



**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> Lyster Pit	<b>MINE/PROSPECTING ID#:</b> M-2008-009	<b>MINERAL:</b> Sand and gravel	<b>COUNTY:</b> Moffat
<b>INSPECTION TYPE:</b> Surety-Related Inspection	<b>INSPECTOR(S):</b> Clayton Wein	<b>INSP. DATE:</b> June 2, 2021	<b>INSP. TIME:</b> 12:00
<b>OPERATOR:</b> Oldcastle SW Group, Inc. dba United Compai	<b>OPERATOR REPRESENTATIVE:</b> Jason Burkey, Tyra Bartuska	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	
<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b>	<b>BOND AMOUNT:</b> \$214,270.00	
<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> <i>Clayton Wein</i>	<b>SIGNATURE DATE:</b> June 18, 2021	

**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>Y</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>Y</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>N</u>	

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

## **OBSERVATIONS**

This was an inspection conducted to verify the on-the-ground conditions of the Lyster Pit following an acreage reduction request (AR-02) at the mine site. The inspection was conducted on June 2, 2021 at 12:00 PM. Clayton Wein of the Division attended the inspection. Jason Burkey and Tyra Bartuska of United Companies accompanied the inspection. The weather was clear with a temperature of 85 degrees F. The ground conditions were dry. The inspection was conducted after an acreage reduction application, AR-02, was received by the Division. The application requested a total of 37.1 acres that includes all of the Phase II mining area and a portion of the Phase I mining area. The permitted mine area is 60 acres.

### **Hydrologic Balance:**

During the inspection, the east ditch was inspected. On December 7, 2020, Technical Revision No. 3 was approved. The revision incorporated United's commitment to clean the east ditch during the spring of 2021. Maintenance was conducted on the east ditch in April of 2021. At the time of the inspection the east ditch was holding and transporting water to the outlet located at the northeastern permit boundary (Photo 1). The ditch was cleaned and there were no blockages observed (Photo 2). Vegetation around and within the ditch had been cleared. The east ditch was created prior to mining operations, when the parcel was split into two. During the Division's review of TR-3, data from United's groundwater wells was reviewed. The Division determined from the data that natural conditions at the northeast corner of the permit area show a high groundwater table. The data showed that the level of the groundwater table can be at or near the surface during some seasons. Site conditions during this inspection reflect the data reviewed by the Division. Exposed groundwater was observed to be ponded at the northeast corner of the permit area (Photo 3). Exposed groundwater continued south along the permit boundary. The water was noted to be within both the Lyster Pit's permit area, as well as, the adjacent landowner's property to the east of the mine. Data reviewed by the Division indicates that the natural flow within the groundwater table is to the northwest. The exposed groundwater observed during the inspection is received from up-gradient flow off-site.

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

The 37.1 acres requested for release in the AR-2 application are located within the Phase II mining area and partially in the Phase I mining area. The post mining land uses for the Lyster Pit are a developed water resource and pasture. The developed water resource/pond is located roughly in the middle of the site. The portion of the pond located within the reclaimed Phase II mining area has been constructed to the designs outlined Technical Revision No. 2. The pond was holding water below the maximum capacity (Photo 4). The pond will be enlarged when reclamation of the Phase I mining area is complete. The pond banks had approximately 3:1 slopes and were stable. There were no indications of erosion. The reclaimed phase I and Phase II areas were covered with dense vegetation (Photo 5 and 6). There were no indications of instability or erosional features identified. No off site impacts to the west were observed. The berm located at the northern part of the northeastern permit area was stable with vegetative cover. There were no indications of erosional features.

### **Signs and Markers:**

The mine identification sign was posted to the left of the entrance to the mine site. The sign displayed the required information about the mine permit, the permittee and the Division. The sign was in good condition and in an unobstructed location.

## **PHOTOGRAPHS**



**Photo 1:** The outlet of the east ditch intersecting with the ditch paralleling State Highway 394.



**Photo 2:** The east ditch. Flow is indicated in the photo by the blue arrow.





**Photo 3:** The ponded water located on the eastern permit boundary. The boundary is indicated by the blue line in the photo. North is indicated by the red arrow in the photo.



**Photo 4:** The eastern portion of the permanent pond. The red arrow in the photo indicates north.



**Photo 5:** The eastern portion of the reclaimed area. The east ditch is located on the right side of the photo. The red arrow indicates north.



**Photo 6:** The northern portion of the reclaimed area looking to the south towards the pond.