

*Opposite*

ENTERED



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*Date:* MAY 20 2015  
*Refer To:* ADESH-15-077  
*LAUR:* 15-23262  
*Locates Action No.:* N/A

RECEIVED

Nicholas Schiavo, Water Division Director  
Sangre de Cristo Water Division  
City of Santa Fe  
801 West San Mateo, P.O. Box 909  
Santa Fe, New Mexico 87504

JUN - 5 2015

NMED  
Hazardous Waste Bureau

**Subject: Los Alamos National Laboratory Sitewide Monitoring Program, City of Santa Fe  
Buckman Water-Supply Wells, 2015–2016 Sampling and Analysis Plan**

Dear Mr. Schiavo:

Los Alamos National Laboratory (the Laboratory) has sampled Buckman water-supply wells since 2001. The attached sampling and analysis plan represents the Laboratory's commitment for the next four quarters of sampling beginning on June 1, 2015.

The Laboratory will implement the following practices associated with groundwater data collected from Buckman water-supply wells:

1. The Laboratory will provide an automated report of the data upon receipt from the analytical laboratory. Sixty days after the automated report is provided to the City of Santa Fe (hereafter, the City), the data will be posted to the publicly accessible website, Intellus (<http://www.intellusnm.com/>).
2. If a potential contaminant is detected in a Buckman production well, the Laboratory will work with the Water Division to evaluate the data and review the need to modify the sampling and analysis plan to address any questions raised by the potential contaminant.



If you have questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Hai Shen at (505) 665-5046 (hai.shen@em.doe.gov).

Sincerely,



Alison M. Dorries, Division Leader  
Environmental Protection Division  
Los Alamos National Laboratory

Sincerely,



Christine Gelles, Acting Manager  
Environmental Management  
Los Alamos Field Office

AD/CG/DM/SP:sm

Attachment: City of Santa Fe Buckman Water Supply Wells, 2015–2016 Sampling and Analysis Plan (EP2015-0090)

Cy: (w/att.)

Laurie King, EPA Region 6, Dallas, TX  
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PRS Database  
ADESH Records

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Amy De Palma, PADOPS  
Michael Lansing, PADOPS

**City of Santa Fe Buckman Water-Supply Wells  
2015–2016 Sampling and Analysis Plan**

Location	Analytical Suites										
	Metals (filtered, unfiltered)		Organics (unfiltered)				Radionuclides (unfiltered)		Inorganics (filtered, unfiltered)		
	Metals <sup>a</sup>	Chromium	VOCs	SVOCs	PCBs	HEXP	Radionuclides <sup>b</sup>	Low-Level Tritium	General <sup>c</sup>	Nitrate+nitrite	Perchlorate
Buckman No. 1	1, 3	— <sup>d</sup>	1, 3	1, 3	1, 3	1, 3	1, 3	1, 2, 3, 4	1, 3	—	1, 3
Buckman No. 6	1, 3	—	1, 3	1, 3	1, 3	1, 3	1, 3	1, 2, 3, 4	1, 3	—	1, 3
Buckman No. 8	1, 3	—	1, 3	1, 3	1, 3	1, 3	1, 3	1, 2, 3, 4	1, 3	—	1, 3
SF-3A	—	4	—	—	—	—	—	4	—	4	4
SF-4A	—	4	—	—	—	—	—	4	—	4	4

**Notes:**

Sampling schedule: 1 = Apr–June 2015; 2 = July–Sept 2015; 3 = Oct–Dec 2015; 4 = Jan–Mar 2016.

Samples collected for filtered analysis include metals, anions, cations, nitrate plus nitrite, ammonia, total phosphorus, specific conductance, pH, total dissolved solids (TDS), alkalinity, hardness, and perchlorate.

Samples collected for unfiltered analysis include mercury, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), high explosive compounds (HEXP), radionuclides, tritium, total cyanide, total Kjeldahl nitrogen (TKN), and total organic carbon (TOC).

Quality Control samples will be collected according to Appendix D in the Interim Facility-Wide Groundwater Monitoring Plan for the 2014 Monitoring Year, October 2013–September 2014.

<sup>a</sup> Metals analysis includes Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, SiO<sub>2</sub>, Sn, Ti, V, U, and Zn.

<sup>b</sup> The radionuclide suite includes radium-226 and radium-228, americium-241, strontium-90, isotopic uranium, isotopic plutonium, gamma spectroscopy (for cesium-137, cobalt-60, neptunium-237, potassium-40, and sodium-22), gross alpha, gross beta, and gross gamma.

<sup>c</sup> General inorganic analysis includes major anions (bromide, chloride, fluoride, sulfate); major cations (calcium, magnesium, sodium, potassium); nitrate plus nitrite (as N); TKN; ammonia; total phosphorus; total cyanide; TOC; TDS; alkalinity; specific conductance; pH; and hardness. TKN, TOC, and total cyanide are analyzed only in unfiltered samples.

<sup>d</sup> — = This analytical suite is not scheduled to be collected for this location.