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ATL

Date: September 10, 1999  
 Refer to: E/ER:99-258

1953  
 TA-16

Mr. John Kieling  
 NMED-HRMB  
 P.O. Box 26110  
 Santa Fe, NM 87502

RCRA PERMITS PROGRAM  
 99 SEP 16 PM 4:40

**SUBJECT: TA-16 QUARTERLY WATER SAMPLING NOTIFICATION**

Dear Mr. Kieling:

The Laboratory's Environmental Restoration Project is planning to conduct quarterly water sampling at Technical Area (TA) 16 between September 23-30, 1999. This activity is part of an ongoing effort to understand the hydrogeologic system at TA-16.

Samples will be collected as shown in the table below.

Plan/ Document	Location	Number of Samples	Sample Type	Analyses
CMS Plan for PRS 16-021(c) LA-UR-98-3918 EM/ER:98-397  RFI Report for PRSs in TA-16, 16-003(k) 16-021(c) LA-UR-96-3191 EM/ER:96-502	5 Alluvial Wells in Cañon de Valle	10 samples (5 filtered, metals only, 5 unfiltered)	Groundwater	<ul style="list-style-type: none"> <li>Anions including nitrate</li> <li>Bicarbonate</li> <li>Hydrogen and Oxygen Isotopes</li> <li>High Explosives</li> <li>Metals including Boron (the only filtered analysis)</li> <li>Nitrogen Isotopes (Currently there is no laboratory for analyzing the oxygen isotope ratio on the nitrate, so they are collected and stored in a refrigerator.)</li> <li>Semivolatile organics (collected once a year)</li> <li>Volatile organics</li> </ul>



Plan/ Document	Location	Number of Samples	Sample Type	Analyses
<p>CMS Plan for PRS 16-021(c) LA-UR-98-3918 EM/ER:98-397</p> <p>RFI Report for PRSs in TA-16, 16-003(k) 16-021(c) LA-UR-96-3191 EM/ER:96-502</p>	<p>Burning Ground Spring, SWSC Spring, Martin Spring</p>	<p>6 samples (3 filtered, metals only, 3 unfiltered)</p>	<p>Groundwater</p>	<ul style="list-style-type: none"> <li>• Anions including nitrate</li> <li>• Bicarbonate</li> <li>• Hydrogen and Oxygen Isotopes</li> <li>• Extended High Explosives suite including nitroglycerine and PETN</li> <li>• Metals including Boron (the only filtered analysis)</li> <li>• Nitrogen Isotopes (Currently there is no laboratory for analyzing the oxygen isotope ratio on the nitrate, so they are collected and stored in a refrigerator.)</li> <li>• Semivolatile organics (collected once a year)</li> <li>• Tritium (low level)</li> <li>• Total Uranium</li> <li>• Volatile organics</li> </ul>
<p>CMS Plan for PRS 16-021(c) LA-UR-98-3918 EM/ER:98-397</p> <p>RFI Report for PRSs in TA-16, 16-003(k) 16-021(c) LA-UR-96-3191 EM/ER:96-502</p>	<p>Peter Seep, Fishladder Seep, Cañon de Valle/Water confluence, Cañon de Valle Headwaters, 90's Line pond, and the Cañon de Valle/ Fishladder canyon confluence</p>	<p>12 samples (6 filtered, metals only, 6 unfiltered)</p>	<p>Surface Water</p>	<ul style="list-style-type: none"> <li>• Anions including nitrate</li> <li>• Bicarbonate</li> <li>• Hydrogen and Oxygen Isotopes</li> <li>• Extended High Explosives suite including nitroglycerine and PETN</li> <li>• Metals including Boron (the only filtered analysis)</li> <li>• Nitrogen Isotopes (Currently there is no laboratory for analyzing the oxygen isotope ratio on the nitrate, so they are collected and stored in a refrigerator.)</li> <li>• Semivolatile organics (collected once a year)</li> <li>• Tritium (low level)</li> <li>• Total Uranium</li> <li>• Volatile organics</li> </ul>

If you have any questions or concerns please feel free to give me a call at

(505) 667-0819.

Sincerely,



David McInroy  
Environmental Restoration Project

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