

ERID-203825



## IRM-RMMSO

# Official Correspondence Form

Name:	U1101134	
Title:	Approval With Modifications - Phase II Letter Work Plan for DP Aggregate Area	
Date Received:	6/15/2011	
Addressee Name:	Michael Graham, ADEP	
Originator:	John E. Kieling, NMED Santa Fe	
Action Item Description:		
Action Due Date:	4/20/2012	
Responsible for Action:	Search <u>Graham, Michael J</u>	
Responsible Office:	ADEP	
Distribution:	Michael Graham Charles McMillan Isaac RichardsonIII Richard Marquez Paul Henry James Cantwell	Deborah K. Woitte William Alexander Phoebe K. Suina Anthony R. Grieggs Tina Sandoval Scotty Jones

U1101134



IRM RMMSO Record Copy



SUSANA MARTINEZ  
Governor

JOHN A. SANCHEZ  
Lieutenant Governor

**NEW MEXICO  
ENVIRONMENT DEPARTMENT**

*Hazardous Waste Bureau*

2905 Rodeo Park Drive East, Building 1.  
Santa Fe, New Mexico 87505-6303  
Phone (505) 476-6000 Fax (505) 476-6030  
[www.nmenv.state.nm.us](http://www.nmenv.state.nm.us)



DAVE MARTIN  
Cabinet Secretary

RAJ SOLOMON, P.E.  
Deputy Secretary

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED**

June 10, 2011

George J. Rael, Assistant Manager  
Environmental Projects Office  
Los Alamos Site Office  
Department of Energy  
3747 West Jemez Road, MS A316  
Los Alamos, NM 87544

Michael Graham  
Associate Director Environmental Programs  
Los Alamos National Security, L.L.C.  
P.O. Box 1663, MS 991  
Los Alamos, NM 87545

**RE: APPROVAL WITH MODIFICATIONS  
PHASE III LETTER WORK PLAN FOR DP SITE AGGREGATE AREA  
LOS ALAMOS NATIONAL LABORATORY (LANL)  
EPA ID #NM0890010515  
HWB-LANL-11-033**

Dear Messrs. Rael and Graham:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Los Alamos National Security L.L.C.'s (LANS) (collectively, the Permittees) *Phase III Letter Work Plan for DP Site Aggregate Area* (Work Plan), dated May 2011 and referenced by LA-UR-11-2842/EP2011-0170. NMED has reviewed the Work Plan and hereby issues this Approval with the following modifications:

'11 JUN 15 PM 1:49:13

1) **Section 2.1, Proposed Extent Sampling, pages 2-3, bullet #1**

**Permittees' Statement:** "Copper was detected at location 21-25763 at 1.5 to 2 ft bgs at a concentration above background (242 mg/kg; LANL 2008, 102760; Figure 6.3-13) but less than its corresponding soil screening level (SSL) (3130 mg/kg) without decreasing concentrations with depth. This location cannot be advanced deeper given the proximity of the sloped mesa edge. Therefore, a deeper sample will not be collected and analyzed for copper at this location."

**NMED Comment:** The reason provided for not collecting a deeper sample at this location is not sound, as a deeper sample from 5 to 6 feet bgs at location 21-25763 was collected during the Phase II field work, but analysis for copper, proposed in the approved *Delta Prime Site Aggregate Area Phase II Work Plan, Revision 1*, was not performed. In the *Phase II Investigation Report for Delta Prime Site Aggregate Area at Technical Area 21, Revision 1* (Phase II IR), the Permittees state, "[a]t location 21-25763, cobalt was analyzed instead of copper. Therefore, extent is not defined for copper."

In future reports and work plans, refrain from making inaccurate or misleading statements. These types of statements necessitate a more in-depth review of previous documents which can result in delayed NMED responses. This is counter-productive to the quick turnaround requested by the Permittees. Although extent is not defined for copper at this location, the observed concentrations are less than ten percent of the residential SSL. No further sampling is required at this location.

2) **Section 2.1, Proposed Extent Sampling, page 3, bullet #3**

**Permittees' Statement:** "Reevaluation of the Phase II investigation report (LANL 2010, 110772.33, p. 25) supports the conclusion that vertical extent was previously defined for barium at location 21-605282 (total depth [TD] 10 ft); concentrations were not detected at the deepest depth sampled."

**NMED Comment:** Table 6.8-1 (Summary of Inorganic Chemicals above BVs at Consolidated Unit 21-022(h)-99) of the Phase II IR shows that a barium concentration was detected at 110 mg/kg at the deepest depth sampled at location 21-605282. Refer to Comment 1 regarding inaccurate or misleading statements. However, barium was detected at the deepest depth sampled at a lower concentration than the sample above it and the concentrations are very low compared with the residential SSL. Therefore, vertical extent of barium is considered to be defined at location 605282.

3) **Section 2.1, Proposed Extent Sampling, page 3, bullet #4**

**Permittees' Statement:** "However, as directed by NMED (2010, 110959), location 21-603010 will be resampled to confirm the presence of polyaromatic hydrocarbons (PAHs) from 3 to 4 ft and 5 to 6 ft bgs (Figure 5, Table 1, location 23a-1)."

**NMED Comment:** The samples at location 603010 must be collected from undisturbed native soils.

Messrs. Rael and Graham

June 10, 2011

Page 3

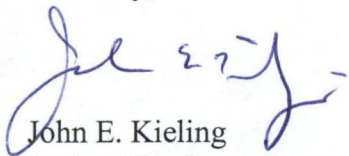
4) **Section 2.1, Proposed Extent Sampling, page 3, bullet #10 and Table 1, Proposed Extent Sampling, page 28**

**NMED Comment:** The Permittees have not included analyses for all COPCs at AOC C-21-027 for which extent has not been defined, based on the Phase II IR. The Permittees must add the following analytes to the laboratory analytical suite for samples collected at the following locations:

- Location C27-1: nitrate and perchlorate
- Location C27-2: chromium, nitrate, perchlorate, zinc, and americium-241
- Location C27-6: americium-241

The Phase III Investigation Report must be submitted to NMED no later than **April 20, 2012**. All submittals (including maps and tables) must be in the form of two paper copies and one electronic copy in accordance with Section XI.A of the March 1, 2005 Consent Order. Please contact Ben Wear at (505) 476-6041 should you have any questions.

Sincerely,



John E. Kieling  
Acting Chief  
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB  
N. Dhawan, NMED HWB  
B. Wear, NMED HWB  
S. Yanicak, NMED DOE OB, MS J993  
T. Skibitski, NMED DOE OB  
L. King, EPA 6PD-N  
J. English, MS M992  
M. Thacker, EP-TA-21, MS C349  
W. Woodworth, DOE-LASO, MS A316

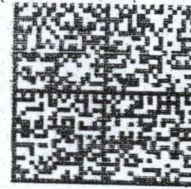
File: LANL '11, TA-21

NAME Clanton  
Z# 081956  
DATE 6/15/2011

IF THE RETURN ADDRESS IS FOLDED AT DOTTED LINE  
**CERTIFIED MAIL™**



7010 1670 0000 8697 7186



Hasler

016H26523547  
**\$05.590**  
06/14/2011  
Mailed From 87505  
**US POSTAGE**

State of New Mexico  
ENVIRONMENT DEPARTMENT  
Hazardous Waste Bureau  
2905 Rios Park Drive East-Building 1  
Santa Fe, New Mexico 87505

Michael J. Graham, Associate Director  
Environmental Programs  
Los Alamos National Security, LLC  
P.O.Box 1663, MS M991  
Los Alamos, NM 87545

*A150*

'11 JUN 15 PM 1:38:55

11 JUN 15 PM 1:38:52

