STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106



John W. Hickenlooper Governor

Mike King Executive Director

Loretta Piñeda Director

August 16, 2012

Mr. Glen Williams Cotter Corporation P.O. Box 700 Nucla, CO 81424

Re: C-JD-8, Permit No. M-1984-014, Financial Warranty Increase, Revision No. SI-1

Dear Mr. Williams:

On August 16, 2012 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$69,950.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$28,759.00 that reflects a general required update and revisions to the permit under AM-01, the inclusion of an Environmental Protection Plan.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, is required within 60 days from the date of this letter, October 15, 2012. Please contact Barbara Coria in our Denver Office regarding questions on forms, submittals, and other questions regarding the financial warranties. She can be reached at 303.866.3567, Ext. 8148, or by e-mail at Barbara.Coria@state.co.us.

If you need additional information please contact me at the Division of Reclamation, Mining and Safety, Grand Junction Field Office, 101 S. 3rd St., Suite 301, Grand Junction, Colorado 81501, by telephone at 970.241.1117, or by e-mail at <u>Russ.Means@state.co.us</u>.

Sincerely,

G. Russell Means Senior Environmental Protection Specialist West Slope Field Office Supervisor Grand Junction / Durango

Enclosed: Reclamation Liability Update: 8/16/12-GRM

Ec: Barbara Coria, DRMS Bonding Specialist

COST SUMMARY WORK

Task description:		Reclam	Reclamation Liability- EPP-2012				
Site: C-JD	8		Perr	nit Action:	2012 EPP AM-01	Permit/Job#:	M1984014
<u>PROJ</u>	CT IDENTIF	FICATION	N				
<u>PROJ</u> Task		FICATION	<u>N</u> State:	Colorado		Abbreviation:	None
	#: 000		_	Colorado Montrose		Abbreviation: Filename:	None M014-000

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

14

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Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Demo mine structures and infa structure	DEMOLISH	1	0.00	\$7,963.95
002	Seal portal and vents	MINESEAL	1	32.00	\$5,383.78
003	remove ore pad bedding materials	LOADER] 1	5.36	\$573.00
004	recontour waste piles and stormwater structures	DOZER] 1	4.59	\$1,224.21
005	rip compacted areas and vent access roads	RIPPER	1	10.40	\$2,772.00
006	push topsoil over disturbed areas	DOZER	1	23.97	\$6,388.60
007	spot 50% of topsoil for dozer	LOADER	1	18.97	\$2,027.00
008	reveg of 13.65 acres affected lands	REVEGE] 1	40.00	\$23,400.88
009	mobilization to site	MOBILIZE	1	4.48	\$2,490.49
		\$ \$52,223.91			

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$1,054.92
Performance bond:	1.05	Total =	\$548.35
Job superintendent:	94.44	Total =	\$5,600.29
Profit:	10.00	Total =	\$5,222.39
		TOTAL O & P =	\$12,425.95
		CONTRACT AMOUNT (direct + O & P) =	\$64,649.86

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	500.00	Total = Total =	500.00 \$0.00
Reclamation management and/or administration:	5.00		\$3,232.49
CONTINGENCY:	3.00	Total =	\$1,566.72
	TOTAL	INDIRECT COST =	\$17,725.16
TOTAL B	\$69,950.00		

DEMOLITION WORK

	Task description:	Demo mine	e structures and	infa structure		
Site:	C-JD-8		Permit Action:	2012 EPP AM-01	Permit/.	Job#: <u>M1984014</u>
<u>PROJE</u>	CT IDENTIFICATION	<u>I</u>				
Task #:	: 001	State:	Colorado		Abbreviation:	None
Date:	: 7/16/2012	County:	Montrose		Filename:	M014-001
User:	GRM					
	Agency or organizat	ion name:	DRMS			

UNIT COSTS

54

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Location adjustment: 96.90 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost		
shop building		Bldg. (SN) demo./on-site disposal in existing pit or cut - Max, 50 ft, push	disposal in existing pit or	disposal in existing pit or cut - Max. 50 ft. push	32,000.00 CF			\$4,864.00
shop concrete pad	80X40X0.5	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 50 ft. push	119.00	SF	\$1.56	\$185.64		
compressor shed	18X40x8	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 50 ft. push	1,440.00	CF	\$0.15	\$218.88		
compressor shed pad	18X40X0.5	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 50 ft. push	180.00	SF	\$1.56	\$280.80		
power lines to vent #1	1000	Powerline or telephone line, overhead, wood - Single pole	1,000.00	LF	\$2.60	\$2,598.00		
misc. debris 20X10X10		Load/haul/dump demolished materials/debris into pit - Max. 1,000 ft. haul	74.00	CY	\$0.97	\$71.41		

		Total Co	ost
	Subtotal	l (adjusted f	or
Job Hours: 0	0.00 (unadjusted):	\$8,218.73 location	n):\$7,963.95

SAFEGUARDING UNDERGROUND OPENINGS

Site: C	С-ЈД-8		Permit Action:	2012 EPP AM-01	Permit/.	Job#:	M1984014
ROJEC	T IDENTIFICAT	TION					
Task #:	002	State:	Colorado		Abbreviation:	Non	e
Date:	7/16/2012	County:	Montrose		Filename:	M01	4-002
User:	GRM						

Opening Description	Dimensions	Closure Method	Quantity	Unit	Unit Cost	Total Cost
backfill adit	10X12X50	Adit closure - backfilling (per cu. yd.)	225.00	CY	\$2.11	\$474.75
plug vent hole #1	14' dia	Shaft closure - monolithic plug (per opening)	1.00	EA	\$4,909.03	\$4,909.03

Job Hours: 32.00

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4

Total Cost: \$5,383.78

WHEEL LOADER - LOAD AND CARRY WORK

Task description:	Remove ore pad bedding n	naterials		
te: C-JD-8	Permit Action	2012 EPP AM-01	Permit/Job#:	M1984014
PROJECT IDENTIFICA	ATION			
Task #: 003 Date: 7/16/2012 User: GRM	State: Colorado County: Montros		Abbreviation: Filename:	None M014-003
Agency or organiza	tion name: DRMS			
HOURLY EQUIPMENT	<u>r cost</u>			
	AT 950H DPS Cab	Shif	t Basis: 1 p	197 per day CRG)
Cost Breakdown:				
Ownership Cost/Hou		Utilization % NA		
Operating Cost/Hou		100		
Operator Cost/Hou		NA		
Total Unit Cost/Hou	r: \$106.81	-		
Total Fleet Cost/Hor	ur: \$106.81			
MATERIAL QUANTIT	IES			
Initial volume: 1,210 Loose volume:	CCY 1,319 LCY	Swell factor:	1.090	
	stimated volume: Divisio ated swell factor: Cat Har	n of Reclamation, Mining ndbook	g & Safety	
HOURLY PRODUCTIO	<u>DN</u>			
Loader Cycle Time:	Jnadjusted Basic Cycle Tim	e (load, dump, maneuver)):0.500	minutes
Cycle Time Factors			Factor (min.)	Source
Material:	Material 3/4" to 6" diame		0.000	(Cat HB)
Stockpile:	No adjustment - factor no		0.000	(Cat HB)
Truck Ownership:	No adjustment - factor no		0.000	(Cat HB)
Operation:	No adjustment - factor no	ot applicable 0.00	0.000	(Cat HB)

0.040Net Cycle Time Adjustment:0.040Adjusted Basic Cycle Time:0.540

Rolling Resistance - Road Conditions

Dump Target:

Small target 0.04

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

4

	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	200	0.00	4.00	4.00	0.1719	(Cat HB)
Return Route:	200	0.00	4.00	4.00	0.1586	(Cat HB)

(Cat HB)

minutes

minutes

ł

			Total Travel Tin Total Cycle Tin		minutes minutes
Load Bucket Capacity					
Rated Capacity Bucket Fill Factor Adjusted Capacity	: 1.000	LCY (hea Rock - W LCY	ped) ell Blasted (95%-1	105%) 1.000	
Job Condition Correction Site Altitude: <u>6500</u> feet	Factors				
		Source			
Altitude Adj:	1.00	(CAT HE	<u> </u>		
Job Efficiency:	0.83	(1 shift/da	y)		
Net Correction:	0.83	multiplier			
Una	djusted Hourly Unit I	Production:	296.37	LCY/Hour	
А	djusted Hourly Unit I	Production:	245.99	LCY/Hour	
A	djusted Hourly Fleet I	Production:	245.99	LCY/Hour	
JOB TIME AND COS	<u>ST</u>				
Fleet size:1	Loader(s)		Total job time:	5.36	Hours
Unit cost: \$0.4	434 /LCY		Total job cost:	\$573.00	

Page 1 of 2

BULLDOZER WORK

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C-JD-8	Permit Action:	2012 EPP AM-01	Permit/Job#:	M1984014
ROJECT IDENTIF	ICATION			
Task #: 004	State: Colorado		Abbreviation:	None
Date: 7/16/2012	County: Montrose		Filename:	M014-004
User: GRM	2		-	
Agency or organ	nization name: DRMS			
IOURLY EQUIPME	ENT COST			
	t D9T - 9SU			
Horsepower: 405				
	ni-Universal			
· · ·	hank ripper			
	er day			
	RG)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$80.19	NA		
Operating Cost/Hour:	\$140.68	100		
Ripper op. Cost/Hour:	\$7.17	100		
Operator Cost/Hour:	\$38.49	DT A		
		I NA		
		NA		
Cotal unit Cost/Hour: Cotal Elect Cost/Hour:	\$266.52	NA		
otal unit Cost/Hour: otal Fleet Cost/Hour:		NA		
otal Fleet Cost/Hour:	\$266.52 \$266.52	NA		
otal Fleet Cost/Hour: MATERIAL OUANT Initial Volume:1,40	\$266.52 \$266.52 <u>FITIES</u> 00	NA		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33	\$266.52 \$266.52 TITIES 90 95	NA		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33	\$266.52 \$266.52 <u>FITIES</u> 00	NA		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33	\$266.52 \$266.52 CITIES 00 5 59 LCY	ion, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33 Loose volume: 1,86	\$266.52 \$266.52 CITIES 00 55 59 LCY me: Division of Reclamate			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33 Loose volume: 1,86 Source of estimated volution 1,86	\$266.52 \$266.52 CITIES 00 55 59 LCY me: Division of Reclamat 1 factor: Cat Handbook			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33 Loose volume: 1,86 Source of estimated volution 1,86	\$266.52 \$266.52 TITIES 00 55 59 LCY me: Division of Reclamat 1 factor: Cat Handbook TION			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33 Loose volume: 1,86 Source of estimated volution 1,86 Source of estimated swell 1,86 Source of estimated volution 1,86 Source of estimated swell 1,86 Source of estimat	\$266.52 \$266.52 CITIES 00 5 59 LCY me: Division of Reclamat 1 factor: Cat Handbook TION 50 feet			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33 Loose volume: 1,86 Source of estimated volution 1,86	\$266.52 \$266.52 CITIES 00 5 59 LCY me: Division of Reclamat 1 factor: Cat Handbook TION 50 feet			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33 Loose volume: 1,86 Source of estimated volution 1,86 Source of estimated swell 1,86 Source of estimated volution 1,86 Source of estimated swell 1,86 Source of estimat	\$266.52 \$266.52 TITIES 00 55 59 LCY me: Division of Reclamat 1 factor: Cat Handbook TION 50 feet ction: 2,110.5 LCY/hr	ion, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33 Loose volume: 1,86 Source of estimated volution 1,86 Source of estimated volution 1,86 Source of estimated swell 1,86 Materials consistency destination 1,86	\$266.52 \$266.52 TITIES 00 5 59 LCY me: Division of Reclamat 1 factor: Cat Handbook TION 50 feet ction: 2,110.5 LCY/hr	ion, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33 Loose volume: 1,86 Source of estimated volution 1,86 Source of estimated volution 1,86 Source of estimated volution 1,86 Source of estimated swell 1,86 HOURLY PRODUCT 1,86 Average push distance: 1,96 Jnadjusted hourly produ 1,97 Materials consistency destance: 1,97 Average push gradient: 1,98	\$266.52 \$266.52 TITIES 00 55 59 LCY me: Division of Reclamate 1 factor: Cat Handbook TION 50 feet ction: 2,110.5 LCY/hr scription: Rock, avg. ripped of 20 %	ion, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33 Loose volume: 1,86 Source of estimated volution 1,86 Source of estimated volution 1,86 Source of estimated swell 1,86 Materials consistency destination 1,86	\$266.52 \$266.52 \$266.52 CITIES 00 55 59 LCY me: Division of Reclamate 1 factor: Cat Handbook TION 50 feet ction: 50 feet 2,110.5 LCY/hr scription: Rock, avg. ripped of	ion, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33 Loose volume: 1,86 Source of estimated volution 1,86 Source of estimated volution 1,86 Source of estimated volution 1,86 Source of estimated swell 1,86 HOURLY PRODUCT 1,86 Average push distance: 1,96 Jnadjusted hourly produ 1,97 Materials consistency destance: 1,97 Average push gradient: 1,98	\$266.52 \$266.52 TITIES 00 55 59 LCY me: Division of Reclamate 1 factor: Cat Handbook TION 50 feet ction: 2,110.5 LCY/hr scription: Rock, avg. ripped of 20 %	ion, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33 Loose volume: 1,86 Source of estimated volution 1,86 Source of estimated volution 1,86 Source of estimated swell 1,86 HOURLY PRODUCY 1,86 Average push distance: 1,86 Unadjusted hourly produ 1,86 Aterials consistency des 1,86 Average push gradient: 1,86 Average push gradient: 1,86	\$266.52 \$266.52 \$266.52 \$266.52 \$266.52 \$266.52 \$266.52 \$266.52 \$266.52 \$266.52 \$266.52 \$266.52 \$266.52 \$266.52 \$266.52 \$266.52 \$266.52 \$20 % \$20 % \$6,500 feet	ion, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33 Loose volume: 1,86 Source of estimated volution 1,86 Source of estimated volution 1,86 Source of estimated volution 1,86 Source of estimated swell 1,86 Materials consistency destinated swell 1,86 Average push distance: 1,86 Verage push distance: 1,86 Verage push distance: 1,86 Verage push distance: 1,86 Average push gradient: 1,86 Average site altitude: 1,86 Material weight: 1,86	\$266.52 \$266.52 \$266.52 CITIES 90 35 99 LCY me: Division of Reclamate 1 factor: Cat Handbook TION ction: 20 feet 20 % 6,500 feet 2,550 lbs/LCY Sandstone	ion, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33 Loose volume: 1,86 Source of estimated volume 1,86 Source of estimated volume 1,86 Source of estimated volume 1,86 Source of estimated swell 1,000 HOURLY PRODUC? 1000 Average push distance: 1000 Materials consistency des 1000 Average push gradient: 1000 Average site altitude: 1000 Material weight: 1000 Weight description: 1000	\$266.52 \$266.52 \$266.52 TITIES 00 5 9 LCY me: Division of Reclamat 1 factor: Cat Handbook TION ction: 50 feet 2,110.5 LCY/hr scription: Rock, avg. ripped of 20 % 6,500 feet 2,550 lbs/LCY Sandstone 1 Factor	ion, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,40 Swell factor: 1.33 Loose volume: 1,86 Source of estimated volution 1,86 Source of estimated volution 1,86 Source of estimated volution 1,86 Source of estimated swell 1,86 Auterial s consistency destance: 1,86 Average push distance: 1 Materials consistency destance: 1 Auterial weight: 1 Weight description: 1 ob Condition Correction 1	\$266.52 \$266.52 \$266.52 CITIES 00 55 9 LCY me: Division of Reclamat 1 factor: Cat Handbook TION 50 feet ction: 2,110.5 LCY/hr scription: Rock, avg. ripped of 20 % 6,500 feet 2,550 lbs/LCY Sandstone 1 Factor Skill: 0.750	ion, Mining & Safety or blasted 0.7		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	0.545	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1928

Adjusted unit production:	406.90 LCY/hr	
Adjusted fleet production:	406.9 LCY/hr	

JOB TIME AND COST

1 Dozer(s)	Fleet size:
\$0.655/LCY	Unit cost:
\$0.655/LCY	Unit cost:

Total job time:	4.59 Hours	
Total job cost:	\$1,224.21	

BULLDOZER RIPPING WORK

25

Task description:	Rip compacted areas and v	ent access roads		
Site: C-JD-8	Permit Action:	2012 EPP AM-01	Permit/Job#:	M1984014
PROJECT IDE	ENTIFICATION			
Task #: _005	State: Colorado)	Abbreviation:	None
	5/2012 County: Montrose	9	Filename:	M014-005
User: GR	M			
Agency	or organization name: DRMS			
HOURLY EQU	JIPMENT COST			
Basic M	Machine: Cat D9T - 9SU	ŀ	lorsepower:	405
Ripper Atta	achment: 3-Shank Ripper			per day
		E	Data Source: (CRG)
Cost Breakdown:		E		
	Ownership Cost/Hour: \$8	80.19	tilization % NA	
		40.68	100	
Ripp		7.17	100	
• •		38.49	NA	
	Total Unit Cost/Hour: \$2	66.52		
	Total Fleet Cost/Hour: \$2	66.52		
MATERIAL Q	UANTITIES	elected estimating me	ethod: Area	
Alternate Method		neeted estimating inc		
		NT A	DOV	N 1.4
mic: <u>NA</u> area: 7.00	acres Bank Volume: Rip Depth (ft):	<u>NA</u> 1.00	BCY	NA BCY or
HOURLY PRO	DUCTION			
	Seismic Velocity:	NA	feet/second	
Area:				
	Average Ripping Depth:	2.63	mph	
	Average Ripping Width:	7.67	degrees	
	Average Ripping Length: Average Dozer Speed:	150.00 88.00	feet	
	Average Maneuver Time:	0.25	feet feet	
	Production per unit area:	0.811	acres/hour	
Job Condition Co	rrection Factors			
Una	adjusted Hourly Unit Production:	0.811	Acres/hr	
	Site Altitude:	6,500	feet	
	Altitude Adj:	1.00	(CAT HB)	
	Job Efficiency:	0.83	(1 shift/day)	
	Net Correction:	0.83	multiplier	
	Adjusted Hourly Unit Productior	.: 0.67	Acres/hr	
	Adjusted Hourly Fleet Production	: 0.6 7	Acres/hr	
JOB TIME AN	<u>D COST</u>			
Fleet size:	1 Grader(s)	Total job time:	10.40	Hours
Unit cost:	\$396.048 Per acre	Total job cost:	\$2,772.00	

BULLDOZER WORK

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				areas	D 1.77 1.17	1 / 1 0 0 / 0 1 /
C-JD-8		Perr	nit Action:	2012 EPP AM-01	Permit/Job#:	M1984014
PROJECT IDEN	TIFICA	TION				
Task #: 006		State:	Colorado		Abbreviation:	None
Date: 7/16/2	012	County:	Montrose		Filename:	M014-006
User: GRM	.012	County.	Wondose		i nename.	101014-000
	•					
Agency or	organizat	tion name: DR	MS			
HOURLY EQUI	PMENT	COST				
Basic Machine:	Cat D9	T - 9SU				
Horsepower:	405					
Blade Type:		Iniversal				
Attachment:		c ripper				
Shift Basis:	1 per da	A				
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/H	our:	\$80.19		NA		
Operating Cost/H		\$140.68		100		
Ripper op. Cost/H		\$7.17		100		
Operator Cost/H		\$38.49		NA		
1		+				
Total unit Cost/Hou		266.52		1		
Total Fleet Cost/Hor	ur: \$2	266.52		1		
Total Fleet Cost/Hou <u>MATERIAL QU</u> Initial Volume: Swell factor:	ur: \$2 ANTITI 8,815 1.000	266.52 IES		1		
Total Fleet Cost/Hou MATERIAL QU. Initial Volume:	ur: \$2 <u>ANTITI</u> 8,815	266.52 IES				
Total Fleet Cost/Hou <u>MATERIAL QU</u> Initial Volume: Swell factor:	ur: \$2 ANTIT 8,815 1.000 8,815 L(266.52 IES CY Division o		ion, Mining & Safety		
Total Fleet Cost/Hou MATERIAL QU Initial Volume: Swell factor: Loose volume:	ur: <u>\$</u> 2 ANTITI 8,815 1.000 8,815 LO volume:	266.52 IES CY Division (
Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated	ur: \$2 ANTITI 8,815 1.000 8,815 LC volume: swell fac	266.52 IES CY ctor: Division of Cat Hand				
Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	ur: \$2 ANTITI 8,815 1.000 8,815 L0 volume: swell fac DUCTIO	266.52 IES CY ctor: Division of Cat Hand				
Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan	ur: \$2 ANTITI 8,815 1.000 8,815 L(volume: swell fac DUCTIO nce:	266.52 IES CY etor: Division of Cat Hand DN 150 feet	book			
Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD	ur: \$2 ANTITI 8,815 1.000 8,815 L(volume: swell fac DUCTIO nce:	266.52 IES CY etor: Division of Cat Hand DN 150 feet	book			
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Total Fleet Cost/Hou MATERIAL QU. Initial Volume: Swell factor: Loose volume: Source of estimated Source of estimated HOURLY PROD Average push distan Unadjusted hourly p Materials consistence Average push gradie	ur: <u>\$</u> 2 <u>ANTITI</u> <u>8,815</u> 1.000 <u>8,815</u> LO volume: swell fac <u>DUCTIO</u> nce: production cy descript ent: <u>1</u> :	266.52 IES CY Division of Cat Hand DN 150 feet 910.5 LCY/ otion: Loose s 5 %	book hr	ion, Mining & Safety		
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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:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4039

Adjusted unit production:	367.75 LCY/hr	
Adjusted fleet production:	367.75 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.725/LCY	
Total job time:	23.97 Hours	
Total job cost:	\$6,388.60	

WHEEL LOADER - LOAD AND CARRY WORK

	_Spo	ot 50% of tops	soil for doz	er			
C-JD-8		Pern	nit Action:	2012 EPP AM-0	l P	ermit/Job#:	M1984014
PROJECT IDE	NTIFICAT	ION					
Task #: 007 Date: 7/16 User: GRM	5/2012 M	State: County:	Colorado Montrose			previation: Filename:	None M014-007
Agency	or organization	n name: DR	MS				
HOURLY EQU	JIPMENT C	OST					
Basic Macl Attachme	hine: CAT	950H			Horsepower: Shift Basis: Data Source:	1 p	197 er day CRG)
Cost Breakdown:			1	Utilization %			
Ownershit	o Cost/Hour:	\$25.7	3	NA			
	g Cost/Hour:	\$42.6		100	2		
	r Cost/Hour:	\$38.4		NA	ē.		
-							
	t Cost/Hour: et Cost/Hour:	\$106.3 \$106.			-		
	et Cost/Hour: UANTITIES ne: 4,400	\$106.		Swell facto	r: <u>1.000</u>		
Total Flee MATERIAL O Initial volum Loose volum	et Cost/Hour: UANTITIE: ne: 4,400 ne:	\$106. <u>\$</u> 4,400	81 CCY LCY				
Total Flee MATERIAL O Initial volum Loose volum S	et Cost/Hour: UANTITIES ne: 4,400 ne: Source of estin	\$106.	81 CCY LCY	of Reclamation, M			
Total Flee MATERIAL O Initial volum Loose volum S	et Cost/Hour: UANTITIE: he: 4,400 he: 5000000000000000000000000000000000000	\$106. S 4,400 nated volume: d swell factor:	81 CCY LCY Division Cat Hand	of Reclamation, M	lining & Safe	ty	minutes
Total Flee <u>MATERIAL O</u> Initial volum Loose volum Source <u>HOURLY PRO</u> Loader Cycle Tim Cycle Tim	et Cost/Hour: UANTITIE: he: 4,400 he: 5 Source of estin ce of estimated DUCTION he: Una he Factors	\$106. S 4,400 nated volume: d swell factor: adjusted Basic of	81 CCY LCY Division Cat Hand	of Reclamation, M lbook	lining & Safe euver): Facto	0.500 or (min.)	Source
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Total Flee MATERIAL O Initial volum Loose volum Source HOURLY PRO Loader Cycle Tim Cycle Tim	et Cost/Hour: UANTITIE: De: 4,400 De: Source of estimated DUCTION DE: Una DE:	\$106. S 4,400 nated volume: d swell factor: adjusted Basic Mixed material No adjustment	81 CCY LCY Division Cat Hand Cycle Time 0.02 - factor not	of Reclamation, M lbook (load, dump, mane applicable 0.00	lining & Safe euver): Facto 0 0 0	0.500 or (min.) .020 .000	Source (Cat HB) (Cat HB)
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Total Flee MATERIAL Q Initial volum Loose volum S Source HOURLY PRO Loader Cycle Tim Cycle Tim S Truck Ov C	et Cost/Hour: UANTITIE: he: 4,400 he: 5 Source of estimated DUCTION he: Una he Factors Material: M Stockpile: N wnership: N Dperation: 1	\$106. S 4,400 nated volume: d swell factor: d swell factor: d justed Basic (Mixed material No adjustment No adjustment	81 CCY LCY Division Cat Hand Cycle Time 0.02 - factor not - factor not - factor not	of Reclamation, M lbook (load, dump, mane applicable 0.00	lining & Safe euver): Facto 0 0 0 0 0 0 0	0.500 or (min.) .020 .000 .000 .000	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)
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Haul:Rutted dirt, little maintenance, no water, 1" tire penetration 4.0Return:Rutted dirt, little maintenance, no water, 1" tire penetration 4.0

Haul and Return Time

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	Length (feet)	Grade Res. (%)	Rolling Res. (%)	Total Res. (%)	Travel Time (minutes)	Source
Haul Route:	300	0.00	4.00	4.00	0.2579	(Cat HB)
Return Route:	300	0.00	4.00	4.00	0.2379	(Cat HB)

1.4

			Total Travel T Total Cycle T		minutes minutes
Load Bucket Capacity					
Rated Capac	city: 4.30	LCY (heap	ped)		
Bucket Fill Fac	tor: 1.100	Other - roo	ck/dirt mixtures	(100-120%) 1.100	
Adjusted Capac	city: 4.73	LCY			
Job Condition Correct Site Altitude: <u>6500</u> fee					
		Source			
Altitude Adj:	1.00	(CAT HB)		
Job Efficiency:	0.83	(1 shift/day	/)		
Net Correction:	0.83	multiplier			
τ	Jnadjusted Hourly Un Adjusted Hourly Un Adjusted Hourly Flee	it Production:	279.39 231.89 231.89	LCY/Hour LCY/Hour LCY/Hour	
JOB TIME AND C					
Fleet size:	l Loader(s	5)	Total job time:	18.97	Hours

 Unit cost:
 \$0.461
 /LCY
 Total job cost:
 \$2,027.00

REVEGETATION WORK

te: C-JD-8		Per	mit Action:	2012 EPP AM-01	Permit/Job#:	M1984014
PROJEC.	<u>r identifi</u>	CATION				
Task #:	008	State:	Colorado		Abbreviation:	None
Date:	7/16/2012	County:	Montrose		Filename:	M014-008
User:	GRM					

FERTILIZING

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Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
)-34-0, 18-46-0, 5-10-5	200.00	pound	\$0.32	\$64.00
			Total Fertilizer Materials Cost/Acre	\$64.00

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$50.09
	Total Fertilizer Application Cost/Acre	\$50.09

TILLING

Description		Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		\$92.35
	Total Tilling Cost/Acre	\$92.35

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Paloma	2.00	6.47	\$17.06
Crested Wheatgrass - Ephraim	1.50	6.89	\$3.27
Sand Dropseed	0.10	11.94	\$0.68
Yellow Sweet Clover - Madrid	0.25	1.49	\$0.63
Galleta	2.50	9.13	\$61.68
Western Wheatgrass - Arriba	3.00	7.58	\$10.80
Saltbush, Four Wing	2.00	2.75	\$21.00
Totals Seed Mix	11.35	46.25	\$115.11

Application

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Description		Cost /Acre
Broadcast seeding [DMG]		\$255.76
	Total Seed Application Cost/Acre	\$255.76

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 8.0 pt/ac	1.00	ACRE	\$31.80	\$31.80
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$164.00	\$328.00
Total Mulch Materials Cost/Acre				\$359.80

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
Power mulcher (MEANS 32 91 13.16 0250)		\$79.71
Weed spray, truck, non-aquatic area, nox. [DMG]		\$60.19
	Total Mulch Application Cost/Acre	\$205.79

JOB TIME AND COST

	No. of Acres:	13.65	Cost /Acre:	\$1,142.90	
Estimate	ed Failure Rate:	50%	Cost /Acre*:	\$1,142.90	
*Selected Replanti	ng Work Items:	FERTILIZING,TIL	LING,SEEDING,MU		
-	-	LCHING			
Initial Job Cost:	\$15,600.59				
Reseeding Job Cost:	\$7,800.29				
Total Job Cost:	\$23,400.88				
Job Hours:	40.00				

EQUIPMENT MOBILIZATION/DEMOBILIZATION

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Power Mulcher (Reinco M90)

Water Tanker, 3,500 Gal.

Flatbed Truck, 4x2, 30K GVW

Light Duty Pickup, 4x4, 3/4 T.

\$25.43

\$41.22

\$46.77

\$14.59

Task description:	Mol	bilization to site						
C-JD-8		Permit Ac	ction: _2012 E	PP AM-0	l Per	mit/Job#:	M19840	14
PROJECT IDE	NTIFICATI	(ON						
Task #: 009		State: Col	orado		Abbre	viation:	None	
	/2012		ntrose			lename:	M014-00	9
User: GRN		County	introse			-	1011-1-00	
	or organization	name: DRMS						
Agency	n organization							
EQUIPMENT 7	FRANSPOR	T RIG COST						
					Shift bas	sis: 1	per day	
					Cost Data Sour		RG Data	
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH		UCK TRACTO		DIESEL PO	WERED,
					2 (2ND HALF, 2	<i></i>		
Truc	k Trailer Desc	ription: GENEF	AIC FOLDING		IECK, DROP D		JIPMENT	TRAILER
				(25T	, 50T, AND 10	DT)		
Cost Breakdown:								
Available Rig Ca	pacities	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 ROADAB	LE EQUIP	<u>MENT:</u>						
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return 7		DOT Permi
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/	fleet	Cost/ fleet
-	(TONS)				fleet			
Cat D9T - 9SU	66.13	\$80.19	\$125.45	1	\$205.64	\$125.45		\$250.00
CAT 950H	20.13	\$25.73	\$88.67	1	\$114.40	\$88.67		\$250.00
			S	Subtotals:	\$320.04	\$214	.12 9	500.00
ROADABLE E	QUIPMEN	<u>[:</u>						
Machine Descripti		Total Cost/hr/ u	nit Fleet Siz	e	Haul Trip	Retur	n Trip]
maenine Descripti	1011			~	Cost/hr/ fleet		hr/ fleet	
Drill/Broadcast Seed	ler with	\$51.79	1		\$51.79	\$51.79		-
Tractor	201 11111	× 1.1 U			ψστιτσ	1.75	,	
						E Contraction of the second se		1

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Subtotals:

\$25.43

\$41.22

\$46.77

\$14.59

\$179.80

\$25.43

\$41.22

\$46.77

\$14.59

\$179.80

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	NATURITA	
Total one-way travel distance:	13.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$2,356.92	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$133.57	

Task # 009

Transportation Cycle Time:

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	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.37	0.37
Return Time (Hours):	0.37	0.37
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.24	0.74

JOB TIME AND COST

Total job time: 4.49 Hours

Total job cost: \$2,490.49