



COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY
MINERALS PROGRAM INSPECTION REPORT
PHONE: (303) 866-3567

The Division of Reclamation, Mining and Safety has conducted an inspection of the mining operation noted below. This report documents observations concerning compliance with the terms of the permit and applicable rules and regulations of the Mined Land Reclamation Board.

MINE NAME: Bonnie Earl Pit	MINE/PROSPECTING ID#: M-1985-014	MINERAL: Sand and gravel	COUNTY: Bent
INSPECTION TYPE: Surety-Related Inspection	INSPECTOR(S): Amy Eschberger	INSP. DATE: August 14, 2014	INSP. TIME: 11:00
OPERATOR: Riverside Aggregates, LLC	OPERATOR REPRESENTATIVE: Rudy Torres	TYPE OF OPERATION: 110c - Construction Limited Impact	

REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: Complete Bond	BOND AMOUNT: \$28,000.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: <i>Amy Eschberger</i>	SIGNATURE DATE: August 25, 2014

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. No problems or possible violations were noted during the inspection. The mine operation was found to be in full compliance with Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials and/or for Hard Rock, Metal and Designated Mining Operations. Any person engaged in any mining operation shall notify the office of any failure or imminent failure, as soon as reasonably practicable after such person has knowledge of such condition or of any impoundment, embankment, or slope that poses a reasonable potential for danger to any persons or property or to the environment; or any environmental protection facility designed to contain or control chemicals or waste which are acid or toxic-forming, as identified in the permit.

(AR) RECORDS----- <u>Y</u>	(FN) FINANCIAL WARRANTY----- <u>Y</u>	(RD) ROADS----- <u>Y</u>
(HB) HYDROLOGIC BALANCE----- <u>Y</u>	(BG) BACKFILL & GRADING----- <u>Y</u>	(EX) EXPLOSIVES----- <u>NA</u>
(PW) PROCESSING WASTE/TAILING---- <u>NA</u>	(SF) PROCESSING FACILITIES----- <u>NA</u>	(TS) TOPSOIL----- <u>Y</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>Y</u>	(FW) FISH & WILDLIFE----- <u>N</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>Y</u>	(SP) STORM WATER MGT PLAN---- <u>Y</u>	(SB) COMPLETE INSP---- <u>Y</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>NA</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>Y</u>
(AT) ACID OR TOXIC MATERIALS----- <u>NA</u>	(OD) OFF-SITE DAMAGE----- <u>Y</u>	(ST) STIPULATIONS----- <u>NA</u>

Y = Inspected and found in compliance / N = Not inspected / NA = Not applicable to this operation / PB = Problem cited / PV = Possible violation cited

OBSERVATIONS

This was a courtesy inspection of the Bonnie Earl Pit (Permit No. M-1985-014) conducted by Amy Eschberger of the Division of Reclamation, Mining, and Safety (Division) to determine whether the site is releasable. Mr. Rudy Torres, representative of the Operator, Riverside Aggregates, LLC, was present for the inspection.

The site is located approximately 4.5 miles southeast of McClave, Colorado in Bent County, on land owned by Bonnie Earl. Access to the site is by a gated entrance off of Co Rd JJ. A dirt access road runs south from this county road for approximately one mile before entering the western portion of the site. This dirt road existed prior to the approval of this permit, and will remain after final reclamation. This road is currently used by Bent County to access their sand and gravel pit (Permit No. M-1991-086) which is located just east of the Bonnie Earl Pit, and by the landowner to access their range cattle. The site is located approximately 500 feet north of the Arkansas River. The approved post-mining land use is rangeland.

This site is a 110c operation that was permitted to mine sand and gravel from an old alluvial terrace. Mining occurred to a maximum depth of 15 feet. A succession of operators (Revision No. SO-02) from Bent County to Riverside Aggregates, LLC was approved for this permit on 02/25/2003. Since that time, according to Annual Reports, the current Operator has only hauled off material and conducted reclamation activities.

At the time of inspection, it was warm and breezy, and no standing water was observed on site. A permit sign was posted at the site entrance (Photo 1). The permit boundary was marked by metal posts (Photo 2). According to the last Annual Report, the last mining activities to occur at this site were in 2012. All slopes are currently 3H:1V or flatter in accordance with the approved reclamation plan (Photos 3 and 4). All earthwork has been completed at this site. Mr. Torres stated the site was broadcast seeded in 2012. In the inspection report from 01/18/2012, the inspector stated that vegetation was just starting to establish.

During the current inspection, grass has become established throughout much of the permit area (Photos 5 and 6). However, there are some bare patches in vegetative cover along the northern slope and on the pit floor that will require re-seeding (Photos 7- 9). The Operator indicated that re-seeding of the site would occur this Fall. Some annual weeds are present on site. However, these weeds are present in low numbers and they do not appear to be hindering the growth of desired vegetation. No tamarisk was present on site. It appears that the Operator has successfully implemented the noxious weed management plan for this site.

There are two gullies that have eroded into the northern slope of the permit area where stormwater drainage from up-gradient naturally flows toward the pit area. Volunteer vegetation, mostly consisting of annual weeds, has established in these gullies. During the inspection, the Operator committed to filling these gullies with riprap to help stabilize this portion of the northern slope.

After conducting this inspection, the Division has found that the site is not releasable at this time. However, the Operator was encouraged to submit a Surety Reduction request to account for only re-seeding of the permit area. This request was received from the Operator on August 15, 2014 (Revision No. SR-01) and is currently in review. In response to this Surety Reduction request, a new bond estimate was calculated by the Division in the amount of \$6,000.00 to account for only re-seeding of the site. The cost summary work for this estimate is enclosed with this report for review by the Operator. If the Operator agrees with this bond estimate, he should notify the Division within thirty (30) days of this report so the Surety Reduction request can be approved.

No problems were observed during this inspection.

PHOTOGRAPHS



Photo 1. View of permit sign posted at entrance to site.



Photo 2. View of metal post marking northwest corner of permit boundary.



Photo 3. View looking east from northern portion of site, showing reclaimed slope with 3H:1V gradient.



Photo 4. View looking southwest from northern portion of permit area, showing reclaimed slope with 3H:1V gradient.



Photo 5. View looking northeast from central portion of permit area, showing well-established grasses.



Photo 6. View looking north from central portion of permit area, showing well-established grasses.



Photo 7. View looking southeast from top of northern slope, showing some bare patches in vegetative cover on pit floor.



Photo 8. View looking northwest from southern portion of site, showing some bare patches in vegetative cover on pit floor.



Photo 9. View looking west/northwest from southwestern portion of site, showing some bare patches in vegetative cover on northern slope (in background).

Inspection Contact Address

Rudy Torres
Riverside Aggregates, LLC
1750 Rd. HH
Lamar, CO 81052

Enclosure: Division's Cost Estimate Work for Surety Reduction Request (SR-01)

CC: Tom Kaldenbach, DRMS

COST SUMMARY WORK

Task description: Summary of Costs

Permit Action: Surety Reduction
Bond Estimate
2014

Site: Bonnie Earl Pit

Permit/Job#: M1985014

PROJECT IDENTIFICATION

Task #: 111 State: Colorado Abbreviation: None
Date: 8/25/2014 County: Bent Filename: M014-111
User: AME

Agency or organization name: DRMS

TASK LIST (DIRECT COSTS)

Task	Description	Form Used	Fleet Size	Task Hours	Cost
112	Reseed 9.9 acres	REVEGE	1	20.00	\$4,763.00
<u>SUBTOTALS:</u>				20	\$4,763

INDIRECT COSTS

OVERHEAD AND PROFIT:

Liability insurance:	2.02%	Total =	\$96.21
Performance bond:	1.05%	Total =	\$50.01
Job superintendent:	0.00 hrs	Total =	\$0.00
Profit:	10.00%	Total =	\$476.30
		TOTAL O & P =	\$622.52
		CONTRACT AMOUNT (direct + O & P) =	\$5,385.52

LEGAL - ENGINEERING - PROJECT MANAGEMENT:

Financial warranty processing (legal/related costs):	<u>500.00</u>	Total =	<u>500.00</u>
Engineering work and/or contract/bid preparation:	<u>0.00%</u>	Total =	<u>\$0.00</u>
Reclamation management and/or administration:	<u>5.00%</u>		<u>\$269.28</u>

CONTINGENCY: 0.00 Total = \$0.00

TOTAL INDIRECT COST = \$1,391.80

TOTAL BOND AMOUNT (direct + indirect) = \$6,154.80

REVEGETATION WORKTask description: Reseed 9.9 acres

Site: Bonnie Earl Pit Permit Action: Surety Reduction Permit/Job#: M1985014
Bond Estimate 2014

PROJECT IDENTIFICATION

Task #: 112 State: Colorado Abbreviation: None
 Date: 8/25/2014 County: Bent Filename: M014-112
 User: AME

Agency or organization 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
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Lovington	1.50	24.48	\$16.29
Sand Dropseed	0.26	31.04	\$1.81
Sideoats Grama - El Reno	4.50	14.77	\$50.58
Yellow Sweet Clover - Madrid	10.00	59.69	\$25.50
Western Wheatgrass - Barton	8.00	20.20	\$29.44
Totals Seed Mix	24.26	150.18	\$123.62

Application

Description	Cost /Acre
Broadcast seeding [DMG]	\$261.28
Total Seed Application Cost/Acre	\$261.28

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 Stock Cost / Acre					\$0.00

JOB TIME AND COST

No. of Acres:	9.9	Cost /Acre:	\$384.90
Estimated Failure Rate:	25%	Cost /Acre*:	\$384.90
*Selected Replanting Work Items:	SEEDING		
Initial Job Cost:	\$3,810.51		
Reseeding Job Cost:	\$952.63		
Total Job Cost:	\$4,763		
Job Hours:	20.00		