November 4, 2015

Kirk Eberl King Mountain Gravel, LLC 7276 W. Mansfield Ave. Lakewood, CO 80235



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

1313 Sherman Street, Room 215 Denver, CO 80203

RE: King Mountain Sand and Gravel Mine, Permit No. M-1978-314, Surety Reduction Request (SR-2), Approval

Dear Mr. Eberl:

On November 3, 2015 the Division of Reclamation, Mining and Safety approved your Surety Reduction Request (SR-2), submitted on October 7, 2015. Staff has calculated an estimate (copy enclosed) of the actual cost to complete reclamation at the site and determined that an adequate financial warranty shall be an amount of **\$86,090.00**. The bond amount currently held by the Division is **\$223,300.00**. This is a reduction of **\$137,210**. The remaining reclamation includes all disturbances approved within the 15 acre max, as noted in the October 28, 2015 inspection report (copy enclosed).

Please contact Barbara Coria at our Denver office, ph. 303-866-3567 ext. 8148, to make arrangements for replacement of the current financial warranty with a financial warranty in the reduced amount, as calculated for the approved SR-2.

If you require additional information, or have questions or concerns, please feel free to contact me. Amy Yeldell at the Division of Reclamation, Mining and Safety, 1313 Sherman St., Room 215, Denver, CO 80203. Direct contact can be made by phone at 970-254-8511 or via email at amy.yeldell@ state.co.us

Sincerely,

Amy Yeldell Environmental Protection Specialist Department of Natural Resources Division of Reclamation, Mining and Safety Phone: (970) 254-8511



Ec: Russ Means, Senior EPS / Field Office Supervisor, Grand Junction DRMS Theresa Cain, Eberl's Estate Manager Michael Stiff, Eberl's Attorney

Cc: Frank & Nathan Hewes, Land Owners King Mountain Sand and Gravel 28960 County Rd 5 Toponos, CO 80479

COST SUMMARY WORK

Ta	Task description: Recalculated for SR-02 based on TR-02 approval						
Site:	King Mountain Sand & Gravel Mine	Permit Action:	2015 SR-02		Permit/Job	#: M1978314	
PROJECT IDENTIFICATION							
Task #: 001 State: Colorado Abbreviation: None Date: 10/30/2015 County: Routt Filename: M314-001 User: ACY Agency or organization name: DRMS DRMS							
Task		<u> </u>	Form	Fleet	Task		
01a	Description Demolish and remove st	ructures from the site	Used DEMOLISH	Size	Hours 20.00	Cost	
02a	Establish 3H:1V slopes		DOZER	2	20.00	\$4,000.09 \$13,106.00	
03a	Rip compacted pit area		RIPPER	2	5.94	\$3,224.00	
04a	Distribute topsoil over d		DOZER	2	12.74	\$6,463.00	
05a	Revegetate disturbed are	ea (approx. 15 acres)	REVEGE	1	25.00	\$29,989.00	
06a	Reclaim 5 monitoring w	rells	BOREHOLE	1	10.00	\$2.647.64	

Task	Description	Form Used	Fleet	Task Hours	Cost
01-			Size		Cost
01a	Demolish and remove structures from the site	DEMOLISH		20.00	\$4,000.09
02a	Establish 3H:1V slopes	DOZER	2	24.78	\$13,106.00
03a	Rip compacted pit area	RIPPER	2	5.94	\$3,224.00
04a	Distribute topsoil over disturbed area	DOZER	2	12.74	\$6,463.00
05a	Revegetate disturbed area (approx. 15 acres)	REVEGE	1	25.00	\$29,989.00
06a	Reclaim 5 monitoring wells	BOREHOLE] 1	10.00	\$2,647.64
07a	Initial mobilize reclamation crew/equipment	MOBILIZE	1	6.00	\$3,253.00
07b	Secondary mobilize reclamation crew/equipment	MOBILIZE	1	2.00	\$290.00
	SUBTOTALS:				\$62,973
				1	

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$1,272.05
Performance bond:	1.05		\$661.22
Job superintendent:	53.23	Total =	\$4,000.77
Profit:	10.00	Total =	\$6,297.30
		TOTAL O & P =	\$12,231.34
		CONTRACT AMOUNT (direct + O & P) =	\$75,204.34

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	500.00	Total =	500.00
Engineering work and/or contract/bid preparation:	8.00	Total =	\$6,016.35
Reclamation management and/or administration:	5.81		\$4,369.37
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL IN	DIRECT COST =	\$23,117.06
TOTAL BO	\$86,090.06		
		······································	400,070.00

DEMOLITION WORK

-	Task description:	Demolish an	nd remove stru	ctures from the site		
Site:	King Mountain Sand & Gravel Mine		Permit Action:	2015 SR-02	Permit/	Job#:
PROJE	CT IDENTIFICATION	<u>1</u>				
Task #: Date: User:	10/30/2015	State: County:	Colorado Routt		Abbreviation: Filename:	None M314-01a
0301.	Agency or organizat	ion name:	DRMS			

Location adjustment: 91.30 %

UNIT COSTS

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Scale house	20'L x 8'W x 10'H	Bldg. (SN) demo./on-site disposal in existing pit or cut - Max. 200 ft. push	1,600.00	CF	\$0.17	\$278.40
Scale house slab	20'L x 8'W	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 200 ft. push	160.00	SF	\$1.71	\$273.60
Scale	70' L x10' W	Loading and 5 mile haul, salvage allowed - Steel frame structures	2.00	CY	\$9.48	\$18.96
Scale foundation	90' L x 10' W	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 200 ft. push	930.00	SF	\$1.71	\$1,590.30
Misc. debris removal	several piles	Dump fees - Building construction materials.	30.00	CY	\$74.00	\$2,220.00

				Total Cost	
		Subtotal		(adjusted for	
Job Hours:	20.00	(unadjusted):	\$4,381.26	location):	\$4,000.09

BULLDOZER WORK

King Mountain Sand Gravel Mine	& Permit	t Action: 2015 SR-02	Permit/Job#:	M1978314
PROJECT IDENTIF	ICATION			
Task #: 02A	State: 0	Colorado	Abbreviation:	None
Date: 10/30/2015		Routt	Filename:	M314-02a
User: ACY				
Agency or organ	nization name: DRM	IS		
HOURLY EQUIPME	<u>NT COST</u>			
Basic Machine: Cat	D9T - 9U			
Horsepower: 405				
	iversal			
Attachment: 3-sl	hank ripper			
Shift Basis: 1 p	er day			
Data Source: (CF	RG)			
Cost Breakdown:				
		Utilization %		
Ownership Cost/Hour:	\$81.10	NA		
Operating Cost/Hour:	\$143.16	100		
Ripper op. Cost/Hour:	\$2.23	25		
Operator Cost/Hour:	\$38.01	NA		
Total unit Cost/Hour:	\$2C4.40			
Total Unit Cost/Hour: Total Fleet Cost/Hour:	\$264.49 \$528.97			
rotur ricot cospiriour.	ψ 520 .77			
MATERIAL QUANT	TITIES			
	33			
Initial Volume:33,3 Swell factor:1.12	33			
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4	33 4 53 LCY	2000.16		
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volume	33 4 53 LCY me:Approx. 15	ac. perimeter, 3000 lft		
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4	33 4 53 LCY me:Approx. 15			
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volue Source of estimated swel	33 4 53 LCY me: Approx. 15 l factor: Cat Handbo			
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volume	33 4 53 LCY me: Approx. 15 l factor: Cat Handbo			
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance:	33 4 53 LCY me: Approx. 15 1 factor: Cat Handbo FION 75 feet	ook		
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volu Source of estimated swel HOURLY PRODUCT	33 4 53 LCY me: Approx. 15 1 factor: Cat Handbo FION 75 feet	ook		
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance:	33 4 53 LCY me: Approx. 15 1 factor: Cat Handbo FION 75 feet ction: 1,600.0 LCY/I	ook		
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency dest	33 4 53 LCY me: Approx. 15 Cat Handbo FION Cat Handbo FION Cat Handbo Cat Handbo Cat Handbo Cat Handbo Cat Handbo Cat Handbo	hr		
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volus Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient:	33 4 53 LCY me: Approx. 15 1 factor: Cat Handbo FION ction: 75 feet 1,600.0 LCY/I scription: Compacte -15 %	hr		
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency dest	33 4 53 LCY me: Approx. 15 Cat Handbo FION Cat Handbo FION Cat Handbo Cat Handbo Cat Handbo Cat Handbo Cat Handbo	hr		
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volus Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient:	33 4 53 LCY me: Approx. 15 1 factor: Cat Handbo FION ction: 75 feet 1,600.0 LCY/I scription: Compacte -15 %	hr		
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volu Source of estimated swel HOURLY PRODUC? Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude:	33 4 53 LCY me: Approx. 15 1 factor: Cat Handbo FION ction: 75 feet 1,600.0 LCY/I scription: Compacte -15 % 8,600 feet	hr ed fill or embankment 0.9		
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volu Source of estimated swel HOURLY PRODUC? Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description:	33 4 53 LCY me: Approx. 15 1 factor: Cat Handbo FION ction: 1,600.0 LCY/I scription: Compacte -15 % 8,600 feet 2,900 lbs/LCY Sand and gravel - Dr	hr ed fill or embankment 0.9		
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volu Source of estimated swel HOURLY PRODUC? Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	33 4 53 LCY me: Approx. 15 1 factor: Cat Handbo FION Cat Handbo FION 5 feet 1,600.0 LCY/I 5 scription: Compacte -15 % 8,600 feet 2,900 lbs/LCY Sand and gravel - Dr Factor	hr ed fill or embankment 0.9 y Source		
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volu Source of estimated swel HOURLY PRODUCT Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction Operator	33 4 53 LCY me: Approx. 15 1 factor: Cat Handbo FION ction: 75 feet 1,600.0 LCY/I scription: Compacte -15 % 8,600 feet 2,900 lbs/LCY Sand and gravel - Dr LFactor 0.75	hr ed fill or embankment 0.9 y 50 <u>Source</u> (AVG.)		
Initial Volume: 33,3 Swell factor: 1.12 Loose volume: 37,4 Source of estimated volu Source of estimated swel HOURLY PRODUC? Average push distance: Unadjusted hourly produ Materials consistency des Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	33 4 53 LCY me: Approx. 15 1 factor: Cat Handbo FION ction: 75 feet 1,600.0 LCY/I scription: Compacted -15 % 8,600 feet 2,900 lbs/LCY Sand and gravel - Dr Factor Skill: 0.75 ency: 0.90	hr ed fill or embankment 0.9 		

0.830	(1 SHIFT/DAY)
0.800	(FND-RF)
1.329	(CAT HB)
1.000	(CAT HB)
0.793	(CAT HB)
1.000	(PAT)
	0.800 1.329 1.000 0.793

Net correction: 0.4724

Adjusted unit production:	755.84 LCY/hr	
Adjusted fleet production:	1511.68 LCY/hr	

Fleet size:	2 Dozer(s)	
Unit cost:	\$0.350/LCY	
Total job time:	24.78 Hours	
Total job cost:	\$13,106	

Highwall reduction - cut and fill

Highwall Height (ft.)	40.0	
Length of Highwall (Ift.)	1500	
Initial Slope	1.0	H:1V
Desired Slope	3	H:1V
Volume of material to be moved (ft. ³)	600,000	
Volume of material to be moved (yd. ³)	22,222	

All dimensions measured in feet Drawing not to scale



Highwall reduction - cut and fill

Highwall Height (ft.)	40.0
Length of Highwall (Ift.)	1500
Initial Slope	2.0 H:1V
Desired Slope	3 H:1V
Volume of material to be moved (ft. ³)	300,000
Volume of material to be moved (yd. 3)	11,111

All dimensions measured in feet Drawing not to scale



BULLDOZER RIPPING WORK

	Task description:	Rip compacted pit are	a		
	King Mountai	n Sand & Permit A	ction:		
Site	Gravel Mine		2015- SR-02	Permit/Job#	: M1978314
	PROJECT IDE	NTIFICATION			
	Task #: 03A		orado	Abbreviation:	None
	Date: 10/3 User: AC	80/2015 County: Rou	ıtt	Filename:	M314-03a
		or organization name: DRMS			
	HOURLY EQU	JIPMENT COST			
		Aachine: Cat D9T - 9U		Horsepower:	405
	Ripper Atta	chment: 3-Shank Ripper			per day (CRG)
	Cost Breakdown:				
	COSt Dicardo will.			Utilization %	
		Ownership Cost/Hour:	\$81.10	NA	
	Pinn	Operating Cost/Hour: er Operating Cost/Hour:	\$143.16 \$8.91	100	
	Kipp	Operator Cost/Hour:	\$38.01	100 NA	
		Total Unit Cost/Hour:	\$271.17		
		Total Fleet Cost/Hour:	\$542.33		
	MATERIAL Q		•		
			Selected estimating r	nethod: Area	
a · ·	Alternate Method	_			
Seismic: Area:	NA 8.00	acres Bank Vol		BCY Volume: 25,813	NA BCY or CCY
		Source of estimated quantity:		volume25,815	
			Fit noor and roads		
	HOURLY PRO	DUCTION			
	Seismic:	Seismic Velocity:	NIA	G	
		Seisinie velocity.	NA	feet/second	
	<u>Area:</u>	Average Ripping Depth:	2.63	mah	
		Average Ripping Width:	7.67	mph degrees	
		Average Ripping Length:	150.00	feet	
		Average Dozer Speed:	88.00	feet	
		Average Maneuver Time:	0.25	feet	
		Production per unit area:	0.811	acres/hour	
	Job Condition Co	rrection Factors			
	Una	adjusted Hourly Unit Production:	0.811	Acres/hr	
		Site Altitude:	8,600	feet	
		Altitude Adj:	1.00	(CAT HB)	
		Job Efficiency:	0.83	(1 shift/day)	
		Net Correction:	0.83	multiplier	
		Adjusted Hourly Unit Produ		Acres/hr	
		Adjusted Hourly Fleet Produ	action: 1.35	Acres/hr	
	JOB TIME AN	D COST			
	Fleet size:	2 Grader(s)	Total job time	: 5.94	Hours
	Unit cost:	\$402.958 Per acre	Total job cost	:\$3,224	
			~		

BULLDOZER WORK

King Mountain	Sand &	Per	mit Action:			
Gravel Mine				2015 SR-02	Permit/Job#:	M1978314
PROJECT IDE	NTIFICAT	ION				
Task #: 04A		State:	Colorado		Abbreviation:	None
Date: 10/3 User: ACY	0/2015	County:	Routt		Filename:	M314-04a
User: ACI						
Agency of	or organization	n name: DI	RMS			
HOURLY EQU	IPMENT C	OST				
Basic Machine: Horsepower:		90				
Blade Type:				-		
Attachment:				-		
Shift Basis:						
Data Source:						
Cost Breakdown:						
<u>Cost Dicardown</u> :			1	Utilization %		
Ownership Cost/	Hour:	\$72.57		NA		
Operating Cost/		\$143.16	,	100		
Ripper op. Cost/	and the second se	\$0.00		0		
Operator Cost/		\$38.01		NA		
T-4-1'4 O4/II	.					
Total unit Cost/Hc Total Fleet Cost/H						
I otal Fleet Cost/H	our: \$507	.4./				
MATERIAL Q	I A N'EFETE	2				
		3				
Initial Volume:	16,133					
Swell factor:	1.000		Reflictments			
Loose volume:	16,133 LC	Y				
Source of estimate	d volume:	Distribut	e topsoil over	15 acres @ 8" thick		
Source of estimate	d swell factor					
HOURLY PRO	DUCTION					
HOURLY PRO		200 feet				
	ance:	200 feet 737.1 LCY	'hr			
HOURLY PRO Average push dist Unadjusted hourly	ance: v production:	737.1 LCY				
HOURLY PRO	ance: v production:	737.1 LCY	/hr stockpile 1.2			
HOURLY PRO Average push dist Unadjusted hourly Materials consiste	ance: v production: ncy descriptic	737.1 LCY				
HOURLY PRO Average push dist Unadjusted hourly	ance: v production: ncy description dient:0 %	737.1 LCY				
HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grac Average site altitu	ance: y production: ncy description dient: 0 % de: 8,60	737.1 LCY n: Loose 0 feet				
HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grad	ance: y production: ncy description dient: 0 % de: 8,60	737.1 LCY n: Loose				
HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grac Average site altitu	ance: y production: ncy description dient: 0 % de: 8,60 1,60	737.1 LCY n: Loose 0 feet				
HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grac Average site altitu Material weight: Weight description Job Condition Con	ance: y production: ncy description dient: 0 % de: 8,60 1,60 n: Top rection Factor	737.1 LCY n: Loose 0 feet 0 lbs/LCY Soil	stockpile 1.2	Source		
HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grad Average site altitu Material weight: Weight description Job Condition Con Op	ance: y production: ncy description dient: 0 % de: 8,60 1,60 n: Top rection Factor perator Skill:	737.1 LCY n: Loose 0 feet 0 lbs/LCY Soil	stockpile 1.2	(AVG.)		
HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grac Average site altitu Material weight: Weight description Job Condition Con Op Material	ance: production: ncy description dient: 0 % de: 8,60 1,60 n: Top rection Factor berator Skill: consistency:	737.1 LCY n: Loose 0 feet 0 lbs/LCY Soil C0 1	stockpile 1.2	(AVG.) (CAT HB)		
HOURLY PRO Average push dist Unadjusted hourly Materials consiste Average push grac Average site altitu Material weight: Weight description Job Condition Con Op Material	ance: y production: ncy description dient: 0 % de: 8,60 1,60 n: Top rection Factor perator Skill:	737.1 LCY n: Loose 0 feet 0 lbs/LCY Soil C 0 1 1	stockpile 1.2	(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:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.8593

Adjusted unit production:	633.39 LCY/hr
Adjusted fleet production:	1266.78 LCY/hr

JOB TIME AND COST

Fleet size:	2 Dozer(s)	
Unit cost:	\$0.401/LCY	
otal ich time:	12 74 Hours	
otal job time:	12.74 Hours	

Total job time:12.74 HoursTotal job cost:\$6,463

REVEGETATION WORK

I	ask descripti	on:	Revegetate distu	rbed area (a	approx. 15 acres)		
Site:	King Moun Gravel Mir	itain Sand & ie	: Per	rmit Action:	2015 SR-02	Permit/Jol	o#: M1978314
<u>P</u>]	<u>ROJECT II</u>	DENTIFIC.	ATION				
<u>P</u>]		DENTIFIC. 05A	ATION State:	Colorado		Abbreviation:	None
<u>P</u>]	Task #:			Colorado Routt		Abbreviation: Filename:	None M314-05a

FERTILIZING

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
8-24-24, 10-15-15, 10-20-20	250.00	pound	\$0.31	\$76.50
			Total Fertilizer Materials	
			Cost/Acre	\$76.50

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
Chisel plowing {DMG}		\$88.58
	Total Tilling Cost/Acre	\$88.58

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Birdsfoot Trefoil - Empire	0.30	2.88	\$2.51
Arrowleaf Balsamroot	1.50	1.87	\$59.27
Bluebunch Wheatgrass - Secar	2.10	6.75	\$14.36
Mountain Brome - Bromar	2.70	4.34	\$9.18
Bottlebrush Squirreltail	2.40	10.58	\$59.66
Lupine, Mountain	3.40	1.92	\$243.13
Slender Wheatgrass - Native	2.00	7.30	\$4.50
Sweetvetch, Utah or Northern	1.20	0.54	\$49.03
Western Wheatgrass - Native	1.50	3.79	\$4.56
Sagebrush, Mountain or Big	0.25	13.20	\$8.43

Totals Seed Min	19.28	59.71	\$588.12
Sulphur Flower (or Buckwheat)	0.60	1.24	\$78.46
Snowberry, Mountain	1.00	1.72	\$49.04
Flax, Lewis Blue	0.30	1.99	\$4.96
Prairie Junegrass	0.03	1.59	\$1.03

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

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
Weed spray, truck, non-aquatic area, nox. [DMG]		\$61.49
	Total Mulch Application Cost/Acre	\$127.38

NURSERY STOCK PLANTING

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

No. of Acres:	15	Cost /Acre:	\$1,567.73
Estimated Failure Rate:	30%	Cost /Acre*:	\$1,438.52
*Selected Replanting Work Items:	TILLING,SEEDING	G,MULCHING	

Initial Job Cost:	\$23,515.95	
Reseeding Job Cost:	\$6,473.34	
Total Job Cost:	\$29,989	
Job Hours:	25.00	

BOREHOLE SEALING WORK

	Task description:	Reclaim 5 monitorin	g wells		
Site:	King Mountain Sand & Gravel Mine	Permit A	2015 SR-02	Permit/Jo	b#: M1978314
<u>PROJE</u>	CT IDENTIFICATION	<u>1</u>			
Task #		State: Colorad	lo	Abbreviation:	None
	06A 10/30/2015	-	lo		None M314-06a

UNIT COSTS

Borehole Description	Sealing/Item Method	Diameter	Length	Quantity	Unit	Unit Cost	Total Cost
MW #1	Portland cement grout - 8 in. (labor, equip, materials)	6.2"	60	60.00	LF	\$12.22	\$733.30
MW #2	Portland cement grout - 8 in. (labor, equip, materials)	7.5"	19.5	19.50	LF	\$12.22	\$238.32
MW #3	Portland cement grout - 8 in. (labor, equip, materials)	7.5"	43.5	43.50	LF	\$12.22	\$531.64
MW #4	Portland cement grout - 8 in. (labor, equip, materials)	7.5"	26.8	26.80	LF	\$12.22	\$327.54
MW #5	Portland cement grout - 8 in. (labor, equip, materials)	7"	45	45.00	LF	\$12.22	\$549.97
Pull PVC	Casing removal - 2 to 3.5 in. diameter (LF)	2"	194.8	194.80	LF	\$1.37	\$266.88

 Job Hours:
 10.00
 Total Cost:
 \$2,648.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

	Task description:	LILL	ial mobilize recla	initiation erettie	quipment			
e:	King Mountain Sa Gravel Mine	and &	Permit		SR-02]	Permit/Job#: <u>M</u>	1978314
<u>P</u>]	ROJECT IDENTI	FICATI	<u>ON</u>					
	Task #: 07A Date: 10/30/20 User: ACY	015		olorado outt			eviation: None lename: M314	
	Agency or or	ganization	name: DRMS					
E	QUIPMENT TRA	NSPOR	<u>F RIG COST</u>					
						Shift ba Cost Data Sour		
	Truck Tra	ictor Desci	ription: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF,	DR, 6X4, DIESEI 2006)	L POWERED,
	Truck Tra	ailer Desci	rintion.					
с.	ost Presidoum					SENECK, DF (25T, 50T, AN	ROP DECK EQU ND 100T)	IPMENT
	ost Breakdown: Available Rig Canac				FRAILER	(25T, 50T, AN		IPMENT
	Available Rig Capac	cities	0-25 Tons	26-50 Tons	TRAILER	(25T, 50T, AN		IPMENT
	Available Rig Capac Ownership Cos	cities st/Hour:	0-25 Tons \$16.63	26-50 Tons \$18.37	TRAILER	(25T, 50T, AN + Tons 22.33		IPMENT
	Available Rig Capac Ownership Cos Operating Cos	cities st/Hour: st/Hour:	0-25 Tons \$16.63 \$44.38	26-50 Tons \$18.37 \$46.13	TRAILER 51- \$ \$	(25T, 50T, AN + Tons 22.33 50.07		IPMENT
	Available Rig Capac Ownership Cos Operating Cos Operator Cos	cities st/Hour: st/Hour: st/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66	26-50 Tons \$18.37 \$46.13 \$27.66	String \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(25T, 50T, AN + Tons 22.33 50.07 27.66		IPMENT
	Available Rig Capac Ownership Cos Operating Cos	cities st/Hour: st/Hour: st/Hour: st/Hour:	0-25 Tons \$16.63 \$44.38	26-50 Tons \$18.37 \$46.13	S \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(25T, 50T, AN + Tons 22.33 50.07		IPMENT
	Available Rig Capac Ownership Cos Operating Cos Operator Cos Helper Cos	cities st/Hour: st/Hour: st/Hour: st/Hour: st/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	S \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39		IPMENT
N	Available Rig Capac Ownership Cos Operating Cos Operator Cos Helper Cos Total Unit Cos ON ROADABLE	cities st/Hour: st/Hour: st/Hour: st/Hour: st/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 IENT:	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	S \$	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45	<u>ND 100T)</u>	
	Available Rig Capace Ownership Cos Operating Cos Operator Cos Helper Cos Total Unit Cos ON ROADABLE Machine Y Description Y	cities st/Hour: st/Hour: st/Hour: st/Hour: st/Hour: EQUIPN	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	S \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(25T, 50T, AN + Tons 22.33 50.07 27.66 25.39		IPMENT DOT Permit Cost/ fleet

Subtotals:

\$365.22

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	\$20.91	1	\$20.91	\$20.91
Drill/Broadcast Seeder with Tractor	\$97.93	1	\$97.93	\$97.93
Power Mulcher (Reinco M90)	\$26.19	1	\$26.19	\$26.19
		Subtotals:	\$145.03	\$145.03

\$250.90

\$500.00

EQUIPMENT HAUL DISTANCE and Time

STEAMBOAT SPRINGS	
40.00	miles
40.00	mph
\$2,962.68	
\$290.06	
	SPRINGS 40.00 40.00 \$2,962.68

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

Total job time:	6.00	Hours
Total job cost:	\$3,253	

EQUIPMENT MOBILIZATION/DEMOBILIZATION

King Mountain S Gravel Mine	Sand &	Permit A		SR-02	I	Permit/Job#: <u>M</u>	1978314
PROJECT IDEN	<u> FIFICATIO</u>	<u>ON</u>					
Task #: 07B Date: 10/30 User: ACY	/2015	State: Co County: Ro	lorado utt			eviation: <u>None</u> lename: <u>M314</u>	-07b
Agency or	organization	name: DRMS					
<u>EQUIPMENT TR</u>	ANSPOR	<u>F RIG COST</u>					
				C	Shift ba ost Data Sou		
Truck T	Fractor Descr	rintion: GENEI					DOWNDORD
		-		400 HP	(2ND HALF,		
	Trailer Descr	-	ENERIC FOLD	400 HP	(2ND HALF,	2006) ROP DECK EQU	
Truck 7	Trailer Descr	-	ENERIC FOLD	400 HP ING GOO TRAILER ((2ND HALF, SENECK, DF	2006) ROP DECK EQU	
Truck T Cost Breakdown: Available Rig Cap Ownership C	Trailer Descr Dacities Cost/Hour:	ription: GI	ENERIC FOLD	400 HP ING GOO TRAILER (51+	(2ND HALF, SENECK, DF 25T, 50T, AN	2006) ROP DECK EQU	
Truck T Cost Breakdown: Available Rig Cap Ownership C Operating C	Trailer Descr Dacities Cost/Hour: Cost/Hour:	O-25 Tons \$16.63 \$44.38	ENERIC FOLD	400 HP PING GOO TRAILER (51+ \$2 \$5	(2ND HALF, SENECK, DF 25T, 50T, AN Tons 2.33 0.07	2006) ROP DECK EQU	
Truck T Cost Breakdown: Available Rig Cap Ownership C Operating C Operator C	Trailer Descr Dacities Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66	400 HP PING GOO TRAILER (51+ \$2 \$5 \$2	(2ND HALF, SENECK, DF 25T, 50T, AN 2.33 0.07 7.66	2006) ROP DECK EQU	
Truck T Cost Breakdown: Available Rig Cap Ownership C Operating C Operator C Helper C	Trailer Descr Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	400 HP PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	(2ND HALF, SENECK, DF 25T, 50T, AN 2.33 0.07 7.66 5.39	2006) ROP DECK EQU	
Truck T Cost Breakdown: Available Rig Cap Ownership C Operating C Operator C	Trailer Descr Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66	400 HP PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	(2ND HALF, SENECK, DF 25T, 50T, AN 2.33 0.07 7.66	2006) ROP DECK EQU	
Truck T Cost Breakdown: Available Rig Cap Ownership C Operating C Operator C Helper C	Trailer Descr acities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	400 HP PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	(2ND HALF, SENECK, DF 25T, 50T, AN 2.33 0.07 7.66 5.39	2006) ROP DECK EQU	
Truck T Cost Breakdown: Available Rig Cap Ownership C Operating C Operator C Helper C Total Unit C	Trailer Descr Dacities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 1ENT:	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	400 HP PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$2 \$2	(2ND HALF, SENECK, DF 25T, 50T, AN 2.33 0.07 7.66 5.39 25.45	2006) ROP DECK EQU ND 100T)	IPMENT
Truck 7 Cost Breakdown: Available Rig Cap Ownership C Operating C Operator C Helper C Total Unit C NON ROADABL	Trailer Descr acities Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67	ENERIC FOLD 7 26-50 Tons \$18.37 \$46.13 \$27.66 \$25.39	400 HP PING GOO TRAILER (51+ \$2 \$5 \$2 \$2 \$12	(2ND HALF, SENECK, DF 25T, 50T, AN 2.33 0.07 7.66 5.39	2006) ROP DECK EQU	

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	\$20.91	1	\$20.91	\$20.91
Drill/Broadcast Seeder with Tractor	\$97.93	1	\$97.93	\$97.93
Power Mulcher (Reinco M90)	\$26.19	1	\$26.19	\$26.19
		Subtotals:	\$145.03	\$145.03

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:	STEAMBOAT SPRINGS	
Total one-way travel distance:	40.00	miles
Average Travel Speed:	40.00	mph
Total Non-Roadable Mob/Demob Cost *	\$0.00	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$290.06	

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

Total job time:	2.00	Hours
Total job cost:	\$290	