Haul: Rutted dirt, little maintenance, no water, 2" tire penetration 5.0 Rutted dirt, little maintenance, no water, 2" tire penetration 5.0 Return: Haul and Return Time Length Grade Res. Rolling Total Res. Travel Time Source (feet) (%) Res. (%) (%) (minutes) Haul Route: 500 0.00 5.00 5.00 0.3662 (Cat HB)

Return Route:

500

0.00

5.00

5.00

(Cat HB)

0.3107

			Total Travel Tim Total Cycle Tim		minutes minutes
Load Bucket Capacity					
Rated Capacity Bucket Fill Facto Adjusted Capacity	r: 0.975	LCY (hea Loose ma	ped) terial - uniform agg	gregates to 1/8" (95	-100%) 0.975
Job Condition Correction Site Altitude: 6500 feet	n Factors				
Altitude Adj: Job Efficiency: Net Correction:	1.00 0.83 0.83	Source (CAT HB (1 shift/da multiplier			
A	adjusted Hourly Uni Adjusted Hourly Uni Adjusted Hourly Flee	it Production:	451.54 374.77 <b>749.55</b>	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND CO	ST				
Fleet size:	2 Loader(s	3)	Total job time: _	103.32	Hours
Unit cost: \$0.	627 /LCY		Total job cost:	\$48,573.00	

Total job cost: \$48,573.00

### **BULLDOZER WORK**

Camilletti Pit		Permit Action:	AM2	Permit/Job#:	M198716
PROJECT IDE	NTIFICATIO	<u> N</u>			
Task #: 06A		State: Colorado		Abbreviation:	None
And the second s	/2011	County: Routt		Filename:	M164-06a
User: DM	C				
Agency o	or organization r	name: DRMS			
HOURLY EQU	IPMENT CO	<u>ST</u>			
Basic Machine:	Cat D8T - 81	U			
Horsepower:	310		-		
Blade Type:	Universal		_		
Attachment:	NA		-		
Shift Basis:	1 per day		=		
Data Source:	(CRG)		-		
Cost Breakdown:					
			<u>Utilization %</u>		
Ownership Cost/		\$56.69	NA		
Operating Cost/		\$104.06	100		
Ripper op. Cost/	Hour:	\$0.00	0		
Operator Cost/	Hour:	\$37.41	NA		
MATERIAL Q Initial Volume: Swell factor: Loose volume:	77,440 1.000 77,440 LCY				
Initial Volume: Swell factor: Loose volume: Source of estimate	77,440 1.000 77,440 LCY ed volume:	Division of Reclamatic	on, Mining & Safety		
Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate	77,440 1.000 77,440 LCY ed volume: ed swell factor:	Division of Reclamatic	on, Mining & Safety		
Initial Volume: Swell factor: Loose volume: Source of estimate	77,440 1.000 77,440 LCY ed volume: ed swell factor:		on, Mining & Safety		
Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist	77,440 1.000 77,440 LCY ed volume: ed swell factor:  DDUCTION ance:		on, Mining & Safety		
Initial Volume: Swell factor: Loose volume: Source of estimate HOURLY PRO	77,440 1.000 77,440 LCY ed volume: ed swell factor:  DDUCTION ance:	Cat Handbook	on, Mining & Safety		
Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist	77,440 1.000 77,440 LCY ed volume: ed swell factor: DUCTION ance: y production:	Cat Handbook  50 feet 1,627.0 LCY/hr	on, Mining & Safety		
Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste	77,440 1.000 77,440 LCY ed volume: ed swell factor: DUCTION ance: / production:	Cat Handbook  50 feet 1,627.0 LCY/hr	on, Mining & Safety		
Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly	77,440 1.000 77,440 LCY ed volume: ed swell factor: DUCTION ance: production: ency description: dient: 0 %	Cat Handbook  50 feet 1,627.0 LCY/hr  Loose stockpile 1.2	on, Mining & Safety		
Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grad	77,440 1.000 77,440 LCY ed volume: ed swell factor:  DDUCTION ance: production: ency description: dient: dient: de: 6,500	Cat Handbook  50 feet 1,627.0 LCY/hr  Loose stockpile 1.2	on, Mining & Safety		
Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grad Average site altitu	77,440 1.000 77,440 LCY ed volume: ed swell factor:  DUCTION ance: production: ency description: dient: dient: dient: dient: 1,600	Cat Handbook  50 feet 1,627.0 LCY/hr  Loose stockpile 1.2  feet	on, Mining & Safety		
Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grac Average site altitu Material weight: Weight description	77,440  1.000  77,440 LCY  ed volume: ed swell factor:  DDUCTION  ance: production: ency description: dient: dient: dient: 1,600  1,600  Top Se	Cat Handbook  50 feet 1,627.0 LCY/hr  Loose stockpile 1.2  feet			
Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grad Average site altitu Material weight: Weight description Job Condition Con	77,440  1.000  77,440 LCY  ed volume: ed swell factor:  DDUCTION  ance: production: ency description: dient: dient: dient: 1,600  1,600  Top Se	Cat Handbook  50 feet 1,627.0 LCY/hr  Loose stockpile 1.2  feet	Source		
Initial Volume: Swell factor: Loose volume: Source of estimate Source of estimate HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grac Average site altitu Material weight: Weight description Op	77,440 1.000 77,440 LCY ed volume: ed swell factor:  DUCTION ance: production: ency description: dient: dient: die: 1,600 1,600 n: Top So	Cat Handbook  50 feet 1,627.0 LCY/hr  Loose stockpile 1.2  feet lbs/LCY oil			

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: 1,398.08 LCY/hr
Adjusted fleet production: 2796.16 LCY/hr

#### **JOB TIME AND COST**

Fleet size: 2 Dozer(s)

Unit cost: \$0.142/LCY

Total job time: 27.70 Hours
Total job cost: \$10,976.21

## **REVEGETATION WORK**

Task description: Revegetate Camilletti Hay Meadows Site: Camilletti Pit Permit Action: AM2 Permit/Job#: M1987164 **PROJECT IDENTIFICATION** Task #: 07A State: Colorado Abbreviation: None Date: 7/29/2011 County: Routt Filename: M164-07a User: **DMC** Agency or organization name: DRMS **FERTILIZING** Materials Units / **Description** Cost / Unit Cost /Acre Acre Unit \$ \$ **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) \$98.01 Weed control spraying (MEANS 31 31 16.13 3100) \$145.20 Total Tilling Cost/Acre \$243.21 **SEEDING** Rate -Seed Mix Cost /Acre Seeds **PLS** per SQ. LBS/ FT Acre Alfalfa - Common 3.00 14.46 \$7.65 Smooth Brome - Manchar 1.63 5.43 \$3.21 19.89 **Totals Seed Mix** 4.63 \$10.86 **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
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$530.00

Application

Description  Crimping with tractor (DMC and the late)		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
	Total Mulch Application Cost/Acre	\$65.89

## **NURSERY STOCK PLANTING**

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		Т	otals Nursery Stoo	ek Cost / Acre	\$0.00

#### **JOB TIME AND COST**

Cost /Acre: \_\$938.16

No. of Acres: 43.42 Estimated Failure Rate: 25%

Cost /Acre\*: \$938.16

\*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$40,734.91
Reseeding Job Cost: \$10,183.73
Total Job Cost: \$50,918.63

Job Hours: **20.00** 

### **REVEGETATION WORK**

Task description: Revegetate Phase 1 Dryland Pasture Site: Camilletti Pit Permit Action: AM2 Permit/Job#: M1987164 **PROJECT IDENTIFICATION** Task #: 07B State: Colorado Abbreviation: None Date: 1/29/2014 County: Routt Filename: M164-07b User: DMC Agency or organization name: DRMS **FERTILIZING** Materials Units / Description Cost / Unit Cost /Acre Acre Unit \$ **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) \$98.01 Weed control spraying (MEANS 31 31 16.13 3100) \$145.20 **Total Tilling Cost/Acre** \$243.21 **SEEDING** Rate -Seed Mix Seeds Cost /Acre **PLS** per SQ. LBS / FΤ Acre Smooth Brome - Manchar 6.50 21.64 \$12.81 Pubescent Wheatgrass - Luna 7.00 14.46 \$15.68 36.10 **Totals Seed Mix** 13.50 \$28.49 Application Description

Drill seeding (DRMS Cost Data)

Cost /Acre

\$88.20

Total Seed Application Cost/Acre	\$88.20

# **MULCHING and MISCELLANEOUS**

## Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$530.00

Application

Description Crimping, with tractor {DMG survey data}		Cost /Acre \$65.89
	Total Mulch Application Cost/Acre	\$65.89

## **NURSERY STOCK PLANTING**

				\$
	То	tals Nursery Stoo	ole Coot / A ave	\$0.00

#### **JOB TIME AND COST**

No. of Acres: 12.47

Cost /Acre: \$955.79

Estimated Failure Rate: 25% Cost /Acre\*: \$955.79

\*Selected Replanting Work Items: TILLING, SEEDING, MULCHING

Initial Job Cost: \$11,918.70

Reseeding Job Cost: \$2,979.68

Total Job Cost: \$14,898.38

Job Hours: **20.00** 

## **EQUIPMENT MOBILIZATION/DEMOBILIZATION**

Task description:

Mobilize reclamation crew and equipment

Site: Camilletti Pit

Permit Action: AM2

Permit/Job#: M1987164

**PROJECT IDENTIFICATION** 

Task #:

08A 7/29/2011

State: County: Colorado

Routt

Abbreviation:

None

Date: User:

**DMC** 

Filename:

M164-08a

Agency or organization name: DRMS

### **EQUIPMENT TRANSPORT RIG COST**

Shift basis:

l 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	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/ fleet	Cost/hr/ fleet	Cost/ fleet
Cat D8R Series II - 8U (2005)	53.17	\$45.97	\$125.45	2	\$342.83	\$250.90	\$500.00
CAT 980G (2001)	32.70	\$34.37	\$117.55	2	\$303.83	\$235.10	\$500.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00

Subtotals: \$774.92 \$574.67 \$1,250.00

## **ROADABLE EQUIPMENT:**

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Light Duty Pickup, 4x4, 1 T. Crew	\$20.91	1	\$20.91	\$20.91

Subtotals:

\$20.91

\$20.91

#### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:
Total one-way travel distance:
Average Travel Speed:

STEAMBOAT SPRINGS
miles
mph

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

\$23.23

#### Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.56	0.56
Return Time (Hours):	0.56	0.56
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.11	1.11

## **JOB TIME AND COST**

Total job time:	4.22	Hours
Total job cost:	\$5,572.61	