COST SUMMARY WORK

Task description:

Cost Summary

Site: Bonanza Land

Permit Action: 2017 Bond Calculation

Permit/Job#: P2017006

PROJECT IDENTIFICATION

Task #:

000

State: Colorado

Abbreviation:

None

Date:

6/5/2017 MAC User:

Clear Creek County:

Filename:

P006-000

Agency or organization name:

DRMS

TASK LIST (DIRECT COSTS)

Task		Form	Fleet	Task	"
	Description	Used	Size	Hours	Cost
001A	Grading Drill Pad/Backfilling Mud Pits	LOADER	1	0.49	\$42.00
001B	Regrade Roads	LOADER	1	0.24	\$21.00
002	Capping drill holes	BOREHOLE	1	0.00	\$270.70
003	Revegetating affected areas	REVEGE	1	8.00	\$375.00
004	Equipment Mobilization	MOBILIZE	1	4.50	\$1,887.00
		SUBTO	TALS:	13.23	\$2,596

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:

2.02

Performance bond: 1.05 Job superintendent:

0.00 10.00

Total = \$52.44

Total = \$27.26

Total = \$0.00 Total = \$259.60

TOTAL O & P = \$339.30

CONTRACT AMOUNT (direct + O & P) = \$2,935.30

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Profit:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:

Reclamation management and/or administration:

0.00 0.00 Total = 0.00

Total = \$0.00 \$146.77

CONTINGENCY:

0.00

5.00

Total = \$0.00

TOTAL INDIRECT COST = \$486.07

TOTAL BOND AMOUNT (direct + indirect) = \$3,082.07

TOTAL BOND AMOUNT (rounded up)

\$3,100.00

WHEEL LOADER - LOAD AND CARRY WORK

Task description:

Grading Drill Pad/Backfilling Mud Pits

Site: Bonanza Land

Permit Action: 2017 Bond Calculation

Permit/Job#: P2017006

Filename:

PROJECT IDENTIFICATION

Task #:

001A 6/5/2017

State: County: Colorado Clear Creek

Abbreviation:

None P17006

Date: User:

MAC

Agency or organization name: DRMS

HOURLY EQUIPMENT COST

Basic Machine:

Attachment 1:

CAT 450E ROPS Cab Horsepower:

101

Shift Basis: Data Source:

1 per day (CRG)

Cost Breakdown:

Ownership Cost/Hour:

Operating Cost/Hour: Operator Cost/Hour:

Total Unit Cost/Hour:

\$20.08 \$24.04 \$41.20 \$85.32

Total Fleet Cost/Hour:

\$85.32

MATERIAL QUANTITIES

Initial volume: Loose volume:

CCY LCY

Swell factor: 1.000

Source of estimated volume:

60

Division of Reclamation, Mining & Safety

Utilization %

NA

100

NA

Source of estimated swell factor: Cat Handbook

HOURLY PRODUCTION

Loader Cycle Time:

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

0.475

minutes

Cycle Time Factors		Factor (min.)	Source
Material:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Stockpile:	No adjustment - factor not applicable 0.00	0.000	(Cat HB)
Truck Ownership:	Independently owned trucks 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:	0.000	minutes

Adjusted Basic Cycle Time:

0.000 0.475 minutes minutes

Rolling Resistance - Road Conditions

Haul:

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

Return:

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

Haul and Return Time

	Length (feet)	Grade Res.	Rolling Res. (%)	Total Res.	Travel Time (minutes)	Source
Haul Route:	100	0.00	4.00	4.00	0.0635	(Cat HB)
Return Route:	100	0.00	4.00	4.00	0.0635	(Cat HB)

			Total Travel Tim Total Cycle Tim		minutes minutes
Load Bucket Capacity					
Rated Capac Bucket Fill Fac Adjusted Capac	tor: 1.025	LCY (hea Rock - Ea LCY	nped) orth Mixture (100%-	105%) 1.025	
Job Condition Correcti Site Altitude: 9500 fee					
Altitude Adj: Job Efficiency: Net Correction:	0.83	nit Production:	and the same of th	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND C	OST Loader((s)	Total job time:	0.50	Hours
Linit cost: \$	S0 706 /LCY		Total job cost:	\$42	

WHEEL LOADER - LOAD AND CARRY WORK

Bonanza Land		Permit Action	: 2017 Bon	d Calculation	Permit/Job#:	P2017006
PROJECT IDENT	<u> IFICATION</u>	1				
Task #: 001B		State: Colorad	0		Abbreviation:	None
Date: 6/5/201	7	County: Clear Cr			Filename:	P006-001B
User: MAC					-0.	·
Agency or o	organization nar	ne: DRMS				-215 015
HOURLY EQUIP	MENT COS	<u>r</u>				
Basic Machine	: CAT 450E	Ē		Horsepo	ower 1	101
Attachment 1				Shift E		er day
				Data So		RG)
Cost Breakdown:						
			Utilizatio	n %		
Ownership Co		\$20.08	NA			
Operating Co		\$24.04	100			
Operator Co		\$41.20	NA			
Total Unit Co	ost/Hour:	\$85.32	_			
Total Fleet C	ost/Hour:	\$85.32	_			
MATERIAL QUA	NTITIES					
Initial volume:		CCV	G		200	
Loose volume:	30	CCY LCY	Swe	ell factor: 1.0	000	
	ce of estimated			ition, Mining &	Safety	
Source o	f estimated swe	ell factor: Cat Ha	пароок	10-15-		
HOURLY PRODU	ICTION					
	 _					
Loader Cycle Time:	•	ted Basic Cycle Tim	e (load, dum	p, maneuver):	0.475	minutes
Cycle Time Fa					Factor (min.)	Source
		justment - factor no			0.000	(Cat HB)
		justment - factor no		0.00	0.000	(Cat HB)
Truck Owne		endently owned true	ks 0.04		0.040	(Cat HB)
		ant operation -0.04			-0.040	(Cat HB)
Dump T	arget: No ad	justment - factor no			0.000	(Cat HB)
			yele Time Ad sted Basic Cy		0.000	minutes
		•	accu masic Cy	cie i inte:	0.475	minutes
Rolling Resistance – I	Road Condition	<u>1S</u>				
Ha	aul: Rutted d	lirt, little maintenand	ce, no water	l" tire nenetrat	ion 4.0	
Retu	urn: Rutted d	lirt, little maintenand	e, no water.	1" tire penetrat	ion 4.0	
Usul and Datum Time	1,000					
Haul and Return Time	<u>2</u>					
		THE DESCRIPTION OF THE PERSON		V N	1	
	Length	Grade Res.	Rolling	Total Res.	Travel Time	C
	(feet)	(%)	Res. (%)	(%)	Travel Time (minutes)	Source
Haul Route: Return Route:						Source (Cat HB) (Cat HB)

			Total Travel Tin Total Cycle Tin		0.1269 0.6019	minutes minutes
Load Bucket Capacity						
Rated Capacity: Bucket Fill Factor: Adjusted Capacity:	1.50 1.025 1.54	LCY (hear Rock - Ear LCY	ped) rth Mixture (100%	o-105%) 1.	.025	
Job Condition Correction F Site Altitude: 9500 feet		Let				
Ad	0.95 0.83 0.79 justed Hourly Unit P justed Hourly Unit P justed Hourly Fleet P	Production:		LCY/Ho	our	
JOB TIME AND COST	<u>r</u>					
Fleet size: 1	Loader(s)		Total job time: _	().25	Hours
Unit cost: \$0.70	6 /LCY		Total job cost: _		\$21	

BOREHOLE SEALING WORK

Task description:

Capping drill holes

Site: Bonanza Land

Permit Action: 2017 Bond Calculation

Permit/Job#: P2017006

PROJECT IDENTIFICATION

Task #: 002

State: Colorado

Abbreviation:

None

Date: 6/5/2017

User: MAC

County: Clear Creek

Filename:

P006-002

Agency or organization name: DRMS

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
Capping drill holes	PVC plug - 6 in. diameter borehole	6	300	5.00	EA	\$54.14	\$270.70

Job Hours:

0.00

Total Cost: \$271.00

REVEGETATION WORK

	ask description:	Revegetating affected areas			
Site:	Bonanza Land	Permit Action:	2017 Bond Calculation	Permit/Job#:	P2017006

PROJECT IDENTIFICATION

Task #: 003 State: Colorado Abbreviation: None Date: 6/5/2017 County: Clear Creek P006-003 Filename:

User: MAC

Agency or organization name: DRMS

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
·			\$	\$
	5		Total Fertilizer Materials	
			Cost/Acre	\$0.00

Application

Description		Cost /Acre
		\$
	otal 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
Alsike Clover	1.00	15.61	\$3.83
Rye, Perennial Tetraploid - Aubisque	4.00	22.68	\$6.72
Mountain Brome - Bromar	3.00	4.82	\$13.05
Rye, Winter - VNS	4.00	1.65	\$1,44
Tall Fescue - Fawn E.F.	3.00	15.63	\$4.56
Timothy - Climax	2.00	57.39	\$3.14
Totals Seed Mix	17.00	117.79	\$32.74

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	T . 10 1	
	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
					\$
		To	als Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 1 Cost /Acre: \$299.96
Estimated Failure Rate: 25% Cost /Acre*: \$299.96
*Selected Replanting Work Items: SEEDING

Initial Job Cost: \$299.96

Reseeding Job Cost: \$74.99

Total Job Cost: \$375

Job Hours: 8.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:

Equipment Mobilization

Site: Bonanza Land

Permit Action: 2017 Bond Calculation

Permit/Job#: P2017006

PROJECT IDENTIFICATION

Task #:

004

State: Colorado

Abbreviation:

None

Date:

6/5/2017

County: Clear Creek

Filename:

P006-004

User:

MAC

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/uni	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
CAT 450E	9.80	\$20.08	\$88.67	1	\$108.75	\$88.67	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$12.22	\$88.67	1	\$100.89	\$88.67	\$250.00

Subtotals:

\$209.64

\$177.34

\$500.00

ROADABLE EQUIPMENT:

Machine Description Total Cost/hr/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
--	------------	-----------------------------	-------------------------------

Subtotals:

\$0.00

\$0.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

DENVER

35.00 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:

Transportation Cycle Time:

Non- Roadable Equipment	Roadable Equipment
0.88	0.88
0.88	0.88
0.25	NA
0.25	NA
2.25	1.75
	0.88 0.88 0.25 0.25

JOB TIME AND COST

Total job time:	me: <u>4.50</u>	
Total job cost:	\$1,887	

\$1,886.86