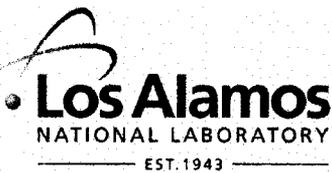


LANL JA 73



Los Alamos National Laboratory/University of California  
Risk Reduction & Environmental Stewardship (RRES)  
Remediation Services (RS), MS M992  
Los Alamos, New Mexico 87545  
(505) 667-0808/FAX (505) 665-4747

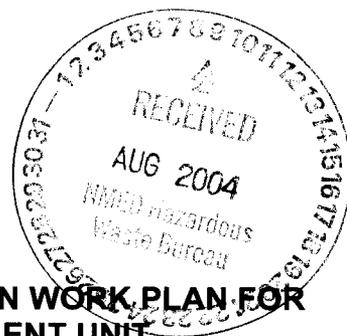


National Nuclear Security Administration  
Los Alamos Site Operations, MS A316  
Environmental Restoration Program  
Los Alamos, New Mexico 87544  
(505) 667-7203/FAX (505) 665-4504

Date: August 4, 2004

Refer To: ER2004-0423

Mr. James Bearzi, Chief  
NMED – Hazardous Waste Bureau  
2905 Rodeo Park Drive East  
Building 1  
Santa Fe, NM 87505-6303



**SUBJECT: SUBMITTAL OF SITE CONTROL AND STABILIZATION WORK PLAN FOR INCINERATOR ASH PILE (SOLID WASTE MANAGEMENT UNIT 73-002), LOS ALAMOS NATIONAL LABORATORY, EPA ID# NM0890010515**

Dear Mr. Bearzi:

Attached are two copies of the LANL Risk Reduction and Environmental Stewardship– Remediation Services (RRES-RS) Project’s Site Control and Stabilization Work Plan for Incinerator Ash Pile (SWMU 73-002), in response to your request dated June 30, 2004. The Department of Energy and Los Alamos Site Operations Office received this request on July 9, 2004.

If you have any questions, please contact William Criswell at (505) 665-5886 or <sup>Bob</sup> Lance ~~Woodworth~~ at (505) ~~665-5820~~.

Enz 667-7640

Sincerely,

David McInroy, Deputy Project Director  
Remediation Services  
Los Alamos National Laboratory

Sincerely,

David Gregory, Federal Project Director  
Department of Energy  
Los Alamos Site Operations

DM/DG/WC/th



Attachment: Site Control & Stabilization Work Plan for Incinerator Ash Pile (SWMU 73-002).  
Map with current and proposed BMP conditions.

Cy:(w/ attach.)

W. Criswell, RRES-RS, MS M992  
A. Dorries, RRES-ECR, MS M992  
D. Hickmott, EES-6, MS M992  
E. Rainey, RRES-ECR, MS M992  
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D. Gregory, LASO, MS A316  
E. Alcon, SHAW, MS M892  
J. Schoeppner, NMED-GWQB  
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S. Yanicak, NMED-OB, MS J993  
M. Leavitt, NMED-SWQB  
L. King, EPA Region 6  
RRES-RS File, MS M992  
IM-5, MS A150  
RPF MS M707

Cy:(w/o attach.)

D. McInroy, RRES-RS, MS M992  
B. Rich, ADO, MS A104  
J. Bearzi, NMED-HWB  
C. Voorhees, NMED-OB

# **Site Control and Stabilization Work Plan for the TA-73 Incinerator Ash Pile (Solid Waste Management Unit 73-002)**

## **Introduction**

Solid Waste Management Unit (SWMU) 73-002, also referred to as the Technical Area (TA) 73 incinerator ash pile, is located north of the main building of the Los Alamos Airport and building No. 73-2. This area is part of a Department of Energy (DOE) land transfer parcel that will be transferred to Los Alamos County upon completion of all remediation efforts at TA-73, in accordance with Public Law 105-119. The site can be accessed from the airport parking area or by an access road that begins approximately 200 ft west of the site. The SWMU boundary begins just north of building 73-2 and covers an area of approximately 100 ft x 200 ft on the north slope of the canyon wall (see Figure 1). Within the area, ash and rusted cans from historic operations are visible. Over the past several years, control of the site has been difficult to maintain, due to unrestricted pedestrian traffic and Los Alamos County management of the airport facility. Several best management practice (BMP) erosion control measures have been installed and maintained to divert stormwater flow away from SWMU 73-002. The controls have been largely effective with periodic maintenance. Recently, however, there has been increased traffic in the area which has resulted in significant damage to the BMP controls.

## **Current Problem**

This site has an ongoing problem with unrestricted public access and vehicle traffic due to both activities on nearby county land and at the Los Alamos Airport. The ongoing Los Alamos County tree thinning activities east of SWMU 73-002 have severely damaged the existing run-on diversion berms as a result of repeated crossings by heavy construction equipment.

During heavy storm events, stormwater runs onto the site from the airport asphalt parking area and the access road west of the area behind building 73-2.

## **Current Site Control**

The current site controls include an 8-ft high temporary chain link fence along the edge of the access road adjacent to the slope where the ash is located, check dams and rock-lined drainages from the asphalt parking area on both the east and west sides of building 73-2, earthen berms from the drainages across the access roads at both ends of the site boundary, and earthen berms and sand bags along the edge of the canyon rim to prevent direct stormwater run-on to the ash pile. The chain link fence is present to minimize the unrestricted public access to the ash itself and does not impact or control the stormwater flow.

Maintenance work was most recently conducted on July 6, 2004, to repair the stormwater run-on diversion berms located directly north of building 73-2, above the ash pile. The berms were reconstructed using base course along the access road just northwest and northeast of building 73-2. Straw wattles were also installed along the upper edge of the mesa top (where sandbags previously were used). The recent maintenance on the berms and channels directs potential run-on away from the ash pile. The measures are effective and are expected to remain effective with periodic maintenance until the SWMU can be remediated by DOE in CY04.

## **Stabilization Plan**

DOE will complete remediation of the ash pile by December 31, 2004, thereby eliminating the need for long-term stabilization and run-on/runoff control measures. In the event that remediation is delayed, DOE will place additional access controls. In the interim prior to remediation, the following measures will be implemented:

- Los Alamos County will place a lock and chain at the access road entrance west of site by August 31, 2004.
- DOE will install signs at the boundary of the site to warn hikers of potential contaminants in the ash pile.
- DOE has ordered jersey barriers to be installed as a run-on control (30–60-day delivery time expected) that can be removed during site remediation. The barriers will be installed at the edge of the mesa top above the ash pile to divert stormwater flow around the boundary of the SWMU.
- DOE will continue to inspect and maintain erosion controls at SWMU 73-002 monthly until the site is remediated and has been finally stabilized.
- Los Alamos National Laboratory's Surface Water Assessment Team (SWAT) will coordinate these interim measures for assurance that actions are conducted in accordance with this plan. The SWAT will also schedule site field visits and make other recommendations as necessary for the site.

Figure 1 shows the locations of SWMU 73-002, local structures, fences, the access road, the proposed location of the chain/lock, stormwater flow direction, proposed and existing run-on diversion berms, proposed jersey barriers, and other site information.

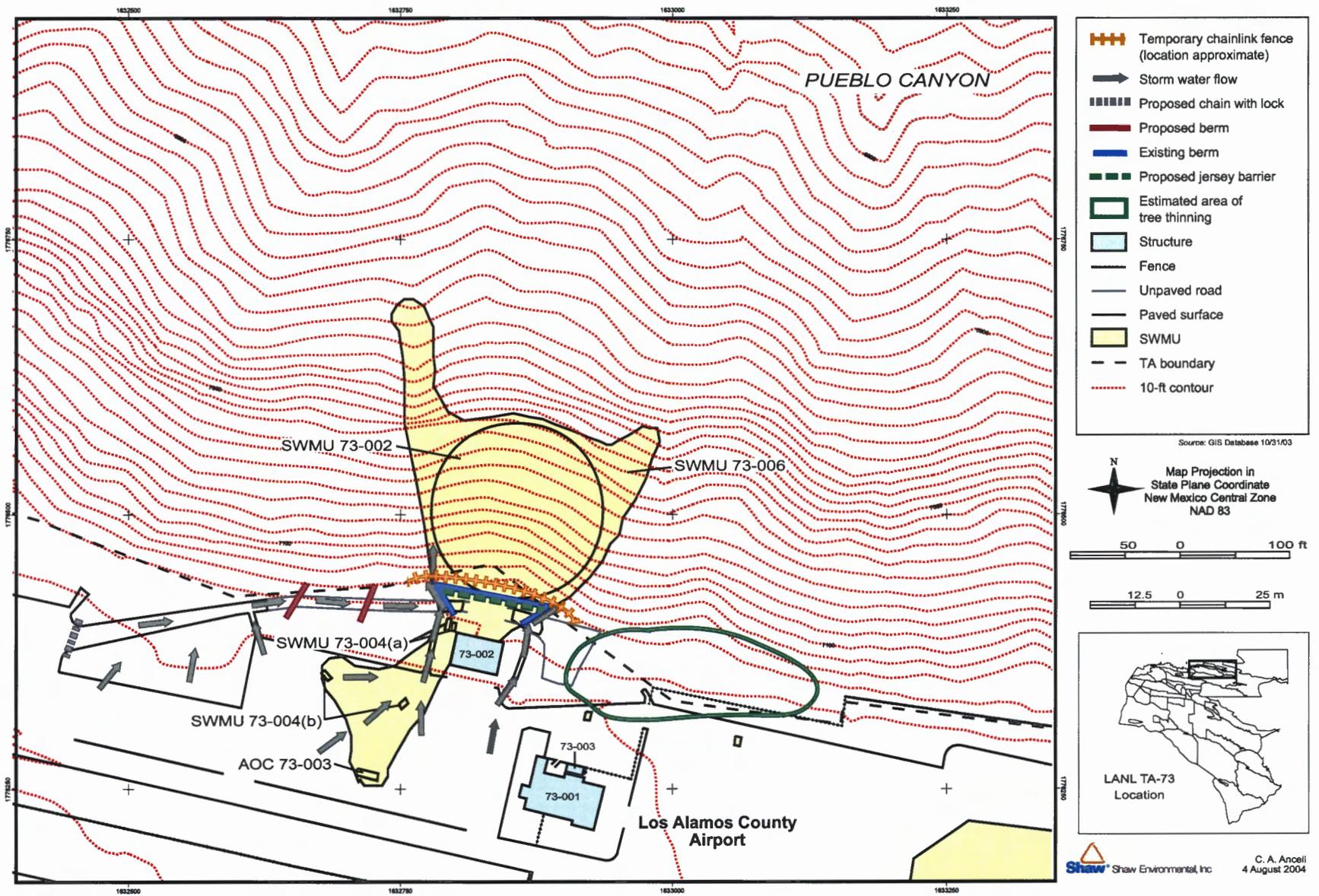


Figure 1. Current and proposed BMP conditions