

**Analytical Results from the First Measurable  
Storm Event Following Installation of Control  
Measures at F-SMA-2**

**September 25, 2014**

**NPDES PERMIT NO. NM0030759**

**LA-UR-14-27455**



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

PF: F001

F-SMA-2

Sites: 36-004(c)

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) F-SMA-2. The descriptions and photographs of each enhanced control installed at F-SMA-2 were provided to the U.S. Environmental Protection Agency on July 11, 2014 (EP2014-0303/LA-UR-14-23983). 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 15, 2014, Following Installation of Enhanced Controls, SMA F-SMA-2**

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-14-81184	Gross alpha	Unfiltered	Detect	112	7.467	4.74	4.85	J	8/25/2014

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

\* Qualifier: J = Result is not estimated.

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Table 2

**Metals and Organic Analytical Results from the First Measurable Storm Event  
Collected on July 9, 2014, Following Installation of Enhanced Controls, SMA F-SMA-2**

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	TAL Exceedance Ratio	Method Detection Limit	Quantitation Limit	Qualifier*	Data Receipt Date
WT_IPC-14-55946	Aluminum	Filtered	Detect	306	0.408	15	50	NQ	25-Aug-14
WT_IPC-14-55946	Copper	Filtered	Detect	10.8	2.512	0.35	1.0	NQ	25-Aug-14

\* Qualifier: NQ = Result is not qualified.

**Table 3  
Applicable TALs**

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Aluminum, Dissolved	µg/L	7429-90-5	2.5	n/a	750
Copper, Dissolved	µg/L	7440-40-8	0.5	n/a	4.3
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.