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Date: OCT 14 2015

Refer To: ADESH-15-124

LAUR: 15-26487

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 54-018 in Site Monitoring Area PJ-SMA-17 after Certification of a No Exposure Condition**

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(b):

If the Permittees decide to achieve corrective action under this Section through installation of measures to totally eliminate exposure of pollutants to stormwater at a Site, Permittees will be in compliance with this Permit at that Site once they have certified and demonstrated to EPA [the U.S. Environmental Protection Agency], through submission of certified as-built drawings, that such measures have been properly installed to perform their function to totally eliminate exposure of pollutants to stormwater, and no further confirmation sampling is required, unless required by Section E.5(c). Thereafter, Permittees shall collect one sample and make the analytical results available via email notification and on the public website pursuant to Section I.7 of the Permit.

Accordingly, the analytical results from the sample collected from the first measureable storm event following the completion of corrective action by certification of a no exposure condition at Site 54-018 in site monitoring area PJ-SMA-17 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 (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

Enclosure: One hard copy with electronic files – Analytical Results Following  
Completion of Corrective Action by Certification of a No Exposure Condition  
at Site 54-018 in Site Monitoring Area PJ-SMA-17

Cy: (w/enc.)  
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Public Reading Room (EPRR)  
ADESH Records

Cy: (Letter and CD and/or DVD)  
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**Analytical Results Following Completion of  
Corrective Action by Certification  
of a No Exposure Condition  
at Site 54-018 in PJ-SMA-17**

**October 14, 2015**

**NPDES PERMIT NO. NM0030759**

**LA-UR-15-26487**



**LOS ALAMOS NATIONAL LABORATORY  
ANALYTICAL RESULTS FOLLOWING COMPLETION OF CORRECTIVE ACTION  
BY CERTIFICATION OF A NO EXPOSURE CONDITION**

PF: J024

PJ-SMA-17

Site: 54-018

Tables 1 and 2 present the analytical results received from the confirmation monitoring sample collected following the completion of corrective action by certification of a no exposure condition at Site 54-018 in site monitoring area (SMA) PJ-SMA-17. The certification of a no exposure condition with as-built drawings was provided to the U.S. Environmental Protection Agency on October 25, 2013 (EP2013-0235/LA-UR-13-28149). Table 3 presents each applicable target action level (TAL) for the analytes monitored.

**Table 1  
Radiochemical Analytical Results Collected on May 21, 2015,  
Following Completion of Corrective Action  
at Site 54-018, in SMA PJ-SMA-17**

Sample ID	Analyte	Field Preparation	Detect Status	Result (pCi/L)	TAL Exceedance Ratio	Minimum Detectable Activity (pCi/L)	Uncertainty (pCi/L)	Qualifier*	Data Receipt Date
WT_IPC-15-95421	Gross alpha	Unfiltered	Detect	98.3	6.553	27.0	15.8	J+	7/2/2015
WT_IPC-15-95421	Radium-226 and radium-228	Unfiltered	Detect	3.7	0.123	1.171	0.533	NQ	7/2/2015

\* Qualifier: J+ = Estimated with a high bias; NQ = result is not qualified.

**LOS ALAMOS NATIONAL LABORATORY  
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PF: J024

PJ-SMA-17

Site: 54-018

**Table 2  
Metals, Inorganic, and Organic Analytical Results Collected on May 21, 2015,  
Following Completion of Corrective Action  
at Site 54-018, in SMA PJ-SMA-17**

Sample ID	Analyte	Field Preparation	Detect Status	Result (µg/L)	TAL Exceedance Ratio	Report Method Detection Limit (µg/L)	Report Detection Limit (µg/L)	Validation Qualifier <sup>a</sup>	Data Validation Date
WT_IPC-15-95421	Cyanide, weak acid dissociable	Unfiltered	Nondetect	0.005	n/a <sup>b</sup>	0.00214	0.005	U	7/2/2015
WT_IPC-15-95417	Aluminum	Filtered	Detect	385	0.513	15	50	NQ	7/2/2015
WT_IPC-15-95417	Antimony	Filtered	Detect	5.7	0.009	1	3	NQ	7/2/2015
WT_IPC-15-95417	Arsenic	Filtered	Nondetect	5	n/a	1.7	5	U	7/2/2015
WT_IPC-15-95417	Boron	Filtered	Detect	25.5	0.005	15	50	J	7/2/2015
WT_IPC-15-95417	Cadmium	Filtered	Nondetect	1	n/a	0.11	1	U	7/2/2015
WT_IPC-15-95417	Chromium	Filtered	Nondetect	10	n/a	2	10	U	7/2/2015
WT_IPC-15-95417	Cobalt	Filtered	Nondetect	5	n/a	1	5	U	7/2/2015
WT_IPC-15-95417	Copper	Filtered	Detect	1.97	0.458	0.35	1	NQ	7/2/2015
WT_IPC-15-95417	Lead	Filtered	Nondetect	2	n/a	0.5	2	U	7/2/2015
WT_IPC-15-95421	Mercury	Unfiltered	Nondetect	0.2	n/a	0.067	0.2	U	7/2/2015
WT_IPC-15-95417	Nickel	Filtered	Detect	0.796	0.005	0.5	2	J	7/2/2015
WT_IPC-15-95421	Selenium	Unfiltered	Detect	2.42	0.484	1.5	5	J	7/2/2015
WT_IPC-15-95417	Silver	Filtered	Nondetect	1	n/a	0.2	1	U	7/2/2015
WT_IPC-15-95417	Thallium	Filtered	Nondetect	2	n/a	0.45	2	U	7/2/2015
WT_IPC-15-95417	Vanadium	Filtered	Detect	2.02	0.020	1	5	J	7/2/2015
WT_IPC-15-95417	Zinc	Filtered	Nondetect	10	n/a	3.3	10	U	7/2/2015
WT_IPC-15-95417	Total PCBs <sup>c</sup>	Unfiltered	Nondetect	0	n/a	n/a	n/a	U	6/26/2015

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

<sup>a</sup> Qualifier: NQ = Result is not qualified; U = result is not detected; J = result is estimated.

<sup>b</sup> n/a = Not applicable.

<sup>c</sup> PCBs = Polychlorinated biphenyls.

**LOS ALAMOS NATIONAL LABORATORY  
ANALYTICAL RESULTS FOLLOWING COMPLETION OF CORRECTIVE ACTION  
BY CERTIFICATION OF A NO EXPOSURE CONDITION**

PF: J024

PJ-SMA-17

Site: 54-018

**Table 3  
Applicable TALs**

Analyte	Units	CAS No.	MQL	ATAL	MTAL
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
Aluminum	µg/L	7429-90-5	2.5	n/a	750
Antimony	µg/L	7440-36-0	60	640	n/a
Arsenic	µg/L	7440-38-2	0.5	9	340
Boron	µg/L	7440-42-8	100	5000	n/a
Cadmium	µg/L	7440-43-9	1	n/a	0.6
Chromium	µg/L	7440-47-3	10	n/a	210
Cobalt	µg/L	7440-48-4	50	1000	n/a
Copper	µg/L	7440-50-8	0.5	n/a	4.3
Lead	µg/L	7439-92-1	0.5	n/a	17
Mercury	µg/L	7439-97-6	0.005	0.77	1.4
Nickel	µg/L	7440-02-0	0.5	n/a	170
Selenium	µg/L	7782-49-2	5	5	20
Silver	µg/L	7440-22-4	0.5	n/a	0.4
Thallium	µg/L	7440-28-0	0.5	6.3	n/a
Vanadium	µg/L	7440-62-2	50	100	n/a
Zinc	µg/L	7440-66-6	20	n/a	42
Total PCB	µg/L	1336-36-3	n/a	0.00064	na

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

\*n/a = Value is not applicable