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NEW MEXICO  
ENVIRONMENT DEPARTMENT

ENTERED



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*Hazardous Waste Bureau*

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RON CURRY  
Secretary

SARAH COTTRELL  
Deputy Secretary

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED**

July 2, 2010

George J. Rael  
Environmental Operations Manager  
Los Alamos Site Office  
Department of Energy  
3747 West Jemez Road, MS A316  
Los Alamos, NM 87544

Michael Graham  
Associate Director Environmental Programs  
Los Alamos National Security, L.L.C.  
P.O. Box 1663, MS 991  
Los Alamos, NM 87545

**RE: APPROVAL WITH DIRECTION  
COMPLETION REPORT FOR INTERMEDIATE AQUIFER WELL R-47i  
LOS ALAMOS NATIONAL LABORATORY  
EPA ID#NM0890010515  
HWB-LANL-MISC-GW**

Dear Messrs Rael and Graham:

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 *Completion Report for Intermediate Aquifer Well R-47i* (Report) dated April, 2010 and referenced by EP2010-0076. NMED hereby approves the Report, with the following direction.

Due to the use of large volumes of potable water introduced during well installation activities and the likelihood that bentonite sealant invaded the formation at the screened interval, the Permittees must perform a reliability assessment for well R-47i. The assessment must determine if well R-47i is capable of producing representative groundwater samples and identify any potential effects from well installation on sample quality. The Permittees shall submit a work plan that, at a minimum, describes the methods for purging and collection of samples, all proposed field and laboratory analytical tests, the methodology to assess the representativeness of groundwater samples and a proposed schedule for implementation of the assessment. The work plan must be submitted to NMED no later than **August 9, 2010**.

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Messrs. Rael and Graham

July 2, 2010

Page 2

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

Sincerely,



James P. Bearzi

Chief

Hazardous Waste Bureau

JPB:md

cc: D. Cobrain, NMED HWB  
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File: '10 Reading and LANL Groundwater General, R-47i Completion Report