STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106

April 7, 2014

Thomas O'Rourke O'Rourke Excavating, Inc. 2489 CR 15 South Fork, CO 81154



John W. Hickenlooper Governor

Mike King Executive Director

Loretta E. Pineda Director

Re: File No. M-2014-005, O'Rourke, South Fork Pit, 110c Decision Letter - Financial and Performance Warranty Request - Construction Material Operation

Dear Mr. O'Rourke,

On April 7, 2014, the Division of Reclamation, Mining and Safety approved your 110c mining permit application.

The amount of financial warranty set by the Division for this operation is \$10,406.92. You must submit a financial warranty in this amount and a performance warranty in order for us to issue a permit. In the event you have requested a financial warranty form, we have enclosed it in this letter. If you have not, please select a type of financial warranty from Rule 4.3. Then contact us so that we can provide you with the appropriate warranty form. We have enclosed a performance warranty form with this letter for your use.

PLEASE NOTE THAT MINING OPERATIONS MAY NOT COMMENCE UNTIL A PERMIT HAS BEEN ISSUED BY THE DIVISION <u>AFTER</u> RECEIPT OF YOUR FINANCIAL WARRANTY AND PERFORMANCE WARRANTY. A PERMIT WILL NOT BE ISSUED UNTIL WE VERIFY THE ADEQUACY OF BOTH YOUR FINANCIAL WARRANTY AND PERFORMANCE WARRANTY.

A packet containing a reclamation cost estimate is also enclosed with this letter. Please review the figures and notify me promptly if you see any errors or omissions.

Financial warranty forms are available on the Division's website: <u>http://mining.state.co.us/</u>. If you have any questions about the forms, please contact Ms. Barbara Coria at out Denver office (see address in letterhead, above). If you have any other questions, please contact me at 970-247-5193 or <u>bob.oswald@state.co.us</u>.

Sincerely,

Bob Oswald Environmental Protection Specialist

Encl: Reclamation cost estimate (4/7/14); Performance warranty form

Ec(w/o encl): Russ Means, DRMS Grand Junction Barbara Coria, DRMS Denver

(c:\14-04 docs\O"Rourke #2 Appr & FW calc/rco)

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DIVISION OF RECLAMATION, MINING AND SAFETY Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106



PERFORMANCE WARRANTY

Permittee: O'Rourke Excavating, Inc.

Operation: O'Rourke, South Fork Pit

Permit No: M-2014-005

John W. Hickenlooper Governor

> Mike King Executive Director

Loretta E. Pineda Director

This form has been approved by the Mined Land Reclamation Board pursuant to sections 34-32-117, C.R.S., of the Mined Land Reclamation Act and 34-32.5-117, C.R.S., of the Colorado Land Reclamation Act for the Extraction of Construction Materials. Any alteration or modification of this form, without approval by the Board shall result in the financial warranty being invalid and result in the voiding of any permit issued in conjunction with such invalid financial warranty and subject the operator to cease and desist orders and civil penalties for operating without a permit pursuant to sections 34-32-123, C.R.S., of the Mined Land Reclamation Act and 34-32.5-123, C.R.S., of the Colorado Land Reclamation Act for the Extraction of Construction Materials.

KNOW ALL MEN BY THESE PRESENTS, THAT:

WHEREAS, the Colorado Mined Land Reclamation Act, C.R.S. 34-32-101 <u>et seq</u>. (the "Act"), as amended, and the Colorado Land Reclamation Act for the Extraction of Construction Materials, C.R.S. 34-32.5-101 <u>et seq</u>. (the "Act"), as amended, provides that no permit may be issued under the Act until the Mined Land Reclamation Board (the "Board") receives a performance warranty (or warranties) that is a written promise to comply with all applicable requirements of the Act.

WHEREAS, O'Rourke Excavating, Inc. (the "Permittee"), has applied for a permit to conduct a mining operation known as O'Rourke, South Fork Pit (the "Operation") on certain lands in Rio Grande County, Colorado. These lands are described in the permit application, as amended and supplemented, and are referred to herein as the "Affected Lands".

WHEREAS, in its application for the permit, the Permittee has agreed to be bound by all requirements of the Act and all applicable rules and regulations of the Board, as amended from time to time.

WHEREAS, the Board has determined, in accordance with the Act, that the estimated costs of reclamation with regard to those affected lands in Rio Grande County which are now or may become subject to the permit are those amounts for the stated periods of time as set forth in the financial warranty, which may be amended from time to time to reflect revised estimates of said costs of reclamation.

- 2 -

WHEREAS, the Permittee hereby gives the Board a performance warranty pursuant to Section34-32-117(2) or Section 34-32.5-117(2) of the Act, and herein promises the Board that it will comply with all applicable requirements of the Act with regard to those Affected Lands.

NOW, THEREFORE, the Permittee hereby promises the Board that it will comply with all applicable requirements of the Act and rules and regulations of the Board with respect to the Affected Lands.

FURTHER, the Permittee hereby promises the Board that it will comply with all of the terms of the application for a permit, as amended and supplemented, as well as any conditions attached to the permit by the Board.

FURTHER, the Permittee promises the Board, pursuant to 34-32-112(2)(d) or 34-32.5-112(1)(c)(iv) of the Act, that it has the lawful authority to enter upon the Affected Lands to conduct mining operations, including, but not limited to, reclamation. The Permittee further recognizes the right of the Board to enter to reclaim lands affected by the operation.

The description of lands herein is for convenience of reference only, and no error in such description, nor any revision of the permitted mining area, nor the disturbance by the Warrantor of lands outside of the permitted mining area shall alter or diminish the Permittee's obligation hereunder, which shall extend to the reclamation of all such lands disturbed.

The obligation of the Permittee hereunder is such that, if the Permittee shall successfully comply with the requirements of the Act, applicable rules and regulations, and the permit, then the Board, upon a finding that the Permittee has so complied, shall release this performance warranty, and the Permittee from its obligation hereunder, to the extent that the Board determines that such compliance has been accomplished. The obligation of the Permittee hereunder shall continue until released in whole or in part by the Board in accordance with applicable law.

In further satisfaction of the requirements of the Act, the Permittee promises to be responsible for the cost of reclamation up to the amount established by the Board and has attached hereto its financial warranty, which may be amended from time to time. The Permittee agrees that it will maintain a financial warranty (or warranties) for the estimated costs of reclamation in good standing for the entire life of the permit. Please note that under the provisions of the Colorado Mined Land Reclamation Act and the Colorado Land Reclamation Act for the Extraction of Construction Materials, any Applicant or Permittee that submits proof, acceptable to the Board or Division of Reclamation, Mining and Safety, that an Applicant or Permittee is a unit of County or Municipal government, or is a department or division of State government, the Applicant or Permittee is not required to submit or post any other instrument of financial responsibility but hereby promises to be responsible for the cost of reclamation up to the amount specified by the Board.

If the Board determines that the Permittee is in default under this performance warranty and has failed to cure such default, although written notice of such default and ample time to cure such default have been given, the Permittee's financial warranty shall be subject to forfeiture. This performance warranty may be executed in multiple copies, each of which shall be treated as an original, but together they constitute only one agreement, the validity and interpretation of which shall be governed by the laws of the State of Colorado.

This performance warranty may be executed in multiple copies, each of which shall be treated as an original, but together they constitute only one agreement, the validity and interpretation of which shall be governed by the laws of the State of Colorado.

The provisions hereof shall bind and inure to the benefit of the parties hereto and their successors and assigns.

SIGNED, SEALED AND DATED this	day of,,
	<u>O'Rourke Excavating, Inc. (SEAL)</u> Permittee
	By:
	Title:
NOTARIZATION OF PERM	IITTEE'S ACKNOWLEDGEMENT
STATE OF)	
COUNTY OF) ss.	
	fore me thisday of
,, by	as of
	NOTARY PUBLIC
	My Commission expires:
APPROVED: State of Colorado Mined Land Reclamation Board Division of Reclamation, Mining and Safety	
By: Division Director	Date:

COST SUMMARY WORK

Task de	scription:	Cost summary						
Site:	O'Rourke	e, South Fork pit		P	ermit Action:	New perm	it Permit/	/Job#: <u>M2014005</u>
PROJECT IDENTIFICATION								
	Task #: Date: User:	000 4/7/2014 RCO	State: County:	Colorado Rio Gran			Abbreviation: Filename:	None M005-000
	Ag	ency or organization n	ame: DR	MS				
<u> </u>	ASK LIS	T (DIRECT COST	<u>'S)</u>					
Task	Decemina				Form	Fleet	Task	C
001	Descript				Used DEMOLISH	Size	Hours 1.00	Cost \$55.73
002		lope to 3:1			DOZER	-1	6.00	\$1,226.42
003	Rip com			-	RIPPER	$-\frac{1}{1}$	6.02	\$1,272.00
004	×	topsoil on graded area	s		DOZER	1	4.02	\$821.63
005	Revegeta	te disturbed area			REVEGE	1	16.00	\$3,804.50
006	Haul recl	amation equipment to	and from s	ite	MOBILIZE	1	4.00	\$1,164.25
					SUBT	OTALS:	37.04	\$8,344.53

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02%	Total =	\$168.56
	1.05%	Total =	\$87.62
Job superintendent:	0.00 hrs	Total =	\$0.00
Profit:	10.00%	Total =	\$834.45
		TOTAL O & P =	\$1,090.63
		CONTRACT AMOUNT (direct + O & P) = $($	\$9,435.16

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs): Engineering work and/or contract/bid preparation: Reclamation management and/or administration:	500.00 0.00% 5.00%	Total = Total =	500.00 \$0.00 \$471.76
CONTINGENCY:	0.00	Total =	\$0.00
	TOTAL INI	DIRECT COST =	\$2,062.39
TOTAL B	\$10,406.92		

DEMOLITION WORK

Task descript	ion: Dispos	e of debris						
Site: O'Rourke ,	South Fork pit	Permit Action: <u>Ne</u>	w permit	Pe	ermit/Job#:	M2014005		
PROJECT IDENTIFICATION								
Task #: 001	S	tate: Colorado		Abbreviat	ion: Non	e		
Date: 4/7/2014	Cou	inty: Rio Grande		Filena	me: M00	05-001		
User: RCO		· · · · · · · · · · · · · · · · · · ·						
Agenc	y or organization nam	e: DRMS						
UNIT COSTS				Location	<u>adjustmen</u>	<u>t: 91.60 %</u>		
Structure or Item Description	Dimensions	Demolition Menu Selection	Quantity	Unit	Unit Cost	Total Cost		
Push inert debris into pit	30 cy	Push demolished materials/rubble/debris into pit - Max. 100 ft. push	30.00	CY	\$0.47	\$14.04		
Excavate disposal pit for debris	30 cy	Excavate disposal pit with dozer (includes completed pit backfilling/grading)	30.00	СҮ	\$1.56	\$46.80		
Job Hours:	1.00	Subtotal (unadjusted):	\$60.84	(adju	otal Cost isted for ocation):	\$55.73		

Note: Task assumes no contaminants requiring special handling or disposal methods.

BULLDOZER WORK

Task description:	Reduce slope to 3:1			
e: O'Rourke, South Fo	rk pit Permit Action:	New permit	Permit/Job#:	M2014005
PROJECT IDENTIE	ICATION			
Task #: 002	State: Colorado		Abbreviation:	None
Date: 4/7/2014	County: Rio Grand	le	Filename:	M005-002
User: <u>RCO</u>				
Agency or orga	anization name: DRMS			
HOURLY EQUIPM	ENT COST			
Basic Machine: Ca	t D8T - 8SU			
Horsepower: 31	0			
Blade Type: Se	mi-Universal			
Attachment: 3-s	shank ripper	_		
Shift Basis: 1 p	per day			
Data Source: (C	RG)			
Cost Breakdown:				
COST DI CARGO MIL		Utilization %		
Ownership Cost/Hour:	\$63.00	NA		
Operating Cost/Hour:	\$104.03	100		
Ripper op. Cost/Hour:	\$0.00	0		
Operator Cost/Hour:	\$37.41	NA		
operator coouriour.	φ57.11			
Total unit Cost/Hour:	\$204.45			
Total Fleet Cost/Hour:	\$204.45			
MATERIAL AUANT				
MATERIAL QUAN	<u>IIIES</u>			
Initial Volume: 2,50	00			
Swell factor: 1.33	0			
Loose volume: 3,32	25 LCY			
Source of estimated volu	me: Division of Reclamati	on Mining & Safat		
Source of estimated well		on, mining & Safety	· · · · · · · · · · · · · · · · · · ·	
Source of estimated swel				
HOURLY PRODUC	TION			
HOUKLI FRODUC	HON			
Average push distance:	70 feet			
Unadjusted hourly produ	ction: 1,093.7 LCY/hr			
Materials consistency de	scription: <u>Compacted fill or er</u>	nbankment 0.9		
A second and the second s	20.0/			
Average push gradient:	-20 %			
Average site altitude:	8,200 feet			
Material weight:	2,900 lbs/LCY		-	
Weight description:	Decomposed rock - 50% Rock,	50% Earth		
Job Condition Correction	Factor	Source		
Operator		(AVG.)		
Material consist		(CAT HB))		
Dozing me		(GEN.)		
U				

 $\left\{ i \right\}$

Visibili	ty: 1.000	(AVG.)
Job efficient	cy: 0.830	(1 SHIFT/DAY)
Spoil pi	le: 0.800	(FND-RF)
Push gradie	nt: 1.426	(CAT HB)
Altitud	de: 1.000	(CAT HB)
Material Weig	ht: 0.793	(CAT HB)
Blade typ	pe: 1.000	(PAT)
Net correction	on: 0.5068	
Adjusted unit production:	554.29 LCY/hr	
Adjusted fleet production:	554.29 LCY/hr	

JOB TIME AND COST

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.369/LCY	
m . 11 1 .*	< 00 TT	
Total job time:	6.00 Hours	
Total job cost:	\$1,226.42	

Note: Task assumes 20-ft deep pit, mined at 1.5:1 highwall, 900 linear feet, reduced to 3:1 final slope by cut and fill dozer push.

BULLDOZER RIPPING WORK

	Task description	Rip compaction				
Site	: O'Rourke, Se	outh Fork pit Perm	it Action: New permit	Pen	nit/Job#: <u>M</u>	2014005
	PROJECT ID	ENTIFICATION				
	Task #: 00	3 State:	Colorado	Abbre	viation: Nor	ne
	Date: 4/	7/2014 County:	Rio Grande			05-003
	User: RO	20				
	Agency	or organization name:	AS			
	HOURLY EQ	UIPMENT COST				
		Machine: Cat D8T - 8SU		Horsepower:	310	
	Ripper At	tachment: 3-Shank Ripper		Shift Basis:	1 per da	
				Data Source:	(CRG)	
	Cost Breakdown	•				
		-		Utilization %		
		Ownership Cost/Hour:	\$63.00	NA		
		Operating Cost/Hour:	\$104.03	100		
	Rip	per Operating Cost/Hour:	\$6.53	100		
		Operator Cost/Hour:	\$37.41	NA		
		Total Unit Cost/Hour:	\$210.98			
		Total Fleet Cost/Hour:	\$210.98			
	MATERIAL (DUANTITIES	Selected estimating	g method: Area		
	Alternate Metho					
a · ·			X7 1	501	27.1	
Seismic:	<u>NA</u> 4.00		Volume: <u>NA</u> epth (ft): 1.00	BCY	NA	
Area:	4.00	acres Rip De	epth (ft): <u>1.00</u>	Volume:6,4		BCY or CC
		Source of estimated quantity:	4 acres disturbed area	ι		
	HOURLY PR	ODUCTION				
	•					
	Seismic:	Seismic Veloci	ty: NA	feet/secon	đ	
		Seisinie vereer	ty. <u>197x</u>		u.	
	Area:					
		Average Ripping Dep		mph		
		Average Ripping Wid		degrees		
		Average Ripping Leng		feet		
		Average Dozer Spec		feet		
		Average Maneuver Tin		feet		
		Production per unit are	ea: 0.800	acres/hour		
	Job Condition Co	prrection Factors				
	Un	adjusted Hourly Unit Production	on:0.800	Acres/hr		
		Site Altitud	le: 8,200	feet		
		Altitude A		(CAT HB))	
		Job Efficience		(1 shift/da		
		Net Correction	on: 0.83	multiplier		
		Adjusted Hourly Unit P	oduction: 0.66	Acres/hr		
		Adjusted Hourly Fleet Pr		Acres/hr		
	JOB TIME AN	<u>(D COST</u>				
	Fleet size:	Grader(s)	Total job tin	ne: 6.0	3	Hours
	Unit cost:	\$317.920 Per acre	Total job co	ost: \$1,27	2.00	
		++++++++++++++++++++++++++++++++++++++	10441 300 00			•

BULLDOZER WORK

Task description:	Replace topsoil o				
O'Rourke, South Fo	rk pit Peri	mit Action:	New permit	Permit/Job#:	M2014005
PROJECT IDENTI	TCATION				
		0-11-			
Task #: 004	State:	<u>Colorado</u>		Abbreviation:	None
Date: 4/7/2014	County:	Rio Grand	.e	Filename:	M005-004
User: <u>RCO</u>					
Agency or orga	anization name:	RMS			
HOURLY EQUIPM	ENT COST				
Basic Machine: Ca	at D8T - 8SU				
Horsepower: 31			_		
· ·	mi-Universal				
· · ·	shank ripper				
	per day				
Data Source: (C	RG)				
Cost Breakdown:					
		1	Utilization %		
Ownership Cost/Hour:	\$63.00		NA		
Operating Cost/Hour:	\$104.03		100		
Ripper op. Cost/Hour:	\$0.00		0	<u> </u>	
Operator Cost/Hour:	\$37.41				
			NA		
'otal unit Cost/Hour			NA		
Total unit Cost/Hour: Total Fleet Cost/Hour:	\$204.45		<u>NA</u>		
Total unit Cost/Hour: Total Fleet Cost/Hour:			<u></u>		
otal Fleet Cost/Hour:	\$204.45 \$204.45		NA		
	\$204.45 \$204.45		NA		
otal Fleet Cost/Hour:	\$204.45 \$204.45 FITIES		<u></u>		
Total Fleet Cost/Hour: <u>MATERIAL OUAN</u> Initial Volume: <u>1,61</u>	\$204.45 \$204.45 FITIES		NA		
Total Fleet Cost/Hour: MATERIAL OUAN Initial Volume: 1,61 Swell factor: 1.12	\$204.45 \$204.45 FITIES 13 25		NA		
Total Fleet Cost/Hour: MATERIAL OUANT Initial Volume: 1,61 Swell factor: 1.12 Loose volume: 1,81	\$204.45 \$204.45 FITIES 13 25 15 LCY				
Total Fleet Cost/Hour: MATERIAL OUANT Initial Volume: 1,61 Swell factor: 1,12 Loose volume: 1,81 ource of estimated volu	\$204.45 \$204.45 FITIES 13 25 15 LCY me: Division of		On, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL OUANT Initial Volume: 1,61 Swell factor: 1.12 Loose volume: 1,81	\$204.45 \$204.45 FITIES 13 25 15 LCY me: Division of				
Total Fleet Cost/Hour: MATERIAL OUANT Initial Volume: 1,61 Swell factor: 1.12 Loose volume: 1,81 Cource of estimated volu ource of estimated swel	\$204.45 \$204.45 S204.45 TITIES 13 25 15 LCY me: Division of Cat Handle				
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Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,61 Swell factor: 1,12 Loose volume: 1,81 ource of estimated volu ource of estimated swel OURLY PRODUCT Average push distance: Unadjusted hourly produ	\$204.45 \$204.45 S204.45 FITIES 13 25 15 LCY If factor: Division of Cat Handle TION 100 feet action: 852.6 LCY/	book hr	on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL OUANT Initial Volume: 1,61 Swell factor: 1.12 Loose volume: 1,81 ource of estimated volu ource of estimated swel HOURLY PRODUCT Average push distance:	\$204.45 \$204.45 FITIES 13 25 15 LCY If factor: Division of Cat Handle TION 100 feet action: 852.6 LCY/	book hr			
Total Fleet Cost/Hour: MATERIAL OUANT Initial Volume: 1,61 Swell factor: 1.12 Loose volume: 1,81 Jource of estimated volu 0 ource of estimated swel 1 HOURLY PRODUCT 1 Average push distance: 1 Inadjusted hourly produ 1	\$204.45 \$204.45 \$204.45 FITIES 13 25 15 LCY If factor: Division of Cat Handle TION action: 100 feet 852.6 LCY/I scription: Partly c	book hr	on, Mining & Safety		
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Total Fleet Cost/Hour: MATERIAL OUANT Initial Volume: 1,61 Swell factor: 1.12 Loose volume: 1,81 ource of estimated volu ource of estimated swell OURLY PRODUCT Nerage push distance: Inadjusted hourly produ Materials consistency destructions Average push gradient: Nerage site altitude: Material weight: Material weight:	\$204.45 \$200 feet \$2,550 lbs/LCY	hr onsolidated	on, Mining & Safety		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,61 Swell factor: 1.12 Loose volume: 1,81 ource of estimated volu 0 ource of estimated volu 0 ource of estimated swell 1 HOURLY PRODUCY 1 Aterials consistency destroy 1 Nerage push distance: 1 Nadjusted hourly produ 1 Aterials consistency destroy 1 Nerage push gradient: 1 Nerage site altitude: 1 Nerage si	\$204.45 \$204.45 \$204.45 \$204.45 TITIES 13 25 15 LCY ume: Division of Cat Handle TION action: 100 feet action: 100 feet scription: Partly c -10 % 8,200 feet 2,550 lbs/LCY Earth - Dry packed	hr onsolidated	on, Mining & Safety		
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Total Fleet Cost/Hour: MATERIAL OUANT Initial Volume: 1,61 Swell factor: 1.12 Loose volume: 1,81 ource of estimated volu ource of estimated volu ource of estimated swell OURLY PRODUCT Average push distance: Inadjusted hourly produ Materials consistency destructions Inadjusted hourly product Verage push gradient: Inadjusted hourly product Interial weight: Inaterial weight: Veight description: Operator Operator Operator	\$204.45 \$204.45 \$204.45 \$204.45 TTTES 13 25 15 LCY ume: Division of Cat Handle TION action: 100 feet scription: Partly c -10 % 8,200 feet 2,550 lbs/LCY Earth - Dry packed 1Factor 0.7	hr onsolidated	on, Mining & Safety stockpile 1.1 <u>Source</u> (AVG.)		
Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: 1,61 Swell factor: 1.12 Loose volume: 1,81 ource of estimated volu 0 ource of estimated volu 0 ource of estimated swell 1 HOURLY PRODUCT 1 Average push distance: 1 Inadjusted hourly produ 1 Aterials consistency destructions 1 Verage push gradient: 1 Verage site altitude: 1 Aterial weight: 1 Veight description: 1 Dourdition Correction 1	\$204.45 \$201.100 \$25	hr onsolidated	on, Mining & Safety		

y: 1.000	(AVG.)
y: 0.830	(1 SHIFT/DAY)
e: 0.700	(FND-MF)
nt: 1.225	(CAT HB)
e: 1.000	(CAT HB)
it: 0.902	(CAT HB)
e: 1.000	(PAT)
n: 0.5296	
451.54 LCY/hr	
451.54 LCY/hr	
	y: 0.830 e: 0.700 nt: 1.225 e: 1.000 nt: 0.902 e: 1.000 n: 0.5296

JOB TIME AND COST

Fleet size:	1 Dozer(s)	
Unit cost:	\$0.453/LCY	
Total job time:	4.02 Hours	
Total job cost:	\$821.63	

Note: Task combines activities of topsoil replacement onto regraded slopes and onto pit floor, from stockpiles at perimeter.

REVEGETATION WORK

Image: Second	None M005-005 Cost /Acre \$ \$0.00
Date: 4/7/2014 County: Rio Grande Filename: User: RCO Agency or organization name: DRMS ERTILIZING Inits / Acre Unit Cost / Unit Iaterials Vare Unit Cost / Unit S Description Acre Unit S Total Fertilizer Materials Cost/Acre Cost/Acre Cost/Acre pplication Total Fertilizer Application Cost/Acre Total Fertilizer Application Cost/Acre	M005-005 Cost /Acre \$
User: RCO Agency or organization name: DRMS ERTILIZING Laterials Description Units / Unit Cost / Unit S Total Fertilizer Materials Cost/Acre pplication Description Total Fertilizer Application Cost/Acre	Cost /Acre \$
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pplication Description Total Fertilizer Application Cost/Acre	ድስ ስስ
Description Total Fertilizer Application Cost/Acre	\$0.00 <u></u>
Total Fertilizer Application Cost/Acre	
Total Fertilizer Application Cost/Acre	Cost /Acre
	\$
ILLING	\$0.00
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
EEDING	<u></u>
Rate –	

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	2.50	8.09	\$17.70
Crested Wheatgrass - Fairway	3.00	13.77	\$7.26
Russian Wildrye - Bozoisky	1.50	6.03	\$9.36
Western Wheatgrass - Arriba	4.00	10.10	\$14.72
Totals Seed Mix	11.00	37.99	\$49.04

Application

Cost /Acre

Drill seeding (DRMS Cost Data)

Total Seed Application Cost/Acre

\$88.20

\$88.20

MULCHING and MISCELLANEOUS

Materials

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

Application

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

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: ed Failure Rate: ng Work Items:	 Cost /Acre: Cost /Acre*:	
Initial Job Cost:	\$3,043.60		
Reseeding Job Cost:	\$760.90		
Total Job Cost:	\$3,804.50		
Job Hours:	16.00		

Note: Seeding rates for all species have been increased to be closer to the optimal drill seeding application rate of 40 pure live seeds per square foot.

There are no fertilizer or mulch costs associated with this task.

Task assumes total of 8 acres of revegetation: 4 acres of initial phases of disturbance (seeded but not yet fully vegetated) and 4 acres in later phases of operation.

EQUIPMENT MOBILIZATION/DEMOBILIZATION

: _(O'Rourke, Sout	th Fork pit	Permit A	Action: New p	ermit	Pe	rmit/Job#: <u>N</u>	/12014005
PR	OJECT IDE	NTIFICAT	ION					
	Task #: 006		State: Co	olorado		Abbr	eviation: No	one
Date: 4/7/2014		014		o Grande				005-006
	User: RCO							
	Agency o	r organization	n name: <u>DRMS</u>					
EC	UIPMENT T	RANSPOR	T RIG COST					
						Shift ba	asis: 1 ne	r day
						Cost Data Sou		Data
	Truck	Tractor Desc	ription: GEN	FRICONLUIGU				SEL POWERED,
	THUCK	Tractor Desc	ripuoli. GEN			2 (2ND HALF,		SEL POWEKED,
	Truck	Trailer Desc	rintion: GENE	RIC FOLDING		· · · · · · · · · · · · · · · · · · ·		MENT TRAILER
	TTUCK					, 50T, AND 10		MENT INAILER
_					<u> </u>	,,		·
Co								
00	st Breakdown:							
	ailable Rig Cap		0-25 Tons	26-50 Tons	51 [.]	+ Tons		
	ailable Rig Cap Ownership (Cost/Hour:	\$16.63	\$18.37	\$	22.33		
	ailable Rig Cap Ownership Operating	Cost/Hour: Cost/Hour:	\$16.63 \$44.38	\$18.37 \$46.13	\$	22.33 50.07		
	ailable Rig Cap Ownership Operating Operator	Cost/Hour: Cost/Hour: Cost/Hour:	\$16.63 \$44.38 \$27.66	\$18.37 \$46.13 \$27.66	\$ \$ \$	22.33 50.07 27.66		
	ailable Rig Cap Ownership Operating Operator Helper	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$16.63 \$44.38 \$27.66 \$0.00	\$18.37 \$46.13 \$27.66 \$25.39	\$ \$ \$ \$	22.33 50.07 27.66 25.39		
	ailable Rig Cap Ownership Operating Operator	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$16.63 \$44.38 \$27.66	\$18.37 \$46.13 \$27.66	\$ \$ \$ \$	22.33 50.07 27.66		
Av :	ailable Rig Cap Ownership Operating Operator Helper Total Unit	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour:	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67	\$18.37 \$46.13 \$27.66 \$25.39	\$ \$ \$ \$	22.33 50.07 27.66 25.39		
Av	ailable Rig Cap Ownership Operating Operator Helper Total Unit ON ROADAB	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT:	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55	\$ \$ \$ \$ \$ \$	22.33 50.07 27.66 25.39 125.45	Detune	
Av:	ailable Rig Cap Ownership (Operating (Operator (Helper (Total Unit (DN ROADAB) chine	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig	S S S S Fleet	22.33 50.07 27.66 25.39 125.45 Haul Trip	Return Trip	
Av:	ailable Rig Cap Ownership Operating Operator Helper Total Unit ON ROADAB	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT:	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55	\$ \$ \$ \$ \$ \$	22.33 50.07 27.66 25.39 125.45 Haul Trip Cost/hr/	Return Trip Cost/hr/ flee	
Av: <u>NC</u> Ma Des	ailable Rig Cap Ownership (Operating (Operator (Helper (Total Unit (ON ROADAB) chine scription	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit (TONS)	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 VIENT: Owner ship Cost/hr/ unit	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit	S S S S S S S S S S S S S S S S S S S	22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/ fleet	Cost/hr/ flee	et Cost/ fleet
Av: <u>NC</u> Ma Des Cat	ailable Rig Cap Ownership (Operating (Operator (Helper (Total Unit (DN ROADAB) chine scription D8T - 8SU	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit (TONS) 53.08	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$63.00	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit \$125.45	S S S S S S S S S S S S S S S S S S S	22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/ fleet \$188.45	Cost/hr/ flee \$125.45	t Cost/ fleet
Av: <u>NC</u> Ma Des Cat Dril	ailable Rig Cap Ownership (Operating (Operator (Helper (Total Unit (ON ROADAB) chine scription	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit (TONS)	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 VIENT: Owner ship Cost/hr/ unit	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit	S S S S S S S S S S S S S S S S S S S	22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/ fleet	Cost/hr/ flee	et Cost/ fleet
Av: Av: Ma Des Cat Dril	ailable Rig Cap Ownership (Operating (Operator (Helper (Total Unit (DN ROADAB chine scription D8T - 8SU I/Broadcast	Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: Cost/Hour: LE EQUIPI Weight/ Unit (TONS) 53.08	\$16.63 \$44.38 \$27.66 \$0.00 \$88.67 MENT: Owner ship Cost/hr/ unit \$63.00	\$18.37 \$46.13 \$27.66 \$25.39 \$117.55 Haul Rig Cost/hr/unit \$125.45 \$88.67	S S S S S S S S S S S S S S S S S S S	22.33 50.07 27.66 25.39 25.45 Haul Trip Cost/hr/ fleet \$188.45	Cost/hr/ flee \$125.45	t Cost/ fleet

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: Total one-way travel distance: Average Travel Speed:	MONTE VISTA 25.00 50.00	miles mph
Total Non-Roadable Mob/Demob Cost * '* two round trips with haul rig:	\$1,164.25	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$0.00	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.50	0.50
Return Time (Hours):	0.50	0.50
Loading Time (Hours):	0.50	NA
Unloading Time (Hours):	0.50	NA
Subtotals:	2.00	1.00

JOB TIME AND COST

Total job time: 4.00 Hours

Total job cost: ______\$1,164.25