

COLORADO Division of Reclamation, Mining and Safety Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

April 24, 2014

Jason Burkey United Companies of Mesa County P.O. Box 3609 Grand Junction, CO 81502

#### RE: Spring Creek Pit, Permit No. M-1994-097, Reclamation Costs Update and Notice of Surety Increase (SI-2)

Dear Mr. Burkey:

In an effort to ensure the Financial Warranty for the above referenced site adequately reflects the actual current costs of fulfilling the requirements of the approved reclamation plan, the Colorado Division of Reclamation, Mining and Safety (Division) has updated the reclamation cost estimate (copy enclosed). *Therefore, pursuant to Section 34–32.5–117(4) of the Colorado Land Reclamation Act, adequate Financial Warranty must be submitted to the Division within 60 days of the mailing date of this letter.* The additional amount needs to be accepted prior to **Tuesday**, June 24, 2014. Please review the enclosed figures as soon as possible and contact our office if any calculation errors are noted.

Staff calculations estimate the cost to reclaim the above referenced site to be <u>\$192,460.00</u>. This is an increase of <u>\$100,230.00</u> over the <u>\$92,230.00</u> currently held by the Division. This estimate is based on conditions observed during the April 17, 2014 inspection.

Please make arrangements with Barbara Coria at the Division of Reclamation, Mining and Safety Denver Office, phone no. 303.866.3567, ext. 8148 for submittal of the financial warranty. Any questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Barbara Coria.

If you require additional information, have questions or concerns, please contact me at the DRMS Grand Junction Field Office.

Sincere Dustin Ezapla

Environmental Protection Specialist Department of Natural Resources Division of Reclamation, Mining and Safety 101 South 3<sup>rd</sup>, Suite 301



United Companies of Mesa County April 24, 2014 Page 2

Grand Junction, CO 81501 Phone: (970) 243-6299 Fax: (970) 241-1516

Enc: Financial Warranty Cost Estimate

# COST SUMMARY WORK

Site:	Spring Creek Pit	Permit Action:	2014-04-1 Inspection		Job#: <u>M1994097</u>
Ē	PROJECT IDENTIFICATION				
	Task #:000State:ColorDate:4/23/2014County:MontUser:DMC			Abbreviation: Filename:	None M097-000
	Agency or organization name: DRMS				
1	TASK LIST (DIRECT COSTS)				
Task	Description	Form	Fleet	Task	
01a	Description           Push cured asphalt into highwall backfill	Used DOZER	Size	Hours 1.33	Cost \$332.88
02a	Cut highwall slopes to 3H:1V	DOZER	- 1	10.47	\$332.88 \$2,610.88
)3a	Rip compacted pit floor and haul roads	RIPPER	1	64.94	\$17,264.00
)4a	Distribute topsoil throughout site	SCRAPER1	-1	47.28	\$41,399.11
)5a	Grade topsoil	GRADER		30.55	\$2,470.00
06a	Vegetate affected area	REVEGE	1	55.00	\$84,219.44
07a	Mobilize reclamation crew and equipment	MOBILIZE	1	2.28	\$5,292.08
		<u>SUB</u>	TOTALS:	211.85	\$153,588.39
T	NDIRECT COSTS				
-					
<u>(</u>	OVERHEAD AND PROFIT:				
	Liability insurance: 2.02%			Total = 5	\$3,102.49
	Performance bond: 1.05%			Total = 3	\$1,612.68

-		1 Ottai	ΨΞ,102.49	
Performance bond:	1.05%	Total =	\$1,612.68	_
Job superintendent:	140.01 hrs	Total =	\$9,158.05	_
Profit:	10.00%	Total =	\$15,358.84	_
		TOTAL O & $P =$	\$29,232.06	_
		CONTRACT AMOUNT (direct + O & P) =	\$182,820.45	_

# LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	500.00 0.00% 5.00%	Total = Total =	500.00 \$0.00 \$9,141.02
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL	NDIRECT COST =	\$38,873.08
TOTAL BO	OND AMOUNT (d	lirect + indirect) =	\$192,461.47

# BULLDOZER WORK

Task description:	Push cured asphalt into high	wall backfill		
e: Spring Creek Pit	Permit Action:	2014-04-17 Inspection	Permit/Job#:	M1994097
PROJECT IDENTIF	ICATION			
Task #: 01A	State: Colorado		Abbreviation:	None
Date: 4/23/2014	County: Montrose		Filename:	M097-01a
User: DMC				
Agency or organ	nization name: DRMS			
HOURLY EQUIPME	ENT COST			
Basic Machine: Cat	t D9T - 9U			
Horsepower: 405				
	iversal	_		
Attachment: NA				
	er day			
Data Source: (CI	RG)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$69.88	NA		
Operating Cost/Hour:	\$142.13	100		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$37.41	NA		
Total unit Cost/Hour:	\$249.42			
Total Fleet Cost/Hour:	\$249.42			
MATERIAL QUANT	TIES			
Initial Volume: 1,00				
Swell factor: 1.00				
	0 LCY			
Source of estimated volu				
Source of estimated swel	l factor: Cat Handbook			
	TION			
HOURLY PRODUC	<u>110N</u>			
Average push distance:	100 feet			
Unadjusted hourly produ	ction: 1,308.1 LCY/hr			
Materials consistency de	scription: Loose stockpile 1.2			
Average push gradient:	0 %			
Average site altitude:	5,700 feet			
	5,100 1001			
Material weight:	2,700 lbs/LCY		43).	
Weight description:	Stone - crushed			
Job Condition Correction	1 Factor	Source		
Operator		(AVG.)		
Material consist		(CAT HB)		
Dozing me		(GEN.)		
-				

1.000	(AVG.)
0.830	(1 SHIFT/DAY)
0.900	(SSD-FC)
1.000	(CAT HB)
1.000	(CAT HB)
0.852	(CAT HB)
1.000	(PAT)
0.5728	
9.28 LCY/hr	
	0.830 0.900 1.000 1.000 0.852 1.000 0.5728

# JOB TIME AND COST

Adjusted fleet production:

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.333/LCY	_

749.28 LCY/hr

Total job time:	1.33 Hours	
Total job cost:	\$332.88	

# BULLDOZER WORK

Task description:	Cut l	nighwall slopes to 3H	I:1V		
: Spring Creek Pit		Permit Action	n: 2014-04-17 Inspection	Permit/Job#:	M1994097
PROJECT IDENT	<u>'IFICATIO</u>	<u>DN</u>			
Task #: 02A		State: Colorad	lo	Abbreviation:	None
Date:	14	County: Montro	se	Filename:	M097-02a
User: DMC				-	
Agency or o	rganization r	name: DRMS			
HOURLY EQUIP	MENT CO	<u>est</u>			
Basic Machine:	Cat D9T - 9	U			
	405				
Blade Type:	Universal				
Attachment:	NA				
Shift Basis:	1 per day				
	(CRG)				
Cost Breakdown:			0		
			Utilization %		
Ownership Cost/Hou	ar:	\$69.88	NA		
Operating Cost/Hor		\$142.13	100		
Ripper op. Cost/Hor		\$0.00	0		
Operator Cost/Hor	-	\$37.41	NA		
-		\$57.11	INA		
Total unit Cost/Hour:	+	2			
Total Fleet Cost/Hour	: <b>\$249.4</b>	2			
MATERIAL OILA	NTUTIES				
MATERIAL QUA	NIIIES				
	0,370				
Swell factor: 1	.060				
Loose volume: 1	0,992 LCY				
Source of estimated v Source of estimated s		Division of Reclan Cat Handbook	nation, Mining & Safety		
Source of estimated s		Cat Handbook			
HOURLY PRODU	JCTION				
Average push distance		50 feet			
Unadjusted hourly pro		2,222.9 LCY/hr			
onadjusted nourry pro	Juction	2,222.9 LC 1/11			
Materials consistency	description:	Compacted fill of	or embankment 0.9		
Average push gradien	it: -15 %				
Average site altitude:		feet			
0					
Material weight:	2,900	lbs/LCY		-	
Weight description:	Sand a	ind gravel - Dry			
Job Condition Correc			Source		
	tor Skill:	0.750	(AVG.)		
Material con		0.900	(CAT HB))		
Dozing	method:	1.000	(GEN.)		

Task # 02A

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)

Adjusted unit production:	1,050.10 LCY/hr	
Adjusted fleet production:	1050.1 LCY/hr	

# JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.238/LCY

Total job time:	<b>10.47</b> Hours
Total job cost:	\$2,610.88

# Highwall reduction - cut and fill



All dimensions measured in feet Drawing not to scale



# BULLDOZER RIPPING WORK

	Task description:	Rip con	pacted pit flo	oor and	haul roads				
Site:	Spring Creek P	it	Permit A	Action:	2014-04-17 Ins	spection	Permit/Job#:	M1994097	7
	PROJECT IDE	NTIFICATION	I						
	Task #:         03A           Date:         4/23/           User:         DMC			olorado ontrose		A	bbreviation: Filename:	None M097-03a	
	Agency o	r organization nat	ne: DRMS						
	HOURLY EQU	IPMENT_COS'	Г						
	Basic M Ripper Attac		DT - 9U 1k Ripper			Horsepowe Shift Basi		405 ber day	
				1		Data Source		CRG)	_
	Cost Breakdown:					Utilization %	6		
		Ownership Cost/		\$78		NA			
	Dime	Operating Cost/		\$14		100			
	Kippe	r Operating Cost/ Operator Cost/			.96	100			
		Total Unit Cost/		\$37 \$26	5.84	NA			
		Total Fleet Cost/		\$26					
	MATERIAL QU	JANTITIES		Sele	ected estimating	method A	rea		
	Alternate Methods	•				1			
Seismic:	NA		Bank Vo	lume:	NA	BCY		NA	
Area:	48.00	acres	Rip Dept	-	2.00	Volume:	154,880		BCY or CCY
		Source of estimat	ed quantity:	Estima	te based on curr	ent conditions	5		
	HOURLY PRO								
	Seismic:								
		Seis	smic Velocity:		NA	feet/	second		
	Area:								
		Average R	Lipping Depth:		2.63	mph			
			ipping Width:		7.67	degr			
		Average Ri	pping Length:		500.00	feet			
		Average	Dozer Speed:		88.00	feet			
		Average M	aneuver Time:		0.25	feet			
		Production	per unit area:		0.891	acres	s/hour		
	Job Condition Corr	rection Factors							
	Unac	djusted Hourly Ur	nit Production:		0.891	Acre	es/hr		
			Site Altitude:		5,700	feet			
		-	Altitude Adj:		1.00		T HB)		
			ob Efficiency:		0.83		uft/day)		
		N	let Correction:		0.83	mult	iplier		
			urly Unit Proc		0.74	Acres/h	•		
		Adjusted Hor	urly Fleet Proc	duction:	0.74	Acres/h	-		
	JOB TIME ANI	<u>D_COST</u>							
	Fleet size:	1 (	Grader(s)		Total job time	e:	64.94	Hour	S
	Unit cost:	\$359.668 F	Per acre		Total job cos	st:	\$17,264.00		

#### SCRAPER TEAM WORK

Task descri	ption:	Distribute	topsoil	throughou	it site				
te: Spring C	Creek Pit		Perm	nit Action:	2014-04-17 Inspec	tion Perr	nit/Job#:	M1994	097
PROJEC	<u>r iden</u> i	<b>TIFICATION</b>							
Task #: Date: User:	04A 4/23/20 DMC		State:	Colorado Montrose		Abbrev File	viation: _ ename: _	None M097-04	4a
A	gency or c	organization name	DRI	MS					
HOURLY	<u>EQUIP</u>	<u>MENT</u>			COSTShift	basis: <u>1 per da</u>	ay		
				Equipme	ent Description				
		-9	Scraper:	Cat 657	G				
6			-Dozer:						
	Suppor	rt Equipment -Loa	d Area:	NA					
			p Area:						
	Road Ma	intenance - Motor	Grader:	NA					
		-Water	r Truck:	NA					
<u>Cost Break</u>	down:	Scraper Wo	ork Tean	n	Support Equipme	ent	Main	tenance F	Equipment
		Scraper	1	ozer		Dump Area	Motor (		Water Tr
						-			

%Utilization-machine:	100	NA	NA	NA	NA	NA
Ownership cost/hour:	\$121.28	NA	NA	NA	NA	NA
Operating cost/hour:	\$286.51	NA	NA	NA	NA	NA
Ripper op. cost/hour:	NA	NA	NA	NA	NA	NA
Operator cost/hour:	\$30.02	NA	NA	NA	NA	NA
Unit Subtotals:	\$437.81	NA	NA	NA	NA	NA
Number of Units:	2	0	0	0	0	0
Group Subtotals:	Work:	\$875.62	Support:	\$0.00	Maint:	\$0.00

Total work team cost/hour: \$875.62

# **MATERIAL QUANTITIES**

Initial volume:	73,944	CCY	Swell factor:	1.000
Loose volume:	73,944	LCY		

Source of estimated volume:Approximately 55 acres with 11 inch depthSource of estimated swell factor:Cat Handbook

# **HOURLY PRODUCTION**

		Scraper Bowl (volu		
Material weight:		Struck Volume:	32.00	LCY
Material description:	Top Soil	Heaped Volume:	44.00	LCY
Rated Payload:	104,000 pounds	Average Volume:	38.00	LCY
Payload Capacity:	65.00 LCY	Adjusted Capacity:	38.00	LCY

1.00 Minutes 0.60 Minutes

Cycle Time:

Scraper Loading Time:
Maneuver and Spread Time:

Job Condition Correction:

Job Condition Correction	<u>1:</u>			Site Altitude: 5700 feet
	Scraper	Push Dozer	Source	7
Altitude Adj:	1.000	NA	(CAT HB)	_
Job Efficiency:	0.830	NA	(CAT HB)	
Net Correction:	0.830	NA		_

#### Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 2" tire penetration 5.0</u>

#### Haul Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	2335	0.43

Haul Time: 0.43 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res	Total Res	Velocity (fpm)	Travel Time (min)
1	500.00	0.00	5.00	5.00	2888	0.39

		0.00	5.00	5.00	2000	0.39
				Return Time:	0.39	minutes
				er team cycle time:		minutes
			Adjusted	for job conditions:	781.98	LCY/Hour
				mber of Scrapers:		Scraper(s)
	Adjuste	ed single scrap	er team (unit) l	hourly production:	1,563.97	LCY/Hour
	Adjusted r	nultiple scrape	er team (fleet) l	hourly production:	1,563.97	LCY/Hour
Optima	Unadjusted unit pro I Number of Scrapers po			LCY/Hour		

#### JOB TIME AND COST

Fleet size:	1	Team(s)	Total job time:	47.28	Hours
Unit cost:	\$0.560	/LCY	Total job cost:	\$41,399.11	

### MOTOR GRADER WORK

Task description:	Grade topsoil			
Site: Spring Creek Pit	Permit A	Action: _2014-04-171	inspection Perm	it/Job#: M1994097
PROJECT IDENTI	<b>FICATION</b>			
Task #:         05A           Date:         4/23/2014           User:         DMC		ontrose	Abbrevi File	ation: <u>None</u> name: <u>M097-05a</u>
Agency or org	anization name: DRMS			
HOURLY EQUIPM	ENT COST			
Basic Machin Ripper Attachme			Horsepower: Shift Basis: Data Source:	135 1 per day (CRG)
Cost Breakdown:				
Op Ripper Op Oj	hership Cost/Hour: erating Cost/Hour: erating Cost/Hour: perator Cost/Hour: al Unit Cost/Hour:	\$15.91 \$37.37 \$0.00 \$27.55 \$80.82	Utilization % NA 100 NA	
Tota	al Fleet Cost/Hour:	\$80.82	- -	
MATERIAL QUAN		50.00		
	a to be graded or ripped:	50.00 Estimate based on ob	served conditions	acres
HOURLY PRODUC	6			
Widtl Net grading	Average Grader Speed: Selected Application: Selected Blade Angle: Effective Blade Length: n of blade overlap per pass: g or ripping width per pass: ed Hourly Unit Production:	Finisl 0 12.00 2.00 10.00 1.8182	mph a grading (0-2.5 mph) degrees feet feet feet acres/hour Site Altitude: 5700 fee	
A 1		Source		
Altitude Adj: Job Efficiency: Net Correction:	0.90 (1 0.9000 m	CAT HB) sh/d, fav.) ultiplier		
	Adjusted Hourly Unit Proc Adjusted Hourly Fleet Proc		acres/Hour acres/Hour	
JOB TIME AND CO	<u>DST</u>			
Fleet size:	1 Grader(s)	Total job tim	ae: 30.56	Hours
Unit cost:\$4	19.39 per acre	Total job co	st: \$2,470.00	

# **REVEGETATION WORK**

Task description:	Vegetate affected area				
Spring Creek Pit	Permit Act	tion: 2014	4-04-17 Inspection	Permit/Job#:	M1994097
PROJECT IDENTIE	TICATION				
Task #:         06A           Date:         4/23/2014           User:         DMC	State: Colo County: Mon			Abbreviation: Filename:	None M097-06a
Agency or orga	nization name: DRMS				
FERTILIZING					
Materials					
Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
				\$	\$
		То	tal Fertilizer Mat	erials Cost/Acre	\$0.00
Application					
Description					Cost /Acre
					\$
		Tota	l Fertilizer Applic	ation Cost/Acre	\$0.00
TILLING					
Description					Cost /Acre
	ep (MEANS 32 91 13.23 610				\$98.01
Weed control spraying (MEANS 31 31 16.13 3100)					\$145.20

### **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Native	4.00	12.95	\$26.96
Sand Dropseed	0.30	35.81	\$2.09
Bottlebrush Squirreltail	4.50	19.83	\$111.87
Galleta	2.00	7.30	\$50.40
Sheep Fescue - Covar	1.50	23.42	\$5.03
Siberian Wheatgrass	5.50	13.89	\$14.69
Totals Seed Mix	17.80	113.20	\$211.03

# Application

Description	Cost /Acre
Drill seeding (DRMS Cost Data)	\$88.20

\$243.21

Total Tilling Cost/Acre

#### Total Seed Application Cost/Acre \$88.20

### **MULCHING and MISCELLANEOUS**

#### Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
		Total Mulch	Materials Cost/Acre	\$530.00

### Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
Power mulcher (MEANS 32 91 13.16 0250)		\$86.68
	<b>Total Mulch Application Cost/Acre</b>	\$152.57

# **NURSERY STOCK PLANTING**

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

## JOB TIME AND COST

	No. of Acres: ed Failure Rate: ng Work Items:	Cost /Acre: Cost /Acre*: , MULCHING	
Initial Job Cost:	\$67,375.55		
Reseeding Job Cost:	\$16,843.89		
Total Job Cost:	\$84,219.44		
Job Hours:	55.00		

# EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task descript	ion: <u>M</u>	obilize reclamation	n crew and equi	pment				
te: Spring Cro	eek Pit	Permit	Action: _2014-0	4-17 Inspec	ction Per	mit/Job#:	M199	4097
PROJECT	<b>IDENTIFICA</b>	<u>FION</u>						
Task #:	07A	State: C	olorado		Abbre	viation:	None	
Date:	4/23/2014		lontrose			lename:	M097-	07a
User:	DMC					-	111097	<u> </u>
Age	ncy or organizati	on name: DRMS						
EQUIPME	NT TRANSPO	RT RIG COST						
					Shift ba	sis:1	l per day	<b>7</b>
				(	Cost Data Sour	rce:C	CRG Data	a
7	Fruck Tractor De	scription: GEN	ERIC ON-HIGH	WAY TRI	ICK TRACTO	R 6X4 F	NESEL 1	POWERED
		1			(2ND HALF,			OWLICED,
,	Truck Trailer De	scription: GENI	ERIC FOLDING				ПРМЕМ	T TRAILER
		1			50T, AND 10			I IIGHLER
0					,			
Cost Breakdo	wn:							
Available Ri	g Capacities	0-25 Tons	26-50 Tons	51+	Tons			
Owner	rship Cost/Hour:	\$16.63	\$18.37	\$2	2.33			
	ating Cost/Hour:	\$44.38	\$46.13	\$5	0.07			
Ope	rator Cost/Hour:	\$27.66	\$27.66	\$2	7.66			
He	elper Cost/Hour:	\$0.00	\$25.39	\$2	5.39			
Total	Unit Cost/Hour:	\$88.67	\$117.55	\$12	25.45			
NON ROAL	DABLE EQUI	PMENT:						
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return 7	Ггір	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/		Cost/ fleet
	(TONS)				fleet			
Cat D9T - 9U	66.78	\$78.33	\$125.45	1	\$203.78	\$125.45		\$250.00
CAT 135H	13.00	\$15.91	\$88.67	1	\$104.58	\$88.67		\$250.00
Cat 657G	78.88	\$121.28	\$125.45	2	\$493.47	\$250.90		\$500.00
Drill/Broadcast	t 25.00	\$39.59	\$88.67	1	\$128.26	\$88.67		\$250.00

**ROADABLE EQUIPMENT:** 

6.00

\$7.03

Seeder with Tractor Power Mulcher

(Reinco M90)

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.	\$15.34	1	\$15.34	\$15.34
		Subtotals:	\$15.34	\$15.34

\$88.67

1

Subtotals:

\$95.70

\$1,025.79

\$88.67

\$642.36

\$250.00

\$1,500.00

### **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	MONTROSE	
Total one-way travel distance:	2.50	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$5,289.89	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$2.19	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.07	0.07
Return Time (Hours):	0.07	0.07
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	1.14	0.14

#### JOB TIME AND COST

Total job time: 2.29 Hours

Total job cost: \$5,292.08