

Simmons - DNR, Leigh <leigh.simmons@state.co.us>

M2018055, Tower Pit, SI-1

1 message

Simmons - DNR, Leigh <leigh.simmons@state.co.us> To: Jen Jewett <thetowerpit@gmail.com>, srm1998@gmail.com Mon, May 15, 2023 at 12:05 PM

Please find attached the Notice of Surety Increase No.1 (SI-1) for the Tower Pit. I didn't receive any comments following the inspection report that was sent on April 13, 2023, so I moved ahead with the Reclamation Cost Estimate that was attached to the inspection report.

Leigh Simmons Environmental Protection Specialist

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

P 303.866.3567 x 8121 | C 720.220.1180 | F 303.832.8106 1313 Sherman Street, Room 215, Denver, CO 80203 leigh.simmons@state.co.us | https://drms.colorado.gov

M2018055_SI1Packet.pdf 792K



May 15, 2023

Chris Fedrizzi Eagle Rocks Aggregate, Inc. PO Box 5019 Eagle, CO 81631

Re: Tower Pit - File No. M-2018-055 Eagle Rocks Aggregate, Inc. Surety Increase (SI-1) Surety Increase for 2023 Unit Costs

Dear Chris Fedrizzi:

On May 15, 2023 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$183,363.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$81,910.00.

Please see the March 22, 2023 inspection report for details regarding why this surety increase is required.

The Division ordered amendment of the current Financial Warranty, or submittal of a new Financial Warranty reflecting the increase, within 60 days from the date of this letter (May 15, 2023).

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit after July 14, 2023, if the amount of any increased Financial Warranty has not been provided.

Bond Held:	\$101,453.00
Prior Liability:	\$101,453.00
Change in Liability:	\$81,910.00
Revised Liability:	\$183,363.00
Prior Permit Acreage:	36.70



Change in Permit Acreage:	0.00
Revised Permit Acreage:	36.70
Prior Affected Acreage:	0.00
Change in Affected Acreage:	0.00
Revised Affected Acreage:	0.00

If you have any questions, please contact me by telephone at (303) 866-3567 x 8121, or by email at Leigh.Simmons@state.co.us.

Sincerely,

Afris

Leigh D. Simmons Environmental Protection Specialist

cc: Ben Langenfeld

M-GR-04

COST SUMMARY WORK

Task description:		Cost estimate re	view and up	date			
Site:	Tower Pi	t	Pe	rmit Action:	2023_Inspection	Permit/Jol	o#: <u>M2018055</u>
<u>P</u>]	ROJECT Task #:	IDENTIFIC	CATION State:	Colorado		Abbreviation:	None
	Date: User:	4/11/2023 LDS	County:	Eagle		Filename:	M055-000
	Age	ency or organi	zation name: DF	RMS			

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
001	remove truck scale and office trailer	DEMOLISH	1	80.00	\$8,469
002	knock down highwall	DOZER	1	107.69	\$31,096
003	Topsoil	LOADER	1	392.31	\$42,194
004	Reveg	REVEGE	1	0.00	\$40,031
005	Mob/demob	MOBILIZE	1	0.11	\$2,057
		<u>SUBTO</u>	TALS:	580.11	\$123,847

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$2,502
Performance bond:	1.05	Total =	\$1,300
Job superintendent:	290.06	Total =	\$21,792
Profit:	10.00	Total =	\$12,385
		TOTAL O & P =	\$37,979
		CONTRACT AMOUNT (direct + O & P) = $($	\$161,826

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation:	\$500 8.00	_ Total = Total =	\$500 \$12,946	_
Reclamation management and/or administration:	5.00	_	\$8,091	_
CONTINGENCY:	0.00	Total =	\$0	
	\$59,516			
TOTAL BO	\$183,363	_		

DEMOLITION WORK

	Task description	n: Remov	e truck scale and office	e trailer			
Site:	Tower Pit		Permit Action: 2	2023_Inspection	P	ermit/Job#:	M2018055
<u>PROJE</u>	CT IDENTIF	ICATION					
Task #	: 001	St	tate: Colorado		Abbrevia	tion: Nor	ie
Date	: 4/11/2023	Cou	nty: Eagle		Filen	ame: 055	-001
User	LDS						
	Agency	or organization name	e: DRMS				
<u>UNIT C</u>	<u>OSTS</u>				<u>Location</u>	n adjustmer	nt: 95.90 %
	ure or Item cription	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
scale		100x 20	Cat 319D L 8'-10" Sti	ck 30.00	EA	\$147.19	\$4,415.70

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	80.00	(unadjusted):	\$8,831.40	location):	\$8,469.31

30.00

EA

\$147.19

\$4,415.70

Cat 319D L 8'-10" Stick

100x20

office trailer

BULLDOZER WORK

Task description:	Knock of	lown hig	hwall			
Tower Pit		Per	mit Action:	2023_Inspection	Permit/Job#:	M2018055
PROJECT IDEN	TIFICATION					
Task #: 002 Date: 4/11/2 User: LDS		State: County:	Colorado Eagle		Abbreviation: Filename:	None 055-002
Agency or	organization nar	ne: DF	RMS			
HOURLY EQUI	PMENT COST	<u> </u>				
Basic Machine:	Cat D8T - 8SU	ſ				
Horsepower:	310	_				
Blade Type:	Semi-Universa	1		_		
Attachment:	1-shank ripper					
Shift Basis:	1 per day					
Data Source:	(CRG)					
Cost Breakdown:						
				Utilization %		
Ownership Cost/H	our:		\$124.85	NA		
Operating Cost/H			\$97.63	100		
Ripper own. Cost/H	our:		\$16.38	NA		
Ripper op. Cost/H	our:		\$8.60	100		
Operator Cost/H	our:		\$41.30	NA		
Total unit Cost/Hour	r: \$288.76					
Total Fleet Cost/Hor	ur: \$288.76					
MATERIAL QU. Initial Volume:	33,333 1.000					
Loose volume:	33,333 LCY					
Source of estimated				on, Mining & Safety		
Source of estimated	swell factor:	Cat Hand	book			
HOURLY PROD	UCTION					
Average push distan		feet				
Unadjusted hourly p		323.4 LC	Y/hr			
Materials consistence	cy description:	Partly o	consolidated	stockpile 1.1		
Average push gradie Average site altitude		t				
Material weight:	2,000 lbs	/LCY				
Weight description:	User Pro	vided				
Job Condition Corre	ection Factor			Source		
	rator Skill:	0.	750	(AVG.)		
Material co			100	(CAT HB)		
	ig method:		100	(50% SL)		
	Visibility:		800	(POOR)		
	. isiointy	0.				

Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.800	(FND-RF)
Push gradient:	0.422	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.150	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.2339	
Adjusted unit production: 30	09.54 LCY/hr	
Adjusted fleet production: 30	99.54 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$0.933/LCY

Total job time:	107.69 Hours
Total job cost:	\$31,096

WHEEL LOADER - LOAD AND CARRY WORK

Task description:	Topsoil					
e: Tower Pit		Permit Action	on: <u>2023_Ins</u>	pection	Permit/Job#:	M2018055
PROJECT IDEN	<u>TIFICATION</u>					
Task #: 003		State: Colora	ado		Abbreviation:	None
Date: $4/11/2$	023	County: Eagle			Filename:	055-003
User: LDS						
Agency or	organization nam	ne: DRMS				
HOURLY EQUI	PMENT COST	-				
Basic Machir	e: CAT 924H			Horsepo	wer:	128
Attachment			-	Shift B		er day
			_	Data Sou	arce: (C	CRG)
Cost Breakdown:						
<u>Cost Breakdown</u>			Utilizatio	on %		
Ownership O	Cost/Hour:	\$35.89	NA			
Operating C		\$30.95	100			
Operator C	Cost/Hour:	\$40.71	NA			
Total Unit C	Cost/Hour:	\$107.55				
Total Fleet	Cost/Hour:	\$107.55				
MATERIAL QU	<u>ANTITIES</u>					
Initial volume:	116,133	CCY	Swe	ell factor: 1.0	00	
Loose volume:	116,13	LCY				
Sou	rce of estimated	volumo: Divid	ion of Poelam	ation, Mining &	Sofoty	
	of estimated swe		landbook	ation, winning &	Salety	
Source	or estimated swe		Idildoook			
HOURLY PROD	UCTION					
Loader Cycle Time:	Unadjuste	ed Basic Cycle T	ime (load, dum	p, maneuver):	0.475	minutes
Cycle Time	Factors				Factor (min.)	Source
M	aterial: No adj	ustment - factor	not applicable (0.00	0.000	(Cat HB)
Sto	ckpile: Conve	yor or dozer pile	d 10 ft. high an	d up 0.00	0.000	(Cat HB)
Truck Own	A	endently owned to			0.040	(Cat HB)
1		ant operation -0.0	4		-0.040	(Cat HB)
Dump	Target: Nomin	al target 0.00	~ . =:		0.000	(Cat HB)
			Cycle Time A		0.000	minutes
		Ad	justed Basic C	ycle Time:	0.475	minutes
Rolling Resistance -	Road Condition	<u>s</u>				
- <u> </u>	Joul Uand are	ooth stabilized	aurfood motor	ad maintainad	2.0	
		ooth, stabilized,				
	i	iooui, stabilizeu,	surraced, water	ca, manitameu	2.0	
Haul and Return Tin	ne					
	Length	Grade Res.	Rolling	Total Res.	Travel Time	G
	(feet)	(%)	Res. (%)	(%)	(minutes)	Source

Haul Route:

Return Route:

25

25

0.00

0.00

2.00

2.00

2.00

2.00

(Cat HB)

(Cat HB)

0.0123

0.0123

			Total Travel Tir	me: 0.0247	minutes
			Total Cycle Tir	me: 0.4997	minutes
Load Bucket Capacity					
Rated Capac	city: 2.70	LCY (hea	aped)		
Bucket Fill Fac	tor: 1.100	Other - ro	ock/dirt mixtures	(100-120%) 1.100	
Adjusted Capac	city: 2.97	LCY			
Job Condition Correct					
		Source			
Altitude Adj:	1.00	(CAT HE	3)		
Job Efficiency:	0.83	(1 shift/da	y)		
Net Correction:	0.83	multiplier			
τ	Jnadjusted Hourly Ur		356.65	LCY/Hour	
	Adjusted Hourly Ur		296.02	LCY/Hour	
	Adjusted Hourly Fle	et Production:	296.02	LCY/Hour	
JOB TIME AND C					
Fleet size:	1 Loader((s)	Total job time:	392.32	Hours

 Unit cost:
 \$0.363
 /LCY
 Total job cost:
 \$42,194

REVEGETATION WORK

Task desc	ription:	Reveg				
Site: <u>Tower</u>	Pit	Pe	ermit Action:	2023_Inspection	Permit/Job	#: M2018055
PROJEC	T IDENTIFIC	CATION				
Task #		State:			Abbreviation:	None
Date		County:	Eagle		Filename:	055-004
Usei	: LDS					

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
			Total Fertilizer Materials Cost/Acre	\$0.00

Application

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

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Orchardgrass - Latar	0.60	7.44	\$2.51
Smooth Brome - Lincoln	3.20	10.65	\$10.64
Intermediate Wheatgrass - Rush	5.00	10.67	\$14.00
Sainfoin - Remont	5.00	2.18	\$15.80
Pubescent Wheatgrass - Topar	4.50	9.30	\$14.85
Totals Seed Mix	18.30	40.24	\$57.80

Application

Description		Cost /Acre
Broadcast seeding [DMG]		\$267.22
	Total Seed Application Cost/Acre	\$267.22

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
Straw, delivered {MEANS 31 25 14.16 1200}	5.00	TON	\$421.36	\$2,106.80
Total Mulch Materials Cost/Acre				\$2,106.80

Application

Description		Cost /Acre
Hand spread, 1" deep (MEANS 32 91 13.16 0200)		\$3,726.80
	Total Mulch Application Cost/Acre	\$3,726.80

NURSERY STOCK PLANTING

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

JOB TIME AND COST

	No. of Acres:	5	Cost /Acre:	\$6,158.62
Estimate	ed Failure Rate:	30%	Cost /Acre*:	\$6,158.62
*Selected Replanti	ng Work Items:	SEEDING, MULCH	ING	
Initial Job Cost:	\$30,793.10			
Reseeding Job Cost:	\$9,237.93			
Total Job Cost:	\$40,031			
Job Hours:	0.00			

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Tower Pit		Permit	Action: <u>2023</u>	_Inspection	<u>1</u>	Permit/Job#: <u>M</u>	12018055
PROJECT IDE	NTIFICATI	ON					
Task #: 005		State: Co	olorado		Abbre	eviation: None	;
Date: 4/1 User: LD	1/2023 S	County: Ea	gle		Fi	ilename: 055-0	005
Agency of	or organization	n name: DRMS					
EQUIPMENT 1	RANSPOR	T RIG COST					
					Shift ba	sis: <u>1 per da</u>	ay
				(Cost Data Sou	rce: CRG Da	ata
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF,	DR, 6X4, DIESE 2006)	L POWERED,
Truc	c Trailer Desc	ription: G				ROP DECK EQU ND 100T)	IPMENT
	Trailer Desc	ription: G			SENECK, DI (25T, 50T, A)		IIPMENT
Cost Breakdown:]	FRAILER	(25T, 50T, A)		IPMENT
Cost Breakdown: Available Rig Ca	apacities	0-25 Tons	26-50 Tons	TRAILER	(25T, 50T, A) - Tons		IPMENT
Cost Breakdown: Available Rig Ca Ownership	apacities Cost/Hour:	0-25 Tons \$15.25	26-50 Tons \$23.06	<u>FRAILER</u> 51+	(25T, 50T, A) - Tons 37.58		IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating	apacities Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26	26-50 Tons \$23.06 \$30.83	TRAILER 51 + \$3 \$5 \$5	(25T, 50T, A) - Tons 37.58 51.41		IPMENT
Cost Breakdown: Available Rig Ca Ownership Operating Operator	apacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26 \$27.71	26-50 Tons \$23.06 \$30.83 \$27.71	TRAILER 51 + \$3 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5 \$5	(25T, 50T, A) - Tons 37.58 51.41 27.71		IPMENT
<u>Cost Breakdown:</u> Available Rig C Ownership Operating Operator Helper	apacities Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26	26-50 Tons \$23.06 \$30.83	S1+ \$3 \$5 \$2 \$2 \$2	(25T, 50T, A) - Tons 37.58 51.41		IPMENT
<u>Cost Breakdown:</u> Available Rig C Ownership Operating Operator Helper	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22	S1+ \$3 \$5 \$2 \$2 \$2	(25T, 50T, A) - Tons 37.58 51.41 27.71 20.22		IPMENT
<u>Cost Breakdown:</u> Available Rig C Ownership Operating Operator Helper	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22	S1+ \$3 \$5 \$2 \$2 \$2	(25T, 50T, A) - Tons 37.58 51.41 27.71 20.22		IPMENT
Cost Breakdown: Available Rig C: Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22	S1+ \$3 \$5 \$2 \$2 \$2	(25T, 50T, A) - Tons 37.58 51.41 27.71 20.22	ND 100T)	DOT Permit
Cost Breakdown: Available Rig Ca Ownership Operating Operator Helper Total Unit	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT:	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82	S1+ \$3 \$5 \$2 \$2 \$1+	(25T, 50T, A) - Tons 37.58 51.41 27.71 20.22 36.92	<u>ND 100T)</u>	
Cost Breakdown: Available Rig C: Ownership Operating Operator Helper Total Unit NON ROADAB Machine	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT: Owner ship	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig	S1+ \$1+ \$2 \$2 \$1 \$2 \$2 \$1 \$1 \$2 \$2 \$1 \$1	(25T, 50T, A) - Tons 37.58 51.41 27.71 20.22 36.92 Haul Trip	ND 100T)	DOT Permit
Cost Breakdown: Available Rig C: Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat 315D L 8'-6"	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPN Weight/	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT: Owner ship	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni	S1+ \$1+ \$2 \$2 \$1 \$2 \$2 \$1 \$1 \$2 \$2 \$1 \$1	(25T, 50T, A) - Tons 37.58 51.41 27.71 20.22 36.92 Haul Trip Cost/hr/	ND 100T)	DOT Permit
Cost Breakdown: Available Rig C: Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat 315D L 8'-6"	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit (TONS)	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT: Owner ship Cost/hr/ unit \$68.58 \$141.23	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni t	51+ \$3 \$5 \$2 \$2 \$1+ \$2 \$2 \$1 Fleet Size	(25T, 50T, A) - Tons - Ton	ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Cost Breakdown: Available Rig C: Ownership Operating Operator Helper Total Unit NON ROADAB Machine Description Cat 315D L 8'-6"	apacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPM Weight/ Unit (TONS) 19.05	0-25 Tons \$15.25 \$25.26 \$27.71 \$0.00 \$68.22 MENT: Owner ship Cost/hr/ unit \$68.58	26-50 Tons \$23.06 \$30.83 \$27.71 \$20.22 \$101.82 Haul Rig Cost/hr/uni t \$68.22	S1+ \$3 \$5 \$2 \$1 \$2	(25T, 50T, A) - Tons 37.58 51.41 27.71 20.22 36.92 Haul Trip Cost/hr/ fleet \$273.60	ND 100T) Return Trip Cost/hr/ fleet \$136.44	DOT Permit Cost/ fleet \$500.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
		Subtotals:	\$0.00	\$0.00

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	GYPSUM	
Total one-way travel distance:	1.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost *	\$2,057.00	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	_

Transportation Cycle Time:

	Non- Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.03	0.03
Return Time (Hours):	0.03	0.03
Loading Time (Hours):	0.00	NA
Unloading Time (Hours):	0.00	NA
Subtotals:	0.06	0.06

JOB TIME AND COST

Total job time: **0.11** Hours

Total job cost: **\$2,057**