



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

DEPARTMENT OF ENERGY
MAY 11 1993
OFFICE OF THE DIRECTOR

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MAY 6 1993

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LANL HSWA F U / O U / 1079 TA-10

Mr. Jerry L. Bellows
Area Manager
Department of Energy
Los Alamos Area Office
Los Alamos, New Mexico 87544

Re: Revised Subsurface Sampling Plan for Former Technical Area 10
(Bayo Canyon)
Los Alamos National Laboratory
NM0890010515

DXIT

Dear Mr. Bellows:

The Environmental Protection Agency (EPA) hereby approves your Revised Subsurface Sampling Plan for Former Technical Area 10 (TA-10) (Bayo Canyon) dated March 15, 1993, with the enclosed modifications. You shall immediately initiate the implementation of this approved work plan.

If you have any questions, please contact Barbara Driscoll of my staff at (214) 655-7441.

Sincerely yours,

Allyn M. Davis, Director
Hazardous Waste Management Division

Enclosure

cc: Kathleen Sisneros, NMED
Al Tiedman, LANL, MS-A120



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Modifications

1. **1.1.2 Decision Process, p. R1-2** - Currently, the Region allows the use of a base-line risk assessment during a Corrective Measure Study (CMS) for determination of No Further Action (NFA), and not prior to the CMS.

2. LANL shall analyze all boreholes for metals using SW 846 method 6010 which includes beryllium and lead, rather than TAL metals. Also each sample should be analyzed for volatiles with SW 846 method 8240.

3. **1.1.6.1 SWMU 10-003 (a-o), Array 2 p. R1-10** - The rationale for using arrays is not defined in the work plan. In Array 2, the farthest south and west boreholes may not be required to define extent of the plume. It would be preferable to move the farthest west borehole approximately 20 feet from the center of Array 1 in a southeast direction.

In Array 3, LANL shall place a borehole between the possible plume and the intermittent stream. The boreholes currently proposed do not adequately define the plume. It is especially important to define the extent of the plume in relation to the intermittent stream.

4. **1.1.7.2 Sample Collection, p. R1-18** - At least four samples from each borehole will be taken. Rather than select a sample at random from samples taken below 10 feet, take a sample where the second highest field screening for organics is indicated or if no organics are detected by field screening then randomly choose a sample as indicated in the work plan. Analysis should be conducted as indicated in Modification 2.

5. **1.2.6.1 SWMU 10-004(a) Septic tank for Personnel Building, TA-10-40 p. R1-21** - LANL may choose to only drill and sample the central boreholes for the septic tank and the leach field, and then drill other boreholes based on the results of the initial sampling. If contamination is found, then the extent of the release will need to be defined; otherwise, the additional boreholes may not be necessary. Depending on field screening, as well as mobilization and demobilization costs, LANL may choose to drill and sample all boreholes at once.

6. **Section 1.3 Field Screening of Samples, p. R1-27** - All samples should be field screened for volatile organic vapors.