July 17, 2015

Ed Supples

601 N. Park Avenue

Montrose, CO 81401

The Uncompangre Valley Water Users Association



COLORADO Division of Reclamation, Mining and Safety

Department of Natural Resources

1313 Sherman Street, Room 215 Denver, CO 80203

RE: South D-20 Pit, Permit No. M-1992-102, Reclamation Costs Update and Notice of Surety Increase (SI-4)

Dear Mr. Supples:

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, September 15, 2015. 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>\$121,573.00</u>. This is an increase of <u>\$83,673.00</u> over the <u>\$37,900.00</u> currently held by the Division. This estimate is based on conditions observed during the April 6, 2015 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.

Sincerely Dustin Czapła

Environmental Protection Specialist Department of Natural Resources Division of Reclamation, Mining and Safety 101 South 3rd, Suite 301 Grand Junction, CO 81501 Phone: (970) 243-6299 Fax: (970) 241-1516

Enc: Financial Warranty Cost Estimate (6/1/2015)



COST SUMMARY WORK

Fask de	scription:	Total costs					
Site:	South D-	20 Pit		Permit Action:	UVWUA	Permit/.	Job#: M1992102
<u>P</u>	ROJECT	DENTIFICA	TION				
	Task #: Date: User:	UVWUA 6/1/2015 SJM	State: County:	Colorado Montrose		Abbreviation: Filename:	None M102-UVWUA
T		gency or organizat					
ask	Descrip			Form Used	Fleet Size	Task Hours	Cost
01		existing highwalls		DOZER	1	126.47	\$34,295.00
Ola		t stockpiles of ma		DOZER	1	64.79	\$17,570.00
Olb		topsoil over slope	d areas	DOZER	1	50.69	\$12,861.00
01c		ade pit floor		GRADER		10.27	\$1,944.00
SOld	mobiliza	ation to/ from site		MOBILIZE		2.50	Φ1,744.00 Φ4 016 00

SOle SOlf	reveg of 20 acres total disturbance rip pit floor and roads	REVEGE RIPPER		40.00 28.76	\$4,815.00 \$31,235.00 \$7,801.00
		SUBTO	DTALS:	323.48	\$110,521
				1	

MOBILIZE

1

2.50

\$4,815.00

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: Performance bond: Job superintendent:	0.00% 0.00 hrs	Total = Total = Total =	\$0.00
Profit:	10.00%	Total =	\$11,052.10
		TOTAL O & P =	\$11,052.10
		CONTRACT AMOUNT (direct + O & P) =	\$121,573.10

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	0.00	Total =	0.00
Engineering work and/or contract/bid preparation:	0.00%	Total =	\$0.00
Reclamation management and/or administration:	0.00%		\$0.00
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL I	NDIRECT COST =	\$11,052.10
TOTAL B	OND AMOUNT (direct + indirect) =	\$121,573.10

Page 1 of 2

BULLDOZER WOR	RK
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	Dor	mit Action:	final grade	D	
South D-20 Pit	Per	and Action:	UWVUA	Permit/Job#:	M1992102
PROJECT IDENTIF	ICATION				
Task #: SO1	State:	Colorado		Abbreviation:	None
Date: 6/1/2015	County:	Montrose		Filename:	M102-SO1
User: SJM				r nename,	W1102-501
Agency or organ	nization name: DI	RMS			
HOURLY EQUIPME	ENT COST				
Basic Machine: Cat	: D9T - 9U				
Horsepower: 405	5				
	iversal				
	hank ripper				
	er day				
Data Source: (CF	RG)				
Cost Breakdown:					
0 11 0 55			Utilization %		
Ownership Cost/Hour:	\$81.10		NA		
Operating Cost/Hour:	\$143.16)	100		
Ripper op. Cost/Hour:	\$8.91		100		
Operator Cost/Hour:	\$38.01		NA		
Fotal unit Cost/Hour:	\$271.17				
Total Fleet Cost/Hour:	\$271.17				
A PRINTER A TO TT A BUT					
MATERIAL QUANT	TITIES				
Initial Volume: 53,0					
	00				
Initial Volume: 53,0 Swell factor: 1.12	00				
Initial Volume: 53,0 Swell factor: 1.12 Loose volume: 59,3	00 0 60 LCY		ion Mining 6 C. C.		
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Task # SO1

Spoil pile:	0.900	(SSD-FC)
Push gradient:	0.666	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.708	(CAT HB)
Blade type:	1.000	(PAT)

Net correction	on: 0.2378	
Adjusted unit production:	469.35 LCY/hr	
Adjusted fleet production:	469.35 LCY/hr	

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.578/LCY	

Total job time:	126.47 Hours
Total job cost:	\$34,295

Task # SO1A

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BULLDOZER WORK

Task description:	PI	ish out stockpiles o	A HIGH COLI	al		
South D-20 Pit		Permit A	Action:	UWVUA	Permit/Job#:	M1992102
PROJECT IDENT	TIFICA	FION				
Task #: SO1A	_		olorado		Abbreviation:	None
Date: 6/1/201 User: SJM	.5	County: M	ontrose		Filename:	M102-SO1a
Agency or o	organizati	on name: DRMS				
HOURLY EQUIP	MENT	COST				
Basic Machine:	Cat D9T	'-9U				
	405	1				
Blade Type:	Universa 2 sharely					
Shift Basis:	3-shank 1 per day					
Data Source:	(CRG)	y				
Cost Breakdown:						
Ownership Cost/Ho	ur:	\$81.10		Utilization %		
Operating Cost/Ho		\$143.16		NA 100		
Ripper op. Cost/Ho		\$8.91		100		
Operator Cost/Ho	ur:	\$38.01		NA		
Total unit Cost/Hour	62	71 17				
Total unit Cost/Hour: Total Fleet Cost/Hour MATERIAL QUA	r: \$2	71.17 71.17 ES				
Total Fleet Cost/Hour MATERIAL QUA Initial Volume:	r: \$2 NTITI 50,000	71.17				
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Task # SOIA

(CAT HB)
(CAT HB)
(CAT HB)
(PAT)

Net correction: 0.4823

Adjusted unit production:	771.68 LCY/hr	
Adjusted fleet production:	771.68 LCY/hr	

Fleet size:	1 Dozer(s)
Unit cost:	\$0.351/LCY

Total job time:	64.79 Hours
Total job cost:	\$17,570

Page 1 of 2

BULLDOZER WORK

South D-20 Pit	Dom	nit Action:		D	
South D'AU I IL	Pen	ant ACUON:	UVWUA	Permit/Job#:	M1992102
ROJECT IDENTIFI	CATION				
Task #: SO1B	State:	Colorado		Abbreviation:	Mana
Date: 6/1/2015	County:	Montrose	the second s	Filename:	None
User: SJM				r nename.	M102-SO1b
A					
Agency or organ	lization name: DR	MS			
IOURLY EQUIPME	NT COST				
	D9T - 9U				
Horsepower: 405					
	versal				
Attachment: NA					
	er day				
Data Source: (CR	(G)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:	\$72.57		NA		
Operating Cost/Hour:	\$143.16		100		
Ripper op. Cost/Hour:	\$0.00		0		
Operator Cost/Hour:	\$38.01		NA		
Total unit Cost/Hours	¢352 72				
Total unit Cost/Hour:	\$253.73 \$253.73				
Fotal unit Cost/Hour: Fotal Fleet Cost/Hour:	\$253.73 \$253.73				
Total Fleet Cost/Hour:	\$253.73				
Total Fleet Cost/Hour:	\$253.73				
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Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,00 Swell factor: 1.12, Loose volume: 14,60 Source of estimated volume Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Vaterials consistency destance: Average push gradient: Average site altitude: Vaterial weight: Weight description:	\$253.73 TTIES 00 5 25 LCY me: Division of 1 factor: Cat Hand TION 150 feet ction: 952.6 LCY/ scription: Compa 15 % 6,080 feet 2,550 lbs/LCY Earth - Dry packed	book hr cted fill or e			
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 13,00 Swell factor: 1.12: Loose volume: 14,60 Source of estimated volum Source of estimated volum Source of estimated swell HOURLY PRODUCT Average push distance: Jnadjusted hourly product Average push gradient: Average site altitude: Material weight: Weight description: Iob Condition Correction	\$253.73 TTIES 00 5 25 LCY me: Division of Cat Hand TION 150 feet 952.6 LCY/ scription: Compa 15 % 6,080 feet 2,550 lbs/LCY Earth - Dry packed Factor	book hr cted fill or e			
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Task # SO1B

0.900	(SSD-FC)
0.666	(CAT HB)
1.000	(CAT HB)
0.902	(CAT HB)
1.000	(PAT)
	0.666 1.000 0.902

Net correction: 0.3029

djusted unit production:	288.54 LCY/hr	
Adjusted fleet production:	288.54 LCY/hr	

1 Dozer(s)	Fleet size:
\$0.879/LCY	Unit cost:
\$0.879/LCY	Unit cost:

Total job time:	50.69 Hours
Total job cost:	\$12,861

MOTOR GRADER WORK

South D-20 Pit	lough grade pit fl	100			
	Permi	t Action: _L	VWUA	Perm	nit/Job#: M1992102
PROJECT IDENTIFICA	TION				
Task #: SO1C	State:	Colorado	15	Abbrev	iation: None
Date: 6/1/2015 User: SJM	County:	Montrose		File	ename: M102-SO1c
Agency or organizat	tion name: DRM	15			
HOURLY EQUIPMENT	COST				
	CAT 16M		•	Horsepower:	297
Ripper Attachment:	Multi-Shank Ripp	er		Shift Basis:	1 per day
				Data Source:	(CRG)
Cost Breakdown:					
Oumanshi	p Cost/Hour:	670.0	_	Utilization %	
	g Cost/Hour:	\$72.2° \$91.6°		NA	
Ripper Operating		\$0.89		<u>100</u> 25	
	or Cost/Hour:	\$24.4		NA	
Total Uni	it Cost/Hour:	\$189.3	0		
Total Flee	et Cost/Hour:	\$191.9	6		
MATERIAL QUANTITI	IFS				
	e graded or ripped	20.00			
	estimated acreage		rage disturbed	l aumantla	acres
	ostiniatoa aoreago.	i i otar acc	age distuibed	currentiy	
HOURLY PRODUCTIO	and they				
HOURLITRODUCTIO	N				
A	verage Grader Spe		1.50	mph	
A	verage Grader Spe Selected Application	on:	Finish	grading (0-2.5 mph) - 1.5
A S	verage Grader Spe Selected Application Selected Blade Ang	on: gle:	Finish 30	grading (0-2.5 mph degrees) - 1.5
A S Efi	verage Grader Spe Selected Application Selected Blade Ang fective Blade Leng	on: gle:	Finish (30 13.90	grading (0-2.5 mph degrees feet) - 1.5
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A S Efi Width of b Net grading or ri Unadjusted Ho	verage Grader Spe Selected Application Selected Blade Ang fective Blade Leng lade overlap per pa pping width per pa purly Unit Production	on: le: th: uss: uss:	Finish (30 13.90 2.00 11.90 2.1636	grading (0-2.5 mph degrees feet feet feet acres/hour	
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A S Eff Width of b Net grading or ri Unadjusted Ho Job Condition Correction Fac Altitude Adj:	verage Grader Spe Selected Application Selected Blade Ang fective Blade Leng lade overlap per pa pping width per pa purly Unit Production ctors	on: gle: ss: ss: on: Source (CAT HB)	Finish (30 13.90 2.00 11.90 2.1636 Sit	grading (0-2.5 mph degrees feet feet feet acres/hour	
A S Eff Width of b Net grading or ri Unadjusted Ho Job Condition Correction Fac Altitude Adj: Job Efficiency: Net Correction: Adjus	verage Grader Spe Selected Application Selected Blade Ang fective Blade Leng lade overlap per pa pping width per pa ourly Unit Production ctors 1.00 0.90 0.9000 sted Hourly Unit P	on: de: de: ss: ss: on: CAT HB) (1sh/d, fav.) multiplier roduction:	Finish (30 13.90 2.00 11.90 2.1636 Sit	grading (0-2.5 mph degrees feet feet feet acres/hour	
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EQUIPMENT MOBILIZATION/DEMOBILIZATION

	on: N	Iobilization to/ f	rom site			
e: South D-20) Pit	Perm	nit Action:	UVWUA	Permit/Job#:	M1992102
PROJECT	DENTIFICA	TION				
Date:	SO1D 6/1/2015 SJM	State: County:	Colorado Montrose		Abbreviation: Filename:	None M102-SO1d
	ncy or organizat					
EQUIPMEN	NT TRANSPO	ORT RIG COS	T		<i>2</i>	
EQUIPMEN	NT TRANSPO	<u>DRT RIG COS</u>	<u>T</u>	C		l per day
	NT TRANSPO			N-HIGHWAY TRU	CK TRACTOR, 6X4, D	CRG Data
Т		escription: G	ENERIC O	N-HIGHWAY TRU 400 HP (DLDING GOOSENE	ost Data Source: 0	CRG Data

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 D9T - 9U	66.78	\$80.19	\$125.45	2	\$411.28	\$250.90	\$500.00
CAT 16M	28.73	\$68.74	\$117.55	1	\$186.29	\$117.55	\$250.00
Cat 631G	52.50	\$75.63	\$125.45	1	\$201.08	\$125.45	\$250.00
Water Tanker, 7,000 Gal.	29.65	\$34.10	\$117.55	1	\$151.65	\$117.55	\$250.00

Subtotals: \$950.30 \$611.45 \$1,250.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Flatbed Truck, 4x2, 30K GVW	\$62.73	1	\$62.73	\$62.73
Light Duty Pickup, 4x4, 3/4 T.	\$34.08	1	\$34.08	\$34.08
		Subtotals:	\$96.81	\$96.81

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	MONTROSE	
Total one-way travel distance:	5.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost * ** two round trips with haul rig:	\$4,791.04	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$24.20	

Transportation Cycle Time:

		Non-Roadable Equipment	Roadable Equipment
	Haul Time (Hours):	0.13	0.13
	Return Time (Hours):	0.13	0.13
	Loading Time (Hours):	0.50	NA
10	Unloading Time (Hours):	0.50	NA
	Subtotals:	1.25	0.25

Total job time:	2.50	Hours
Total job cost:	\$4,815	

Page 1 of 2

REVEGETATION WORK

South D	-20 Pit	Pen	mit Action:	UVWUA	Permit/Job#:	M1992102
	<u>TIDENTIF</u>					
Task #:	SOIE	State:	Colorado		Abbreviation:	None
Date:	6/1/2015	County:	Montrose		Filename:	M102-SO1e
User:	SJM					

FERTILIZING

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-0-0	62.00	pound	\$0.36	\$22.26
Muriate of potash, 0-0-60	67.00	pound	\$0.33	\$21.91
Triple superphosphate, 0-46-0	88.00	pound	\$0.50	\$43.65
			Total Fertilizer Materials Cost/Acre	\$87.82

Application

Description		Cost /Acre
Tractor towed spreader (MEANS 32 01 90.13 0120)		\$52.71
	Total Fertilizer Application Cost/Acre	\$52.71

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$98.01
Total Tilling Cos	st/Acre \$98.01

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	1.40	4.53	\$9.91
Crested Wheatgrass - Nordan	0.50	2.30	\$1.17
Russian Wildrye - Vinal	1.00	4.02	\$3.71
Galleta	1.10	4.02	\$27.72
Streambank Wheatgrass - Sodar	1.10	3.59	\$4.63
Thickspike Wheatgrass - Critana	1.70	6.01	\$8.79
Western Wheatgrass - Arriba	1.60	4.04	\$5.89
Rabbitbrush, Rubber	0.25	3.72	\$9.15
Sagebrush, Mountain or Big	0.05	2.64	\$1.69
Saltbush, Shadscale	1.30	1.94	\$1.69

Winter Fat	0.80	2.04	\$26.15
Totals Seed Mix	10.80	38.84	\$114.30

Application

Description		Cost /Acre
Drill seeding (DRMS Cost Data)		\$88.20
· · · · · · · · · · · · · · · · · · ·	Total Seed Application Cost/Acre	\$88.20

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Hay, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$265.00	\$530.00
Herbicide - Curtail @ 4.0 pt/ac	1.00	ACRE	\$16.24	\$16.24
Total Mulch Materials Cost/Acre				\$546.24

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
Power mulcher (MEANS 32 91 13.16 0250)		\$86.68
Weed spray, truck, non-aquatic area, nox. [DMG]		\$61.49
	Total Mulch Application Cost/Acre	\$214.06

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

No. of Acres: Estimated Failure Rate: *Selected Replanting Work Items:		30% Cost /Acre*		\$1,201.34 \$1,201.34
Initial Job Cost:				
Reseeding Job Cost: \$7,208.04 Total Job Cost: \$31,235				
Job Hours:	40.00			

	Task descrip	otion:	Rip pit floor and	roads		
Site:	South D-	20 Pit	Perr	nit Action: UVWUA	Permit/Job#:	M1992102
]		<u>IDENTIF</u>				
	Task #:	SOIF	State:	Colorado	Abbreviation:	None
	Date:	6/1/2015	County:	Montrose	Filename:	M102-SO1f

HOURLY EQUIPMENT COST

Cost Breakdown:

Cat D9T - 9U	
3-Shank Ripper	
	Cat D9T - 9U 3-Shank Ripper

Horsepower: 405 Shift Basis: Data Source:

1 per day (CRG)

Ownership Cost/Hour:	\$81.10	Utilization %
Operating Cost/Hour:	\$143.16	100
Ripper Operating Cost/Hour:	\$8.91	100
Operator Cost/Hour:	\$38.01	NA
Total Unit Cost/Hour:	\$271.17	
Total Fleet Cost/Hour:	\$271.17	

MATERIAL QUANTITIES

Selected estimating method: Area

Alternate Methods:

Seismic:	NA		Bank Volume:	NA	BCY		NΔ
Area:	20.00	acres	Rip Depth (ft):	2.00	Volume:	64,533	BCY or CCY

Source of estimated quantity: Entire permit floor less 7 acres sloped areas

HOURLY PRODUCTION

Seismic:

Seismic Veloc	ity: NA	feet/second	
Area:			
Average Ripping Dep	oth: 2.63	mph	
Average Ripping Wic	ith: 7.67	degrees	
Average Ripping Leng	gth: 200.00	feet	
Average Dozer Spe	ed: 88.00	feet	
Average Maneuver Tin		feet	
Production per unit an	rea: 0.838	acres/hour	
Job Condition Correction Factors			
Unadjusted Hourly Unit Producti	on: 0.838	Acres/hr	
Site Altitu	ide: 6,080	feet	
Altitude A	Adj: 1.00	(CAT HB)	
Job Efficien	icy: 0.83	(1 shift/day)	
Net Correcti	on: 0.83	multiplier	
Adjusted Hourly Unit P	Production: 0.70	Acres/hr	
Adjusted Hourly Fleet P	Production: 0.70	Acres/hr	
JOB TIME AND COST			
Fleet size: 1 Grader(s)	Total job time:	28.77	Hours
Unit cost: \$390.072 Per acre	Total job cost:	\$7,801	