

**Analytical Results from the First Measurable
Storm Event Following Installation of Control
Measures at S-SMA-3.53**

September 5, 2014

NPDES PERMIT NO. NM0030759

LA-UR-14-26798

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

PF: S005B

S-SMA-3.53

Site: 03-014(b2)

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) S-SMA-3.53. The descriptions and photographs of each enhanced control installed at S-SMA-3.53 were provided to the U.S. Environmental Protection Agency on June 4, 2013 (EP2013-0104/LA-UR-13-22188). 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 7, 2014, Following Installation of Enhanced Controls, SMA S-SMA-3.53**

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-14-56117	Gross alpha	Unfiltered	Detect	34.4	2.293	3.92	2.24	NQ	18-Aug-14

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: S005B

S-SMA-3.53

Site: 03-014(b2)

Table 2

**Metals and Organic Analytical Results from the First Measurable Storm Event
Collected on July 7, 2014, Following Installation of Enhanced Controls, SMA S-SMA-3.53**

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-14-55812	Aluminum	Filtered	Detect	208	0.277	15	50	NQ	18-Aug-14
WT_IPC-14-55812	Copper	Filtered	Detect	7.41	1.723	0.35	1	NQ	18-Aug-14
WT_IPC-14-56117	Total Polychlorinated biphenyls (PCBs)	Unfiltered	Detect	0.0997	155.781	n/a ^b	n/a	NQ	12-Aug-14

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.

**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
Total PCBs	µg/L	1336-36-3	n/a	0.00064	n/a

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

*n/a = Value is not applicable.