-----Original Message-----From: Kaldenbach, Tom Sent: Fri 7/6/2012 12:40 PM To: John.Hamrick@cotterusa.com Cc: Pineda, Loretta; Waldron, Tony; <u>steve.nagy@state.co.us</u>; <u>jeff.fugate@state.co.us</u> Subject: Schwartzwalder Mine (M-1977-300), 6-28-12 inspection report and RTB letter

John,

Attached are the inspection report from the 6-28-12 inspection and a related RTB letter.

Tom Kaldenbach Senior Environmental Protection Specialist Colorado Division of Reclamation, Mining and Safety 1313 Sherman St., Room 215 Denver, CO 80203 Phone (303) 866-3567, ext. 8128



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:	MINE/PROSPECTING ID#:	MINERAL:	COUNTY:
Schwartzwalder Mine	M-1977-300	Uranium	Jefferson
INSPECTION TYPE:	INSPECTOR(S):	INSP. DATE:	INSP. TIME:
Monitoring	Tom Kaldenbach	June 28, 2012	13:15
OPERATOR:	OPERATOR REPRESENTATIVE:	TYPE OF OPERATION:	
Cotter Corporation	John Hamrick	112d-2 - Designated Mining Operation	

REASON FOR INSPECTION:	BOND CALCULATION TYPE:	BOND AMOUNT:
Inspection and Enforcement	None	\$2,843,671.63
DATE OF COMPLAINT:	POST INSP. CONTACTS:	JOINT INSP. AGENCY:
NA	None	None
WEATHER:	INSPECTOR'S SIGNATURE:	SIGNATURE DATE:
Cloudy	Tom Kldubs	July 5, 2012

GENERAL INSPECTION TOPICS

This list identifies the environmental and permit parameters inspected and gives a categorical evaluation of each. IF PB or PV IS INDICATED, YOU SHOULD READ THE FOLLOWING PAGES CAREFULLY IN ORDER TO ASSURE COMPLIANCE WITH THE TERMS OF YOUR PERMIT AND APPLICABLE RULES AND REGULATIONS. If PV is indicated, you will be notified under separate cover when the Mined Land Reclamation Board will consider possible enforcement action. 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>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 Y	(TS) TOPSOIL <u>N</u>
(MP) GENL MINE PLAN COMPLIANCE- <u>PV</u>	(FW) FISH & WILDLIFE <u>Y</u>	(RV) REVEGETATION Y
(SM) SIGNS AND MARKERS <u>Y</u>	(SP) STORM WATER MGT PLAN <u>NA</u>	(SB) COMPLETE INSP <u>NA</u>
(ES) OVERBURDEN/DEV. WASTE <u>NA</u>	(SC) EROSION/SEDIMENTATION Y	(RS) RECL PLAN/COMP <u>N</u>
(AT) ACID OR TOXIC MATERIALS <u>N</u>	(OD) OFF-SITE DAMAGE <u>Y</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 on June 28, 2012 by Tom Kaldenbach of DRMS. John Hamrick represented the operator. The inspection was prompted by a phone call that the inspector received at approximately 11:20 on the morning of the inspection from Amory Quinn of Cotter Corporation. In the phone call, Mr. Quinn said Cotter was drilling holes at the Schwartzwalder Mine for a grout curtain that Cotter had recently proposed in their application for TR-20. He said grouting had not yet begun, and he wanted to notify DRMS before grouting begins. A short time after the phone call, the inspector called Mr. Quinn back and told him an inspection would need to be done as soon as possible because DRMS had not yet approved the drilling, and the TR-20 application was still being reviewed. (Cotter had filed the TR-20 application with DRMS on June 22, 2012, starting the maximum 30-day review period specified by Rule 1.9.1).

The inspection began at 1:15 pm. A work crew with drilling and pressure grouting equipment was active near Sump 10, the area of the grout curtain proposed in TR-20 (the "project area"). The operator's representative described the work that had been completed so far as:

- An old core hole had been sealed with grout.
- Seven new 3-inch diameter vertical holes had been drilled on 15-foot spacing, to depths between 35 feet and 40 feet.
- Pressure grouting the new holes had begun after the crew's lunch break.
- Grouting pressure was 1 psi per foot of hole depth.

In the project area, there appeared to be four smaller areas, each measuring a few square feet in area, where clear water was trickling out of the metamorphic bedrock and pooling in low areas. The total flow of water coming out of the rock in the four smaller areas was visually estimated to be between 10 and 50 gpm. Water in the lowest of the pooled areas was being pumped into a 4-inch diameter HDPE pipe that led to the treatment plant approximately 400 feet northwest of the project area. From the treatment plant, the water is piped to the CDPS-permitted discharge into Ralston Creek (Outfall 001A, CDPS permit CO-0001244).

The inspector told the operator's representative that conducting the drilling and grouting work prior to approval of TR-20 gives DRMS a reason to believe a violation has occurred. The operator's representative explained that the drilling and grouting work had begun in advance of TR-20 approval because it was necessary to prevent a violation of the 250 mg/l sulfate standard in Ralston Creek at Outfall 001A. He explained that the water discharging from the rock in the project area had a uranium of approximately 20 mg/l and probable high sulfate concentration as indicated by electroconductivity measurements. He further explained that most of the uranium can be removed from the water at the treatment plant, but the plant has no process for removing sulfate.

The work being performed in the project area appeared to be as proposed in the TR-20 application. The project area is within a previously disturbed area of the mine site where the operator has been excavating alluvial material over the last few months near Sump 10 in an effort to find sources of groundwater seepage. Surface runoff in the project area would be retained within the excavated area.

PERMIT #: M-1977-300 INSPECTOR'S INITIALS: TAK INSPECTION DATE: June 28, 2012

PHOTOGRAPHS



Photo 1 – Grout hole drill rig (left side of photo) and pressure grouting control panel (underneath canopy on right side of photo).



Photo 2 – Grout hole drill rig (on right side of photo).



Photo 3 – Grout hole project area. Water seeping out of ground pools in low area near left side of photo. Water is pumped from that low spot to water treatment plant approximately 400 feet away.



Photo 4 – Water pooled around casing of recently drilled grout hole in grout drilling project area. Water seeps out from around the casing.



Photo 5 – Light-colored material that crosses photo appears to be old grout in current grouting project area.



Photo 6 – Treatment plant discharge into dry channel of Ralston Creek at downstream side of permit area (BPL site).



Photo 7 – Dry channel of Ralston Creek, upstream from BPL monitoring location.



Photo 8 – South waste rock pile.



Photo 9 – Two-cell, concrete –lined pond next to treatment plant.

Inspection Contact Address Mr. John Hamrick

Mr. John Hamrick Cotter Corporation P.O. Box 1750 Canon City, CO 81215

STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106



John W. Hickenlooper Governor

Mike King Executive Director

Loretta E. Piñeda Director

July 5, 2012

Mr. John Hamrick Cotter Corporation P.O. Box 1750 Canon City, CO 81215

Re: Schwartzwalder Mine, DRMS File No. M-1977-300, Reason to Believe a Violation Exists at the Schwartzwalder Mine

Dear Mr. Hamrick:

On June 28, 2012, the Division of Reclamation, Mining and Safety (Division/DRMS) conducted an inspection of the Schwartzwalder Mine and found the following:

The Operator has commenced work proposed in TR-20 prior to DRMS approval of TR-20.

Based on the findings of the inspection we believe that this is a violation of:

- Mineral Rule 1.9, which sets forth the process for submittal, review and approval of technical revisions, and is enforceable pursuant to C.R.S. § 34-32-124; and
- Cotter's Reclamation Permit, which states that "it is a condition of this permit that the operations will be conducted in accordance with ... the provisions of the Act and the Mineral Rules and Regulations..." Violations of a permit are also enforceable pursuant to C.R.S. § 34-32-124.

Therefore, we have reason to believe that a violation exists to DRMS File Number M-1977-300 and to the Mined Land Reclamation Act, C.R.S. § 34-32-101 *et. seq.*, and have scheduled this matter to appear before the Mined Land Reclamation Board.

A Formal Public Hearing will be held during the August 8th and 9th, 2012 Board Meeting for consideration of these possible violations. The hearing will be held in Room 318 of 1313 Sherman Street, Denver, Colorado, beginning at 9:00 a.m. on August 8th or as soon thereafter as the matter can be considered. At that hearing you will have the opportunity to be represented and heard. It will be reiterated that there is reason to believe that you are in violation of the provisions noted above.

If the Board finds a violation at this hearing, it may issue a Cease and Desist Order and/or assess a Civil Penalty in the amount of \$ 100.00 to \$1,000.00 for each day of violation. If you have evidence indicating that the possible violations noted above do not exist or have been corrected, please provide it to us as soon as possible or bring it to the hearing.

Following the hearing, all parties have an opportunity to review and comment on a draft of the Board's order before it becomes final. If you wish to do so, you must provide the Board with a written request to review the draft order prior to or at the time of your hearing, or you must inform the Board orally during the hearing that you request to review the draft order. You must include your mailing address and, if possible, a fax or email address. You will be provided a copy of the draft order by e-mail for your review as soon as it is available, unless a hard copy by mail is requested. The Board's attorney must receive your comments on the draft order within three calendar days of the date the draft order is e-mailed, unless that deadline is extended by the Board's attorney. Submit all comments in writing, by e-mail or fax, to Mr. John Roberts, jj.roberts@state.co.us, Fax: number 303-866-5395. Please note that the Division of Reclamation, Mining and Safety has requested and will be allowed to review and comment on the draft Board Order prior to mailing to any party. The Board will resolve any issues regarding the form and substance of the order. This process does not affect your right to request reconsideration by the Board or appeal the form or substance of the order.

Please contact Sitira Pope of the Division at (303) 866-3567 x8136 on the Friday or Monday prior to the Board Hearing to confirm exactly what day your item will appear before the Board. If you have any questions about this letter or the hearing, please contact Tom Kaldenbach at (303) 866-3567 x8128.

Sincerely,

7 Uneda

Loretta Piñeda Division Director

CERTIFIED MAIL NO. <u>7009 2820 0003 5700 6328</u> Return Receipt Requested

Cc: Tony Waldron, DRMS Tom Kaldenbach, DRMS John Roberts, AGO Jeff Fugate, AGO