



COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY
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: Speer Mining Resource	MINE/PROSPECTING ID#: M-1983-176	MINERAL: Gravel	COUNTY: Adams
INSPECTION TYPE: Monitoring	INSPECTOR(S): Tom Kaldenbach	INSP. DATE: November 20, 2013	INSP. TIME: 10:00
OPERATOR: Asphalt Specialties Co., Inc.	OPERATOR REPRESENTATIVE: Rob Laird	TYPE OF OPERATION: 112c - Construction Regular Operation	

REASON FOR INSPECTION: Citizen Complaint	BOND CALCULATION TYPE: None	BOND AMOUNT: \$678,169.00
DATE OF COMPLAINT: NA	POST INSP. CONTACTS: None	JOINT INSP. AGENCY: None
WEATHER: Clear	INSPECTOR'S SIGNATURE: <i>Tom Kaldenbach</i>	SIGNATURE DATE: January 31, 2014

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>Y</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>	(SB) COMPLETE INSP---- <u>N</u>
(ES) OVERBURDEN/DEV. WASTE----- <u>N</u>	(SC) EROSION/SEDIMENTATION--- <u>N</u>	(RS) RECL PLAN/COMP-- <u>Y</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

This inspection was conducted by Tom Kaldenbach and Tony Waldron of DRMS. The inspection was conducted in response to a complaint received by DRMS on November 7, 2013 from Kirk Kirby, a homeowner near the Speer Mining Resource site (see attached copy of complaint). The complaint describes ongoing flooding of the home that the homeowner believes is caused by mounding of alluvial groundwater on the upgradient side of the Speer Mining Resource site where the home is located. The address of the home is 10221 E. 120th Avenue; Henderson, CO. The inspection began with a visit to Mr. Kirby's home, and ended with an inspection of the Speer Mining Resource site.

Mr. Kirby was present during the portion of the inspection at his home. He explained that he has had to continuously pump water from a sump in his basement since September 2013 in order to prevent flooding of the basement (pumping had also been necessary at various times in past years, and the Board found the Speer Mining operator in violation in 2009 for failure to prevent flooding of the basement). The homeowner's pumping rate appeared during this inspection to be roughly 10 gallons per minute, based on a visual estimate of the pumped water being discharged onto the ground in the yard of the house. The pump was approximately 5 feet lower in elevation than the land surface outside the basement, as seen through a window in the basement. There was no other evidence of flooding seen at the home.

Rob Laird represented the mine operator during the inspection of the Speer Mining Resource site. Mining extraction at the site was completed in 2006, according to the mine's annual reports. Reclamation is in progress on the site in the form of backfilling the pit excavations with imported inert fill, as approved in 2010 in permit amendment AM-04. A french drain was also approved in AM-04 that will be constructed on the upgradient (south and east) side of the pit. The purpose of the drain will be to convey alluvial groundwater away from the upgradient sides of the backfilled pits so that mounding does not occur. Until the drain is constructed, the operator's effort at prevent mounding of groundwater consists of letting inflowing alluvial groundwater flow through an excavated trench that extends from the upgradient (south and east) side of the site to the downgradient (north and west) side of the site. The downgradient part of the site is a pit lake. Water is pumped out of the lake into the adjacent South Platte River.

During the inspection, water movement was barely detectable throughout the length of the trench. The operator's representative explained that inflows of groundwater into the pits and the lake on the mine site significantly increased in mid-September, following the extensive rains that caused flooding in much of the South Platte basin. He explained that the mine would take whatever action is necessary (for example pumping or work on the trench and the lake) to significantly increase flow through the trench and out of the lake so that groundwater does not mound upgradient from the site. He also explained that he would step-up cooperative efforts with the homeowner to prevent flooding impacts at the home. DRMS will follow-up with the operator to verify positive drainage through the Speer Resource site has been adequately restored.

PHOTOGRAPHS



Photo 1 – Sump pump in the basement of Mr. Kirby's house.



Photo 2 – Sump pump discharge in the yard of Mr. Kirby's house.



Photo 3 – Trench on Speer Mining Resource site.



Photo 4 – Trench downstream from location of Photo 3.



Photo 5 – Area where trench (in foreground) flows into pit lake (in background). Water from lake is pumped into South Platte River at location in distance in right-center of photo.

Inspection Contact Address

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Enclosure

CC:

Mr. Kirk Kirby
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