

SUSANA MARTINEZ Governor

JOHN A. SANCHEZ Lieutenant Governor

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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Deputy Secretary

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Acting Director
Resource Protection Division

EP2013-5116

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

May 28, 2013

Peter Maggiore Assistant Manager, Env. Projects Office Los Alamos Site Office, DOE 3747 West Jemez Rd, MS A316 Los Alamos, NM 87544 Jeffrey D. Mousseau, Associate Director Environmental Programs Los Alamos National Security, L.L.C. P.O. Box 1663, MS M991 Los Alamos, NM 87545

RE: EVALUATION TO DETERMINE THE CAUSE OF REDUCING CONDITIONS OBSERVED IN REGIONAL AQUIFER MONITORING WELLS R-54 AND R-61 LOS ALAMOS NATIONAL LABORATORY EPA ID#NM0890010515 HWB-LANL-GW-MISC

Dear Messrs. Maggiore and Mousseau:

The New Mexico Environment Department (NMED) is in receipt of the United States Department of Energy (DOE) and the Los Alamos National Security, L.L.C.'s (collectively, the Permittees) document entitled *Evaluation to Determine the Cause of Reducing Conditions Observed in Regional Aquifer Monitoring Wells R-54 and R-61* (Evaluation) dated April 11, 2013 and referenced by EP2013-0068. NMED has reviewed the Evaluation along with additional data and information pertinent to the reliability of regional aquifer well R-54 screen 1 (S1) and well R-61, and perched intermediate well R-55i. Based on the condition of regional aquifer well R-61, NMED has required the Permittees to submit a work plan and propose a schedule to replace R-61, including a proposed schedule for completion of the replacement well. The R-61 well-replacement work plan is due **June 14, 2013**.

Similar to well R-61, an extensive water-quality data set collected by the Permittees and NMED indicate that wells R-54 S1 and R-55i are significantly impacted by the presence of hammer oil. The hammer oil was introduced during drilling to the regional aquifer water-table at R-54 and to the perched aquifer at R-55i. Like R-61, the wells do not produce representative groundwater

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samples. The negative impacts to these wells are irreversible, and therefore, wells R-54 S1 and R-55i are not useful as detection monitoring wells as part of the Technical Area 54 groundwater monitoring network.

The Permittees must replace R-54 S1 and R-55i. The Permittees must submit drilling work plans for the installation of the replacement wells to NMED by **July 15, 2013**. The work plans must include schedules for well completion.

Should you have any questions, please contact Michael Dale of my staff at (505) 661-2673.

Sincerely,

John E. Kieling

Chief

Hazardous Waste Bureau

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File: Reading and LANL 2013, Evaluation Reducing Conditions Wells R-54 and R-61

State of New Mexico ENVIRONMENT DEPARTMENT

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