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Date: OCT 16 2015
Refer To: ADESH-15-149
LAUR: on each SMA
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 Four [4] Site Monitoring Areas Following the First Measurable Storm Event after Certification of Enhanced Controls

Dear Ms. Johnsey:

These documents are 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.l(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 samples collected during the first measurable storm event received at four site monitoring areas (SMAs) in the last 30 days are enclosed. Each report provides references to the certificates of completion of the installation of the control measures. 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
Results from the First Measurable Storm Event
after Certification of Enhanced Control Measures

Site Number	SMA Number	Permitted Feature
06-001(a)	2M-SMA-1.42	E002
53-008	LA-SMA-10.12	L030A
09-013	STRM-SMA-5.05	J031
11-002 11-003(b) 11-005(a) 11-005(b) 11-006(c) 11-006(d) 11-011(d)	W-SMA-10	W018

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

Enclosures: One hard copy with electronic files – Analytical Results for Four [4] Site Monitoring Areas Following the First Measurable Storm Event after Certification of Enhanced Controls (see individual document for LA-UR number)

Cy: (w/enc.)
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 enc./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
Sam Loftin, 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 the First Measurable Storm Event Following Installation of Control Measures at 2M-SMA-1.42

October 16, 2015

NPDES PERMIT NO. NM0030759

LA-UR-15-27628

NPDES PERMIT NO. NM0030759 **LA-UR-15-27628**

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

PF: E002 **2M-SMA-1.42** **Site: 06-001(a)**

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-1.42. The descriptions and photographs of each enhanced control installed at 2M-SMA-1.42 were provided to the U.S. Environmental Protection Agency on July 25, 2012 (EP2012-0178/LA-UR-12-22517). Table 3 presents each applicable target action level (TAL) for the analytes monitored.

Table 1
Radiochemical Analytical Results from the
First Measurable Storm Event Collected on July 20, 2015,
Following Installation of Enhanced Controls, 2M-SMA-1.42

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-15-101960	Gross alpha	Unfiltered	Detect	16	1.07	4.04	1.66	NQ	8/25/2015

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

* Qualifier: NQ = Result is not qualified.

Table 2
Metals and Organic Analytical Results from the
First Measurable Storm Event Collected on July 20, 2015,
Following Installation of Enhanced Controls, 2M-SMA-1.42

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	TAL Exceedance Ratio	Method Detection Limit	Quantitation Limit	Qualifier*	Data Receipt Date
WT_IPC-15-101962	Aluminum, dissolved	Filtered	Detected	1900	2.53	15	50	NQ	8/25/2015

Note: TAL exceedance ratio is calculated 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: E002 **2M-SMA-1.42** **Site: 06-001(a)**

Table 3
Applicable TALs

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Aluminum, dissolved	µg/L	7429-90-5	2.5	n/a*	750
Gross alpha	pCi/L	n/a	n/a	15	n/a

Notes: CAS = Chemical Abstracts Service; MQL = minimum quantification level; ATAL = average TAL; MTAL = maximum TAL.

*n/a = Value is not applicable.

Analytical Results from the First Measurable Storm Event Following Installation of Control Measures at LA-SMA-10.12

October 16, 2015

NPDES PERMIT NO. NM0030759

LA-UR-15-27627

NPDES PERMIT NO. NM0030759 **LA-UR-15-27627**

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

PF: L030A **LA-SMA-10.12** **Site: 53-008**

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) LA-SMA-10.12. The descriptions and photographs of each enhanced control installed at LA-SMA-10.12 were provided to the U.S. Environmental Protection Agency on December 13, 2012 (EP2012-0296/LA-UR-12-26589). Table 3 presents each applicable target action level (TAL) for the analytes monitored.

Table 1
Radiochemical Analytical Results from the
First Measurable Storm Event Collected on July 20, 2015,
Following Installation of Enhanced Controls, LA-SMA-10.12

Sample ID	Analyte	Field Prep	Detect Status	Result (pCi/L)	TAL Exceedance Ratio	Minimum Detectable Activity (pCi/L)	Uncertainty (pCi/L)	Qualifier[a]	Data Receipt Date
WT_IPC-15-101964	Gross alpha	Unfiltered	Detect	4.36	n/a[b]	2.9	1	NQ	8/25/2015

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

[a] Qualifier: NQ = Result is not qualified.

[b] n/a = Value is not applicable.

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

PF: L030A **LA-SMA-10.12** **Site: 53-008**

Table 2
Metals and Organic Analytical Results from the First Measurable Storm Event Collected on July 20, 2015, Following Installation of Enhanced Controls, LA-SMA-10.12

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	TAL Exceedance Ratio	Method Detection Limit	Quantitation Limit	Qualifier[a]	Data Receipt Date
WT_IPC-15-101964	Cyanide, weak acid dissociable	Unfiltered	Nondetect	2.14	n/a[b]	2.14	5	U	8/25/2015

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

[a] Qualifier: U = Result is not detected.

[b] n/a = Value is not applicable.

Table 3
Applicable TALs

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Cyanide, Weak acid dissociable	µg/L	57-12-5	10	5.2	22
Gross alpha	pCi/L	n/a*	n/a	15	n/a

Notes: CAS = Chemical Abstracts Service; MQL = minimum quantification level; ATAL = average TAL; MTAL = maximum TAL.

*n/a = Value is not applicable.

Analytical Results from the First Measurable Storm Event Following Installation of Control Measures at STRM-SMA-5.05

October 16, 2015

NPDES PERMIT NO. NM0030759

LA-UR-15-27626

NPDES PERMIT NO. NM0030759 **LA-UR-15-27626**

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

PF: J031 **STRM-SMA-5.05** **Site: 09-013**

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) STRM-SMA-5.05. The descriptions and photographs of each enhanced control installed at STRM-SMA-5.05 were provided to the U.S. Environmental Protection Agency on July 25, 2012 (EP2012-0178/LA-UR-12-22533). Table 3 presents each applicable target action level (TAL) for the analytes monitored.

Table 1
Radiochemical Analytical Results from the
First Measurable Storm Event Collected on August 2, 2015,
Following Installation of Enhanced Controls, STRM-SMA-5.05

Sample ID	Analyte	Field Prep	Detect Status	Result (pCi/L)	TAL Exceedance Ratio	Minimum Detectable Activity (pCi/L)	Uncertainty (pCi/L)	Qualifier[a]	Data Receipt Date
WT_IPC-15-101952	Gross alpha	Unfiltered	Detect	7.66	n/a[b]	3.17	1.21	NQ	9/8/2015

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

[a] Qualifier: NQ = Result is not qualified.

[b] n/a = Value is not applicable.

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

PF: J031 **STRM-SMA-5.05** **Site: 09-013**

Table 2
Metals and Organic Analytical Results from the First Measurable Storm Event Collected on August 2, 2015, Following Installation of Enhanced Controls, STRM-SMA-5.05

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	TAL Exceedance Ratio	Method Detection Limit	Quantitation Limit	Qualifier[a]	Data Receipt Date
WT_IPC-15-101952	Cyanide, weak acid dissociable	Unfiltered	Nondetect	2.14	n/a[b]	2.14	5	U	9/8/2015
WT_IPC-15-101952	Total polychlorinated biphenyls (PCBs)	Unfiltered	Detect	0.00226	3.53	n/a	n/a	NQ	9/8/2015

Note: TAL exceedance ratio 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.

[b] n/a = Value is not applicable.

Table 3
Applicable TALs

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Cyanide, Weak acid dissociable	µg/L	57-12-5	10	5.2	22
Total PCBs	µg/L	1336-36-3	n/a*	0.00064	n/a
Gross alpha	pCi/L	n/a	n/a	15	n/a

Notes: CAS = Chemical Abstracts Service; MQL = minimum quantification level;
ATAL = average TAL; MTAL = maximum TAL.

*n/a = Value is not applicable.

Analytical Results from the First Measurable Storm Event Following Installation of Control Measures at W-SMA-10

October 16, 2015

NPDES PERMIT NO. NM0030759

LA-UR-15-27625

NPDES PERMIT NO. NM0030759 **LA-UR-15-27625**

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

PF: W018 **W-SMA-10** **Sites: 11-002**
11-003(b)
11-005(a)
11-005(b)
11-006(c)
11-006(d)
11-011(d)

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) W-SMA-10. The descriptions and photographs of each enhanced control installed at W-SMA-10 were provided to the U.S. Environmental Protection Agency on September 20, 2012 (EP2012-0216/LA-UR-12-24022). Table 3 presents each applicable target action level (TAL) for the analytes monitored.

Table 1
Radiochemical Analytical Results from the
First Measurable Storm Event Collected on August 1, 2015,
Following Installation of Enhanced Controls, W-SMA-10

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-15-101966	Gross alpha	Unfiltered	Detect	77.8	5.19	6.16	3.65	NQ	9/8/2015

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: W018 **W-SMA-10** **Sites: 11-002**
11-003(b)
11-005(a)
11-005(b)
11-006(c)
11-006(d)
11-011(d)

Table 2
Metals and Organic Analytical Results from the First Measurable Storm Event
Collected on August 1, 2015, Following Installation of Enhanced Controls, W-SMA-10

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	TAL Exceedance Ratio	Method Detection Limit	Quantitation Limit	Qualifier[a]	Data Receipt Date
WT_IPC-15-101966	Cyanide, weak acid dissociable	Unfiltered	Nondetect	2.14	n/a[b]	2.14	5	U	9/8/2015

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

[a] Qualifier: U = Result is not detected.

[b] n/a = Value is not applicable.

Table 3
Applicable TALs

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Cyanide, weak acid dissociable	µg/L	57-12-5	10	5.2	22
Gross alpha	pCi/L	n/a*	n/a	15	n/a

Notes: CAS = Chemical Abstracts Service; MQL = minimum quantification level;
ATAL = average TAL; MTAL = maximum TAL.

*n/a = Value is not applicable.