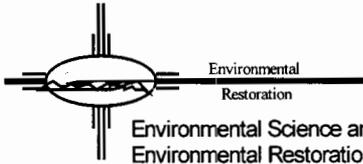


Los Alamos National Laboratory

UNIVERSITY OF CALIFORNIA



Environmental Science and Waste Technology (E)
Environmental Restoration, MS M992
Los Alamos, New Mexico 87545
505-667-0808/FAX 505-665-4747

Date: August 11, 1999
Refer to: E/ER:99-210



Mr. John Kieling
NMED-HRMB
P.O. Box 26110
Santa Fe, NM 87502

SUBJECT: R-9 COMPLETION AND SAMPLING NOTIFICATION

Dear Mr. Kieling:

The Laboratory's Environmental Restoration Project is planning to return to regional groundwater characterization well R-9 for removal of the existing, temporary well casing, deepening of the borehole by approximately 50 ft, and installing the permanent well casing. Activities will begin on or about August 23, 1999, through approximately September 10, 1999. The R-9 borehole was "parked" with a temporary, PVC well casing at a depth of 710 ft in February 1998. The well will be developed and sampled following completion. Regional groundwater characterization well R-9 is located in upper Los Alamos Canyon, at the eastern boundary of the Laboratory, west of State Road 4.

Samples will be collected as shown in the table below.

Plan/ Document	Location	Number of Samples	Sample Type	Analyses
Hydrogeologic Work Plan LAAME:6 BK-010 ESH-18/WQ& H-97-0014	Well R-9	2	Cuttings (Contaminants)	Gross Radiological Screening Gamma Spectroscopy Radionuclides: ^3H , ^{90}Sr , ^{241}Am , ^{234}U , ^{235}U , ^{236}U , ^{238}U , ^{238}Pu , and $^{239/240}\text{Pu}$ Inorganics (Full Suite plus additional) Anions VOCs (based on field screening) SVOCs (based on field screening)

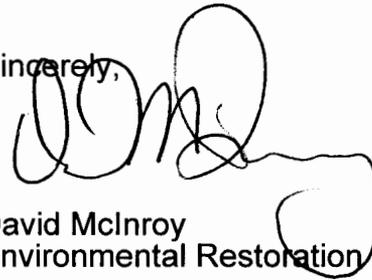


HSWA LANL 4/1049/L

Plan/ Document	Location	Number of Samples	Sample Type	Analyses
	Well R-9	2	Cuttings (Geologic)	Mineralogy (as needed) Modal Petrography (as needed) Chemistry (as needed)
	Well R-9	2	Cuttings (Geotechnical)	Selected cuttings samples will be analyzed for one or more 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-9	1	Groundwater	Major Cations and Anions Radionuclides Stable Isotopes (oxygen, hydrogen, nitrogen) TAL Metals plus U Tritium Tritium (low level) Dissolved Organic Carbon fractionation/humic acid VOCs SVOCs High Explosives

If you have any questions or concerns please feel free to give me a call at
(505) 667-0819.

Sincerely,



David McInroy
Environmental Restoration Project

DM/RB/ev

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