NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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Director
Resource Protection Division

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 17, 2012

Peter Maggiore
Assistant Manager, Env. Projects Office
Los Alamos Site Office, DOE
3747 West Jemez Rd, MS A316
Los Alamos, NM 87544

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

RE: APPROVAL WITH MODIFICATION
COMPLETION REPORT FOR REGIONAL AQUIFER WELL R-62
EPA ID#NM0890010515
HWB-LANL-12-031

Dear Messrs Maggiore and Graham:

The New Mexico Environment Department (NMED) is in receipt of the United States Department of Energy (DOE) and Los Alamos National Security, L.L.C.'s (collectively, the Permittees) document entitled *Completion Report for Regional Aquifer Well R-62* (Report) dated April 2012 and referenced by EP2012-0037. The Report was received on April 19, 2012. NMED has reviewed the Report, and hereby issues this approval with modification.

1. As stated in the Report, two sets of drill casing remain in the R-62 borehole. A 12-inch drill casing was abandoned in place from 50 feet (ft) below ground surface (bgs) to 1004 ft bgs and a second 16-inch drill casing was abandoned in place from 0 ft to 666 ft bgs. Although not ideal, attempts were made to seal the annular space between the 16-inch casing and the borehole wall and the 12-inch casing from approximately 666 ft bgs to 1004 ft bgs. The potential exists for downward leakage (i.e., cross-contamination) along these casings from contaminated perched groundwater at depths 678 ft bgs, 843 ft to 853 ft bgs, and 881 ft to 893 ft bgs. Therefore, the Permittees must closely monitor water levels

and water-quality data from R-62 to identify any communication between the shallow perched aquifers.

2. Water-quality data derived from samples collected during drilling at the perched-aquifer depths 628 ft and 920 ft bgs were not included in Appendix B, *Groundwater Screening Analytical Results,* of the Report. NMED notified the Permittees of the omission through e-mail correspondence on July 17, 2012. On August 27, 2012 the Permittees responded by submitting the document entitled "Submittal of Replacement Appendix B of the R-62 Well Completion Report" dated August 27, 2012 (EP2012-0173). The revised appendix contains the additional data for perched groundwater encountered at depths 628 ft and 920 ft bgs. No revision is necessary.

Please contact Michael Dale at (505) 661-2673 if you have questions.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

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File: Reading and LANL 2012 – R-62 Completion Report