

COLORADO Division of Reclamation, Mining and Safety

Department of Natural Resources 1313 Sherman Street, Room 215 Denver, Colorado 80203

February 09, 2015

Rudy Torres Riverside Aggregates, LLC 1750 County Road HH Lamar, CO 81052

Re: Friederichs Pit 112, Permit No. M-2010-080, 110 to 112 Construction Materials Reclamation Permit Conversion Application (CN-01), Adequacy Review -02

Mr. Torres,

On February 04, 2015, the Division of Reclamation, Mining and Safety (Division) received your response to the preliminary adequacy review of your 110 to 112 Construction Materials Reclamation Permit Conversion application (CN-01). As of the Board Order dated December 05, 2014, the decision date for this application has been extended to **February 26, 2015**.

Please note that any changes or additions to the application in our office must also be reflected in the public review copy which has been placed with the County Clerk and Recorder.

After reviewing your revised application, the Division has the following comments that must be addressed before the application can be approved:

EXHIBIT E - Reclamation Plan (Rule 6.4.5):

 You state in the revised application that topsoil stockpiles which sit for more than a growing season will be stabilized by naturally occurring weed or grass vegetative cover. This answer is not acceptable to the Division as Rule 3.1.9(3) requires topsoil stockpiles to be planted with an annual and/or perennial for the purpose of stabilization. Furthermore, the Division does not consider it an acceptable practice to stabilize topsoil stockpiles with weeds. <u>Please state what type of seed mix will be used to stabilize topsoil stockpile(s) if necessary and include the seeding rate.</u> Some species commonly used for this purpose include triticale, intermediate wheatgrass, sorghum, oats, and/or barley. For more information on choosing an appropriate temporary seed mix, please contact your local NRCS office.

EXHIBIT L - Reclamation Costs (Rule 6.4.12):

1) The Division has calculated the required bond (see enclosed cost summary) based on the disturbance of 14.5 acres of land, which includes backfilling a 15 ft highwall that is 944 ft in length to a 4H:1V gradient, reapplying topsoil at 6 inches deep, and revegetating the disturbed land to pastureland (according to the NRCS recommendations you submitted). <u>Please review the enclosed cost summary and submit any questions or comments by the decision date</u>. Please keep in mind that the calculated costs are for what the Division would incur to reclaim the site. The additional required bond will need



to be submitted after the application has been approved.

EXHIBIT S - Permanent Man-Made Structures (Rule 6.4.19):

 You state in the revised application that a structure agreement for the dirt road located within 200 feet of the eastern permit boundary was enclosed. However, no structure agreement for this road was included with your response. <u>Please submit a notarized agreement between you and the person(s)</u> having an interest in the structure (Jack Evans), that you are to provide compensation for any damage to the structure caused by this operation.

Additional Information:

 Please submit to the Division proof of publication, and proof of all required notices (publication sent to all Owners of Record of the proposed affected area and of all land surfaces within 200 feet of the proposed permit boundary). Requirements for the publication and required notices can be found in Rule 1.6.2(1)(d), (e), and (f) (see enclosed).

Any comments that the Division has received since the preliminary adequacy review are enclosed with this letter for your review.

This concludes the Division's Adequacy Review-02 of this application. As stated above, the decision date for this application is <u>February 26, 2015</u>. Please be advised that if there are outstanding issues that have not been adequately addressed prior to the end of the review period, the Division will deny this application. Because this is a Board-Ordered application, if it is not approved by the decision date, the Division must bring this matter before the Board. <u>Please submit any adequacy response items to the Division no later than one week prior to the decision date to allow sufficient time for further exchange if required.</u>

If you need additional information, please contact me at the Division of Reclamation, Mining and Safety, 1313 Sherman Street, Room 215, Denver, CO 80203, by telephone at 303-866-3567, extension 8129, or by email at <u>amy.eschberger@state.co.us</u>.

Sincerely, Any Exchburger

Amy Eschberger Environmental Protection Specialist

- Enclosure(s): Cost summary calculated by the Division on 02/06/2015 Requirements for publication and required notices Comment from Colorado Parks and Wildlife, received on 12/05/2014 Comment from Division of Water Resources, received on 12/10/2014
- CC: Tom Kaldenbach, DRMS



COST SUMMARY WORK

Task des	scription: Cost Summary				
Site:	Friederichs Pit 112	Permit Action:	CN-01 201	5 Permit	/Job#: <u>M2010080</u>
<u>P</u>	ROJECT IDENTIFICATION				
	Task #:000State:Color	ado		Abbreviation:	None
	Date: 2/6/2015 County: Prow	ers		Filename:	M080-000
	User: <u>AME</u>				
	Agency or organization name: DRMS				
<u>T</u>	ASK LIST (DIRECT COSTS)				
Taala		Form	Fleet	Task	
Task	Description	Used	Size	Hours	Cost
001	Backfill highwall (15'H x 944'L) to 4H:1V	DOZER	1	73.17	\$12,009.00
002	Reapply topsoil on 14.5 acres, 6 in deep	SCRAPER1		18.23	\$5,199.00
003	Revegetate 14.5 acres to pastureland	REVEGE	1	58.00	\$14,825.00
004	Mobilization/Demobilization	MOBILIZE	1	4.15	\$2,516.00
		SUB	BTOTALS:	153.55	\$34,549
	NDIRECT COSTS VERHEAD AND PROFIT:				
	Liability insurance: 2.02%			Total =	\$697.89
	Performance bond: 1.05%			Total =	\$362.76
	Job superintendent: 0.00 hrs				\$0.00
	Profit: 10.00%				\$3,454.90
					\$4,515.55
	(CONTRACT AM	OUNT (direc	t + 0 & P =	\$39,064.55
L	EGAL - ENGINEERING - PROJECT MANAGEM	ENT:			
	Financial warranty processing (legal/related cos	ts): 500.00		Total =	500.00
	Engineering work and/or contract/bid preparation				\$0.00
	Reclamation management and/or administrati	on: <u>5.00%</u>			\$1,953.23
	CONTINGENO	CY: 3.00		Total =	\$1,036.47
		TO	TAL INDIRE	CT COST =	\$8,005.25

BULLDOZER WORK

Task description:	Backfill highwal	II (15°H X 94	4 ² L) to 4H:1V		
Friederichs Pit 112	Per	mit Action:	CN-01 2015	Permit/Job#:	M2010080
PROJECT IDENTIF	ICATION				
Task #: 001	State:	Colorado		Abbreviation:	None
Date: 2/6/2015	County:	Prowers		Filename:	M080-001
User: AME					
Agency or orga	nization name: D	RMS			
HOURLY EQUIPMI	ENT COST				
Basic Machine: Ca	t D7R DS XR Series	II			
Horsepower: 23					
	mi-Universal				
Attachment: NA					
	er day				
Data Source: (C	RG)				
Cost Breakdown:					
			Utilization %		
Ownership Cost/Hour:	\$46.88		NA		
Operating Cost/Hour:	\$79.23		100		
Ripper op. Cost/Hour:	\$0.00		100		
			27.4		
Operator Cost/Hour:	\$38.01		NA		
-			NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT	\$164.12 \$164.12 <u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>		NA		
Total unit Cost/Hour: Total Fleet Cost/Hour: MATERIAL QUANT Initial Volume: <u>11,1</u> Swell factor: <u>1.06</u>	\$164.12 \$164.12 FITIES 25		NA		
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Spoil pile:	0.800	(FND-RF)
Push gradient:	0.903	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	0.793	(CAT HB)
Blade type:	1.000	(PAT)
Net correction:	0.3923	

Adjusted unit production:	161.16 LCY/hr
Adjusted fleet production:	161.16 LCY/hr

JOB TIME AND COST

Fleet size:	1 Dozer(s)
Unit cost:	\$1.018/LCY

Total job time:	73.17 Hours	
Total job cost:	\$12,009	

Site: Friederichs Pit 112	Per	mit Action:	CN-01 2015	Per	mit/Job#: <u>M2010</u>	080
PROJECT IDENT	IFICATION					
Task #: 002 Date: 2/6/2015 User: AME Agency or or		Colorado Prowers			eviation: <u>None</u> lename: <u>M080-(</u>	002
HOURLY EQUIPM			COSTSI	hift basis: <u>1 per c</u>	lay	
	-Scrape -Doze Equipment -Load Area -Dump Area itenance –Motor Grade -Water Truck	r: NA a: NA a: NA r: NA	10			
<u>Cost Breakdown</u> :	Scraper Work Tea	m Dozer	Support Equip Load Area	oment Dump Area	Maintenance Motor Grader	Equipme Water
%Utilization-machine:	100	NA	NA	NA	NA	Nutch
Ownership cost/hour:	\$80.91	NA	NA	NA	NA	N
Operating cost/hour:	\$170.75	NA	NA	NA	NA	N
Ripper op. cost/hour:	NA	NA	NA	NA	NA	N
Operator cost/hour:	\$33.56	NA	NA	NA	NA	Ν
Unit Subtotals:	\$285.22	NA	NA	NA	NA	Ν
Number of Units:	1	0	0	0	0	
Group Subtotals:	Work: \$	285.22	Support:	\$0.00	Maint:	\$0
Total work team cost/h	NTITIES					
Initial volume: Loose volume:	8,190 11,700	_ CCY _ LCY	Swell fact	cor: <u>1.429</u>		
0	e of estimated volume:	Divisior	of Reclamation, I	Mining & Safety		

Material weight:	1,600 lbs/LCY	Struck Volume:	24.00	LCY
Material description:	Top Soil	Heaped Volume:	34.00	LCY
Rated Payload:	81,600 pounds	Average Volume:	29.00	LCY
Payload Capacity:	51.00 LCY	Adjusted Capacity:	29.00	LCY

0.80 Minutes

0.70 Minutes

Cycle Time:

Scraper Loading Time: Maneuver and Spread Time:

Job Condition Correction:

	Scraper	Push Dozer	Source
Altitude Adj:	1.000	NA	(CAT HB)
Job Efficiency:	0.830	NA	(CAT HB)
Net Correction:	0.830	NA	

Travel Time:

Road Condition: <u>Rutted dirt, little maintenance, no water, 1" tire penetration 4.0</u>

Haul Route:

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	400.00	2.00	4.00	6.00	1069	0.42

Haul Time: 0.42 minutes

Site Altitude: 3785 feet

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	400.00	-2.00	4.00	2.00	2914	0.33
				Return Time:	0.33 I	ninutes
			Total Scrap	er team cycle time:	2.25	minutes
			Adjusted	for job conditions:	641.87	LCY/Hour
			Selected N	umber of Scrapers:	1	Scraper(s)
	Adjuste	d single scra	aper team (unit)	hourly production:	641.87	LCY/Hour
	Adjusted n	nultiple scra	per team (fleet)	hourly production:	641.87	LCY/Hour
Optima	Unadjusted unit pro al Number of Scrapers pe			_ LCY/Hour		
JOB T	IME AND COST					
	t size: 1	Team(s)	-	Fotal job time:	18.23	Hours

Unit cost: \$0.444 /LCY

Total job cost: **\$5,199**

REVEGETATION WORK

Task description: Rev		Revegetate 14.5 acres to pastureland		
Site: Fried	erichs Pit 112	Permit Action: <u>CN-01 20</u>	015 Permit/Job#:	M2010080
	CT IDENTIFI			Neur
Task		State: <u>Colorado</u>	Abbreviation:	None None
Dat		County: Prowers	Filename:	M080-003
	er: AME			

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
Disc harrowing, 6" deep (MEANS 32 91 13.23 6100)	\$98.01
Total Tilling Cost/Acre	\$98.01

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Indian Ricegrass - Nespar	4.00	12.95	\$28.32
Blue Grama - Lovington	1.50	24.48	\$16.29
Little Bluestem - Cimarron	3.50	20.89	\$49.98
Sideoats Grama - Vaughn	4.50	14.77	\$50.58
Western Wheatgrass - Arriba	8.00	20.20	\$29.44
Totals Seed Mix	21.50	93.30	\$174.61

Application

Description

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
Straw, delivered {MEANS 31 25 14.16 1200}	0} 2.00 TON		\$265.00	\$530.00
Total Mulch Materials Cost/Acre				\$530.00

Application

Description		Cost /Acre
Crimping, with tractor {DMG survey data}		\$65.89
	Total Mulch Application Cost/Acre	\$65.89

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
	\$0.00				

JOB TIME AND COST

No. of Acres:	14.5	Cost /Acre:	\$956.71
Estimated Failure Rate:	25%	Cost /Acre*:	\$262.81
*Selected Replanting Work Items:	SEEDING		

Initial Job Cost:	\$13,872.30
Reseeding Job Cost:	\$952.69
Total Job Cost:	\$14,825
Job Hours:	58.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Task description	n: Mo	bilization/Demo	bilization					
e: Friederichs	Pit 112	Permit	Action: <u>CN-02</u>	2015	Pe	rmit/Job#:	M2010	0080
PROJECT II	DENTIFICAT	<u>'ION</u>						
Task #: 0	04	State: C	Colorado		Abbr	eviation:	None	
Date: 2/	/6/2015	County: H	Prowers		F	ilename:	M080-0)04
User: A	ME							
Agenc	y or organizatio	n name: DRM	S					
<u>EQUIPMEN</u>	T TRANSPOR	<u>RT RIG COST</u>						
					Shift ba	isis: 1	l per day	
					Cost Data Sou		CRG Data	
Tm	uck Tractor Deso	cen	NERIC ON-HIGH				MECEL D	
110	uck Tractor Dest	Suption. GET	NEKIC UN-HIGI		(2ND HALF,		NESEL F	UWEKED,
Tr	uck Trailer Deso	cription: GEN	ERIC FOLDING		,	,	IIPMEN	T TRAILER
11	dek Huner Des		Liderolding		, 50T, AND 10			
Cost Double				X -	, - ,	- /		
Cost Breakdow	<u>n:</u>		-					
Available Rig		0-25 Tons	26-50 Tons		+ Tons			
	nip Cost/Hour:	\$16.63	\$18.37		22.33			
	ng Cost/Hour:	\$44.38	\$46.13		50.07			
	tor Cost/Hour:	\$27.66	\$27.66		27.66			
	per Cost/Hour:	\$0.00	\$25.39		25.39			
Total U	nit Cost/Hour:	\$88.67	\$117.55	\$1	25.45			
<u>NUN KUADA</u>	ABLE EQUIP	<u>MENT:</u>						
Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return 7		DOT Permi
Description	Unit	Cost/hr/ unit	Cost/hr/unit	Size	Cost/hr/	Cost/hr/	fleet	Cost/ fleet
*	(TONS)				fleet			
Cat D7R DS XR Series II	32.01	\$46.88	\$117.55	1	\$164.43	\$117.55		\$250.00

Subtotals: \$370.79 \$243.00 \$500.00

\$125.45

\$250.00

\$206.36

ROADABLE EQUIPMENT:

Cat 631G

52.50

\$80.91

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Drill/Broadcast Seeder with Tractor	\$52.78	1	\$52.78	\$52.78
		Subtotals:	\$52.78	\$52.78

\$125.45

1

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region: Total one-way travel distance: Average Travel Speed:	LAMAR, CO 9.00 55.00	miles mph
Total Non-Roadable Mob/Demob Cost *	\$2,498.64	
Total Roadable Mob/Demob Cost ** ** one round trip, no haul rig:	\$17.27	

Transportation Cycle Time:

	Non-Roadable Equipment	Roadable Equipment
Haul Time (Hours):	0.16	0.16
Return Time (Hours):	0.16	0.16
Loading Time (Hours):	1.00	NA
Unloading Time (Hours):	0.75	NA
Subtotals:	2.08	0.33

JOB TIME AND COST

Total job time: 4.15 Hours

Total job cost: **\$2,516**

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> public review a copy of the application and amendments, without confidential items, with the Clerk or Recorder of the county or counties in which the affected land is located and provide proof as required by Subsection 6.3.9 for 110 Limited Impact and 111 Special Operations and Subsection 6.4.18 for 112 Reclamation Operations.

- (d) Except for 111 Special Operation Permit applications, within ten (10) days after the Office notifies the Applicant that the application is considered filed, publish a public notice in a newspaper of general circulation in the locality of the proposed mining operation containing:
 - (i) name and address of Applicant;
 - (ii) location of the proposed mining operation by section, township and range and street address where applicable;
 - (iii) proposed dates of commencement and completion of the operation;
 - (iv) proposed future use of affected land;
 - (v) location where additional information on the operation may be obtained; and
 - (vi) location and final date for submitting statements of support or objections with the Office.
 - (e) Except for 111 Special Operation Permit applications, the applicant shall mail or personally serve a copy of the notice in Rule 1.6.2(1)(d) immediately after the first publication to:
 - (i) all Owners of Record of the surface and mineral rights of the affected land; and

110(5)(c)

110(5)(c),112(9)(c)

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 (ii) the Owners of Record of all land surface within 200 feet of the boundary of the affected lands.

(f) As soon as designated by the Office, mail a copy of the Notice provided for in Rule 1.6.2(1)(d) to any other Owners of Record who might be affected by the proposed mining operation. The Office shall designate such owners, if any, during its adequacy review process. (Not applicable to 111 Special Operation Permit applications.)

(g) Prior to Office consideration of the application, submit proof of publication and proof of all required notices. Proof of Notice may be by submitting return receipts of a Certified mailing or by proof of personal service. An application will be considered filed by the Office when the Applicant supplies the proper application fee, a signed affidavit that all notices as provided for in Paragraph 1.6.2(1)(b) have been posted, and the application meets the applicable requirements of Rules 1.4.1, 1.4.2, 1.4.3, 1.4.4, or 1.4.5. Prior to Office consideration of the application, proof of notice provided for in Subparagraphs 1.6.2(1)(d), (e), and (f) must be received by the Office.

(2) The copy of the permit application, adequacy responses of the applicant, application revisions, and any permit amendment applications placed at the office of the County Clerk or Recorder shall not be recorded, but shall be retained until final agency action, as defined at C.R.S. 24-4-105(14), on said application has occurred, and be available for inspection during such period. At the end of such period, such application may be reclaimed by the Applicant or destroyed. Applicants should contact the Office prior to removal of the copy of the application materials placed with the office of the County Clerk or Recorder in order to ensure compliance with C.R.S. 24-4-105(14).

1.6.3 Specific Provisions - 110 Limited Impact Permit Applications

110(5)(c),112(9)(c)

110(5)(c),112(9)(c)

110(5)(c),112(9)(a)



COLORAD Parks and Wildlife

Department of Natural Resources

Lamar Service Center 2500 South Main Street Lamar, CO 81052 P 719.336.6600 | F 719.336.6623

RECEIVED

DEC 05 2014 DIVISION OF RECLAMATION MINING AND SAFETY

November 13, 2014

Amy Eschberger Environmental Protection Specialist DIVISION OF RECLAMATION, MINING AND SAFETY Department of Natural Resources 1313 Sherman St., Room 215 Denver, CO 80203

Dear Ms. Eschberger

Thank you for the opportunity to <u>comment</u> on File No. M-2010-080, Friedrichs Pit, in Prowers County. District Wildlife Manager Rick Gardner recently visited the site described as section 18, Township 22S, Range 47W in Prowers County. The site is an existing gravel pit with agricultural ground surrounding it. Wildlife expected at the site would be primarily small ground-dwelling mammals including rabbits and mice, ground nesting birds such as scaled quail, passerine and migratory birds, fox, raccoon, coyotes as well as larger mammals including deer.

Impacts of the development, as proposed, may be characterized as minimal due to the current uses, size, and location of the proposed site. This does not mean that the landscape has no value to wildlife. Care should be taken during pit operation to minimize adverse impacts to wildlife that may be present (i.e. minimize noise during dusk/dawn time frames when wildlife are most likely to be present or active; avoid noticeable wildlife on site.) Reclamation of the site following the mining should utilize topsoil and native vegetation to the extent possible, and slopes should be returned to a three to one slope.

If you have any further questions, please contact District Wildlife Manager Rick Gardner at 719-940-3585

Sincerely,

Travis Black Area Wildlife Manager Colorado Parks and Wildlife 2500 S. Main St. Lamar, CO 81052

Bob D. Broscheid, Director, Colorado Parks and Wildlife • Parks and Wildlife Commission: Robert W. Bray • Chris Castilian, Secretary • Jeanne Horne Bill Kane, Chair • Gaspar Perricone • Dale Pizel • James Pribyl • James Vigil • Dean Wingfield • Michelle Zimmerman • Alex Zipp



DEPARTMENT OF NATURAL RESOURCES

× 1876 *

DIVISION OF WATER RESOURCES

John W. Hickenlooper Governor

Mike King Executive Director Dick Wolfe, P.E. Director/State Engineer

Response to Reclamation Permit Conversion Application Consideration

DATE: December 9, 2014

TO: Amy Eschberger, Environmental Protection Specialist

CC: Division 2 Office; District 67 Water Commissioner

FROM: Caleb Foy, E.I.T. CRF

RE: Friederichs Pit, File No. M-2010-080 Operator: Riverside Aggregates Contact: Rudy Torres, (719) 336-7361 Sec. 18, Twp. 22S, Rng. 47W, 6th P.M., Prowers County DEC 1 0 2014

DIVISION OF RECLAMATION MINING AND SAFETY

CONDITIONS FOR APPROVAL

- The proposed operation does not anticipate exposing groundwater. Therefore, exposure of ground water must not occur during or after mining operations. If stormwater is contained on-site, it must infiltrate into the ground or be released to the natural stream system within 72 hours, or all work must cease until a substitute water supply plan, or augmentation plan approved by water court, is obtained. Reclamation plans must ensure water will not be retained onsite for more than 72 hours unless an augmentation plan approved by water court is obtained.
- Other: All water brought on site for mining needs shall be a legal supply of water provided by an appropriate supplier.

COMMENTS: The local Water Commissioner, Becky Nichols, may be contacted at (719) 688-6711 or rebecca.nichols@state.co.us regarding legal supplies of water in the area.