




**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.

<b>MINE NAME:</b> Hazeltine Mine	<b>MINE/PROSPECTING ID#:</b> M-2004-031	<b>MINERAL:</b> Sand and gravel	<b>COUNTY:</b> Adams
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Jared L. Ebert	<b>INSP. DATE:</b> August 20, 2018	<b>INSP. TIME:</b> 10:30
<b>OPERATOR:</b> Aggregate Industries - WCR, Inc.	<b>OPERATOR REPRESENTATIVE:</b> Joel Bolduc	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> None	<b>BOND AMOUNT:</b> \$670,602.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>WEATHER:</b> Clear	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> August 23, 2018	

**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>Y</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>Y</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>	(RS) RECL PLAN/COMP-- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(ST) STIPULATIONS----- <u>N</u>
(AT) ACID OR TOXIC MATERIALS----- <u>N</u>	(OD) OFF-SITE DAMAGE----- <u>Y</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 an inspection of the Hazeltine Mine, Division of Reclamation, Mining and Safety (DRMS or Division) permit number M-2004-031, operated by Aggregate Industries - WCR, Inc. (AI). I, Jared Ebert and Michael Cunningham with DRMS conducted the inspection. Mr. Joel Bolduc with AI accompanied us during the inspection.

### **Hydrologic Balance:**

The flood spillway installed at the northwest corner of the pit was observed. No problems were noted.

At the time of the inspection, the Orr Drain was open and water was discharging into the pit (Hazeltine Reservoir). Water flows into the pit and pools near the northeast corner where it is pumped from the pit and discharged into the Bull Seep on the north side of the property. AI has excavated deeper "finger drains" or trenches upstream and downstream of the Orr Drain to facilitate the flow of water into the drain. It is likely groundwater and water from the relocated Bull Seep are discharging from the Orr Drain. Based on the second quarter 2018 monitoring well data submitted by AI, the water level in HZMW-2 has lowered to 5040 feet. Water levels in HZMW-11A and 11B do not appear to have substantially changed and are above the pre-slurry wall water level. Mr. Bolduc indicated AI may extend and/or create additional drainage trenches to increase the groundwater drainage from the Orr property. AI as required, should continue to evaluate the groundwater levels in these monitoring wells and take appropriate action to lower the groundwater level. Monitoring well HZMW-2 was accessible during the inspection. However, HZMW 11A and 11B appeared to have been accessed recently but surface water was observed near the casings and the ground was very wet.

The relocated Bull Seep was observed upstream and downstream of the Orr Drain. Thick wetland vegetation has established in the Bull Seep corridor and the water flow is very slow to nearly stagnant.

The Division is currently reviewing Technical Revision No. 6 (TR06) which consists of a revised Permanent Groundwater Mitigation Plan. The decision date for TR06 is September 12, 2018.

### **Gen. Compliance With Mine Plan:**

Mining is complete at the site.

### **Off-site Damage:**

The Orr property was observed. The Fulton Ditch was not open and turned out into the Bull Seep at the gate at the southwest corner of the Orr Property. Previous DRMS inspections have noted a pond of water consistently in the northwest to central part of the Orr property. The surface of this area was relatively dry. Standing water was observed within the cattails that have established throughout the Orr Property. Overall, the surface of the Orr property is dryer than previously observed by the Division, however it is clear the groundwater is still very near the surface on the central, north and east side of the Orr property.

**PHOTOGRAPHS**



**Figure 1. Flood control spillway at the northwest corner of the site.**



**Figure 2. Water discharge from the Orr Drain.**





Figure 3. Upstream of the Orr Drain. View of the headwall.



Figure 4. Downstream "Finger Drain" or trench.



Figure 5. From the north end of the Orr Property looking south.



Figure 6. View of the northeast corner of the pit. Pooled water from the Orr Drain and likely recent precipitation.





Figure 7. View of the discharge point on the north side of the Hazeltine Mine.



Figure 8. Discharge point of the Fulton Ditch to the Bull Seep, southwest corner of the Orr Property.





Figure 9. View of the central portion of the Orr property.



Figure 10. From the center of the Orr property looking north.



Figure 11. From the north central side of the Orr property looking south.

**Inspection Contact Address**

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Enclosure: None

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