



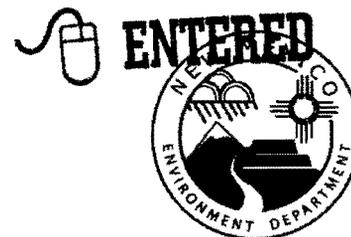
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CERTIFIED MAIL - RETURN RECEIPT REQUESTED

July 22, 2010

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Michael J. Graham
Associate Director Environmental Programs
Los Alamos National Security, LLC
P.O. Box 1663, MS M991
Los Alamos, NM 87545

**RE: APPROVAL
COMPLETION REPORT FOR REGIONAL AQUIFER WELL R-37
LOS ALAMOS NATIONAL LABORATORY
EPA ID #NM0890010515
HWB-LANL-09-075**

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) is in receipt of the Los Alamos National Security, L.L.C. (LANS) and U.S. Department of Energy (DOE) (the Permittees) document entitled *Completion Report for Regional Aquifer Well R-37* (Report) dated September 2009 and referenced by EP2009-0412. NMED hereby approves the Report with the following comments.

- 1) **Section 1.2, page 1:** The statements “[w]ell R-37 screen 1 is 20.7 ft long, positioned from 829.3 to 950.0 ft bgs ...” and “[w]ell R-37 screen 2 is 20.6 ft long and positioned from 1026.0 to 1047.6 ft bgs...” are incorrect. According to the as-built well construction diagram on Fig. 4.2-1, screen 1 is positioned from 929.3 to 950.0 ft bgs and screen 2 is positioned from 1026.0 to 1046.6 ft bgs.
- 2) **Section 2.3, page 15:** The Permittees state that groundwater screening samples that were air-lifted from the first borehole were analyzed for volatile organic compounds (VOCs). However, air-lifted samples are subject to VOC volatilization and are not suitable for VOC analyses. During construction and development of future wells, when groundwater samples are collected for VOC analyses, the Permittees must use sample collection



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techniques that minimize the loss of VOCs (e.g., a bailer with a VOC tip or a submersible pump).

- 3) **Section 2.3, page 15, and Appendix C:** The Permittees state in Section 2.3 that groundwater screening samples from the first borehole were analyzed for VOCs, high explosives and low-level tritium at off-site laboratories. However, analytical results for these constituents are not included in Appendix C (Groundwater Analytical Results). The Permittees must submit to NMED, in writing and in an electronic format, the missing analytical results and an explanation for their exclusion from the Report no later than **August 20, 2010**.
- 4) **Figure 5.3-1:** The figure caption reads "As-built completion schematic for regional aquifer well R-37" but the actual figure appears to be a preliminary schematic of BASKI sampling system for well R-40. The proper caption should read "Typical configuration of BASKI sampling system". In future completion reports, the Permittees must assure that correct figures and captions are used.

No revision of the Report is necessary.

Should you have any questions or comments, please contact Jerzy Kulis at (505) 476-6039.

Sincerely,



James P. Bearzi
Chief
Hazardous Waste Bureau

JPB:jk

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