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Date: OCT 30 2015
Refer To: ADESH-15-153
LAUR: 15-27751
Locates Action No.: n/a

Paulette Johnsey, Chief
Water Enforcement Branch (6EN)
Compliance Assurance and Enforcement Division
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

Subject: NPDES Permit No. NM0030759 - Submittal of Certification of Completion of Corrective Action for One Site [06-006] Following Analytical Results below Target Action Levels

Dear Ms. Johnsey:

This document is being submitted in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) Permit No. NM0030759 for Los Alamos National Laboratory, issued to Los Alamos National Security, LLC, and the U.S. Department of Energy, effective November 1, 2010. As specified in Part I, Section E.2(a):

> Analytical results from confirmation sampling show pollutant concentrations for all pollutants of concern at the Site to be at or below applicable target action levels.

The certification that corrective action is complete was prepared in accordance with 40 Code of Federal Regulations 122.22(b). Accordingly, analytical results below target action levels (TALs) from two confirmation samples collected from two measurable storm events occurring at least 15 days apart for Site 06-006 (2M-SMA-1.45) are enclosed (Table 1). The analytical results can be accessed at the following website: http://www.lanl.gov/community-environment/environmental-stewardship/protection/compliance/individual-permit-stormwater/index.php.

Table 1
Confirmation Samples Collected at One Site
from Two Measurable Storm Events with Results below TALs

Site Number	SMA Number	Permitted Feature	Sample Collection Dates
06-006	2M-SMA-1.45	E005	July 7 and August 1, 2015

If you have any questions, please contact Terrill Lemke at (505) 665-2397 (tlemke@lanl.gov) or David Rhodes at (505) 665-5325 (david.rhodes@em.doe.gov).

Sincerely,

Alison M. Dorries, Division Leader
Environmental Protection Division
Los Alamos National Laboratory

Sincerely,

Douglas E. Hintze, Manager
Environmental Management
Los Alamos Field Office

AD/DH/BR/SV:sm

Attachment: One hard copy with electronic files – Certification of Completion of Corrective Action for One Site [06-006] Following Analytical Results below Target Action Levels.

Cy: (w/att.)
Bruce Yurdin, NMED-SWQB, P. O. Box 5469, Santa Fe, NM 87502
emla.docs@em.doe.gov, MS A316
Public Reading Room (EPRR)
ADESH Records

Cy: (Letter and CD and/or DVD)
Laurie King, EPA Region 6, Dallas, TX
Sarah Holcomb, NMED-SWQB
Steve Yanicak, NMED-DOE-OB, MS M894
PRS Database

Cy: (w/o att./date-stamped letter emailed)
Everett Spencer, EPA Region 6
Brent Larsen, EPA Region 6
lasomailbox@nnsa.doe.gov
Kimberly Davis Lebak, DOE-NA-LA
Peter Maggiore, DOE-NA-LA
Annette Russell, DOE-EM-LA
Karen Armijo, DOE-EM-LA
David Rhodes, DOE-EM-LA
Steve Veenis, ADEP ER Program
Bruce Robinson, ADEP ER Program
Terrill Lemke, ADESH-ENV-CP
Mike Saladen, ADESH-ENV-CP
Alison Dorries, ADESH-ENV-DO
Michael Brandt, ADESH
Amy De Palma, PADOPS
Craig Leasure, PADOPS

Analytical Results from Confirmation Samples Collected from Two Measurable Storm Events Following Installation of Control Measures at 2M-SMA-1.45

October 30, 2015

NPDES PERMIT NO. NM0030759

LA-UR-15-27751

NPDES PERMIT NO. NM0030759 **LA-UR-15-27751**

LOS ALAMOS NATIONAL LABORATORY
ANALYTICAL RESULTS FROM TWO MEASURABLE STORM EVENTS

PF: E005 **2M-SMA-1.45** **Site: 06-006**

The following certification of completion of corrective action was performed in accordance with NPDES Permit No NM0030759, Part I.E.2, which requires the Permittees (i.e., DOE and LANS) to certify completion of corrective action.

CERTIFICATION STATEMENT OF AUTHORIZATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Environmental Programs
Environmental Remediation Program
Los Alamos National Laboratory

10/13/2015
Date

Environmental Management
U.S. Department of Energy

10-30-2015
Date

NPDES PERMIT NO. NM0030759 **LA-UR-15-27751**

LOS ALAMOS NATIONAL LABORATORY
ANALYTICAL RESULTS FROM TWO MEASURABLE STORM EVENTS

PF: E005 **2M-SMA-1.45** **Site: 06-006**

Tables 1 and 2 present the analytical results received from the confirmation samples collected from two measurable storm events occurring at least fifteen days apart following the installation of enhanced controls at site monitoring area (SMA) 2M-SMA-1.45. Table 3 presents each applicable target action level (TAL) for the analytes monitored.

Table 1
Radiochemical Analytical Results from Two Measurable Storm Events Following Installation of Enhanced Controls, 2M-SMA-1.45

Sample ID	Analyte	Field Prep	Detect Status	Result (pCi/L)	Minimum Detectable Activity (pCi/L)	Uncertainty (pCi/L)	Qualifier*	Sample Collection Date
WT_IPC-15-101940	Gross alpha	Unfiltered	Detect	2.88	2.28	0.781	NQ	07/07/2015
WT_IPC-15-101940	Radium-226 and Radium-228	Unfiltered	Detect	1.6	1.16	0.426	NQ	07/07/2015
WT_IPC-15-102874	Gross alpha	Unfiltered	Non-Detect	0.914	3.04	0.891	U	08/01/2015
WT_IPC-15-102874	Radium-226 and Radium-228	Unfiltered	Non-Detect	1.05	1.184	0.402	U	08/01/2015

Note: TAL exceedance ratio is a preliminary average from the first of at least two confirmation samples.

* Qualifier: NQ = Result is not qualified; U = result is not detected.

LOS ALAMOS NATIONAL LABORATORY
ANALYTICAL RESULTS FROM TWO MEASURABLE STORM EVENTS

PF: E005 **2M-SMA-1.45** **Site: 06-006**

Table 2
Metals and Organic Analytical Results from Two Measurable Storm Events Following Installation of Enhanced Controls, 2M-SMA-1.45

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	Method Detection Limit	Quantitation Limit	Qualifier*	Data Receipt Date
WT_IPC-15-101945	Aluminum, dissolved	Filtered	Detect	682	15	50	NQ	07/07/2015
WT_IPC-15-101945	Antimony, dissolved	Filtered	Nondetect	1	1	3	U	07/07/2015
WT_IPC-15-101945	Arsenic, dissolved	Filtered	Nondetect	1.7	1.7	5	U	07/07/2015
WT_IPC-15-101945	Boron, dissolved	Filtered	Detect	19.9	15	50	J	07/07/2015
WT_IPC-15-101945	Cadmium, dissolved	Filtered	Nondetect	0.11	0.11	1	U	07/07/2015
WT_IPC-15-101945	Chromium, dissolved	Filtered	Nondetect	2	2	10	U	07/07/2015
WT_IPC-15-101945	Cobalt, dissolved	Filtered	Nondetect	1	1	5	U	07/07/2015
WT_IPC-15-101945	Copper, dissolved	Filtered	Detect	2.96	0.35	1	NQ	07/07/2015
WT_IPC-15-101940	Cyanide, weak acid dissociable	Unfiltered	Nondetect	2.14	2.14	5	UJ	07/07/2015
WT_IPC-15-101945	Lead, dissolved	Filtered	Nondetect	0.5	0.5	2	U	07/07/2015
WT_IPC-15-101940	Mercury	Unfiltered	Nondetect	0.067	0.067	0.2	U	07/07/2015
WT_IPC-15-101945	Nickel, dissolved	Filtered	Detect	0.646	0.5	2	J	07/07/2015
WT_IPC-15-101940	Selenium	Unfiltered	Nondetect	1.5	1.5	5	U	07/07/2015
WT_IPC-15-101945	Silver, dissolved	Filtered	Nondetect	0.2	0.2	1	U	07/07/2015
WT_IPC-15-101945	Thallium, dissolved	Filtered	Nondetect	0.45	0.45	2	U	07/07/2015
WT_IPC-15-101945	Vanadium, dissolved	Filtered	Detect	2.67	1	5	J	07/07/2015
WT_IPC-15-101945	Zinc, dissolved	Filtered	Detect	6.43	3.3	10	J	07/07/2015
WT_IPC-15-102879	Aluminum, dissolved	Filtered	Detect	133	15	50	NQ	08/01/2015
WT_IPC-15-102879	Antimony, dissolved	Filtered	Nondetect	1	1	3	U	08/01/2015
WT_IPC-15-102879	Arsenic, dissolved	Filtered	Nondetect	1.7	1.7	5	U	08/01/2015
WT_IPC-15-102879	Boron, dissolved	Filtered	Detect	17.1	15	50	J	08/01/2015
WT_IPC-15-102879	Cadmium, dissolved	Filtered	Nondetect	0.11	0.11	1	U	08/01/2015
WT_IPC-15-102879	Chromium, dissolved	Filtered	Nondetect	2	2	10	U	08/01/2015
WT_IPC-15-102879	Cobalt, dissolved	Filtered	Nondetect	1	1	5	U	08/01/2015
WT_IPC-15-102879	Copper, dissolved	Filtered	Detect	3.03	0.35	1	NQ	08/01/2015
WT_IPC-15-102874	Cyanide, weak acid dissociable	Unfiltered	Nondetect	2.14	2.14	5	U	08/01/2015
WT_IPC-15-102879	Lead, dissolved	Filtered	Nondetect	0.5	0.5	2	U	08/01/2015

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ANALYTICAL RESULTS FROM TWO MEASURABLE STORM EVENTS

PF: E005 **2M-SMA-1.45** **Site: 06-006**

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	Method Detection Limit	Quantitation Limit	Qualifier*	Data Receipt Date
WT_IPC-15-102874	Mercury	Unfiltered	Nondetect	0.067	0.067	0.2	U	08/01/2015
WT_IPC-15-102879	Nickel, dissolved	Filtered	Detect	0.557	0.5	2	J	08/01/2015
WT_IPC-15-102874	Selenium	Unfiltered	Nondetect	1.5	1.5	5	U	08/01/2015
WT_IPC-15-102879	Silver, dissolved	Filtered	Nondetect	0.2	0.2	1	U	08/01/2015
WT_IPC-15-102879	Thallium, dissolved	Filtered	Nondetect	0.45	0.45	2	U	08/01/2015
WT_IPC-15-102879	Vanadium, dissolved	Filtered	Detect	1.39	1	5	J	08/01/2015
WT_IPC-15-102879	Zinc, dissolved	Filtered	Nondetect	3.3	3.3	10	U	08/01/2015

* Qualifier: NQ = Result is not qualified; U = result is not detected; UJ = result is not detected the detection limit is estimated.
J = Result is estimated.

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ANALYTICAL RESULTS FROM TWO MEASURABLE STORM EVENTS

PF: E005 **2M-SMA-1.45** **Site: 06-006**

Table 3
Applicable TALs

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Aluminum, dissolved	µg/L	7429-90-5	2.5	n/a	750
Antimony, dissolved	µg/L	7440-36-0	60	640	n/a
Arsenic, dissolved	µg/L	7440-38-2	0.5	9	340
Boron, dissolved	µg/L	7440-42-8	100	5000	n/a
Cadmium, dissolved	µg/L	7440-43-9	1	n/a	0.6
Chromium, dissolved	µg/L	7440-47-3	10	n/a	210
Cobalt, dissolved	µg/L	7440-48-4	50	1000	n/a
Copper, dissolved	µg/L	7440-40-8	0.5	n/a	4.3
Cyanide, weak acid dissociable	µg/L	57-12-5	10	5.2	22
Lead, dissolved	µg/L	7439-92-1	0.5	n/a	17
Mercury	µg/L	7439-97-6	0.005	0.77	1.4
Nickel, dissolved	µg/L	7440-02-0	0.5	n/a	170
Selenium	µg/L	7782-49-2	5	5	20
Silver, dissolved	µg/L	7440-22-4	0.5	n/a	0.4
Thallium, dissolved	µg/L	7440-28-0	0.5	6.3	n/a
Vanadium, dissolved	µg/L	7440-62-2	50	100	n/a
Zinc, dissolved	µg/L	7440-66-6	20	n/a	42
Gross alpha	pCi/L	n/a	n/a	15	n/a
Radium-226 and Radium-228	pCi/L	n/a	n/a	30	n/a

Notes: CAS = Chemical Abstracts Service; MQL = Minimum Quantification Level; MTAL = Maximum TAL; ATAL = Average TAL.

*N/A = Value is not applicable.