

**Analytical Results from the First Measurable  
Storm Event Following Installation of Control  
Measures at W-SMA-9.9**

**November 19, 2013**

**NPDES PERMIT NO. NM0030759**

**LA-UR-13-28742**



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

PF: W017

W-SMA-9.9

Site: 11-006(b)

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-9.9. The descriptions and photographs of each enhanced control installed at W-SMA-9.9 were provided to the U.S. Environmental Protection Agency on July 25, 2012 (EP2012-0178/LA-UR-12-22532). Table 3 present each applicable target action level (TAL) for the analytes monitored.

Table 1

**Radiochemical Analytical Results from the First Measurable Storm Event  
Collected on September 13, 2013, Following Installation of Enhanced Controls, SMA W-SMA-9.9**

Sample ID	Analyte	Field Prep	Detect Status	Result (pCi/L)	TAL Exceedance Ratio <sup>a</sup>	Minimum Detectable Activity (pCi/L)	Uncertainty (pCi/L)	Qualifier <sup>b</sup>	Data Receipt Date
WT_IPC-13-32142	Gross alpha	Unfiltered	Detect	74.4	4.960	4.08	3.07	NQ	10/28/13

<sup>a</sup> Preliminary average TAL (ATAL) exceedance ratio from first of two possible samples.

<sup>b</sup> Qualifier: NQ = Result is not qualified.

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Table 2

**Metals and Organic Analytical Results from the First Measurable Storm Event  
Collected on September 13, 2013, Following Installation of Enhanced Controls, SMA W-SMA-9.9**

Sample ID	Analyte	Field Prep	Detect Status	Result	Units	TAL Exceedance Ratio <sup>a</sup>	Method Detection Limit	Quantitation Limit	Qualifier <sup>b</sup>	Data Receipt Date
WT_IPC-13-32142	Cyanide, weak acid dissociable	Unfiltered	Nondetect	0.005	mg/L	n/a <sup>c</sup>	0.00167	0.005	U	10/24/13
WT_IPC-13-32100	Aluminum	Filtered	Detect	199	µg/L	0.265	15	50	NQ	10/25/13

<sup>a</sup> Preliminary ATAL exceedance ratio from first of two possible samples.

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

<sup>c</sup> n/a = Value is not applicable.

**Table 3  
Applicable TALs**

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Aluminum, Dissolved	µg/L	7429-90-5	2.5	n/a*	750
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; MTAL = maximum TAL.

\*n/a = Value is not applicable.