



**Kathryn Chamberlain**

**From:** John K. Hopkins [johnhopkins@lanl.gov]  
**Sent:** Wednesday, January 26, 2005 8:38 AM  
**To:** 'Kathryn Chamberlain'  
**Cc:** 'Gabriela Lopez-Escobedo'; 'John Young'; 'Dave Cobrain'; 'David Gregory'; 'Lance Woodworth'; etl@lanl.gov; cenglish@lanl.gov; 'Paula Bertino'; 'Kent Rich'  
**Subject:** RE: Characterization/waste sampling at TA-50

Katie

The text below summarizes the 2003/2004 sampling activities conducted at TA-50 to characterize SWMUs 50-004(c) and 50-011(a) that was based on the "Sampling and Analysis Plan Addendum to the OU1147 Work Plan for Waste Lines and Septic System, SWMUs 50-004(c) & 50-011(a) at TA-50" submitted to NMED on July 8, 2003. Data from these sampling events as well as data from previous RFIs will be used to generate an Investigation Report this fiscal year, as detailed in the draft Consent Order.

**SWMU 50-004(c):**

- Nine boreholes were drilled at TA-50 between June and October 2003 to characterize SWMU 50-004(c). Data from these sampling events have been validated and are available in the ERDB. Initial review of the data indicates sporadic detections of some inorganic and radiological analytes slightly exceeding their respective BV/FV.

**SWMU 50-011(a):**

- 2004 sampling activities. Two boreholes were drilled near the infiltration shaft and eight surface samples were collected from the bottom of the TA-50 Pump House and Influent Storage Tank excavation (approximately 25ft bgs) to characterize SWMU 50-011(a). Six of the surface samples were collected directly from the gravelly material making up the infiltration shaft, and two of the samples were collected from the tuff immediately adjacent to the shaft. Data from these sampling events have not yet been validated and are not available in the ERDB. Review of the preliminary, unvalidated data does not indicate the presence of VOCs.

In addition, eight boreholes were drilled in the vicinity of SWMU 50-011(a) to provide waste characterize information on the subsurface materials at the location of the TA-50 Pump House and Influent Storage Tank. The analytical results show the presence of some contaminants at extremely low concentrations within the construction area. A few metals were detected in tuffs above BV, but well below the regulatory limit for hazardous waste. Low concentrations of SVOCs in the form of polycyclic aromatic hydrocarbons (PAH) were found in one shallow sample adjacent to an asphalt road, and are likely associated with the asphalt and/or auto exhaust. Sporadic, low concentration detections of Aroclor 1260 were found with the highest detection of 0.35 mg/kg. The most pervasive contamination was found to be low concentrations of radionuclides above their respective BV/FV in both the soil/fill and tuff.

Please let me know if you have any questions.

John

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**From:** Kathryn Chamberlain [mailto:kathryn\_chamberlain@nmenv.state.nm.us]  
**Sent:** Monday, January 24, 2005 8:58 AM  
**To:** John Hopkins  
**Cc:** Gabriela Lopez-Escobedo; John Young; Dave Cobrain; David Gregory; Lance Woodworth; etl@lanl.gov; cenglish@lanl.gov; Paula Bertino; Kent Rich  
**Subject:** Characterization/waste sampling at TA-50

John,

Hi John. I am writing to inquire about sampling results associated with SWMUs 50-004(c) and 50-011(a) as well as the characterization sampling of the material excavated for the influent storage tank vault adjacent to the RLWTF. I was informed that all of the material excavated was characterized and disposed of at Area G. If that's the case, we would like to know when that sampling was completed. In addition, were samples taken from the bottom or sidewalls of the excavation? With the tank vault's close proximity to MDA C, we were curious whether VOCs or other vapor phase contamination had migrated in that direction. Also, how will these sampling results be reported? If it's possible, we would like a copy of the results up front, as it may pertain to our comments on the MDA C Work Plan.

If you have any information regarding these questions, it would be greatly appreciated.

Thanks,  
Katie

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