

Office

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*Environmental Programs*  
P.O. Box 1663, MS M991  
Los Alamos, New Mexico 87545  
(505) 606-2337/Fax (505) 665-1812

Date: JUN 12 2012  
Refer To: EP2012-0119

Mr. Brian Snyder, Water Division Director  
Acting Public Utilities Division Director  
Sangre de Cristo Water Division  
City of Santa Fe  
801 West San Mateo  
P.O. Box 909  
Santa Fe, New Mexico 87504

**Subject: Los Alamos National Laboratory Sitewide Monitoring Program, City of Santa Fe  
Buckman Water Supply Wells, 2012–2013 Sampling and Analysis Plan**

Dear Mr. Snyder:

Los Alamos National Laboratory (the Laboratory) has participated in cooperative sampling of select Buckman drinking water-supply wells since 2001. The attached sampling and analysis plan represents the Laboratory's commitment for the next four quarters of sampling beginning in April 2012. The attached plan was reviewed by the Laboratory and the City of Santa Fe Water Division staff (via Alex Puglisi) to ensure the locations, analytes, and frequencies meet our collective data needs.

In addition, the Laboratory would like to confirm its intent to follow the previously agreed upon practices listed below in reporting analytical results from the Buckman production wells:

1. The Laboratory will follow the historical practice waiting 120 days after sample collection before the Buckman production well data are released to the public or posted to the publicly accessible website, Intellus (<http://www.intellusnm.com/>).
2. If some indication of contamination 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 posed by the potential contaminant.

Finally, the Laboratory would like to propose to provide the City of Santa Fe Water Division with an automated electronic report presenting analytical results for each quarterly sampling event.



If you have questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Woody Woodworth at (505) 665-5820 (lance.woodworth@nnsa.doe.gov).

Sincerely,

Sincerely,



Michael J. Graham, Associate Director  
Environmental Programs  
Los Alamos National Laboratory



Peter Maggiore, Assistant Manager  
Environmental Projects Office  
Los Alamos Site Office

MG/PM/CD/SP:sm

Attachment: City of Santa Fe Buckman Water Supply Wells, 2012–2013 Sampling and Analysis Plan (LA-UR-12-21062)

Cy: (w/att.)

Laurie King, EPA Region 6, Dallas, TX  
Steve Rydeen, San Ildefonso Pueblo  
Joe Chavarria, Santa Clara Pueblo  
Alex Puglisi, City of Santa Fe, Santa Fe, NM  
Claudia Borchert, City of Santa Fe, 801 West San Mateo, Santa Fe, NM 87505  
Michael Gonzales, City of Santa Fe, 801 West San Mateo, Santa Fe, NM 87505  
Margaret Ryan, NMED-DWB, P.O. Box 5469, Santa Fe, NM 87502  
Steve Yanicak, NMED-DOE-OB, MS M894  
Hai Shen, DOE-LASO, MS A316  
Woody Woodworth, DOE-LASO, MS A316  
Cheryl Rodriguez, DOE-LASO, MS A316  
Tom Carver, DOE-LASO, MS A316  
Steve Paris, EP-CAP, MS M992  
Suzanne Coyne, IRM-DCS, MS M992  
William Alexander, EP-BPS, MS M992  
RPF, MS M707 (electronic copy)

Cy: (w/o att.)

Tom Skibitski, NMED-OB, Santa Fe, NM (date-stamped letter emailed)  
Annette Russell, DOE-LASO, MS A316 (date-stamped letter emailed)  
David Rhodes, DOE-LASO, MS A316 (date-stamped letter emailed)  
Michael B. Mallory, PADOPS, A102 (date-stamped letter emailed)  
Mike Brandt, ADESHQ, MS K491 (date-stamped letter emailed)  
Mike Saladen, ENV-RCRA, MS K490 (date-stamped letter emailed)  
David Rogers, EP-ET, MS M992 (date-stamped letter emailed)  
Danny Katzman, EP-ET, MS M992 (date-stamped letter emailed)  
Craig Douglass, EP-CAP, MS M996 (date-stamped letter emailed)  
Dave McInroy, EP-CAP, MS M996 (date-stamped letter emailed)  
Michael J. Graham, ADEP, MS M991 (date-stamped letter emailed)

**CITY OF SANTA FE BUCKMAN WATER SUPPLY WELLS,  
2012–2013 SAMPLING AND ANALYSIS PLAN**

**Table 1  
Analytes by Sampling Event**

Well Name	Field Prep	Apr–June 2012 Event	July–Sept 2012 Event	Oct–Dec 2012 Event	Jan–Mar 2013 Event
Buckman No. 1	UF	Full-suite*	Low-level tritium	Full-suite*	Low-level tritium
Buckman No. 1	F	Total Cr		Total Cr	
Buckman No. 6	UF	Full-suite*	Low-level tritium	Full-suite*	Low-level tritium
Buckman No. 6	F	Total Cr		Total Cr	
Buckman No. 8	UF	Full-suite*	Low-level tritium	Full-suite*	Low-level tritium
Buckman No. 8	F	Total Cr		Total Cr	

\*See Table 2 for the full-suite analyte list.

**Table 2  
Full-Suite Analyte List**

Analytes	Analytical Method
TAL metals (23)	EPA:200.7, EPA:200.8
Hg	EPA:245.2
U (mass)	EPA:200.8
TDS	EPA:160.1
Anions: Cl, F, SO <sub>4</sub> , Br	EPA:300.0
Alkalinity	EPA:310.1
Hardness	SM:A2340B
Cyanide	EPA:335.4
Ammonia	EPA:350.1
TKN	EPA:351.2
Nitrate+nitrite	EPA:353.2
Total P	EPA:365.4
VOC	EPA:624 or SW-848:8260B
Gross alpha/beta/gamma	EPA:900
Ra-226 & -228	EPA:903.1 & EPA:904.0
Sr-90	EPA:905.0
Low-level tritium	American Radiation Services
Am-241	HASL-300:AM-241
Cs-137	EPA:901.1
Np-237	HASL-300:Np-237
Pu (isotopic)	HASL-300:ISOPU
U (isotopic)	HASL-300:ISOU
Th (isotopic)	HASL-300:ISOTH
PCBs	SW-846:8082
High explosives	SW-846:8321A_MOD
Perchlorate	SW846:6850