

OCT 14 '15 PM 2:38

**Associate Director for ESH**

Environment, Safety, and Health
 P.O. Box 1663, MS K491
 Los Alamos, New Mexico 87545
 505-667-4218/Fax 505-665-3811

Environmental Management

Los Alamos Field Office, MS A316
 3747 West Jemez Road
 Los Alamos, New Mexico 87544
 (505) 665-5658/FAX (505) 606-2132

Date: OCT 14 2015

Refer To: ADESH-15-125

LAUR: 15-26486

Locates Action No.: N/A

Paulette Johnsey, Chief
 Water Enforcement Branch (6EN-W)
 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 Analytical Results for Site 06-006 in Site Monitoring Area 2M-SMA-1.45 after Certification of Enhanced Control Measures

Dear Ms. Johnsey:

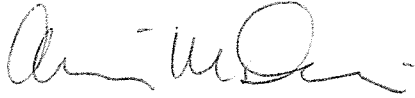
This document is being submitted in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) Permit No. NM0030759 for Los Alamos National Laboratory, issued to Los Alamos National Security, LLC, and the U.S. Department of Energy, effective November 1, 2010. As specified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

Permittees shall certify completion of installation of control measures under this subsection to EPA within 30 days of completion of all such measures at the Site and, where applicable shall provide sampling results within 30 days of receipt of analytical results from the first measurable storm event after completion of such measures....

Accordingly, the analytical results from the samples collected from the first measurable storm event following the completion of corrective action by certification of the installation of control measures at Site 06-006 in site monitoring area 2M-SMA-1.45 are presented in the enclosure. 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>.

If you have any questions, please contact Terrill Lemke at (505) 665-2397 (tleinke@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

Enclosure: One hard copy with electronic files – Analytical Results Following
Completion of Corrective Action by Certification of a No Exposure Condition
at Site 06-006 in Site Monitoring Area 2M-SMA-1.45

Cy: (w/enc.)
Everett Spencer, EPA Region 6
Brent Larsen, EPA Region 6
Bruce Yurdin, NMED-SWQB, P. O. Box 5469, Santa Fe, NM 87502 (paper & electronic copy)
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
Paul Mark, ADEP ER Program
PRS Database

Cy: (w/o enc./date-stamped letter emailed)
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
Sam Loftin, ADESH-ENV-CP
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 the First Measurable
Storm Event Following Installation of Control
Measures at 2M-SMA-1.45**

October 14, 2015

NPDES PERMIT NO. NM0030759

LA-UR-15-26486

**LOS ALAMOS NATIONAL LABORATORY
ANALYTICAL RESULTS FROM THE FIRST MEASURABLE STORM EVENT**

PF: E005

2M-SMA-1.45

Site: 06-006

Tables 1 and 2 present the analytical results received from the confirmation monitoring samples collected from the first measurable storm event following the installation of enhanced controls at site monitoring area (SMA) 2M-SMA-1.45. The descriptions and photographs of each enhanced control installed at 2M-SMA-1.45 were provided to the U.S. Environmental Protection Agency on August 27, 2012 (EP2012-0199/LA-UR-12-24012). Table 3 presents each applicable target action levels (TALs) for the analytes monitored.

**Table 1
Radiochemical Analytical Results from the First Measurable Storm Event
Collected on July 7, 2015, Following Installation of Enhanced Controls,
SMA 2M-SMA-1.45**

Sample ID	Analyte	Field Prep	Detect Status	Result (pCi/L)	TAL Exceedance Ratio	Minimum Detectable Activity (pCi/L)	Uncertainty (pCi/L)	Qualifier*	Data Receipt Date
WT_IPC-15-101940	Radium-226 and Radium-228	Unfiltered	Detect	1.6	0.053	1.16	0.426	NQ	8/11/2015
WT_IPC-15-101940	Gross alpha	Unfiltered	Detect	2.88	0.192	2.28	0.781	NQ	8/11/2015

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

* Qualifier: NQ = Result is not qualified.

**LOS ALAMOS NATIONAL LABORATORY
ANALYTICAL RESULTS FROM THE FIRST MEASURABLE STORM EVENT**

PF: E005

2M-SMA-1.45

Site: 06-006

Table 2

**Metals and Inorganic Analytical Results from the First Measurable Storm Event
Collected on July 7, 2015, Following Installation of Enhanced Controls,
2M-SMA-1.45**

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	TAL Exceedance Ratio	Method Detection Limit	Quantitation Limit	Qualifiers	Data Receipt Date
WT_IPC-15-101940	Cyanide, weak acid dissociable	Unfiltered	Nondetect	2.14	n/a	0.00214	0.005	UJ	8/11/2015
WT_IPC-15-101945	Aluminum	Filtered	Detect	682	0.909	15	50	NQ	8/11/2015
WT_IPC-15-101945	Antimony	Filtered	Nondetect	1	n/a	1	3	U	8/11/2015
WT_IPC-15-101945	Arsenic	Filtered	Nondetect	1.7	n/a	1.7	5	U	8/11/2015
WT_IPC-15-101945	Boron	Filtered	Detect	19.9	0.004	15	50	J	8/11/2015
WT_IPC-15-101945	Cadmium	Filtered	Nondetect	0.11	n/a	0.11	1	U	8/11/2015
WT_IPC-15-101945	Chromium	Filtered	Nondetect	2	n/a	2	10	U	8/11/2015
WT_IPC-15-101945	Cobalt	Filtered	Nondetect	1	n/a	1	5	U	8/11/2015
WT_IPC-15-101945	Copper	Filtered	Detect	2.96	0.688	0.35	1	NQ	8/11/2015
WT_IPC-15-101945	Lead	Filtered	Nondetect	0.5	n/a	0.5	2	U	8/11/2015
WT_IPC-15-101940	Mercury	Unfiltered	Nondetect	0.067	n/a	0.067	0.2	U	8/11/2015
WT_IPC-15-101945	Nickel	Filtered	Detect	0.646	0.004	0.5	2	J	8/11/2015
WT_IPC-15-101940	Selenium	Unfiltered	Nondetect	1.5	n/a	1.5	5	U	8/11/2015
WT_IPC-15-101945	Silver	Filtered	Nondetect	0.2	n/a	0.2	1	U	8/11/2015
WT_IPC-15-101945	Thallium	Filtered	Nondetect	0.45	n/a	0.45	2	U	8/11/2015
WT_IPC-15-101945	Vanadium	Filtered	Detect	2.67	0.027	1	5	J	8/11/2015
WT_IPC-15-101945	Zinc	Filtered	Detect	6.43	0.153	3.3	10	J	8/11/2015

Note: TAL exceedance ratio is the result divided by the applicable TAL; The result is a preliminary average from the first of at least two confirmation samples.

^a Qualifier: U = Result is not detected; NQ = result is not qualified; J = result is estimated.

^b n/a = Value is not applicable.

**LOS ALAMOS NATIONAL LABORATORY
ANALYTICAL RESULTS FROM THE FIRST MEASURABLE STORM EVENT**

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	7440-72-8	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;
ATAL = average TAL; MTAL = maximum TAL.

*n/a = Value is not applicable.