

# Los Alamos National Laboratory

UNIVERSITY OF CALIFORNIA



Environmental Restoration Project  
MS M992  
Los Alamos, New Mexico 87545  
505-667-0808/FAX 505-665-4747

Date: May 21, 1999  
Refer to: EM/ER:99-139



*Kiely*

Mr. James Bearzi  
NMED-HRMB  
P.O. Box 26110  
Santa Fe, NM 87502

**SUBJECT: CANYONS FOCUS AREA DRILLING ACTIVITIES AT R-31 IN NORTH ANCHO CANYON**

Dear Mr. Bearzi:

Canyons Focus Area will begin drilling one borehole for installation of a deep (900 feet) regional groundwater characterization well, R-31, in North Ancho Canyon. Phase I activity is scheduled to begin on or about June 7, 1999, through July 1, 1999, and drill to approximately 200 feet. Phase II activities will begin on or about July 19, 1999, through approximately September 15, 1999, and drill to completion. This well is being installed as part of the Laboratory's Hydrogeologic Work Plan.

Samples will be collected as shown in the table enclosed. If you have any questions, please feel free to call me at (505) 667-0819.

Sincerely,

A handwritten signature in black ink, appearing to read "David McInroy".

David McInroy  
Environmental Restoration Project

DM/RB/ev

Enclosure: Drilling Activities at R-31, North Ancho Canyon



HswA LANC 4/10/99/A

*TV*

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## DRILLING ACTIVITIES AT R-31

Location	Number of Samples	Sample Type	Analyses
Well R-31	21	Core (Contaminants and Geo-chemical)	Gross Radiological Screening Radionuclides $^3\text{H}$ , $^{90}\text{Sr}$ , $^{241}\text{Am}$ , $^{234}\text{U}$ , $^{235}\text{U}$ , $^{236}\text{U}$ , $^{238}\text{U}$ , $^{238}\text{Pu}$ , and $^{239/240}\text{Pu}$ Inorganics (Full Suite plus additional) Anions VOCs (based on field screening) SVOCs (based on field screening) HE
Well R-31	TBD	Core (Geotechnical)	Selected core samples will be analyzed for some or all of the following: Particle size and texture (<2mm) In-Situ Water Content Porosity (<2mm) Particle Density (<2mm) Bulk Density Sat. Hydraulic Conductivity by Air and Water Water Retention Curve
Well R-31	TBD	Core (Hydrologic)	Stable Isotopes Unsaturated Flow Apparatus Low Level Tritium
Well R-31	TBD	Core (Geologic)	Mineralogy (as needed) Modal Petrography (as needed) XRF/XRD (as needed)
Well R-31	4	Groundwater	Major Cations and Anions (dissolved) Trace Elements and Metals (dissolved) Trace Elements and Metals (total) Nutrients-Nitrogen Species (dissolved) Radionuclides (dissolved) Radionuclides (total) Stable Isotopes Tritium Tritium (low level) Dissolved Organic Carbon Total Organic Carbon VOCs SVOCs Other Inorganics HE