

TA 120



**Department of Energy**  
National Nuclear Security Administration  
Los Alamos Site Office  
Los Alamos, New Mexico 87544

MAR 02 2004



Mr. Curt Frischkorn  
Ground Water Quality Bureau  
New Mexico Environment Department  
PO Box 26110  
Santa Fe, NM 87502

Mr. John Young  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East  
Building 1  
Santa Fe, NM 87505

Dear Mr. Frischkorn and Mr. Young:

I am transmitting the analytical screening data from the sampling of Workplan Well CdV-16-1(i) drilling and development water. Workplan Well CdV-16-1(i) is located in Canon de Valle. Approximately 20,000 gallons of drilling and development water was recently produced during the construction of CdV-16-1(i). The details are as follows:

**CdV-16-1(i) Drilling and Development Water**

Approximately 20,000 gallons of drilling and development water are being stored in a lined pit at the CdV-16-1(i) drill site. Screening analysis of the pit water produced the following results:

1. No PCBs were detected at concentrations greater than Method Detection Limits (MDLs).
2. No VOAs or SVOAs were detected with the exception of the following:
  - acetone at 290 ppb, and
  - toluene at 37 ppb (NM WQCC gw std=750 ppb, SDWA MCL=1000 ppb)

It is believed that the acetone detected in the pit water is an artifact of the drilling additive, Quickfoam that contains isopropyl alcohol. The source of the toluene is unknown.

3. Gross alpha activity is 4.06 pCi/L (+/-1.32 pCi/L), less than the SDWA MCL of 15 pCi/L.
4. Tritium results were nondetect (MDL=430 pCi/L).
5. No perchlorate was detected in the sample at concentrations greater than 0.989 ppb.



6475

Mr. Frischkorn and Mr. Young

2

6. Analysis of a filtered screening sample showed that no contaminants exceeded NM WQCC Regulation 3103 ground water standards with the exception of the following:
  - Fe=2.2 ppm (NM WQCC ground water std=1.0 ppm)

DOE proposes to land apply the pit water to the mesa top land adjacent to the drill site. The application will be conducted in accordance with the terms and conditions of the Hydrogeologic Workplan NOI. Copies of the analytical reports are attached.

Please contact Bob Beers at (505) 667-7969 (office) or (505) 699-2342 (cell) should you have any questions regarding this notification. This notification will be formally transmitted to you via a letter signed by Mat Johansen, DOE Ground Water Compliance Manager.



Mat Johansen  
Office of Facility Operations

OFO:5MJ-001

Enclosure