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*Date:* JUL 22 2011
*Refer To:* EP2011-0212

John Kieling, Acting Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

**Subject: Review of June 2011 Groundwater Data**

Dear Mr. Kieling:

Members of the Los Alamos National Laboratory Environmental Programs staff met on July 14, 2011, to review new groundwater data received in June 2011. At that time, several groundwater samples were identified with contaminant concentrations above the New Mexico or federal water quality standards.

An Environmental Programs staff member notified the New Mexico Environment Department Hazardous Waste Bureau about these findings by email on July 18, 2011, and followed up with a phone call (voice message).

The eight instances of a contaminant above a standard for the first time (based on samples collected since June 14, 2007) are tabulated in the attached report. These instances are the following:

- Manganese was found in several filtered samples collected on May 3, 2011, from the 1640-ft regional aquifer port of Water Canyon well CdV-R-15-3 at concentrations ranging from 206 µg/L to 223 µg/L; the New Mexico groundwater standard is 200 µg/L. These samples were collected as part of a Westbay evaluation study and are consistent with higher results from earlier samples.
- RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine) was found in unfiltered samples collected on April 20, 2010, at 96.5 µg/L and on July 22, 2010, at 16.1 µg/L from Water Canyon intermediate well 16-26644; the U.S. Environmental Protection Agency tap water screening level is 6.1 µg/L. RDX results from this well have declined to about 2.9 µg/L in samples collected on March 2, 2011. This well was not part of the 2010 Interim Facility-Wide Groundwater Monitoring Plan (and therefore, the data are not included under the Compliance Order on Consent) but will be included in the 2011 plan.

This letter is our written submission that meets notification requirements laid out in Section IV.A.3.g of the Compliance Order on Consent, modified on May 13, 2008. The required information for the chemical constituents that meet the seven screening criteria contained in that section is given in the accompanying report and tables.

If you have questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Hai Shen at (505) 665-5046 (hshen@doeal.gov).

Sincerely,

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,

George J. Rael, Assistant Manager
Environmental Projects Office
Los Alamos Site Office

MG/GR/CD/SP/DR:sm

Enclosure: Two hard copies with electronic files – Summary of New Los Alamos National Laboratory Groundwater Data Loaded in June 2011 (LA-UR-11-3835)

Cy: (w/enc.)
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William Alexander, EP-BPS, MS M992

Cy: (w/o enc.)
Pete Padilla, Los Alamos County Utility Department, Los Alamos, NM
Tom Skibitski, NMED-OB, Santa Fe, NM (date-stamped letter emailed)
Annette Russell, DOE-LASO (date-stamped letter emailed)
David Rogers, EP-ET, MS M992 (date-stamped letter emailed)
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