




**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> Krehmeyer Pit	<b>MINE/PROSPECTING ID#:</b> M-2005-070	<b>MINERAL:</b> Gravel and sand	<b>COUNTY:</b> Phillips
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Brock Bowles	<b>INSP. DATE:</b> July 1, 2021	<b>INSP. TIME:</b> 12:30
<b>OPERATOR:</b> Ritchey's Redi-Mix Concrete, Inc.	<b>OPERATOR REPRESENTATIVE:</b> Jerry Ritchie	<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> \$7,400.00	
<b>DATE OF COMPLAINT:</b> NA	<b>POST INSP. CONTACTS:</b> None	<b>JOINT INSP. AGENCY:</b> None	
<b>WEATHER:</b> Cloudy	<b>INSPECTOR'S SIGNATURE:</b> 	<b>SIGNATURE DATE:</b> August 5, 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>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>	(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 inspection was conducted by Brock Bowles of the Division of Reclamation, Mining and Safety (Division). Jerry Ritchie of Ritchie's Redi-Mix (Operator) was present for the inspection. The Krehmeyer Pit is located about 7 miles southeast of Haxtun. The site is an active 112c operation with 34.6 acres permitted and the post-mining land use is wildlife. This inspection was carried out as a part of the Division's routine monitoring inspection program. At the time of the inspection it was partly cloudy, warm and breezy.

The permit identification sign was in place at the mine entrance and legible (photo 1). The permit boundary markers were in place (photo 2). Mining was not taking place at the time of the inspection. The last excavation date according to the 2021 Annual Report was March 2014. The mine is in its final reclamation phase.

Sandy Creek had some water in the bottom of the creek (photo 3). Jerry Ritchie said that there has been several large rain events in the last few months and it had rained the previous night. As a reminder, the Div. of Water Resources requires any storm water runoff intercepted by this operation must infiltrate into the ground or be release to the creek system within 72 hours.

The water level in Sandy Creek got really high as can be seen by the debris caught in the trees. It is estimated that the water was 5-6 feet deep (photo 4). The speed of the water was also significant enough to remove soil from around the roots of small plants exposing about 2 inches of the roots. The flow of the water also pushed the plant over (photo 5).

The water rose to a level that exceed the creek bank on the north side. The water flowed beyond the north permit boundary and onto the adjacent cropland. The water flowed east through the crop field then flowed back onto the permitted area and then back into the creek. The mine is in reclamation and the creek channel is not obstructed by any mining related objects such as stockpiles or diversions. The creek bottom is fairly dense with small trees, shrubs and grasses which is the most likely reason why the water level exceeded the bank (photo 6).

The location where the water flowed from the crop field back into the creek had significant erosion (photo 7). The crop debris on the edge of the field shows where the water flowed from the crop field back into the permit area and then into the creek (photo 8). The erosion damaged an area about 750 ft<sup>2</sup> and 18 inches deep. The side of the pit in this area was graded to about 3h:1v or less as required by the permit. There isn't a natural channel or drainage in this area that would indicate special attention or a structure is warranted. Mr. Ritchie will repair the damaged area after the oats crop has been harvested to prevent damage to the crop. Harvest is expected within the next month.

When the erosion repairs are completed, photos of the repair need to be submitted to DRMS. Once the photos are reviewed verifying the repairs, a final surety release (SL) application can be submitted. If the surety release application is received by the division within 30 days of this report, this inspection can be used for the purposes of the surety release.

The rest of the mined area appeared to be stable and well vegetated. A couple of musk thistles, some cheatgrass and a few scattered mullein plants were noted. These plants need to be treated as they are Colorado Noxious Weeds. The density of these plants was less than what was observed outside the permitted area.

## **PHOTOGRAPHS**



Photo 1 – Mine entrance sign facing



Photo 2 – Northeastern boundary marker





Photo 3 – Water in Sandy Creek



Photo 4 – Debris in trees shows how deep the water was during a recent rain event





Photo 5 – Soil eroded from around roots of some small plants.



Photo 6 – Dense vegetation in the creek bottom.





Photo 7 – Erosion from where water flowed back into Sandy Creek



Photo 8 - Crop debris shows where water flowed from the field.

**Inspection Contact Address**

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CC: Michael Cunningham, DRMS