


**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.

<b>MINE NAME:</b> Schumacher Pit #3	<b>MINE/PROSPECTING ID#:</b> M-2006-072	<b>MINERAL:</b> Gravel, clay (general)	<b>COUNTY:</b> Logan
<b>INSPECTION TYPE:</b> Monitoring	<b>INSPECTOR(S):</b> Jared L. Ebert	<b>INSP. DATE:</b> December 15, 2016	<b>INSP. TIME:</b> 10:30
<b>OPERATOR:</b> Jeffrey L. Schumacher	<b>OPERATOR REPRESENTATIVE:</b> None	<b>TYPE OF OPERATION:</b> 112c - Construction Regular Operation	

<b>REASON FOR INSPECTION:</b> Normal I&E Program	<b>BOND CALCULATION TYPE:</b> Complete Bond	<b>BOND AMOUNT:</b> \$31,800.00
<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> December 22, 2016

**The following inspection topics were identified as having Problems or Possible Violations. OPERATORS SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF THE PERMIT AND APPLICABLE RULES AND REGULATIONS. If a Possible Violation is indicated, you will be notified under separate cover as to when the Mined Land Reclamation Board will consider possible enforcement action.**

**INSPECTION TOPIC:** Signs & Markers

**PROBLEM/POSSIBLE VIOLATION:** Problem: The affected area boundary markers are missing or incorrectly placed. This is a problem for failure to maintain boundary markers around the affected area as required by Section 3.1.12(2) of the rule.

**CORRECTIVE ACTIONS:** The operator shall conduct a survey and replace the boundary markers in the correct location(s). The operator shall provide proof to the Division that this has been done by the corrective action date.

**CORRECTIVE ACTION DUE DATE:** 1/19/17

## **OBSERVATIONS**

This was an inspection of the Schumacher Pit #3, DRMS permit number M-2006-072, operated by Jeffrey L. Schumacher. I, Jared Ebert of the Colorado Division of Reclamation, Mining and Safety conducted the inspection. The weather was cloudy and cold at the time of the inspection. Using the ArcCollector GIS application, the affected area was measured to be about 12.5 acres in size and appears to be within the approved boundary.

### **Backfilling and Grading:**

The site consists of two excavations. The primary excavation is on the western end of the site in Mining Areas 1 and 2 according to the Exhibit D Map. A smaller excavation appears to have occurred on the eastern end of Mining Area 1. The western excavation is a pit that daylights to the east. The small access road enters the western pit on the north side and is adjacent to a near vertical highwall with a southern aspect. The western pit slopes were graded to an approximate 2:1 horizontal to vertical slope. The southwest and south pit slopes were graded to a 3:1 slope or less. The slopes consist of very sandy material and rills have formed on the slope. However all of the sediment appears to be contained in the bottom of the pit. Using the ArcCollector GIS application, the Division measured the lengths of the pit highwalls and slopes. The northern highwall is about 159 feet in length and was estimated to be about 10 feet in height. The western pit slope was measured to be about 260 feet in length at the top of the slope. The southwest and southern slope was measured to be 848 feet in length at the top of the slope.

The eastern pit excavation is a shallow pit with gentle side slopes. The pit appears to be only two to three feet in depth.

### **Financial Warranty:**

The Division conducted a cost estimate based on the current level of disturbance at the site. Based on this estimate the Division finds that the current financial warranty set for the site is adequate.

### **Fish and Wildlife:**

No wildlife protection problems were noted.

### **Hydrologic Balance:**

This is a dry pit operation. Runoff from the pit excavation appears to be contained within the pit.

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

Overall, it appear the operator is conducting the operation in accordance with the approved plan.

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

Offsite damage was not observed. However, recent snow cover limited the ground visibility.

### **Roads:**

The access road and internal haul roads were maintained and stable.

### **Revegetation:**

The operator is currently mining and does not appear to have reclaimed any portion of the affected area to

the point of initiating revegetation.

Sediment Control:

Offsite sedimentation was not observed.

Slides and Other Damage:

Rilling is occurring on the mine slopes due to the sandy condition of the material.

Signs and Markers:

The mine entrance sign was in place. The affected area boundaries were not clearly marked. Several markers were observed at the southern end of the site, however these markers appear to be associated with the adjacent Logan County operations (M-1995-063).

Topsoil:

Topsoil is stored in two stockpiles at the site. One is located adjacent to the western permit boundary near the entrance. The other stockpile is located adjacent to the eastern pit excavation. Both piles were stable and vegetated.

## PHOTOGRAPHS



Figure 1. From the north end of western pit looking south.



Figure 2. From the northern end of western pit excavation looking east.

### **GENERAL INSPECTION TOPICS**

The following list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each

(AR) RECORDS----- <u>NA</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>Y</u>	(RV) REVEGETATION---- <u>Y</u>
(SM) SIGNS AND MARKERS----- <u>PB</u>	(SP) STORM WATER MGT PLAN---- <u>NA</u>	(CI) COMPLETE INSP---- <u>NA</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>NA</u>	(SC) EROSION/SEDIMENTATION--- <u>Y</u>	(RS) RECL PLAN/COMP-- <u>NA</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

#### **Inspection Contact Address**

Jeffrey L. Schumacher  
18751 County Road 37.5  
Sterling, CO 80751

Enclosure: December 15, 2016 Inspection Map

CC: NONE



Schumacher Pit #3, M-2006-072, December 15, 2016 Inspection

