February 23, 2016

co

Dan Redmond General Operating Company P.O. Box 223 Yampa, CO 80483

1313 Sherman Street, Room 215 Denver, CO 80203

COLORADO

Division of Reclamation, Mining and Safety

Department of Natural Resources

## RE: Gardner Gravel Pit, Permit No. M-1979-034, Technical Revision (TR-2) Approval

Dear Mr. Redmond:

On February 23, 2016 the Division of Reclamation, Mining and Safety (Division) approved the Technical Revision request (TR-2) submitted on December 24, 2015, addressing the following:

Revise the mining plan to increase the maximum disturbance from 8 acres to 30 acres

The terms of the TR-2 approved by the Division are hereby incorporated into Permit No. M-1979-034. All other conditions and requirements of the permit remain in full force and effect.

The estimated liability amount of *\$130,932* exceeds the *\$37,750* Financial Warranty previously required for this site (copy enclosed). **Please submit additional bond in the amount of** *<u>\$93,182</u>. 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 <u>Monday, April 25, 2016</u>. The revision will not be final until the bond is approved by the Division. The Division would like to note that no surety increases have occurred since the conversion (CN-1) in 1998.** 

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, or have questions or concerns, please feel free to contact me.

Sincerely,

Amy Geldell

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

Cc: Russ Means, Senior EPS / Field Office Supervisor, Grand Junction DRMS Mike Gomez, General Operating Company



## COST SUMMARY WORK

Та	ask descrip	otion:	Update cost ba	sed on TR-2			
Site:	Gardner	Gravel Pit	Р	ermit Action:	TR-2 Update	Permit/Job	o#: M1979034
<u>PR</u>	OJECT	IDENTIFIC 002	CATION State:	Colorado		Abbreviation:	None
	Date: User:	2/18/2016 ACY	County:	Routt		Filename:	M034-002
	Age	ency or organi	zation name: D	RMS			

## TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
01a	Remove office building	DEMOLISH	1	10.00	\$4,753.31
02a	Slope reduction	DOZER	2	109.08	\$56,583.00
03a	Rip compacted areas	RIPPER	2	4.67	\$2,496.00
04a	Distribute topsoil	DOZER	2	6.39	\$3,188.00
05a	Vegetate disturbed 3H:1V sloped areas	REVEGE	1	30.00	\$26,342.00
06a	Mobilize reclamation crew and equipment	MOBILIZE	1	4.28	\$4,026.00
07a	Secondary mobilize reclamation crew and equipment	MOBILIZE	1	4.28	\$1,924.00
		<u>SUBTO</u>	TALS:	168.7	\$99,312

## **INDIRECT COSTS**

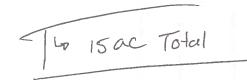
## OVERHEAD AND PROFIT:

Liability insurance:	2.02	Total =	\$2,006.10
Performance bond:	1.05	Total =	\$1,042.78
Job superintendent:	84.35	Total =	\$6,282.39
Profit:	10.00	Total =	\$9,931.20
		TOTAL O & P =	\$19,262.47
		CONTRACT AMOUNT (direct + $O \& P$ ) =	\$118,574.47

#### LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	500.00 5.00 5.00	Total = Total =	500.00 \$5,928.72 \$5,928.72
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL IN	DIRECT COST =	\$31,619.92
TOTAL BO	\$130,931.92		

Grading - Current disturbance aprox 20ac	(narcher 14-1474-034 7Rtz Update
-Highwall consolidated rock Minar grading o by approx, 1000'L × 15'x H 0:5 H: IN to	of dozer benches IH: IV (backfill) 10,417ccy
-Lower Processing Bench 47900'LX 40'H @ IHIN to 3HIV (Cuto	+fill) 13,333 ccy
-Upper Processing Bench 47900'L ×40'H @ 1H: IV to 3H: IV (back	kfill) 53,333 cy
Road between benches 17300'L × 20'H @ [H: IV to 3H: IV (Cut+	fil) 1, 111 ccy
Pit to Slope 179801600/L× 60'H @ 1H:1V 10 3HI:1V (cu	st+fill) 53,333 ccy
* 50/56 Roch/Earth W 15% ripper	[1] 131,527 ccy Total
-leac of Stock pile area +0.5ac roads	1/2 Co.5 ac Total
Reseed	
-Half of max disturbance (15ac), assume ha bincludes graded be slope footprint bottopsoil 15ac @ 6-12"	If is rock highwall



## **DEMOLITION WORK**

r	Task description:	Remove off	ice building			
Site:	Gardner Gravel Pit		Permit Action:	TR-2 Update	Permit/.	Job#: <u>M1979034</u>
PROJE	CT IDENTIFICATION	N				
Task #:	01A	State:	Colorado		Abbreviation:	None
Date:	2/18/2016	County:	Routt		Filename:	M034-01a
User:	ACY					
	Agency or organization	tion name:	DRMS			

## UNIT COSTS

## Location adjustment: 98.20 %

Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost
Remove office building	10' x 10' x 30'	Bldg. (SN) demo./off-site disposal in approved landfill - Max. 30 mile haul	3,000.00	CF	\$1.17	\$3,495.00
Remove Office Foundation	10' x 10' x 30'	Floor, concrete, demolition only, average reinforcing - 4 in. thick	300.00	SF	\$1.08	\$324.00
Remove Load Scale	80' x 12'	Demo. and on-site disposal in existing pit, 6 in. thick - Max. 50 ft. push	960.00	SF	\$1.06	\$1,021.44

				<b>Total Cost</b>		
		Subtotal		(adjusted for		
Job Hours:	10.00	(unadjusted):	\$4,840.44	location):	\$4,753.31	

## BULLDOZER WORK

Task description:	lope reduction					
: Gardner Gravel Pit	Permit Action:	TR-2 Update	Permit/Job#:	M1979034		
PROJECT IDENTIFIC	CATION					
Task #: 02A Date: 12/28/2015	State: Colorado County: Routt		Abbreviation: Filename:	None M034-02a		
User: <u>ACY</u> Agency or organiz	zation name: DRMS					
HOURLY EQUIPMEN						
Basic Machine: Cat I	09T - 9SU					
Horsepower: 405						
71	-Universal					
	ank ripper					
Shift Basis: 1 per	· ·					
Data Source: (CRC	3)					
Cost Breakdown:						
		Utilization %				
Ownership Cost/Hour:	\$83.77	NA				
Operating Cost/Hour:	\$135.36	100				
Ripper op. Cost/Hour:	\$1.34	15				
Operator Cost/Hour:	\$38.89	NA				
Total unit Cost/Hour:	\$259.35					
Total Fleet Cost/Hour:	\$518.71					
Initial Volume: 131.5'	77					
Initial Volume:         131,52           Swell factor:         1.165           Loose volume:         153,22	27 29 LCY					
Swell factor: 1.165	29 LCY e: See attached					
Swell factor:1.165Loose volume:153,22Source of estimated volume	29 LCY e: See attached factor: Cat Handbook					
Swell factor:       1.165         Loose volume:       153,22         Source of estimated volume       Source of estimated swell f	29 LCY e: See attached factor: Cat Handbook					
Swell factor:       1.165         Loose volume:       153,22         Source of estimated volume       Source of estimated swell f         HOURLY PRODUCTI       Average push distance:	29 LCY e: See attached factor: Cat Handbook ION 90 feet ion: 1,351.7 LCY/hr	  nbankment 0.9				
Swell factor:       1.165         Loose volume:       153,22         Source of estimated volume       Source of estimated swell f         HOURLY PRODUCTI         Average push distance:         Unadjusted hourly production	29 LCY e: See attached factor: Cat Handbook ION 90 feet ion: 1,351.7 LCY/hr	  nbankment 0.9				
Swell factor:       1.165         Loose volume:       153,22         Source of estimated volume       Source of estimated swell f         HOURLY PRODUCTI       Average push distance:         Unadjusted hourly producti       Materials consistency descent         Average push gradient:	29 LCY e: See attached factor: Cat Handbook ION ion: 90 feet ion: 1,351.7 LCY/hr ription: Compacted fill or er -15 %	nbankment 0.9				
Swell factor:       1.165         Loose volume:       153,22         Source of estimated volume       Source of estimated swell f         HOURLY PRODUCTI       Average push distance:         Unadjusted hourly producti       Materials consistency descr         Average push gradient:	29 LCY e: See attached Cat Handbook ION ion: 90 feet 1,351.7 LCY/hr ription: Compacted fill or en -15 % 7,600 feet					
Swell factor:       1.165         Loose volume:       153,22         Source of estimated volume       Source of estimated swell f         HOURLY PRODUCTI       Average push distance:         Unadjusted hourly producti       Materials consistency descr         Average push gradient:	29 LCY e: See attached Factor: Cat Handbook ION ion: 90 feet 1,351.7 LCY/hr ription: Compacted fill or er -15 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock, Factor	50% Earth				
Swell factor:       1.165         Loose volume:       153,22         Source of estimated volume       Source of estimated swell f         HOURLY PRODUCTI       Average push distance:         Unadjusted hourly producti       Materials consistency descr         Average push gradient:	29 LCY e: See attached Factor: Cat Handbook ION ion: 90 feet 1,351.7 LCY/hr ription: Compacted fill or en -15 % 7,600 feet 2,900 lbs/LCY Decomposed rock - 50% Rock, Factor kill: 0.750	50% Earth Source (AVG.)				
Swell factor:       1.165         Loose volume:       153,22         Source of estimated volume       Source of estimated swell f         HOURLY PRODUCTI       Average push distance:         Average push distance:       Unadjusted hourly producti         Materials consistency descr       Average site altitude:         Material weight:	29 LCY           e:         See attached           Factor:         Cat Handbook           ION         90 feet           ion:         1,351.7 LCY/hr           ription:         Compacted fill or er           -15 %	50% Earth <u>Source</u> (AVG.) (CAT HB))				
Swell factor:       1.165         Loose volume:       153,22         Source of estimated volume       Source of estimated swell f         HOURLY PRODUCTI       Average push distance:         Unadjusted hourly producti       Materials consistency descr         Average push gradient:	<b>29</b> LCY         e:       See attached         factor:       Cat Handbook <b>ION</b> ion: $90$ feet         ion: $1,351.7$ LCY/hr         ription:       Compacted fill or er $-15 \%$ 7,600 feet $2,900$ lbs/LCY       Decomposed rock - 50% Rock,         Factor       0.750         kill:       0.750         ncy:       0.900         nod:       1.100	50% Earth Source (AVG.)				

Task # 02A

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)
Net correction:	0.5196	

Adjusted unit production:	702.34 LCY/hr
Adjusted fleet production:	1404.68 LCY/hr

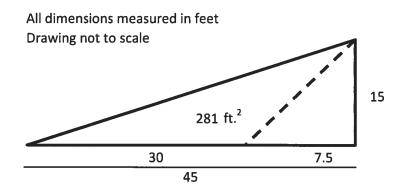
## JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$0.369/LCY

Total job time:	109.08 Hours
Total job cost:	\$56,583

# Highwall reduction - backfill

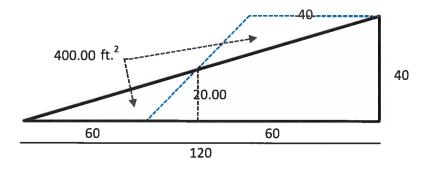
Minor highwal grading		
Highwall Height (ft.)	15.00	
Length of Highwall (Ift.)	1000.00	
- — — — Initial Slope	0.50	H:1V
Desired Slope	3.00	H:1V
Volume of material to be moved (ft. <sup>3</sup> )	281,250	
Volume of material to be moved (yd. <sup>3</sup> )	10,417	



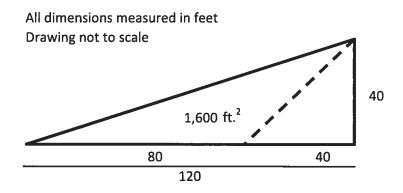
# Highwall reduction - cut and fill

Lower processing bench		
Highwall Height (ft.)	40.0	
Length of Highwall (Ift.)	900	
Initial Slope	1.0	H:1V
Desired Slope	3	H:1V
Volume of material to be moved (ft. <sup>3</sup> )	360,000	
Volume of material to be moved (yd. <sup>3</sup> )	13,333	

All dimensions measured in feet Drawing not to scale



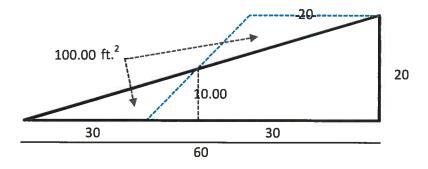
# Highwall reduction - backfill Upper processing bench Highwall Height (ft.) 40.00 Length of Highwall (lft.) 900.00 - - - Initial Slope 1.00 H:1V Volume of material to be moved (ft.<sup>3</sup>) 1,440,000 Volume of material to be moved (yd.<sup>3</sup>) 53,333



# Highwall reduction - cut and fill

Road between benches		
Highwall Height (ft.)	20.0	
Length of Highwall (lft.)	300	
Initial Slope	1.0	H:1V
Desired Slope	3	H:1V
Volume of material to be moved (ft. <sup>3</sup> )	30,000	
Volume of material to be moved (yd. <sup>3</sup> )	1,111	

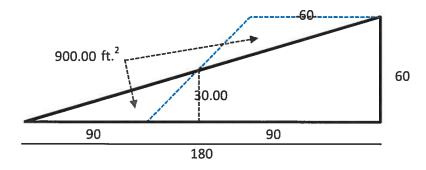
All dimensions measured in feet Drawing not to scale



# Highwall reduction - cut and fill

Highwall Height (ft.)	60.0	
Length of Highwall (lft.)	1600	
Initial Slope	1.0	H:1V
Desired Slope	3	H:1V
Volume of material to be moved (ft. <sup>3</sup> )	1,440,000	
Volume of material to be moved (yd. <sup>3</sup> )	53,333	

All dimensions measured in feet Drawing not to scale



## BULLDOZER RIPPING WORK

Та	ask description	n: <b>Rip c</b>	ompacted areas			
Site:	Gardner Gra	avel Pit	Permit Action:	TR-2 Update	Permit/Job#	: M1979034
<u>P</u>	ROJECT ID	DENTIFICATIO	<u>DN</u>			
		3A	State: Colorado		Abbreviation:	None
		2/28/2015 CY	County: Routt		Filename:	M034-03a
		y or organization r				
H	IOURLY EQ	<u>DUIPMENT CO</u>	<u>ST</u>			
			D9T - 9SU	I	Horsepower:	405
	Ripper At	ttachment: <u>3-Sh</u>	ank Ripper	T		per day CRG)
C	ost Breakdowr	· ·		-	(	<u>ene)</u>
<u>c</u>	Ost Dicakdowi	<u>1.</u>		U	tilization %	
		Ownership Cos		3.77	NA	
	Dir	Operating Cos oper Operating Cos		35.36 3.91	<u>100</u> 100	
	Кц	Operator Cos		8.89	NA	
		Total Unit Cos		56.93		
		Total Fleet Cos	st/Hour: \$53	33.86		
N	ATERIAL (	<b>QUANTITIES</b>			atha da Amar	
			Sel	lected estimating me	ethod: Area	
<u>A</u>	lternate Metho	<u>ods:</u>				
Seismic:	NA 6.50		Bank Volume:	<u>NA</u> 2.50	BCY Volume: 26,217	NA BCY or CO
Area:	0.50	acres	Rip Depth (ft):		volume. <u>20,217</u>	
		Source of estim	ated quantity: Staff e	estimates		
H	IOURLY PR	ODUCTION				
Se	eismic:					
		S	eismic Velocity:	NA	feet/second	
<u>A</u>	rea:			2.62	1	
		-	Ripping Depth: Ripping Width:	2.63 7.67	mph degrees	
			Ripping Length:	200.00	feet	
			ge Dozer Speed:	88.00	feet	
			Maneuver Time:	0.25	feet	
		Producti	on per unit area:	0.838	acres/hour	
Jo	ob Condition C	Correction Factors				
	U	nadjusted Hourly	Unit Production:	0.838	Acres/hr	
			Site Altitude:	7,060	feet	
			Altitude Adj:	1.00	(CAT HB)	
			Job Efficiency:	0.83	(1 shift/day)	
			Net Correction:	0.83	multiplier	
		•	Hourly Unit Production:		Acres/hr	
		Adjusted H	ourly Fleet Production:	1.39	Acres/hr	
<u>J</u> (	OB TIME A	ND COST				
	Fleet size:	2	Grader(s)	Total job time:	4.68	Hours
	Unit cost:	\$383.973	Per acre	Total job cost:	\$2,496	

## BULLDOZER WORK

Task description:	Distribute topsoil			
: Gardner Gravel Pit	Permit Action:	TR-2 Update	Permit/Job#:	M1979034
PROJECT IDENTIFI	CATION			
Task #: 04A Date: 12/28/2015 User: ACY	State:ColoradoCounty:Routt		Abbreviation: Filename:	None M034-04a
Agency or organi	zation name: DRMS			
HOURLY EQUIPMEN	<u>NT COST</u>			
Basic Machine: Cat I Horsepower: 405	D9T - 9SU			
Blade Type: Semi	i-Universal			
Attachment: NA Shift Basis: 1 per	· dou			
Data Source: (CRC				
Cost Breakdown:				
Ownership Cost/Hours	\$75.10	<u>Utilization %</u>		
Ownership Cost/Hour: _ Operating Cost/Hour:	\$75.12 \$135.36	<u>NA</u> 100		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$38.89	NA		
Total unit Cost/Hour:	\$249.37			
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$249.37 <b>\$498.74</b>			
Total Fleet Cost/Hour:	\$498.74			
Total Fleet Cost/Hour:	\$498.74 <u>TIES</u>			
Total Fleet Cost/Hour:	\$498.74 <u>TIES</u> 0			
Total Fleet Cost/Hour:	\$498.74 TIES 0			
Total Fleet Cost/Hour:	\$498.74 <u>TIES</u> 0 0 LCY			
Total Fleet Cost/Hour:	\$498.74 TIES 0 0 LCY e:6-12" over 15 acres			
Total Fleet Cost/Hour:	\$498.74 TIES 0 0 LCY e:6-12" over 15 acres			
Total Fleet Cost/Hour:	\$498.74 TIES 0 0 0 LCY e: <u>6-12" over 15 acres</u> factor: <u>Cat Handbook</u>			
Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume: 18,150 Swell factor: 1.000 Loose volume: 18,150 Source of estimated volum Source of estimated swell f	\$498.74 TIES 0 0 0 LCY e: <u>6-12" over 15 acres</u> factor: <u>Cat Handbook</u>			
Total Fleet Cost/Hour:	\$498.74 TIES 0 0 LCY e: 6-12" over 15 acres factor: Cat Handbook ION 100 feet			
Total Fleet Cost/Hour: MATERIAL QUANTI Initial Volume:	\$498.74 TIES 0 0 LCY e: <u>6-12" over 15 acres</u> factor: <u>Cat Handbook</u> ION ION <u>100 feet</u> ion: <u>1,243.2 LCY/hr</u>			
Total Fleet Cost/Hour:	\$498.74 TIES 0 0 LCY e: <u>6-12" over 15 acres</u> factor: <u>Cat Handbook</u> ION ION <u>100 feet</u> ion: <u>1,243.2 LCY/hr</u>			
Total Fleet Cost/Hour:	\$498.74 TIES 0 0 LCY e: <u>6-12" over 15 acres</u> factor: <u>Cat Handbook</u> ION ion: <u>100 feet</u> 1,243.2 LCY/hr ription: Loose stockpile 1.2 -15 %			
Total Fleet Cost/Hour:	\$498.74 TIES 0 0 0 LCY e: 6-12" over 15 acres factor: Cat Handbook ION ion: 1,243.2 LCY/hr ription: Loose stockpile 1.2 -15 % 7,600 feet			
Total Fleet Cost/Hour:	\$498.74 TIES 0 0 0 LCY e: 6-12" over 15 acres factor: Cat Handbook ION ion: 100 feet ion: 1,243.2 LCY/hr ription: Loose stockpile 1.2 -15 % 7,600 feet 1,600 lbs/LCY Top Soil Factor			
Total Fleet Cost/Hour:	\$498.74 TIES 0 0 LCY e: $6-12"$ over 15 acres factor: Cat Handbook ION ion: $1,243.2$ LCY/hr ription: Loose stockpile 1.2 -15 % 7,600 feet 1,600 lbs/LCY Top Soil Factor kill: 0.750	(AVG.)		
Total Fleet Cost/Hour:	\$498.74 TIES 0 0 LCY e:6-12" over 15 acres factor:612" over 15 acres factor:612" over 15 acres Cat Handbook ION ION ion:100 feet 1,243.2 LCY/hr ription:Loose stockpile 1.2 -15 % 7,600 feet 1,600 lbs/LCY Top Soil  factor kill:0.750 hcy:1200	(AVG.) (CAT HB)		
Total Fleet Cost/Hour:	\$498.74 TIES 0 0 LCY e: 6-12" over 15 acres factor: Cat Handbook ION ion: 100 feet 1,243.2 LCY/hr ription: Loose stockpile 1.2 -15 % 7,600 feet 1,600 lbs/LCY Top Soil Factor kill: 0.750 ncy: 1.200 nod: 1.000	(AVG.)		

Task # 04A

Spoil pile:	0.800	(FND-RF)
Push gradient:	1.329	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	1.1421	

Adjusted unit production:	1,419.86 LCY/hr
Adjusted fleet production:	2839.72 LCY/hr

## JOB TIME AND COST

Fleet size:	2 Dozer(s)
Unit cost:	\$0.176/LCY

Total job time:	6.39 Hours
Total job cost:	\$3,188

## **REVEGETATION WORK**

Т	ask descrip	otion:	Vegetate disturbed 3H	:1V slo	oped areas				
Site:	Gardner	Gravel Pit	Permit A	ction:	TR-2 Update	Pe	rmit/Job#:	M1979034	
PF	ROJECT	IDENTIFIC	ATION						
	Task #:	05A	State: Colo	rado		Abbrevi	iation: 1	None	
	Date:	12/28/2015	County: Rout	t		File	name: 1	M034-05a	
	User:	ACY							
	Age	ency or organiz	zation name: DRMS						

## **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
Chisel plowing {DMG}	\$88.76
Total Tilling Cost/Acre	\$88.76

## **SEEDING**

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	3.50	11.33	\$24.82
Orchardgrass - Paiute	4.00	49.59	\$8.64
Crested Wheatgrass - Standard	6.00	27.55	\$13.32
Smooth Brome - Manchar	6.00	19.97	\$11.82
Oak, Gambel's	4.00	0.03	\$135.24
Totals Seed Mix	23.50	108.46	\$193.84

Application

Description		Cost /Acre
Drill seeding (MEANS 32 92 19.13 0020)		\$434.00
	Total Seed Application Cost/Acre	\$434.00

## **MULCHING and MISCELLANEOUS**

#### Materials

	Units /			
Description	Acre	Unit	Cost / Unit	Cost /Acre
Herbicide - Curtail @ 4.0 pt/ac	2.00	ACRE	\$16.56	\$33.12
Straw, delivered {MEANS 31 25 14.16 1200}	2.00	TON	\$246.00	\$492.00
Total Mulch Materials Cost/Acre				\$525.12

## Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$66.02
Power mulcher (MEANS 32 91 13.16 0350)		\$97.14
	Total Mulch Application Cost/Acre	\$163.16

#### NURSERY STOCK PLANTING

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

## JOB TIME AND COST

No. of Acres:	15	Cost /Acre:	\$1,404.88
Estimated Failure Rate:	25%	Cost /Acre*:	\$1,404.88
*Selected Replanting Work Items:	TILLING,SEEDIN	G,MULCHING	

Initial Job Cost:	\$21,073.20
Reseeding Job Cost:	\$5,268.30
Total Job Cost:	\$26,342
Job Hours:	30.00

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task	c description	: Mo	bilize reclamation	n crew and equ	ipment			
: Ga	ardner Gra	vel Pit	Permit	Action: TR-2	Update	]	Permit/Job#: <u>N</u>	M1979034
PRO.	JECT IDE	ENTIFICATI	ON					
T	Cask #: 06	Ā	State: Co	lorado		Abbre	eviation: None	e
	Date: 12	/28/2015	County: Ro	outt		Fi	ilename: M03	4-06a
	User: A	CY	•					
	Agency	or organization	n name: DRMS					
EQU	IPMENT	TRANSPOR	<u>T RIG COST</u>					
						Shift ba	sis: 1 per d	ay
					(	Cost Data Sour	rce: CRG D	ata
	Truc	k Tractor Desc	ription: GENE	RIC ON-HIGH		UCK TRACTO (2ND HALF,	DR, 6X4, DIESE 2006)	EL POWERED,
	Tru	ck Trailer Desc	ription G	ENERIC FOLD				IIPMENT
	Tru	ck Trailer Desc	ription: G		ING GOO	DSENECK, DF	ROP DECK EQU	JIPMENT
			ription: G		ING GOO		ROP DECK EQU	JIPMENT
<u>Cost E</u>	Tru Breakdown:		ription: G		ING GOO	DSENECK, DF	ROP DECK EQU	JIPMENT
	Breakdown: iilable Rig (	Capacities	0-25 Tons	7 26-50 Tons	ING GOO TRAILER 51-	DSENECK, DF (25T, 50T, AN + Tons	ROP DECK EQU	JIPMENT
	<u>Breakdown:</u> iilable Rig ( Ownershi	C <b>apacities</b> p Cost/Hour:	·	Π	ING GOO TRAILER 51-	DSENECK, DF (25T, 50T, AN + Tons 22.33	ROP DECK EQU	JIPMENT
	Breakdown: <b>iilable Rig (</b> Ownershi Operatin	C <b>apacities</b> p Cost/Hour: g Cost/Hour:	0-25 Tons	7 26-50 Tons	ING GOO TRAILER 51-	DSENECK, DF (25T, 50T, AN + Tons	ROP DECK EQU	JIPMENT
	Breakdown: <b>iilable Rig (</b> Ownershi Operatin Operato	C <b>apacities</b> p Cost/Hour: g Cost/Hour: or Cost/Hour:	0-25 Tons \$16.63	7 26-50 Tons \$18.37	ING GOC TRAILER 51- \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	DSENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66	ROP DECK EQU	JIPMENT
	Breakdown: <b>iilable Rig (</b> Ownershi Operatin Operato	C <b>apacities</b> p Cost/Hour: g Cost/Hour:	0-25 Tons \$16.63 \$44.38	<b>26-50 Tons</b> \$18.37 \$46.13	ING GOC TRAILER 51- \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2 \$2	DSENECK, DF (25T, 50T, AN + Tons 22.33 50.07	ROP DECK EQU	JIPMENT
	Breakdown: <b>iilable Rig (</b> Ownershi Operatin Operato Helpe	C <b>apacities</b> p Cost/Hour: g Cost/Hour: or Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66	ING GOC TRAILER	DSENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66	ROP DECK EQU	JIPMENT
Avai	Breakdown: <b>iilable Rig (</b> Ownershi Operatin Operato Helpe Total Un	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour:	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT:	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	ING GOC TRAILER 51- \$2 \$2 \$2 \$2 \$2 \$1 \$1	SENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45	ROP DECK EQU ND 100T)	
Avai	Breakdown: <b>iilable Rig (</b> Ownershi Operatin Operato Helpe Total Un	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour:	0-25 Tons           \$16.63           \$44.38           \$27.66           \$0.00           \$88.67	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	ING GOC TRAILER	DSENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66 25.39	ROP DECK EQU ND 100T) Return Trip	DOT Permit
Ava NON Mac	Breakdown: <b>iilable Rig (</b> Ownershi Operatin Operato Helpe Total Un	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: r Cost/Hour: it Cost/Hour: BLE EQUIPN	0-25 Tons \$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT:	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55	ING GOC TRAILER 51- \$2 \$2 \$2 \$2 \$2 \$1 \$1	SENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45	ROP DECK EQU ND 100T)	
Ava NON Mac	Breakdown: iilable Rig ( Ownershi Operatin Operato Helpe Total Un ROADAI chine	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPM Weight/	0-25 Tons           \$16.63           \$44.38           \$27.66           \$0.00           \$88.67           MENT:           Owner ship           Cost/hr/ unit	26-50 Tons           \$18.37           \$46.13           \$27.66           \$25.39           \$117.55	ING GOC TRAILER	SENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip	ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet
Ava NON Mac Desc	Breakdown: iilable Rig ( Ownershi Operatin Operato Helpe Total Un ROADAI chine	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPN Weight/ Unit	0-25 Tons           \$16.63           \$44.38           \$27.66           \$0.00           \$88.67           MENT:           Owner ship	<b>26-50 Tons</b> \$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/uni	ING GOC TRAILER	SENECK, DF (25T, 50T, AN + Tons 22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/	ROP DECK EQU ND 100T) Return Trip	DOT Permit
Ava NON Mac Desc Cat I Drill	Breakdown: iilable Rig ( Ownershi Operatin Operato Helpe Total Un I ROADAI chine cription D9T - 9SU I/Broadcast ler with	Capacities p Cost/Hour: g Cost/Hour: or Cost/Hour: er Cost/Hour: it Cost/Hour: BLE EQUIPM Weight/ Unit (TONS)	0-25 Tons           \$16.63           \$44.38           \$27.66           \$0.00           \$88.67           MENT:           Owner ship           Cost/hr/ unit	26-50 Tons           \$18.37           \$46.13           \$27.66           \$25.39           \$117.55	ING GOC TRAILER	SENECK, DF         (25T, 50T, AN         + Tons         22.33         50.07         27.66         25.39         25.45	ROP DECK EQU ND 100T) Return Trip Cost/hr/ fleet	DOT Permit Cost/ fleet

 Subtotals:
 \$642.40
 \$428.24
 \$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.	\$15.34	1	\$15.34 \$15.34	
		Subtotals:	\$15.34	\$15.34

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	STEAMBOAT SPRINGS	
Total one-way travel distance:	20.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost *	\$4,008.39 \$17.53	

#### Transportation Cycle Time:

Non-	
Roadable	Roadable
Equipment	Equipment
0.57	0.57
0.57	0.57
0.50	NA
0.50	NA
2.14	1.14
	Roadable           Equipment           0.57           0.57           0.50           0.50

#### JOB TIME AND COST

Total job time:**4.29**Hours

Total job cost: \$4,026

## EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description:	Sec	ondary mobilize	reclamation cr	ew and eq	uipment		
e: Gardner Grav	el Pit	Permit Action: TR-2 Update		I	Permit/Job#: <u>M1979034</u>		
PROJECT IDE	NTIFICATI	<u>ON</u>					
Task #: 074	A	State: Co	olorado		Abbre	viation: 1	None
	28/2015	County: Ro	outt		Fi		M034-07a
User: AC	Y						
Agency	or organizatior	name: DRMS					
EQUIPMENT 1	RANSPOR	T RIG COST					
					Shift ba		ber day
				C	Cost Data Sour	ce: CR	G Data
Truck	Tractor Desc	ription: GENE	RIC ON-HIGH		JCK TRACTO (2ND HALF,		ESEL POWERED,
Truc	k Trailer Desc	ription: G	ENERIC FOLD			,	EQUIPMENT
		r			(25T, 50T, AN		
Cost Breakdown:							
Available Rig C	apacities	0-25 Tons	26-50 Tons	51+	Tons		
Ownership	Cost/Hour:	\$16.63	\$18.37	\$2	2.33		
	Cost/Hour:	\$44.38	\$46.13		0.07		
	Cost/Hour:	\$27.66	\$27.66		7.66		
	Cost/Hour:	\$0.00	\$25.39		5.39		
Total Unit	Cost/Hour:	\$88.67	\$117.55	\$12	25.45		
NON ROADAB	ΙΕΕΛΙΠΟΛ	/FNT.					
	1		1				
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Tri	
Description	Unit (TONS)	Cost/hr/ unit	Cost/hr/uni t	Size	Cost/hr/ fleet	Cost/hr/ fl	eet Cost/ fleet
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: **\$223.96 \$177.34 \$500.00** 

## **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.	\$15.34	1	\$15.34	\$15.34
		Subtotals:	\$15.34	\$15.34

## **EQUIPMENT HAUL DISTANCE and Time**

Nearest Major City or Town within project area region:	STEAMBOAT SPRINGS	
Total one-way travel distance:	20.00	miles
Average Travel Speed:	35.00	mph
Total Non-Roadable Mob/Demob Cost *	\$1,906.55 \$17.53	_

#### Transportation Cycle Time:

Non-	
Roadable	Roadable
Equipment	Equipment
0.57	0.57
0.57	0.57
0.50	NA
0.50	NA
2.14	1.14
	Roadable           Equipment           0.57           0.57           0.50           0.50

#### JOB TIME AND COST

Total job time:**4.29**Hours

Total job cost: \$1,924