TA-16

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Date: January 25, 2005
Refer To: ER2005-0045

Ms. Darlene Goering
NMED – Hazardous Waste Bureau
2905 Rodeo Park Drive East
Building 1
Santa Fe, NM 87505-6303

RECEIVED
FEB 2005
NMED Hazardous
Waste Bureau

SUBJECT: VERIFICATION DATA FROM SOLID WASTE MANAGEMENT UNIT (SWMU) 16-020

Dear Ms. Goering:

Per your 1/11/05 e-mail request, attached is a CD containing the verification data from Solid Waste Management Unit (SWMU) 16-020, that is also known as the silver outfall. As discussed in our January 10, 2005 meeting, these data represent a preliminary data pull, without full quality assurance (QA) review by Los Alamos National Laboratory (LANL) chemists. These data are being provided for informational purposes only. Note that the 'Std_sample_value' column represents the analyte concentration as determined by chemical analysis and the 'FU4_Qual' column represents the final data qualifier. The locations of the sampling points associated with these data are described in Table 1.

These data represent soil samples that were collected in 2000, following a voluntary soil clean up effort performed after the Cerro Grande fire in order to minimize contaminant migration that could have been induced by post-fire flooding and erosion. Data collected in 1995 had shown elevated levels of silver, chromium, and PAHs in the soil associated with the silver outfall. Using x-ray fluorescence (XRF) screening and PAH screening, approximately 200 cubic yards of soil were excavated, characterized for waste disposition, and disposed of at an appropriate disposal facility. XRF and PAH soil test kits were used following soil removal to bias verification sampling locations. Twenty-two verification samples were collected, including 2 duplicates. Site restoration included regrading and installation of best management practices (BMPs) in the outfall area, to further minimize the possibility of erosive mobilization of remaining contaminants into Canon de Valle. This cleanup, and other post-fire cleanup activities, was instituted in close collaboration with New Mexico Environment Department (NMED) staff members. In the case of the silver outfall, Ms. Eliza Frank was the NMED staff member involved in the project.

If you have any questions or require additional materials on this site, please contact Mr. Donald Hickmott at 667-8753 or Mr. Lance Woodworth at 665-5820.

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/DH/jr

Enclosures: Verification CD

Cy:(w/enc)
A. Dorries, ENV-ECR, MS M992
E. Rainey, ENV-ECR, MS M992
ENV-RS File, MS M992
IM-9, MS A150
RPF MS M707
S-7

Cy:(w/o enclosure)
D. McInroy, ENV-RS, MS M992
B. Criswell, ENV-RS, MS M992
G. Lopez-Escobedo, ENV-RS, MS M992
B. Rich, ADO, MS A104
D. Gregory, LASO, MS A316
J. Bearzi, NMED-HWB
J. Kieling, NMED-HWB
L. King, EPA Region 6
M. Leavitt, NMED-SWQB
J. Schoeppner, NMED-GWQB
C. Voorhees, NMED-OB
S. Yanicak, NMED-OB

Table 1- Sample Locations for Verification Samples at Solid Waste Management Unit (SWMU) 16-020, the silver outfall.

Analytical Sample ID	Location ID	Sample Location	
RE16-00-0300	16-06562	400' North, Surface to 6"	
RE16-00-0301	16-06562	400' North, ~24" deep	
RE16-00-0302	16-06555	500' Center, Surface to 6"	
RE16-00-0303	16-05555	500' Center, ~24" deep	
RE16-00-0304	16-06542	700' South, Surface to 6"	
RE16-00-0305	16-06542	700' South, ~24" deep	
RE16-00-0306	16-06583	75' West, Surface to 6"	
RE16-00-0307	16-06583	75' West, ~24" deep	
RE16-00-0308	16-06587	25' East, Surface to 6"	
RE16-00-0309	16-06587	25' East, ~24" deep	
RE16-00-0310	16-06588	25' Center, Surface to 6"	
RE16-00-0311	16-06588	25' Center, ~24" deep	
RE16-00-0312	16-06591	0' Center, Surface to 6"	
RE16-00-0313	16-06591	0' Center, ~24" deep	
RE16-00-0314	16-06573	200' Center, Surface to 6"	
RE16-00-0315	16-06573	200' Center, ~24" deep	
RE16-00-0316	16-06568	300' North, Surface to 6"	
RE16-00-0317	16-06568	300' North, ~24" deep	
RE16-00-0318	16-06568	300' North, Surface to 6"	duplicate
RE16-00-0319	16-06568	300' North, ~24" deep	duplicate
RE16-00-0320	16-06564	350' Center, Surface to 6"	
RE16-00-0321	16-06564	350' Center, ~24" deep	
***distances are distance from outfall			
*** Center, North, South, East, West refer to location in drainage, e.g. center of drainage, east side of drainage etc.			

Sample ID	Location ID	Depth (ft)	Media	METALS	High-Explosive	SVOCs	VOCs	
PRS								
RE16-00-0300	16-06562	0-0.5	Soil	7725R	7726R	7724R	7724R	
RE16-00-0301	16-06562	0-2	Soil	7725R	7726R	7724R	7724R	
RE16-00-0302	16-06555	0-0.5	Soil	7725R	7726R	7724R	7724R	
RE16-00-0303	16-06555	0-2	Soil	7725R	7726R	7724R	7724R	
RE16-00-0304	16-06542	0-0.5	Soil	7725R	7726R	7724R	7724R	
RE16-00-0305	16-06542	0-2	Soil	7725R	7726R	7724R	7724R	
RE16-00-0306	16-06583	0-0.5	Soil	7725R	7726R	7724R	7724R	
RE16-00-0307	16-06583	0-2	Soil	7725R	7726R	7724R	7724R	
RE16-00-0308	16-06587	0-0.5	Soil	7725R	7726R	7724R	7724R	
RE16-00-0309	16-06587	0-2	Soil	7725R	7726R	7724R	7724R	
RE16-00-0310	16-06588	0-0.5	Soil	7725R	7726R	7724R	7724R	
RE16-00-0311	16-06588	0-2	Soil	7725R	7726R	7724R	7724R	
RE16-00-0312	16-06591	0-0.5	Soil	7725R	7726R	7724R	7724R	
RE16-00-0313	16-06591	0-2	Soil	7725R	7726R	7724R	7724R	
RE16-00-0314	16-06573	0-0.5	Soil	7725R	7726R	7724R	7724R	
RE16-00-0315	16-06573	0-2	Soil	7725R	7726R	7724R	7724R	
RE16-00-0316	16-06568	0-0.5	Soil	7725R	7726R	7724R	7724R	
RE16-00-0317	16-06568	0-2	Soil	7725R	7726R	7724R	7724R	
RE16-00-0318	16-06568	0-0.5	Soil	7725R	7726R	7724R	7724R	**duplicate**
RE16-00-0319	16-06568	0-2	Soil	7725R	7726R	7724R	7724R	**duplicate**
RE16-00-0320	16-06564	0-0.5	Soil	7725R	7726R	7724R	7724R	
RE16-00-0321	16-06564	0-2	Soil	7725R	7726R	7724R	7724R	

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