



SUSANA MARTINEZ  
Governor

JOHN A. SANCHEZ  
Lieutenant Governor

**NEW MEXICO  
ENVIRONMENT DEPARTMENT**

**2905 Rodeo Park Drive East, Building 1  
Santa Fe, New Mexico 87505-6303  
Phone (505) 476-6000 Fax (505) 476-6030  
www.env.nm.gov**



BUTCH TONGATE  
Cabinet Secretary

J. C. BORREGO  
Acting Deputy Secretary

**CERTIFIED MAIL – RETURN RECEIPT REQUESTED**

October 11, 2016

Doug Hintze, Manager  
U.S. Department of Energy  
EM-Los Alamos Field Office, DOE  
3747 West Jemez Rd, MS A316  
Los Alamos, NM 87544

Michael T. Brandt, Associate Director  
Environment, Safety, and Health  
Los Alamos National Laboratory  
P.O. Box 1663, MS M991  
Los Alamos, NM 87545

**RE: PERIODIC MONITORING REPORT FOR  
WHITE ROCK CANYON GENERAL  
SURVEILLANCE MONITORING GROUP,  
FIRST QUARTER, MONITORING YEAR 2016  
LOS ALAMOS NATIONAL LABORATORY  
EPA ID#NM0890010515  
HWB-LANL-16-013**

Dear Messrs. Hintze and Brandt:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security, L.L.C.'s (LANS) (collectively, the Permittees) *Periodic Monitoring Report for White Rock Canyon General Surveillance Monitoring Group, First Quarter, Monitoring Year 2016* (Report), dated February 2016 and referenced by LA-UR-15-29605/EP2015-0208. The Report was received on February 26, 2016. NMED has reviewed the Report and has noted the following:

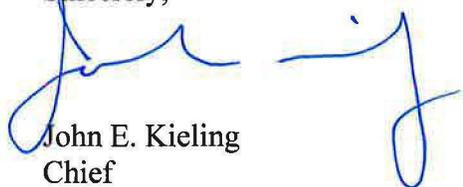
1. Gross alpha and gross beta activity was detected at several sampling locations where no activity was detected during the four previous monitoring events. Gross alpha detections are reported at Spring 3A (11.3 pCi/L), Spring 5 (7.38 pCi/L), Spring 6 (1.95 pCi/L), and Spring 9 (6.31 pCi/L). Gross beta detections are reported at Spring 5A (12 pCi/L) and Spring 9A (8.6 pCi/L).

U1602056

2. Several analytes were detected above screening levels at various locations but were not reported in Section 5.2, Analytical Results or Table 4.2-3, Groundwater Results Above Screening Levels. Tin was detected above the screening level (3.26 mg/L) at Spring 3A (3.84 mg/L), Spring 4AA (11.8 mg/L), and Spring 6 (27.1 mg/L). Total Dissolved Solids were detected above the screening level (191.7 mg/L) at Spring 4 (239 mg/L) and Spring 4B (261 mg/L). Zinc was detected above the screening level (3.89 mg/L) at Ancho Spring (4.46 mg/L). Chloride was detected above the screening level (3.57 mg/L) at Spring 4b (8.83 mg/L). These analytes were reported in the Permittees' Monthly Notification of Groundwater Data Reviewed in December 2015 (LA-UR-15-29389) dated December 15, 2015.

Detections such as those referenced above must be discussed in the Permittees' Periodic Monitoring Reports. Please contact Robert Murphy at (505) 476-6022 should you have any questions or comments.

Sincerely,



John E. Kieling  
Chief

Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB  
N. Dhawan, NMED HWB  
M. Dale, NMED HWB  
R. Murphy, NMED HWB  
S. Yanicak, NMED DOE OB, MS M894  
L. King, EPA Region 6, Dallas, TX  
R. Martinez, San Ildefonso Pueblo  
D. Chavarria, Santa Clara Pueblo  
H. Shen, DOE-EM-LA  
S. Paris, ADEM ER, MS M992  
B. Robinson, ADEM ER  
D. Rhodes, DOE-EM-LA  
J. Buckley, EPC-CP, MS K490  
R. Erickson, ADEM, MS J910  
J. McCann, EPC-DO, MS K491  
S. Martinez, ADEM, MS M992

File: Reading and LANL 2016, Groundwater, White Rock Canyon General Surveillance Monitoring Group, First Quarter; LANL 16-013

U1602056