

ORIGINAL
ENVIRONMENTAL
RESTORATION
PROJECT

Los Alamos National Laboratory/University of California
Environmental Science and Waste Technology (E)
Environmental Restoration (ER) Project, MS M992
Los Alamos, New Mexico 87545
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Date: December 4, 2001
Refer to: ER2001-1003

Mr. John Young, Corrective Action Project Leader
Permits Management Program
NMED – Hazardous Waste Bureau
2905 Rodeo Park Drive East
Building 1
Santa Fe, NM 87505-6303



**SUBJECT: SAMPLING NOTIFICATION FOR MATERIAL DISPOSAL AREA H, POTENTIAL
RELEASE SITE 54-004**

Dear Mr. Young:

During the week of December 17, 2001, the Los Alamos National Laboratory (LANL) Environmental Restoration (ER) Project is planning to collect soil vapor samples at Material Disposal Area H (MDA H), Technical Area 54 (TA-54) in accordance with the December 3, 2001 letter received from the New Mexico Environment Department Hazardous Waste Bureau (NMED-HWB), "Additional Fieldwork at MDA H, PRS 54-004," (HWB-LANL-01-001). Screening, clean out and sampling activities will be conducted at three boreholes currently located in the vicinity of MDA H. The boreholes identified as 54-1023, 54-15461 and 54-15462 were drilled in 1995 and 2001 and remain open; however, the bottom of each hole contains drilling debris or slough. Prior to initiation of airlift activities to remove the slough, a straddle packer system will be used to measure the concentrations of CO₂ and O₂ at the specified sample location depths and the available bottom of each borehole. The airlift system will then be used to remove the slough from the bottom of each borehole. Upon completion of the airlift of the slough from each borehole the vacuum will be applied to each borehole for thirty minutes to provide a purge of any remaining ambient air in the borehole and the surrounding matrix pore space. Prior to vapor sampling, the initial CO₂ and O₂ measurements will be repeated to confirm re-equilibration of soil vapor. The adequacy of borehole conditions will be confirmed with NMED-HWB staff prior to sample collection. Soil vapor samples will be collected after conditions are confirmed and in accordance with methods described in the "Plan for Supplemental Sampling for the RCRA Facility Investigation at Material Disposal Area H" dated May 2001 (LA-UR-01-2516). The borehole soil vapor samples will be analyzed for VOCs and tritium.



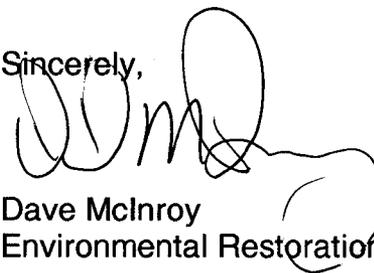
NSWA LANL 5/11/8/54

The ER Project will verbally confirm and/or notify NMED-HWB staff of any changes to the schedule. Results from the sampling will be presented in an Addendum to the MDA H RFI report. The sampling approach is described in Table 1 of the "Plan for Supplemental Sampling for the RCRA Facility Investigation at Material Disposal Area H," (LA-UR-01-2516) and summarized in the following table, which indicates the minimum number of samples to be collected:

Applicable Plans/Documents	Location	Number of Samples	Sample Type	Analyses
1. Request for Supplemental Information Response for TA-54, MDA H, Resources Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Report Material Disposal Area H (MDA H), Technical Area 54 (TA-54) (LA-UR-01-1208)	TA-54, PRS 54-004, MDA-H	8	Absorbent columns (1 from 50' and 100' from each borehole, and from the Cerro Toledo in boreholes 54-1023 and 54-15462)	Tritium (liquid scintillation)
2. Plan for Supplemental Sampling for the RCRA Facility Investigation at Material Disposal Area H, (LA-UR-01-2516)		8	SUMMA Canister ((1 from 50' and 100' from each borehole, and from the Cerro Toledo in boreholes 54-1023 and 54-15462)	VOCs
3. Request for Additional Fieldwork at MDA H, PRS 54-004, HWB-LANL-01-001				

If you have any questions or concerns please feel free to give me a call at (505) 665-4557.

Sincerely,



Dave McInroy
Environmental Restoration Project

DM/PB/rw

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