COST SUMMARY WORK

-	Task descrip	otion:	New Permit					
Site:	Animas ((AGG)	Glacier Gravel	Pen	mit Action:	New Permit	Permit/Job#:	M2011028	
]	PROJECT	IDENTIFIC	CATION					
	Task #: Date: User:	000 8/30/2012 KAP	State: County:	Colorado La Plata		Abbreviation: Filename:	None M028-000	
	Ag	ency or organiz	zation name: DR	MS				

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Reduce Highwalls	DOZER	2	65.87	\$35,110.98
002	Fill pond	DOZER	2	3.72	\$1,929.49
003	Spread Topsoil	DOZER	2	6.13	\$3,181.08
004	Rip Compacted Areas	RIPPER	2	13.52	\$7,212.00
005	Revegetation	REVEGE	1	25.00	\$14,280.75
006	Mobilize	MOBILIZE	1	4.04	\$2,113.75
		SUBTO	OTALS:	118.28	\$ \$63,828.05

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 0.00 Total = \$0.00 Performance bond: 0.00 Total = \$0.00 Job superintendent: 59.14 Total = \$3,507.00 Profit: 10.00 Total = \$6,382.81 TOTAL O & P =\$9,889.81

CONTRACT AMOUNT (direct + O & P) = $\frac{$73,005.01}{$73,717.86}$

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

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

Engineering work and/or contract/bid preparation: 0.00 Total = \$0.00

Reclamation management and/or administration: 6.20 \$4,570.51

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$14,960.32

TOTAL BOND AMOUNT (direct + indirect) = \$78,788.37

BULLDOZER WORK

Task description:	Reduce Highwalls			
Animas Glacier Gravel te: (AGG)	Permit Action:	New Permit	Permit/Job#:	M2011028
PROJECT IDENTIFIC	CATION			
Task #: 001 Date: 8/30/2012	State: Colorado County: La Plata		Abbreviation: Filename:	None M028-001
User: KAP				
Agency or organiz	zation name:DRMS		-41	
HOURLY EQUIPMEN	T COST			
Basic Machine: Cat D	9T - 9SU			
Horsepower: 405		_		
Blade Type: Semi-	-Universal	_		
	nk ripper	_		
Shift Basis: 1 per		_		
Data Source: (CRG				
	7			
Cost Breakdown:				
0 11 0 77	000.40	<u>Utilization %</u>		
Ownership Cost/Hour:	\$80.19	NA		
Operating Cost/Hour:	\$140.68	100		
Ripper op. Cost/Hour:	\$7.17	100		
Operator Cost/Hour:	\$38.49	NA		
MATERIAL QUANTITY Initial Volume: 88,889 Swell factor: 1.165				
Loose volume:103,55	o LC i			
Source of estimated volume	: Division of Reclamati	on, Mining & Safety		
Source of estimated swell fa	actor: Cat Handbook		100	
HOURLY PRODUCTION	ON			
1000 1000				
Average push distance:	100 feet			
Unadjusted hourly production	on: 1,243.2 LCY/hr			
Materials consistency descri	iption: Consolidated stockr	pile 1.0		
Avarage much gradients	20.0/			
- · · · -	-30 %			
Average site attitude:	6,650 feet			
Material weight:	2,900 lbs/LCY		_	
Weight description:	Decomposed rock - 50% Rock,	, 50% Earth		
Job Condition Correction Fa	actor	Source		
Operator Sk		(AVG.)		
Material consistent		(AVU.)		

Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.601	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6323

Adjusted unit production: 786.08 LCY/hr
Adjusted fleet production: 1572.16 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.339/LCY

Total job time: 65.87 Hours
Total job cost: \$35,110.98

BULLDOZER WORK

	sk description:	Fill po	****					
	Animas Glacier ((AGG)	Gravel	Pen	mit Action:	New Permit	V Stem	Permit/Job#:	M2011028
рp	ROJECT IDEN	TIFICATIO	N					
-	Task #: 002 Date: 8/30/2		State: County:	Colorado La Plata		A	bbreviation: _ Filename:	None M028-002
	User: KAP							
	Agency or	organization na	me: DR	MS	380			
HC	OURLY EQUII	PMENT COS	<u>ST</u>					
F	Basic Machine:	Cat D9T - 9S	U					
	Horsepower:	405		-				
	Blade Type:	Semi-Univers	al					
	Attachment:	3-shank rippe	r					
	Shift Basis:	1 per day						
	Data Source:	(CRG)		-	_			
Cos	st Breakdown:					0.4		
O	wnership Cost/Ho	Nir.	\$80.19		Utilization 9	<u>%</u>		
	Operating Cost/Ho		\$140.68		NA 100			
	ipper op. Cost/Ho		\$0.00					
		Jui	\$0.00		0			
_	7 / C /TT		020 40					
Tota	Operator Cost/Houral Fleet Cost/Hour	\$259.35			NA			
Tota Tota	10 P	\$259.35 sr: \$518.71			NA			
Tota Tota MA	al unit Cost/Hour al Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor:	\$259.35 ar: \$518.71 ANTITIES 5,000 1.165			NA			
Tota Tota MA	al unit Cost/Hour al Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor:	\$259.35 ar: \$518.71 ANTITIES 5,000			NA			
Tota Tota MA In Le	al unit Cost/Hour al Fleet Cost/Hou ATERIAL QUA nitial Volume: Swell factor:	\$259.35 sr: \$518.71 \$518.71 \$5,000 1.165 5,825 LCY volume:			NA on, Mining & Safety	у		
Tota Tota MA In Lo Sour	al unit Cost/Hour al Fleet Cost/Hour ATERIAL QUANTIAL Volume: Swell factor: Loose volume: Loose volume: Loose of estimated stree of estimated streets	\$259.35 ar: \$518.71 ANTITIES 5,000 1.165 5,825 LCY volume: swell factor:	Division o			у		
Tota Tota MA In Le Sour	al unit Cost/Hour al Fleet Cost/	\$259.35 ar: \$518.71 ANTITIES 5,000 1.165 5,825 LCY volume: swell factor:	Division o			у		
Tota Tota MA In Le Sour Sour HO Ave	al unit Cost/Hour al Fleet Cost/Hour ATERIAL QUANTIAL Volume: Swell factor: Loose volume: Loose volume: Loose of estimated stree of estimated streets	\$259.35 ar: \$259.35 ar: \$518.71 ANTITIES 5,000 1.165 5,825 LCY volume: swell factor:	Division o	oook		у		
Tota Tota MA In Lo Sour Sour HO Ave: Una	al unit Cost/Hour al Fleet Cost/	\$259.35 str: \$259.35 str: \$518.71 ANTITIES 5,000 1.165 5,825 LCY volume: swell factor:	Division of Cat Handle	oook	on, Mining & Safety	у		
MA In Losour Sour HO Aver Una	al unit Cost/Hour al Fleet Cost Fleet Flee	\$259.35 st. 71 ANTITIES 5,000 1.165 5,825 LCY volume: swell factor:	Division of Cat Handle	oook Whr	on, Mining & Safety	y		
Tota Tota Tota MA In Lo Sour Sour HO Ave: Una Mate	al unit Cost/Hour al Fleet Cost Fleet Flee	\$259.35 ar: \$259.35 ar: \$518.71 ANTITIES 5,000 1.165 5,825 LCY volume: swell factor:	Division of Cat Handle Of feet 243.2 LCY	oook Whr	on, Mining & Safety	у		
MA In Le Sour Sour HO Ave: Una Mate	al unit Cost/Hour al Fleet Cost Fleet Flee	\$259.35 ar: \$259.35 ar: \$518.71 ANTITIES 5,000 1.165 5,825 LCY volume: swell factor:	Division of Cat Handle 200 feet 243.2 LCY Consoli	oook Whr	on, Mining & Safety	y		
MA In Le Sour Sour HO Aver Una Mate	al unit Cost/Hour al Fleet Cost Fleet	\$259.35 ar: \$259.35 ar: \$518.71 ANTITIES 5,000 1.165 5,825 LCY volume: swell factor: UCTION be: 10 roduction: 1, y description: at: -15 % 6,650 fee 2,900 lbs	Division of Cat Handle 200 feet 243.2 LCY Consoli	oook Whr	on, Mining & Safety	y		
MA In Le Sour Sour HO Ave: Una Mate Ave: Ave: Weig	al unit Cost/Hour al Fleet Cost/	\$259.35 ar: \$259.35 ar: \$518.71 ANTITIES 5,000 1.165 5,825 LCY volume: swell factor:	Division of Cat Handle 200 feet 243.2 LCY Consoli	oook //hr dated stockp	on, Mining & Safety ile 1.0			
MA In Le Sour Sour HO Ave: Una Mate Ave: Ave: Weig	al unit Cost/Hour al Fleet Cost/	\$259.35 ar: \$259.35 ar: \$518.71 ANTITIES 5,000 1.165 5,825 LCY volume: swell factor:	Division of Cat Handle 200 feet 243.2 LCY Consoli et s/LCY osed rock -	oook //hr dated stockp	on, Mining & Safety	<u>ce</u>		

Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(SSD-AC)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.6298

Adjusted unit production: 782.97 LCY/hr
Adjusted fleet production: 1565.94 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.331/LCY

Total job time: 3.72 Hours
Total job cost: \$1,929.49

BULLDOZER WORK

Task description:	_Sp	read Topsoil				
Animas Glacie	r Gravel	Perm	it Action:	N D'4	D :// 1 //	3.620.1.020
e: <u>(AGG)</u>				New Permit	Permit/Job#:	M2011028
PROJECT IDE	NTIFICAT	TION				
Task #: 003		State:	Colorado		Abbreviation:	None
The contract of the contract o	/2012	County:	La Plata		Filename:	None M028-003
User: KAI		_	201100	9	i nename.	141020-003
Agency	or organizatio	on name:DRM	MS			
HOURLY EQU	IPMENT (COST				
Basic Machine:	Cat D9T	- 9SII				
Horsepower:		750		-		
Blade Type:		iversal				
Attachment:						
Shift Basis:						
Data Source:						
Cost Prostedoven		* 8/9/				
Cost Breakdown:			1	TT::::		
Ownership Cost/	Hour:	\$80.19		<u>Utilization %</u> NA		
Operating Cost/	AND	\$140.68		100		
Ripper op. Cost/		\$0.00		0		
Operator Cost/	-	\$38.49		NA		
1	-	4		INA		
MATERIAL QU		<u>S</u>				
Initial Volume:	8,000		-9			
Swell factor: Loose volume:		7	-8			
Loose volume:	9,000 LC 1		-0			
Source of estimate	d volume:	Division of	Reclamati	on, Mining & Safety		
Source of estimate	d swell facto					
HOURLY PRO	DUCTION					
Average push dista	noot	150 feet				
Unadjusted hourly		910.5 LCY/h				
Chadjusted hourry	production.	910.5 LC 1/III				
Materials consister	cy description	on: Consolid	ated stockp	sile 1.0		
Average push grad	ient: -15	%				
Average site altitud		60 feet				
	A					
Material weight:	_2,55	0 lbs/LCY	3.000		 1	
Weight description	: Eart	h - Dry packed				
Job Condition Corr				Source		
	erator Skill:	0.75		(AVG.)		
Material c	onsistency	1.00	00	(CAT HR)	V2	

Dozing method:	1.200	(SLOT)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.900	(SSD-FC)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.902	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8059

Adjusted unit production: 733.77 LCY/hr
Adjusted fleet production: 1467.54 LCY/hr

JOB TIME AND COST

Fleet size: 2 Dozer(s)

Unit cost: \$0.353/LCY

Total job time: 6.13 Hours
Total job cost: \$3,181.08

BULLDOZER RIPPING WORK

	Task description:	Rip Compacted	l Areas				
Site	Animas Glacier G :: (AGG)	ravel Pe	ermit Action:	New Permit	Permit/J	ob#: <u>M2011</u>	028
	PROJECT IDENT	TIFICATION					
	Task #: 004 Date: 8/30/20 User: KAP	State: County:			Abbreviation Filenan		04
	200	rganization name: D	RMS				
	HOURLY EQUIP		AUVIO	10.7	7.00		
	Basic Mach		T		Horsepower:	405	
	Ripper Attachm	A STATE OF THE PARTY OF THE PAR			Shift Basis:	1 per day	
					Data Source:	(CRG)	
	Cost Breakdown:			1	Utilization %		
	Ov	wnership Cost/Hour:	\$80.	19	NA		
		perating Cost/Hour:	\$140		100		
		perating Cost/Hour: Operator Cost/Hour:	\$7. \$38.		100 NA		
		otal Unit Cost/Hour:	\$266		NA		
	To	- otal Fleet Cost/Hour:	\$533				
		_			12 A 8		
	MATERIAL QUA	NIIIES	Sele	cted estimating	method: Area	11.50 TEMP	-
	Alternate Methods:						
Seismic:	NA 20.00		nk Volume: _ Depth (ft):	NA 1.00	BCY Volume: 32,267	NA	BCY or CCY
mea.		arce of estimated quant	_				BCYOTCCY
			ity:Keciaiii	ation Plan			
	HOURLY PRODU	CHON					
	Seismic:	Seismic Vel	ocity	NA	feet/second		
	X	Seisine ver	ocity	IVA	leet/second		
	Area:	Average Ripping D	Denth:	2.63	mph		
		Average Ripping V	Vidth:	7.67	degrees		
		Average Ripping Le		500.00	feet		
		Average Dozer S		88.00	feet		
		Average Maneuver Production per unit		0.25	feet acres/hour		
	Job Condition Correcti			0.071	acres/flour		
	Marcon proper	ted Hourly Unit Produ	ction:	0.891	Acres/hr		
	Chadjus	15.0	à .				
		Site Alt Altitude		6,650 1.00	feet (CAT HB)		
		Job Effici		0.83	(1 shift/day)		
		Net Corre	ction:	0.83	multiplier		
		Adjusted Hourly Unit Adjusted Hourly Fleet		0.74 1.48	Acres/hr Acres/hr		
	JOB TIME AND C	OST					
	Fleet size:	2 Grader(s)		Total job time	: 13.53	Но	ours
	Unit cost: \$30	60.588 Per acre		Total job cost	t: \$7.212.00		

REVEGETATION WORK

Task description:	Revegetation	100	

Animas Glacier Gravel Permit Action:

Site: (AGG) New Permit Permit/Job#: M2011028

PROJECT IDENTIFICATION

Task #:005State:ColoradoAbbreviation:NoneDate:8/30/2012County:La PlataFilename:M028-005

User: KAP

Agency or organization name: DRMS

FERTILIZING

Materials

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

Application

Description		Cost /Acre
Truck whirlwind spreader (MEANS 32 01 90.13 0140)		\$20.91
	Total Fertilizer Application Cost/Acre	\$20.91

TILLING

Description		Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)		\$92.35
Weed control spraying (MEANS 31 31 16.13 3100)		\$145.20
	Total Tilling Cost/Acre	\$237.55

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Alfalfa - Common	0.25	1.21	\$0.63
Indian Ricegrass - Nespar	3.00	9.71	\$20.79
Canby Bluegrass - Canbar	0.50	10.63	\$4.10
Bottlebrush Squirreltail	1.00	4.41	\$24.33
Galleta	2.00	7.30	\$49.34
Slender Wheatgrass - Native	3.00	10.95	\$6.60
Western Wheatgrass - Native	3.00	7.58	\$8.94
Prairie Junegrass	0.50	26.58	\$16.84
Flax, Lewis Blue	0.50	3.32	\$8.09
Penstemon, Rocky Mountain	0.25	3.92	\$8.25

Bluebunch Wheatgrass - Goldar		2.00	6.43	\$10.76
	Totals Seed Mix	16.00	92.02	\$158.66

Application

Description		Cost /Acre
Drill seeding {DMG}		\$90.11
	Total Seed Application Cost/Acre	\$90.11

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
					\$
		Tot	als Nursery Stoc	ek Cost / Acre	\$0.00

JOB TIME AND COST

 No. of Acres:
 20
 Cost /Acre:
 \$571.23

 Estimated Failure Rate:
 25%
 Cost /Acre*:
 \$571.23

*Selected Replanting Work Items: FERTILIZING,TILLING,SEEDING

Initial Job Cost: \$11,424.60

Reseeding Job Cost: \$2,856.15

Total Job Cost: \$14,280.75

Job Hours: **25.00**

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	on: Mo	obilize		1,000			
Animas Gla Site: (AGG)	cier Gravel	Perm	it Action:	New Per	mit	Permit/Job#:	M2011028
PROJECT I	DENTIFICAT	TION					
Date: 8	006		Colorado La Plata			Abbreviation: Filename:	None M028-006
	CAP cy or organization	n name:DRN	AS				
EQUIPMEN	T TRANSPO	RT RIG COST	<u>r</u>				
					Cost I	AND THE RESERVE OF THE PERSON	per day RG Data
Tr	uck Tractor Des	cription: GE	NERIC O	N-HIGHW		TRACTOR, 6X4, D HALF, 2006)	IESEL POWERED,
T	ruck Trailer Des	cription: GEI	NERIC FC	LDING G		DROP DECK EQU AND 100T)	JIPMENT TRAILER
Cost Breakdow	<u>n:</u>						
Available Rig		0-25 Tons	26-5	0 Tons	51+ Tons	i i	
	hip Cost/Hour:	\$16.63	\$1	8.37	\$22.33		
Operat	ing Cost/Hour:	\$44.38	\$4	6.13	\$50.07		

NON ROADABLE EQUIPMENT:

Operator Cost/Hour:

Total Unit Cost/Hour:

Helper Cost/Hour:

\$27.66

\$0.00

\$88.67

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	\$72.40	\$125.45	2	\$395.69	\$250.90	\$0.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$0.00

\$27.66

\$25.39

\$117.55

\$27.66

\$25.39

\$125.45

Subtotals: \$523.95 \$339.57 \$0.00

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.	\$34.08	i	\$34.08	\$34.08

Subtotals: \$34.08 \$34.08

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

DURANGO
miles
3.00
mph

Total Non-Roadable Mob/Demob Cost *

'* two round trips with haul rig:

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

\$2,113.07

\$0.68

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.01	0.01
Return Time (Hours):	0.01	0.01
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	1.00	NA
Subtotals:	2.02	0.02

JOB TIME AND COST

Total job time:	4.04	Hours

Total job cost: \$2,113.75