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*Date:* October 26, 2007  
*Refer To:* EP2007-0662

James P. Bearzi, Bureau Chief  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87505-6303

**Subject: Review of September 2007 Groundwater Data**

Dear Mr. Bearzi:

The Los Alamos National Laboratory (LANL) Water Stewardship Project (LWSP) met on October 11, 2007, to review new groundwater data received in September 2007. At that time, several groundwater samples were identified with contaminant concentrations above the New Mexico or federal water quality standards. The LWSP deputy program director notified the Hazardous Waste Bureau by telephone on October 11, 2007, and followed up with an email on the same day. The instances of a contaminant above a standard for the first time were as follows.


- The second measurement of perchlorate at Sandia Canyon alluvial well SCA-1 was 6.2 µg/L, above the Consent Order screening level of 4 µg/L using the ion chromatography (IC) method. The result measured by the liquid chromatography/mass spectrometry/mass spectrometry (LC/MS/MS) method was nondetect. The previous IC result was nondetect, and the previous LC/MS/MS was 0.34 µg/L.
- Dissolved iron at Sandia Canyon alluvial well SCA-1 was measured at 1900 µg/L, above the New Mexico groundwater standard of 1000 µg/L.
- In Los Alamos Canyon on San Ildefonso Pueblo, at alluvial well LLAO-1b, nitrate-nitrite as nitrogen was measured at 13.4 mg/L, above the New Mexico groundwater standard of 10 mg/L. Nitrate may be from the Los Alamos County sanitary treatment plant.

- At J. Martinez House Well on San Ildefonso Pueblo, filtered arsenic was measured at 11.9 µg/L, above the U.S. Environmental Protection Agency primary drinking water standard of 10 µg/L; previous unfiltered sample results have been above the standard.

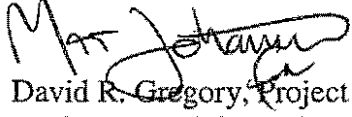
This letter is our written submission that indicates in the accompanying report and tables the contaminants that meet the six screening criteria laid out in the Settlement Agreement and Stipulated Final Order signed by the New Mexico Environment Department, U.S. Department of Energy, and Los Alamos National Security, LLC, on June 14, 2007. To meet the requirements in criteria 1, 3, and 4, the report calls out data that are the first exceedance of a standard, data that are the first exceedance of one-half a standard, and, generally, new detections of organic compounds.

If you have questions, please contact Ardyth Simmons at (505) 665-3935 (asimmons@lanl.gov) or Mat Johansen at (505) 665-5046 (mjohansen@doeal.gov).

Sincerely,

  
Susan G. Stiger, Associate Director  
Environmental Programs  
Los Alamos National Laboratory

Sincerely,

  
David R. Gregory, Project Director  
Environmental Operations  
Los Alamos Site Office

SGS/DRG/PRH/AMS/DBR:sm

Enclosure: Report and accompanying tables: "Summary of New Los Alamos National Laboratory Groundwater Data Loaded in September 2007" (EP2007-0662)

Cy: (w/enc.)

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