November 17, 2015

Joseph Cogan P.O. Box 113 Nathrop, CO 81236



1313 Sherman Street, Room 215 Denver, CO 80203

RE: Arnold Gulch Pit, Permit No. M-1998-091, Reclamation Costs Update and Notice of Surety Increase (SI-1)

Mr. Cogan:

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 Monday, January 18, 2016. 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 \$17,500.00. This is an increase of \$5,500.00 over the \$12,500.00 currently held by the Division. This estimate is based on conditions observed during the November 4, 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 Czepła

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



COST SUMMARY WORK

Task description:

Update FW based on current conditions

Chaffee

Site: Arnold Gulch

Permit Action: 2015-11-04 Inspection

Permit/Job#: M1998091

PROJECT IDENTIFICATION

Task #: 000 State: Colorado Abbreviation: Filename: None

M091-000

11/17/2015 Date: User: **DMC**

County:

Agency or organization name: **DRMS**

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Reduce HW to 3H:1V, Finish grade	DOZER	1	16.98	\$2,438.00
02a	Revegetate slopes and upland disturbance	REVEGE	1	8.00	\$9,743.00
03a	Mobilize equipment	MOBILIZE	1	2.68	\$2,497.00
		SUBTO	TALS:	27.66	\$14,678

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance: 2.02 Performance bond: 1.05 Job superintendent: 0.00

Profit: 10.00 Total = \$296.50 Total = \$154.12

Total = \$0.00 Total = \$1,467.80

TOTAL O & P = \$1,918.42

CONTRACT AMOUNT (direct + O & P) = \$16,596.42

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):

Engineering work and/or contract/bid preparation: Reclamation management and/or administration:

0.00 0.00 5.00 Total = 0.00 Total =

\$0.00 \$829.82

CONTINGENCY:

0.00

Total = \$0.00

TOTAL INDIRECT COST = \$2,748.24

TOTAL BOND AMOUNT (direct + indirect) = \$17,500.00

Job Condition Correction Factor

Operator Skill:

Material consistency:

0.750

0.900

BULLDOZER WORK

Task description: Reduce HW to 3H:1V Permit Action: 2015-11-04 Inspection Site: Arnold Gulch Permit/Job#: M1998091 **PROJECT IDENTIFICATION** Task #: 01A State: Colorado Abbreviation: None Date: 11/17/2015 County: Chaffee Filename: M091-01a **DMC** User: Agency or organization name: DRMS **HOURLY EQUIPMENT COST** Basic Machine: Cat D6T LGP Horsepower: 200 Blade Type: Straight Attachment: NA **Shift Basis:** 1 per day Data Source: (CRG) Cost Breakdown: Utilization % Ownership Cost/Hour: \$38.47 NA Operating Cost/Hour: \$67.16 100 Ripper op. Cost/Hour: \$0.00 0 Operator Cost/Hour: \$38.01 NA Total unit Cost/Hour: \$143.63 Total Fleet Cost/Hour: \$143.63 **MATERIAL QUANTITIES** Initial Volume: 3,241 1.000 Swell factor: Loose volume: 3,241 LCY Source of estimated volume: 3,500 lft, 10' ht, 1H:1V to 3H:1V, cut and fill Source of estimated swell Cat Handbook factor: **HOURLY PRODUCTION** Average push distance: 50 feet Unadjusted hourly 444.6 LCY/hr production: Materials consistency description: Compacted fill or embankment 0.9 Average push 0% gradient: Average site altitude: 7,800 feet Material weight: 2,400 lbs/LCY Weight description: Sand - Dry, loose

Source

(AVG.)

(CAT HB))

Dozing method:	1.000	(GEN.)
Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.958	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.4294

Adjusted unit

190.91 LCY/hr

production: Adjusted fleet

production:

190.91 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)

Unit cost: \$0.752/LCY

Total job time: 16.98 Hours

Total job cost: \$2,438

REVEGETATION WORK

Task description:	Revegetate slopes and upland disturbance
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Site: Arnold Gulch Permit Action: 2015-11-04 Inspection Permit/Job#: M1998091

PROJECT IDENTIFICATION

Task #: 02A State: Colorado Abbreviation: None

Date: 11/17/2015 County: Chaffee Filename: M091-02a

User: DMC

Agency or organization name: DRMS

FERTILIZING

Materials

Units / Acre	Unit	Cost / Unit	Cost /Acre
		\$	\$
Tot	tal Fertilizer	Materials Cost/Acre	\$0.00
	Acre	Acre Unit	TT 1. C=4/XI24

Application

Description	Cost /Acre
	\$
Total Fertilizer Application Cost/Acre	\$0.00

TILLING

Description	Cost /Acre
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$98.01
Weed control spraying (MEANS 31 31 16.13 3100)	\$145.20
Total Tilling Cost/Acre	\$243.21

SEEDING

Seed Mix		Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Native		6.00	97.93	\$62.10
	Totals Seed Mix	6.00	97.93	\$62.10

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$261.28
	Total Seed Application Cost/Acre	\$261.28

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
	Total Mulch Application Cost/Acre	\$152.57

NURSERY STOCK PLANTING

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

JOB TIME AND COST

No. of Acres: 6 Cost /Acre: \$1,249.16

Estimated Failure Rate: 30% Co
Selected Replanting Work Items: TILLING, SEEDING, MULCHING Cost /Acre: \$1,249.16

Initial Job Cost: \$7,494.96

Reseeding Job Cost: \$2,248.49
Total Job Cost: \$9,743 Job Hours: 8.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description: Mobilize equipment

Site: Arnold Gulch Permit Action: 2015-11-04 Inspection Permit/Job#: M1998091

PROJECT IDENTIFICATION

Task #: 03A State: Colorado Abbreviation: None

Date: 11/17/2015 County: Chaffee Filename: M091-03a

User: DMC

Agency or organization name: DRMS

EQUIPMENT TRANSPORT RIG COST

Truck Tractor Description:

Shift basis: 1 per day

Cost Data Source: CRG Data

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	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D6T LGP	26.87	\$38.47	\$117.55	1	\$156.02	\$117.55	\$250.00
Drill/Broadcast Seeder with Tractor	25.00	\$39.59	\$88.67	1	\$128.26	\$88.67	\$250.00
Power Mulcher (Reinco M90)	6.00	\$7.03	\$88.67	1	\$95.70	\$88.67	\$250.00

Subtotals: | \$379.98 | \$294.89 | \$750.00

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.	\$15.30	1	\$15.30	\$15.30

Subtotals: \$15.30 \$15.30

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:
Total one-way travel distance:
Average Travel Speed:
BUENA VISTA
miles
35.00 mph

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

Total Roadable Mob/Demob Cost **

** one round trip, no haul rig:

Transportation Cycle Time:

	Non-		
	Roadable	Roadable	
	Equipment	Equipment	
Haul Time (Hours):	0.17	0.17	
Return Time (Hours):	0.17	0.17	
Loading Time (Hours):	0.50	NA	
Unloading Time (Hours):	0.50	NA	
Subtotals:	1.34	0.34	

JOB TIME AND COST

Total job time: 2.69 Hours

\$2,491.34

Total job cost: \$2,497