

COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY MINERALS PROGRAM INSPECTION REPORT

PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME:	MINE/PROSPECTING ID#:	MINERAL: COUNTY:	
Hillyer Pit	M-1982-011	Sand and gravel San Juan	
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE: INSP. TIM	E:
Monitoring	Wallace H. Erickson	September 25, 2012 15:30	
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERATION:	
Jo Ann Vota	Jo Ann Vota	110c - Construction Limited Impac	ct

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$4,426.60
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Cloudy	INSPECTOR'S SIGNATURE:	SIGNATURE DATE: October 5, 2012

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS <u>NA</u>	(FN) FINANCIAL WARRANTY <u>Y</u>	(RD) ROADS <u>Y</u>
(HB) HYDROLOGIC BALANCE <u>Y</u>	(BG) BACKFILL & GRADING <u>Y</u>	(EX) EXPLOSIVES <u>NA</u>
(PW) PROCESSING WASTE/TAILING NA	(SF) PROCESSING FACILITIES NA	(TS) TOPSOIL \underline{Y}
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE \underline{Y}	(RV) REVEGETATION <u>Y</u>
(SM) SIGNS AND MARKERS <u>N</u>	(SP) STORM WATER MGT PLAN N	(SB) COMPLETE INSP <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE <u>Y</u>	(SC) EROSION/SEDIMENTATION \underline{Y}	(RS) RECL PLAN/COMP Y
(AT) ACID OR TOXIC MATERIALS Y	(OD) OFF-SITE DAMAGE \underline{Y}	(ST) STIPULATIONS <u>NA</u>

Y = Inspected and found in compliance / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

This inspection occurred as part of the Division's routine monitoring of permitted operations. The Hillyer Pit is approved for 7.5 acres affected lands; to extract alluvial materials from the west floodplain of the Animas River; and on-site processing to include screening, crushing and stockpiling. The approved plan indicates the north boundary of the excavation would maintain a 1.5H:1V highwall at 21 foot depth and 300 feet in length. East and west side slopes of the pit would be maintained at 2H:1V, which converge approximately 1,050 feet to the south (triangular shaped permit area). The pit floor would extend approximately 1,050 feet to the south, along the west bank, until the pit floor daylighted with the 2% grade of the river. The plan anticipated the river would enter the pit during high flow and deposit its bedload before returning to the main channel through the south end of the pit. Alluvial materials deposited within the pit area would be harvested annually during low flow season. Reclamation activities included the cessation of extraction sufficient to allow the excavated area to refill, grading, and revegetation. Affected lands were located entirely within the active floodplain or within previously disturbed areas where topsoil was not available for salvage. Therefore, topsoil is not available for reclamation purposes. Affected lands are to be reclaimed to provide a stable river channel and floodplain area. This report is accompanied by an updated reclamation cost estimation totaling \$4,280.56, and four photos.

Observations made during the inspection indicate mining activities may have commenced, many years ago, but never completed the extent of excavation contemplated in the permit application. Evidence of excavation activity appeared limited to an area along the west bank of the Animas River, approximately 300 feet in length and commencing approximately 150 feet south of the north permit boundary. The river appears to have entered the excavation area and deposited sufficient bedload to fill whatever excavation may have existed, and returns to its original channel at the downstream end of the excavated area. The excavation activity appears to have exposed a layer of cemented conglomerate (ferricrete) along portions of the west bank. The ferricrete is resistant to erosion and appears to define a stable west bank throughout the excavated area. Evidence of active erosion of the river banks was limited to a short stretch of near-vertical river bank, approximately 20 feet long and 3 feet high, along the west bank and immediately upstream of the excavation area. The west bank erosion appears to have resulted from realignment of the low-flow channel through the pit area and has potential to continue until the river attains a new and more stable configuration. Vegetative cover for affected lands ranged from sparse to well established. Due to the rocky nature of the soils and exposed ferricrete, affected lands appeared stable even for areas void of vegetative cover. Evidence of public use of the land included numerous fire rings and vehicle tracks.

The Division previously held \$5,000 financial warranty to ensure completion of reclamation. However, the value of the bond has been declining since or about December 2008, and is now valued at \$4,426.60, per a recent bank statement received by the Division. The Division has reviewed the current cost of reclamation totaling \$4,280.56. Please find enclosed eight pages of summary and task sheets utilized by the Division to calculate the current cost of reclamation. Therefore, the existing \$4,426.60 financial warranty appears sufficient to ensure the completion of reclamation.

Inspection Contact Address

Jo Ann Vota 315 N. Sunburst Ln Durango, CO 81301 Enclosure:

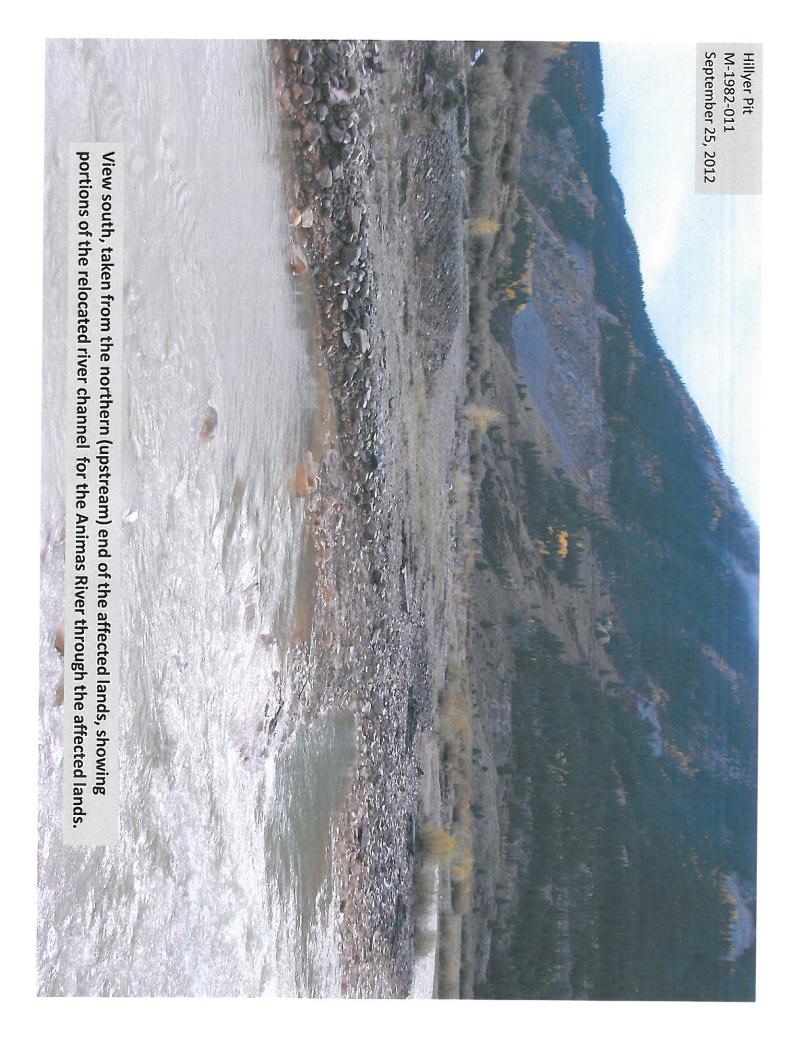
Reclamation cost estimate totaling \$4,280.56; and

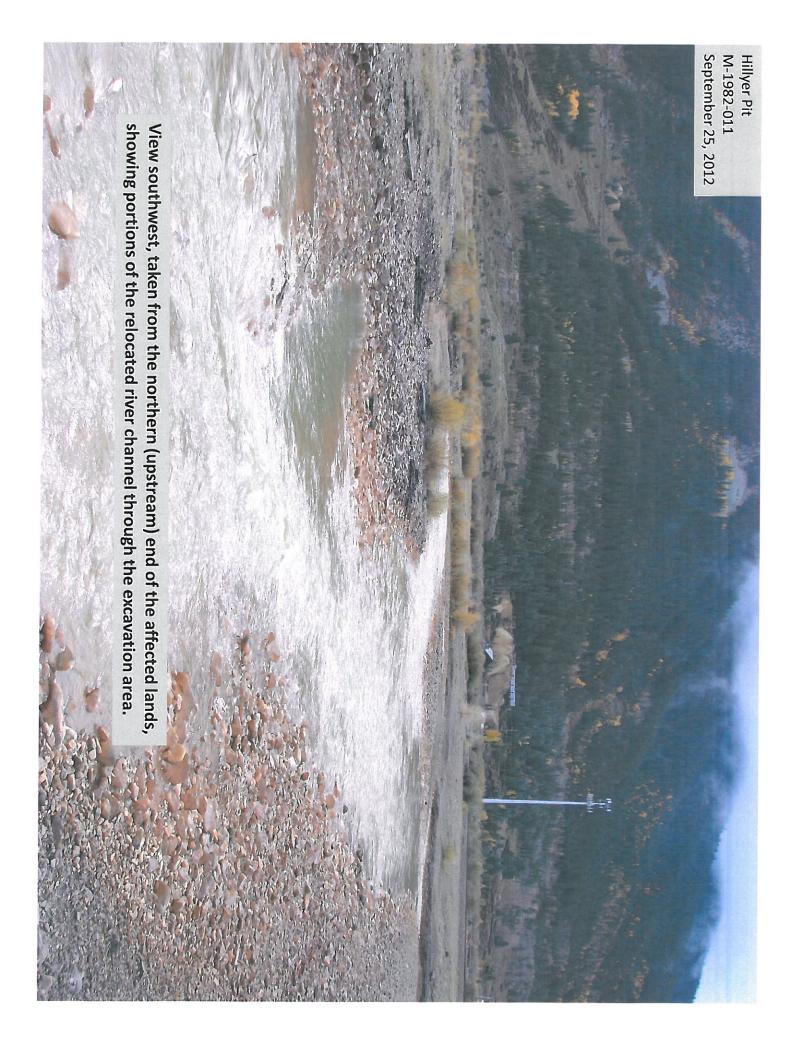
4 photos.

ec w/enclosure:

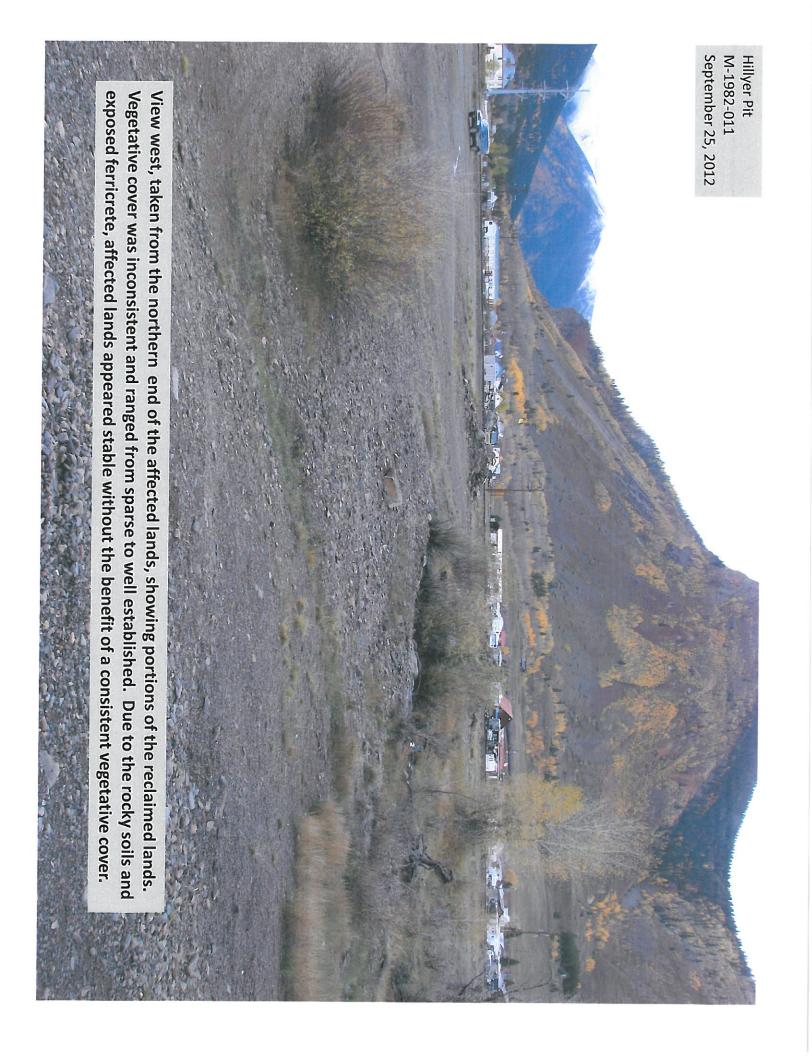
Kara Hellige, US Army Corps of Engineers;

Russ Means, DRMS GJFO









COST SUMMARY WORK

Task description:

Summary of reclamation tasks and costs

Site: Hillyer Pit

Permit Action: Routine bond update

Permit/Job#: M1982011

PROJECT IDENTIFICATION

Task #: 005 State:

Colorado

Abbreviation:

None

Date: User:

10/5/2012 WHE

County: San Juan

Filename:

M011-005

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	Grade west bank erosion area	EXCAVATE	1	0.90	\$66.00
002	Redistribute 36 cy earthen materials with backhoe	LOADER	1	0.30	\$26.00
003	Transplant 250 willow	REVEGE	1	0.00	\$1,507.50
004	Haul reclamation equipment to and from job site	MOBILIZE	1	6.00	\$1,272.16
		SUBTO	OTALS:	7.2	\$ \$2,871.66

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: Performance bond:

Job superintendent:

2.02

1.05

3.60

Profit: 10.00 Total = \$58.01

Total = \$30.15

Total = \$213.48

Total = \$287.17

TOTAL O & P =\$588.81

CONTRACT AMOUNT (direct + O & P) = \$3,460.47

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:

4.25 5.00 Total =

\$147.07 \$173.02

CONTINGENCY:

0.00

Total = \$0.00

TOTAL INDIRECT COST = \$1,408.90

TOTAL BOND AMOUNT (direct + indirect) = \$4,280.56

HYDRAULIC EXCAVATOR WORK (Backhoe)

II:U D:4	11.	e west bank		- Land				
e: Hillyer Pit		Perm	it Action:	Routine bond u	ıpdate	Pe	rmit/Job#:	M1982011
PROJECT IDENTI	FICATIO	<u>ON</u>						
Task #: 001		State:	Colorado			۸hbr	eviation:	None
Date: 10/5/2012)	County:	San Juan		·		ilename:	M011-001
User: WHE		County	Bair Juan			1	ilenamie.	10111-001
Agency or org	anization	name: _DRN	MS					
HOURLY EQUIPM	ENT CO	OST						
Basic Machine:	Cat 307	D 7'-3" Stick	C		Horse	epower:		56
Attachment 1:	ROPS (Cab				t (MT):		.23
						t Basis:	1 pc	er day
					Data :	Source:		RG)
Cost Breakdown:				ou maria a sa				
01' 0	///	#15.0		Utilization %				
Ownership Cost		\$15.06		NA 100				
Operating Cost Operator Cost		\$18.88 \$38.67		100				
Total Unit Cost				NA				
	_	\$72.62						
Total Fleet Cos	t/Hour: _	\$72.62	2					
MATERIAL QUAN								
	36 36		CCY LCY	Swell fac	tor:	1.000		
The second of th		. 1000 1440						
		ted volume:		1')/2) x 40'L)/	27 = 35	5.6 cy		
Source of e	estimated s	well factor:	Cat Hand	lbook				
HOURLY PRODUC	CTION							
Excavator Cycle Time (load bucke	et, swing load	ed, dump b	oucket, swing em	ntv)·			
					pry .			
		p	Racic Joh C			AVEDA	CE	
	Secon			ondition Descrip	tion:	AVERA	100125080000	
	Secon			ondition Descrip	otion:	AVERA	100125080000	minutes
Load Bucket Capacity	Secon			ondition Descrip	otion:		100125080000	minutes
Load Bucket Capacity	Secon			ondition Descrip	otion: _ tion: _ alue: _	AVERA 0.242	GE	
		dary Job Con	dition with	ondition Descrip in Basic Descrip Cycle Time V	otion: _ tion: _ alue: _	AVERA	GE	
Rated Capacit	y:	dary Job Con	dition with	condition Descrip in Basic Descrip Cycle Time Va aped)	otion: _ tion: _ alue: _ Buck	AVERA 0.242 tet Size Cl	GE lass: Sm	
Rated Capacit	y:	0.20 1.100	LCY (head)	ondition Descrip in Basic Descrip Cycle Time V	otion: _ tion: _ alue: _ Buck	AVERA 0.242	GE lass: Sm	
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Rated Capacit	cy: or:	0.20 1.100	LCY (he: Other - ro	condition Description Basic Descrip Cycle Time Value Ti	otion:tion:alue: _ Buck	AVERA 0.242 tet Size Cl	ass: Sm	
Rated Capacit Bucket Fill Facto Adjusted Capacit Job Condition Correctio	ry: or: ry: n Factors	0.20 1.100 0.22	LCY (he: Other - ro LCY	condition Description Basic Descrip Cycle Time Value (Cycle Time Value) (aped) (bock/dirt mixtures)	otion:tion:alue: _ Buck	AVERA(0.242 set Size Cl -120%) 1.	ass: Sm	
Rated Capacit Bucket Fill Facto Adjusted Capacit Job Condition Correctio Altitude Adj:	ry: or: ry: n Factors	0.20 1.100 0.22	LCY (he: Other - ro LCY Source (CAT HI	condition Description Basic Descrip Cycle Time Value aped) bock/dirt mixtures Site	otion:tion:alue: _ Buck	AVERA(0.242 set Size Cl -120%) 1.	ass: Sm	
Rated Capacit Bucket Fill Facto Adjusted Capacit Job Condition Correctio	ry: or: ry: n Factors	0.20 1.100 0.22	LCY (head of the control of the cont	condition Description Basic Description Cycle Time Value aped) aped) bock/dirt mixtures Site	otion:tion:alue: _ Buck	AVERA(0.242 set Size Cl -120%) 1.	ass: Sm	
Rated Capacit Bucket Fill Facto Adjusted Capacit Job Condition Correctio Altitude Adj: Job Efficiency: Net Correction:	y:	0.20 1.100 0.22	LCY (he: Other - ro LCY Source (CAT HI (1 shift/dz multiplier	condition Description Basic Descrip Cycle Time Value aped) bck/dirt mixtures Site 3)	btion: _ tion: _ alue: _ Buck (100-	AVERA(0.242 set Size Cl -120%) 1. de: 9000 f	ass: Sm	
Rated Capacit Bucket Fill Facto Adjusted Capacit Job Condition Correctio Altitude Adj: Job Efficiency: Net Correction:	y:	0.20 1.100 0.22 87 83 72 Hourly Unit Pr	LCY (head Other - roll CAT HI (1 shift/da multiplier roduction:	condition Description Basic Description Cycle Time Value aped) aped) bock/dirt mixtures Site 3) by 54.55	tion: _ tion: _ alue: _ Buck (100-	AVERA(0.242 tet Size Cl -120%) 1. de: 9000 f	ass: Sm	
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Rated Capacit Bucket Fill Facto Adjusted Capacit Job Condition Correctio Altitude Adj: Job Efficiency: Net Correction: Un	ry:	0.20 1.100 0.22 87 83 72 Hourly Unit Pr	LCY (hear Other - ro LCY Source (CAT HII (1 shift/dz multiplier roduction: roduction:	condition Description Basic Description Cycle Time Value aped) aped) bock/dirt mixtures Site 3) by 54.55	tion: _ tion: _ alue: _ Buck (100- e Altitude LC LC	AVERA(0.242 tet Size Cl -120%) 1. de: 9000 f	ass: Sm	
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Rated Capacit Bucket Fill Facto Adjusted Capacit Job Condition Correctio Altitude Adj: Job Efficiency: Net Correction: Un	ry:	0.20 1.100 0.22 37 33 72 Hourly Unit Property Unit Unit Property Unit Unit Property Unit Unit Unit Unit Unit Unit Unit Unit	LCY (hear Other - ro LCY Source (CAT HI (1 shift/dz multiplier roduction: roduction: roduction:	condition Description Basic Description Cycle Time Value Apped) apped) bock/dirt mixtures Site 3) by 54.55 39.39	tion: _ tion: _ alue: _ Buck (100- e Altitude LC LC	AVERA(0.242 tet Size Cl -120%) 1. de: 9000 f	ass: Sm	

WHEEL LOADER – LOAD AND CARRY WORK

Task description:	Redistr	bute 36 cy eart	hen materials	with backhoe		
e: Hillyer Pit		Permit Act	tion: Routine	bond update	Permit/Job#:	M1982011
					_	-
PROJECT IDEN	TIFICATION	[
Task #: 002		State: Colo	rada		A.b.b.assistism.	Mana
Date: $\frac{10/5}{2}$	2012	County: San J			Abbreviation: Filename:	None M011-002
User: WHE		CountyBan s	ruaii		riichame.	10111-002
Sec. 10.	organization nar	me: DRMS				
HOURLY EQUI	PMENT COST	<u>r</u>				
Basic Machi	ne: CAT 446I)		Horsep	ower:	101
Attachment				Shift 1		er day
			= ₹	Data So		CRG)
C+++ D1-1						
Cost Breakdown:			Utilizati	on %		
Ownership (Cost/Hour	\$17.87	NA	37-CT-0		
Operating (\$29.61	100			
	Cost/Hour:	\$38.49	NA			
Total Unit (\$85.97				
						
Total Fleet	Cost/Hour:	\$85.97				
MATERIAL QU Initial volume:		CC,	Y Sw	ell factor: 1.	000	
Loose volume:	36	LCY	Z .			
Sor	arce of estimated	volume: See	task 1 for calcu	lation of materi	al quantity	
	of estimated swe		Handbook	idition of materi	ar quantity	
HOURLY PROD	UCTION					
			200			
Loader Cycle Time:	Unadjust	ed Basic Cycle T	Time (load, dun	p, maneuver):	0.475	minutes
Cycle Time	Factors			1	Factor (min.)	Source
M	aterial: Mixed	material 0.02			0.020	(Cat HB)
		ed by truck 0.02			0.020	(Cat HB)
Truck Own		justment - factor		0.00	0.000	(Cat HB)
		ant operation -0.0	04		-0.040	(Cat HB)
Dump '	Target: Nomin	nal target 0.00	(C 1 T)	10	0.000	(Cat HB)
			t Cycle Time A		0.000	minutes
		A	djusted Basic C	ycie Time:	0.475	minutes
Rolling Resistance -	Road Condition	<u>s</u>				
Ţ	Haul: Soft, rutt	ed dirt, no maint	tenance or wate	r 4" tire nenetr	ation & O	
		ed dirt, no maint				
				., . me penetr		1000
Haul and Return Tin	<u>ne</u>					
	Length	Grade Res.	Rolling	Total Res.	Travel Time	
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source
Haul Route:	100	-5.00	8.00	3.00	0.0564	(Cat HB)
Return Route:	100	5.00	8.00	13.00	0.1388	(Cat HB)

			Total Travel Ti Total Cycle Ti		minutes minutes
Load Bucket Capacity					
Rated Capacity: Bucket Fill Factor:	1.100		ped) ck/dirt mixtures	(100-120%) 1.100	
Adjusted Capacity:	1.65	LCY			
Job Condition Correction I Site Altitude: 9000 feet	Factors				
		Source			
Altitude Adj:	0.95	(CAT HB)		
Job Efficiency:	0.83 (1 shift/day	<u>/)</u>		
Net Correction:	0.79 n	nultiplier			
Unad	ljusted Hourly Unit Pro	duction:	147.72	LCY/Hour	
	ljusted Hourly Unit Pro		116.48	LCY/Hour	
Adj	justed Hourly Fleet Pro	duction:	116.48	_ LCY/Hour	
JOB TIME AND COS	<u>T</u>				
Fleet size: 1	Loader(s)		Total job time:	0.31	Hours
Unit cost: \$0.73	38 /LCY		Total job cost:	\$26.00	

REVEGETATION WORK

Hillyer Pit	Permit A	Action: Rou	tine bond ı	ıpdate	Permit/Joba	#: M1982011
PROJECT IDENTIFICATION		* -		1		
Task #: 003	State: Co	olorado			Abbreviation:	None
Date: 10/5/2012		n Juan			Filename:	
User: WHE						
Agency or organization i	name: DRMS					
FERTILIZING						
Materials	1	Units /				T
Description		Acre	Unit	C	Cost / Unit	Cost /Acre
				\$	-	\$
					Pakal Track'i	*
				1	Total Fertilizer Materials	
					Cost/Acre	\$0.00
Application						
Description						Cost /Acre
						\$
		3				Ψ
		Tota	Fertilizer	Applicat	tion Cost/Acre	\$0.00
<u>TILLING</u>						
Description						Cost /Acre
	- 10000 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -		26/3			\$
					20 20 23	Ψ
				Total Till	ling Cost/Acre	\$0.00
SEEDING						
Seed Mix				Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
						\$
		Totals 5	Seed Mix	0.00	0.00	\$0.00
Application						φυ.υυ
Description						Cost /Acre
						\$
	-777					₹

Total Seed Application Cost/Acre	\$0.00
Total Seed Application Cost/Acre	\$0.00

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
Willow, Sandbar	250	Bare root seedling, 11-16 inch ht. (MEANS)	\$4.02	\$2.40	\$1,005.00
		Totals	Nursery Stoc	ek Cost / Acre	\$1,005.00

JOB TIME AND COST

No. of Acres: 1 Cost /Acre: \$1,005.00
Estimated Failure Rate: 50% Cost /Acre*: \$1,005.00
*Selected Replanting Work Items: NURSERY

Initial Job Cost: \$1,005.00

Reseeding Job Cost: \$502.50

Total Job Cost: Job Hours: 0.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Haul reclamation equipment to and from job site

Site: Hillyer Pit Permit Action: Routine bond update Permit/Job#: M1982011

PROJECT IDENTIFICATION

Task #: 004 State: Colorado Abbreviation: None

Date: 10/5/2012 County: San Juan Filename: M011-004
User: WHE

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/unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
CAT 446D	9.80	\$17.87	\$88.67	1	\$106.54	\$88.67	\$250.00

Subtotals: \$106.54 \$88.67 \$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	\$84.33	1	\$84.33	\$84.33

Subtotals: \$84.33 \$84.33

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

10.00

miles

mph

Total Non-Roadable Mob/Demob Cost *

'* two round tring with houl riggs

\$1,103.50

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

** one round trip, no haul rig:

\$1,103.50

\$168.66

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	1.00	1.00
Return Time (Hours):	1.00	1.00
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	3.00	2.00

JOB TIME AND COST

Total job time:	6.00	Hours
-	- Ville	