COST SUMMARY WORK

Task descri	ption:	Summary of recl	ummary of reclamation tasks and associated costs						
Site: Bridalveil Pit		Permit Action: Routine bond update		Routine bond update	Permit/Job#:	M2001054			
PROJEC'	r identific	CATION							
Task #: Date: User:	009 9/12/2012 WHE	State: County:	Colorado Ouray		Abbreviation: Filename:	None M054-009			

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Maintain stormwater channel	DOZER	1	4.59	\$916.53
002	Maintain stormwater sediment basin	EXCAVATE] 1	16.06	\$1,317.00
003	Maintain riprap lining for basin inlets and outlets	EXCAVATE	1	2.20	\$180.00
004	Grade slopes and benches	DOZER	1	18.10	\$3,617.46
005	Replace growth medium 0.5' depth over 2 acres area	DOZER	1	4.76	\$951.37
006	Revegetate 2 acres affected land	REVEGE	1	0.00	\$1,171.28
007	Haul reclamation equipment to and from job site	MOBILIZE	1	5.11	\$2,439.25
008	Remove misc debris 10'Lx5'Wx5'H @ \$0.50/cu.ft.	NA	1	4.00	\$125.00
		SUBTO	OTALS:	54.82	\$ \$10,717.89

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02 Total = \$216.50 Performance bond: 1.05 Total = \$112.54 Job superintendent: 27.41 Total = \$1,625.41 Profit: 10.00 Total = \$1,071.79 TOTAL O & P =\$3,026.24 CONTRACT AMOUNT (direct + O & P) = \$13,744.13

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): 0.00 Total = 0.00

Engineering work and/or contract/bid preparation: 4.25 Total = \$584.13

Reclamation management and/or administration: 5.00 \$687.21

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$4,297.57

TOTAL BOND AMOUNT (direct + indirect) = \$15,015.46

BULLDOZER WORK

Bridalveil Pit	Permit Action:	Routine bond update	Permit/Job#:	M2001054
PROJECT IDENTIFICATION	[
Task #: 001	State: Colorado		Abbreviation:	None
	County: Ouray		Filename:	M054-001
User: WHE			A HOHOLITO.	14103-7-001
Agency or organization nar	ne: DRMS			
HOURLY EQUIPMENT COST	<u>r</u>			
Basic Machine: Cat D8T - 8SU	Ţ			
Horsepower: 310		,		
Blade Type: Semi-Universa	1			
Attachment: NA		·		
Shift Basis: 1 per day	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·····		
Data Source: (CRG)				
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$58.56	NA		
Operating Cost/Hour:	\$102.81	100		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$38.49	NA	···········	
Control of				
Total unit Cost/Hour: \$199.86 Total Fleet Cost/Hour: \$199.86		***************************************		
<u> </u>				
MATERIAL QUANTITIES				
Initial Volume: 1,051				
Swell factor: 1.000				
Loose volume: 1,051 LCY	The state of the s			
Source of estimated volume:	(258°L x 110 sq.ft.)/	27 = 1.051 cv		
	NA			
HOUDI W DD ODUOTION				
HOURLY PRODUCTION				
	feet			
Unadjusted hourly production: 1,4	00.0 LCY/hr			
Materials consistency description:	Dry, non-cohesive ().8		
Average push gradient: 10 %				
	•			
Average site altitude: 7,665 fee	<u>t</u>			

Average site altitude: 7,665 fee Material weight: 3,300 lbs/		25% Earth		
Average site altitude: 7,665 fee Material weight: 3,300 lbs Weight description: Decompo	LCY	25% Earth Source		
Average site altitude: 7,665 fee Material weight: 3,300 lbs/ Weight description: Decompo Job Condition Correction Factor Operator Skill:	LCY sed rock - 75% Rock, 0.750			
Average site altitude: 7,665 fee Material weight: 3,300 lbs Weight description: Decompo	LCY sed rock - 75% Rock,	Source		

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.600	(FND-SF)
Push gradient:	0.786	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.697	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.1637

Adjusted unit production: 229.18 LCY/hr
Adjusted fleet production: 229.18 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.872/LCY

Total job time: 4.59 Hours
Total job cost: \$916.53

HYDRAULIC EXCAVATOR WORK

Task description:	Maint	ain stormw	ater sedin	ient basin			
: Bridalveil Pit		Pern	nit Action:	Routine bond u	pdate	Permit/Job#:	M2001054
PROJECT IDEN	<u> TIFICATIO</u>	N					
Task #: 002 Date: 9/11/2 User: WHE	012	State: _County: _	Colorado Ouray			Abbreviation: Filename:	None M054-002
Agency or	organization n	me: <u>DR</u>	MS	***************************************			
HOURLY EQUIP	MENT COS	ST					
Basic Machin	e: Cat 311E	LRR 8'-6'	"Stick		Horsepow	er:	80
Attachment	1: ROPS Ca	ıb			Weight (M'	Γ): <u>1</u>	2.74
					Shift Bas Data Sour	L	er day RG)
Cost Breakdown:							10)
				Utilization %			
Ownership C		\$17.5		NA			
Operating C		\$25.70		100	********		
Operator C Total Unit C		\$38.6° \$81.9		NA			
Total Fleet (Cost/Hour:	\$81.9	96				
MATERIAL QUA							
Initial volume:	778		CCY	Swell fac	tor: 1.000)	
Loose volume:	778		LCY				
	rce of estimate			35'L x 12'D) / 2	7 = 777.78 c	у	
Source of	of estimated sv	ell factor:	NA		***************************************		
HOURLY PROD	UCTION						
Excavator Cycle Tim		essina lood	ad dumn	hualeat curina am	m+++1)+		
Dicavator Cycle 1111	e (load odekel	-					
	α ,			Condition Descrip		/ERE	
	Second	ary Job Cor	idition with	nin Basic Descrip Cycle Time Va	*****	/ERE	*
Load Bucket Capacit	v			Cycle Time va	alue: 0.32	:3	minutes
	_				Bucket Si	ze Class: Sm	all
Rated Capa	acity.	0.39	LCY (he	aned)	Ducker	ze Class	au
Bucket Fill Fa	· · · · · · · · · · · · · · · · · · ·	0.900		oil, boulders, roo	ts (80 -100%	6) 0.900	
Adjusted Capa		0.35	LCY	,		<u> </u>	
Job Condition Correc	tion Factors			Site	Altitude: 7	665 feet	
			Source	•			
Altitude Ad	j: 0.90)	(CAT H				
Job Efficiency	7: 0.83	3	(1 shift/da				
Net Correction	n: 0.75	<u> </u>	multiplie				
	Unadjusted He	ourly Unit P	roduction:	64.80	LCY/H	our	
	Adjusted Ho	•		48.41	LCY/H		
	Adjusted Ho	urly Fleet P	roduction:	48.41	LCY/H		
JOB TIME AND (COST						
Fleet size:	1	Excavator	T	otal job time:	1	6.07	Hours
				-		***************************************	
Unit cost:	\$1.693	/LCY		Total job cost:	\$ 1.	317.00	

HYDRAULIC EXCAVATOR WORK

Task description:	Maint	ain riprap l	ining for l	basin inlets and or	ıtlets		
te: Bridalveil Pit		Perm	nit Action:	Routine bond up	odate P	ermit/Job#:	M2001054
PROJECT IDENT	<u>IFICATIO</u>	<u>N</u>					
Task #: 003 Date: 9/11/20 User: WHE	12	State: _ County: _	Colorado Ouray			reviation: Filename:	None M054-003
Agency or or	ganization n	ame: <u>DRI</u>	MS		***************************************		
HOURLY EQUIP	MENT CO	<u>ST</u>					
Basic Machine Attachment 1		OLRR 8'-6' ab	"Stick		Horsepower: Weight (MT): Shift Basis: Data Source:	1 p	80 2.74 er day CRG)
Cost Breakdown:					Dam Boarde.		AC)
Ownership Co Operating Co Operator Co Total Unit Co	st/Hour: st/Hour:	\$17.58 \$25.70 \$38.67 \$81.96	7	Utilization % NA 100 NA			
Total Fleet Co		\$81.9					
Source of HOURLY PRODU	53 53 te of estimated sw	vell factor:	NA	Swell facto 12'W x 2'D) x 3)	/ 27 = 53.3 cy		
Excavator Cycle Time	(load bucket	t, swing load	ed, dump	bucket, swing emp	<u>ty):</u>		
	Second			Condition Descripti hin Basic Descripti Cycle Time Val	on: SEVER		minutes
Load Bucket Capacity					D 1 . 0: 0	71 4	
Rated Capac Bucket Fill Fac Adjusted Capac	tor:	0.39 0.450 0.18	LCY (he Rock - P LCY	aped) oorly blasted (40%	Bucket Size C 5 - 50%) 0.450		all
Job Condition Correcti	on Factors			Site	Altitude: 7665	feet	
Altitude Adj: Job Efficiency: Net Correction: U JOB TIME AND C	Adjusted Ho	3 5 ourly Unit Pourly Unit Unit Pourly Uni	roduction:	B) ay)	LCY/Hour LCY/Hour LCY/Hour		
Fleet size:	1	Excavator	· T.	otal job time:	2.20		Hours
 		/LCY	•	Total job cost:	\$180.0		110013

BULLDOZER WORK

: Bridalveil Pit		Per	mit Action:	Routine bond update	Permit/Job#:	M2001054
PROJECT IDEN	TIFICATIO	<u>N</u>				
Task #: 004		State:	Colorado		Abbreviation:	None
Date: 9/11/2	2012	County:	Ouray		Filename:	M054-004
User: WHE					<u> </u>	111057-007
Agency or	organization n	ame: Di	RMS			
HOURLY EQUI	PMENT CO	ST				
Basic Machine:	Cat D8T - 88					
Horsepower:	310	<u> </u>				
Blade Type:	Semi-Univer	1				
Attachment:		Sai				
Shift Basis:	NA 1 man day					
	1 per day			a sheka sheka		
Data Source:	(CRG)			_		
Cost Breakdown:				Utilization %		
Ownership Cost/H	our:	\$58.56		NA		
Operating Cost/H		\$102.81		100		
Ripper op. Cost/H	TT15070011711711717171717171	\$0.00		0	·	
Operator Cost/H		\$38.49		NA		
•				147.	·	
Total unit Cost/Hour		***************************************		***************************************		
Total Fleet Cost/Hor	ır: \$199.80	5				
BATA ONTO THE ANT	A DE TOURNSTONES AS					
MATERIAL QU	ANTITIES					
Initial Volume:	4,840					
Swell factor:	1.000					
Loose volume:	4,840 LCY	······································				
Source of estimated	1	(2)/426	······································	275) / 077 / 40.40		
				$^{2}D) / 27 = 4840 \text{ cy}$		
Source of estimated	swell factor:	Cat Hand	роок	***************************************		

HOURLY PROD	<u>UCTION</u>					
Average push distan	ce: 5	0 feet				
Unadjusted hourly p		,400.0 LC	Y/hr	····		
y		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	a : 111	 		
Materials consistenc	y description:	Dry, no	on-cohesive (0.8		
Average push gradie	nt: 10 %					
Average site altitude		eet				
Material weight:	3,300 lt	s/LCY_			_	
Weight description:	Decomp	osed rock	- 75% Rock,	25% Earth		
Job Condition Correct	ction Factor			Source		
O	ator Skill:	0	750	(AVG.)		
Open			7.50	(21 7 0.)		
Material co			800	(CAT HB)	·	

1.000	(AVG.)
0.830	(1 SHIFT/DAY)
0.700	(FND-MF)
0.786	(CAT HB)
1.000	(CAT HB)
0.697	(CAT HB)
1.000	(PAT)
	0.830 0.700 0.786 1.000 0.697

Net correction: 0.1910

Adjusted unit production: 267.40 LCY/hr
Adjusted fleet production: 267.4 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.747/LCY

Total job cost: 18.10 Hours

Total job cost: \$3,617.46

BULLDOZER WORK

Bridalveil Pit	Permit Action:	Routine bond update	Permit/Job#:	M2001054
PROJECT IDENTIFICATION				
Task #: 005	State: Colorado		Abbreviation:	None
minimum,	ounty: Ouray		Filename:	M054-005
User: WHE			i i i i i i i i i i i i i i i i i i i	14105 + 005
Agency or organization nam	e: DRMS			
HOURLY EQUIPMENT COST				
Basic Machine: Cat D8T - 8SU				
Horsepower: 310				
Blade Type: Semi-Universal		*************************************		
Attachment: NA				
Shift Basis: 1 per day	······································	············		
Data Source: (CRG)				
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$58.56	NA		
Operating Cost/Hour:	\$102.81	100		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$38.49	NA		
T-+-1		//////////////////////////////////	*	
Total unit Cost/Hour: \$199.86 Total Fleet Cost/Hour: \$199.86				
MATERIAL QUANTITIES				
Initial Volume: 1,613				
Swell factor: 1.000				
Loose volume: 1,613 LCY				
		'D) / 27 = 1,613.33 cy		
Source of estimated swell factor: N	A	WWW.		
TATES INDODICES				
HOURLY PRODUCTION				
Average push distance: 60 f	eet			
Unadjusted hourly production: 1,24	6.9 LCY/hr			
				
Materials consistency description:	Dry, non-cohesive (),8		
Average push gradient: 10 %				
Average site altitude: 7,665 feet				
7,000 1001	- HA-1 MA-1200			
Material weight: 2,650 lbs/L	CY		_	
Material weight: 2,650 lbs/L	CY ed rock - 25% Rock,	75% Earth	_	
Material weight: 2,650 lbs/L				
Material weight: 2,650 lbs/L Weight description: Decompose		Source	_	
Material weight: 2,650 lbs/L Weight description: Decompose Tob Condition Correction Factor	ed rock - 25% Rock,			

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:	0.868	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.2718

Adjusted unit production: 338.91 LCY/hr
Adjusted fleet production: 338.91 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.590/LCY

Total job cost: 4.76 Hours
Total job cost: \$951.37

REVEGETATION WORK

Bridalveil Pit	ridalveil Pit Permit Action: Routine bond update		Permit/Job#:	: <u>M2001054</u>			
PROJECT IDENTIFIC	<u>ATION</u>						
Task #: 006 Date: 9/11/2012 User: WHE	State: County:	Colorado Ouray				Abbreviation: Filename:	None M054-006
Agency or organiza	ation name:DR	MS					·
<u>FERTILIZING</u>							
Materials		1					······································
Description		Uni Acı		Unit	Cos	t / Unit	Cost /Acre
					\$		\$
					Tot	al Fertilizer Materials	
Application	3,000,000,000,000,000,000,000,000,000,0	<u></u>				Cost/Acre	\$0.00
Description							Cost /Acre
							\$
			Total	Fertilizer Ap	plicatio	n Cost/Acre	\$0.00
TILLING							
Description							Cost /Acre
							\$
				Tota	l Tillin	g Cost/Acre	\$0.00
SEEDING							
Canal Million			······································	R	ate –		G

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alpine Bluegrass	0.54	12.40	\$8.10
White Dutch Clover - VNS	0.56	10.93	\$2.01
Sheep Fescue - Azay	0.64	9.99	\$1.74
Meadow Foxtail - Garrison	0.46	6.12	\$3.11
Red Top	0.12	13.75	\$0.72
Tufted Hairgrass	0.50	28.70	\$5.40
Totals Seed Mix	2.82	81.88	\$21.08

Application

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 @ 4.0 pt/ac	1.00	ACRE	\$15.90	\$15.90
Total Mulch Materials Cost/Acre				\$15.90

Application

Description		Cost /Acre
Weed spray, hand, non-aquatic area, nox. [DMG]		\$175.77
	Total Mulch Application Cost/Acre	\$175.77

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
		То	tals Nursery Stoc	k Cost / Acre	\$0.00

JOB TIME AND COST

No. of Acres: 2 Cost /Acre: \$468.51

Estimated Failure Rate: 25% Cost /Acre*: \$468.51

*Selected Replanting Work Items: SEEDING, MULCHING

Initial Job Cost: \$937.02

Reseeding Job Cost: \$234.26

Total Job Cost: \$1,171.28

Job Hours: 0.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Ta	ask description:	Haul reclama	tion equipmen	t to and fr	om job site		
Site: _	Bridalveil Pit		Permit Action:	Routine b	ond update	Permit/Job#:	M2001054
<u>P</u>]	ROJECT IDENTIFIC	ATION					
	Task #: 007	Stat	e: Colorado			Abbreviation:	None
	Date: 9/11/2012 User: WHE	Count	y: Ouray			Filename:	M054-007
<u>E</u> (Agency or organiza	_	DRMS COST				
							per day
					Cost D	ata Source:C	RG Data
	Truck Tractor E	escription:	GENERIC O	N-HIGHW	AY TRUCK T 400 HP (2ND		IESEL POWERED,
	Truck Trailer D	escription:	GENERIC FO	DLDING G		· · · · · · · · · · · · · · · · · · ·	IPMENT TRAILER
		_			(25T, 50T, A		
<u>Co</u>	ost Breakdown:						
Av	vailable Rig Capacities	0-25 To	ons 26-5	0 Tons	51+ Tons		
	Ownership Cost/Hou	·····		18.37	\$22.33		
	Operating Cost/Hou			46.13	\$50.07		
	Operator Cost/Hou			27.66	\$27.66		
	Helper Cost/Hou			25.39	\$25.39		
	Total Unit Cost/Hour	r: \$88.6	7 \$1	17.55	\$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 D8T - 8SU	47.71	\$58.56	\$117.55	1	\$176.11	\$117.55	\$250.00
Cat 311D LRR 8'- 6"Stick	14.01	\$17.58	\$88.67	1	\$106.25	\$88.67	\$250.00

Subtotals: \$282.36 \$206.22 \$500.00

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.	\$73.62	1	\$73.62	\$73.62

Subtotals: \$73.62 \$73.62

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:
Average Travel Speed:

35.00
miles
45.00
mph

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig:
Total Roadable Mob/Demob Cost *

** one round trip, no haul rig:

\$114.52

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.78	0.78
Return Time (Hours):	0.78	0.78
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.56	1.56

JOB TIME AND COST

Total job time:	5.11	Hours
Total job cost:	\$2,439.25	