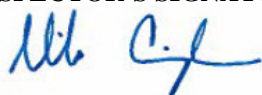


**COLORADO**Division of Reclamation,
Mining and Safety

Department of Natural Resources

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: Irwin/Thomas Mine	MINE/PROSPECTING ID#: M-2016-054	MINERAL: Sand and gravel	COUNTY: Boulder
INSPECTION TYPE: Preoperation Inspection	INSPECTOR(S): Michael A. Cunningham	INSP. DATE: December 13, 2016	INSP. TIME: 13:00
OPERATOR: Aggregate Industries - WCR, Inc.	OPERATOR REPRESENTATIVE: Connie Davis, Bill Schenderlein	TYPE OF OPERATION: 112c - Construction Regular Operation	
REASON FOR INSPECTION: Normal I&E Program	BOND CALCULATION TYPE: None	BOND AMOUNT: No Bond Held	
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None	
WEATHER: Windy	INSPECTOR'S SIGNATURE: 	SIGNATURE DATE: December 15, 2016	

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

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

OBSERVATIONS

The inspection was conducted by Michael Cunningham and Amy Eschberger of the Division of Reclamation, Mining and Safety (Division). Connie Davis with Aggregate Industries and Bill Schenderlein with Blue Earth Solutions were also present for the inspection. The Irwin/Thomas Mine is located within the City of Longmont, in Boulder County. The proposed mining operation is comprised of four non-contiguous permit areas totaling 295.8 acres, which are located immediately adjacent to Highway 119 and St. Vrain Creek. The commodity of interest is sand and gravel and the proposed post-mining land use is a combination of general agriculture, groundwater ponds, and wetland areas.

Aggregate Industries submitted the 112 Construction Materials Reclamation Permit application on September 29, 2016. The current decision date for the application is January 9, 2017. This pre-operational inspection was conducted in order to verify the site conditions, as presented in the Reclamation Permit application, are accurate. As required by Rule 1.6.2(1)(b), the Applicant has posted notice of the proposed operation at multiple locations. As noted above, the permit areas is comprised of four separate areas, which are referred to as Mining Areas 1-4 in the application. The inspection commenced in Mining Area 1 and then moved sequentially through the remainder of the Mining Areas. The aggregate material will be extracted using conventional methods and the affected areas will be dewatered and dry-mined.

Mining Area 1 consists primarily of irrigated pasture and is located to the south of Highway 119. There is a residential structure located on the east side of Mining Area 1 which is owned by Golden Farm Ltd. This residential structure is located within Mining Cell 5 and the Applicant was unsure if the structure would be demolished. Prior to the removal of the residential structure, the Applicant will have to demonstrate to the Division that the landowner has approved the removal of the house. The other major structure within Mining Area 1 is the Bonus Ditch which runs west to east across the site. The Bonus Ditch will remain in place and will not be impacted by the mining operation.

Mining Area 2 is located immediately north of Highway 119 and is bounded by St. Vrain Creek on the north side. Mining Area 2 consists of irrigated pasture and includes a barn and several out-buildings owned by the City of Longmont. The structures will not be impacted by the mining operation. Mining Area 2 contains 2 lined irrigation laterals which discharge through culverts located on the north side of the parcel. The existing culverts may be utilized as discharge points for the dewatering of Mining Area 2.

Mining Area 3 and Mining Area 4 are located north of the St. Vrain Creek and are separated by an active railroad line which runs east to west. Portions of Mining Area 3 are used to store railroad ties and other equipment for the railroad. In addition, the City of Longmont has several stockpiles of fill material on the west side of Mining Area 3. Mining Area 4 is comprised of a wetland area and the dominant vegetation is cattails. There is a small pond located on the east side of Mining Area 4. The Division observed a Great Blue Heron standing in the center of the pond, indicating the water is very shallow. The Applicant did not know the source of water for the pond. Based on the proximity to the St. Vrain Creek and the adjacent wetlands, the Division believes there is exposed groundwater in the pond.

Based on the observations made during the inspection, the site conditions presented in the application were found to be accurate. All adequacy issues will be addressed during the Division's review process. This concluded the inspection.

PHOTOGRAPHS



1. Public notice sign at site entrance.



2. Mining Area 1. (Photo taken at southwest corner facing northeast)



3. Mining Area 2. (Photo taken facing west)



4. Mining Area 2. (Photo taken facing southeast)



5. Pond in Mining Area 4.



6. Railroad line between Mining Area 3 and Mining Area 4. (Photo taken facing west)



7. Material stockpile in Mining Area 3.



8. Material stockpile in Mining Area 3.



9. Mining Area 3. (Photo taken facing west)



10. Mining Area 3. (Photo taken facing west)

Inspection Contact Address

Connie Davis
Aggregate Industries - WCR, Inc.
P.O. Box 337231
Greeley, CO 80633

EC: Wally Erickson, DRMS
Amy Eschberger, DRMS
Bill Schenderlein, Blue Earth Solutions