



Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Matthew H. Mead, Governor

Todd Parfitt, Director

June 4, 2013

Mr. Ken Garoutte
Cameco Resources
PO Box 1210
Glenrock, WY 82637

**Subject: TFN 5 6/331, Review of East Impoundment Investigation Report
Permit 633, Cameco Resources**

Dear Mr. Garoutte:

The Land Quality Division (LQD) received the referenced report on April 12, 2013. The enclosed review includes comments that will need to be addressed at your earliest convenience.

If you have any questions, contact me at pam.rothwell@wyo.gov or 777-7048.

Sincerely,

Pam Rothwell
District 1 Assistant Supervisor
Land Quality Division

Enclosure

cc: Cameco Resources, Cheyenne, WY
Doug Mandeville, NRC



TFN 5 6/331, Review of Impoundment Leak Investigation Report

Permit 633, Cameco Resources

INTRODUCTION

The Land Quality Division (LQD) received the investigation report on April 12, 2013 as follow-up to the work conducted under the plan that was reviewed and approved by LQD to investigate potential pond seepage into the groundwater. Specifically, the concern was that there may be a contaminant plume as a result of cumulative leaks as reported over the 22 year history, originating from the ponds. Cameco began an investigation in November 2012 to determine if seepage from the ponds was creating a plume of contaminated groundwater.

The investigation consisted of three wells and five backhoe trenches located in the most likely flow paths for contaminated seepage. No water was encountered in the trenches or drill holes. From the results of the investigation, there does not appear to be a plume from the ponds.

There are several items with the report that need to be addressed, before this report is finalized.

COMMENTS

1. Figure 1, Test Pit and Borehole Locations map was not included in the report. Please provide Figure 1. **(SI)**
2. Trench EP-1 encountered concrete, rags, wood, nails and an orange line. The orange line shown in the photo appears to be a pipeline or hose. Please provide additional information regarding this potential disposal site, including authorization and approvals, decommissioning and decontamination records per NRC requirements and the permit shown in the photo appears to be a pipeline or hose. Please provide additional information regarding this potential disposal site, including authorization and approvals, decommissioning and decontamination records per NRC requirements and the permit commitment in Section 6.2.5, Page 6-7A of the Reclamation Plan for Permit #633. **(SI)**
3. Drill hole EP-3 was a redrilled hole. However, the drill hole abandonment report does not show that both holes were plugged and abandoned. Please provide documentation that both drill holes were properly abandoned. **(SI)**
4. To retain the investigation record for the approved investigation plan and the follow-up report it is recommended that the information from the TFN be incorporated into the special volume (Permit 633) *Impoundment Reports*. Please provide and index of change for the insertion of the information from the TFN. **(PCR)**