



**Environmental Programs**

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Date: April 25, 2007  
Refer To: EP2007-0232

James P. Bearzi  
Bureau Chief  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87505-6303

**Subject: Review of March 2007 Groundwater Data**

Dear Mr. Bearzi:

The Los Alamos National Laboratory Water Stewardship Project (LWSP) met on April 10, 2007, to review new groundwater data received in March 2007. At that time, two water samples were identified with contaminant concentrations above the New Mexico water quality standards. The LWSP Director notified the Hazardous Waste Bureau by telephone on April 11, 2007.

This letter is our written submission that indicates (in Table 1) the contaminant(s) shown to have exceeded New Mexico water-quality standards or the federal maximum contaminant level. It appears that high explosives samples from the upper two intermediate ports at Cañon de Valle well R-25 were switched in the field or analytical laboratory. The RDX concentration at 891 ft of 38 µg/L is the highest yet measured, and was previously only <1 µg/L. This is the first RDX detection at this screen above the standard.

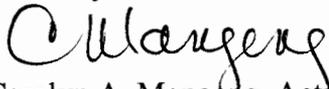
Additional details regarding these analytical results are provided in our monthly data report e-mail for March, sent the week of April 16, 2007.

Regional well R-25 will be sampled during the next Water/Cañon de Valle watershed monitoring event which is scheduled from May 8 to 28, 2007. Regional well R-17 will be sampled the week of April 23, 2007.



If you have questions, please contact Ardyth Simmons at (505) 665-3935 (asimmons@lanl.gov) or Mat Johansen at (505) 665-5046 (mjohansen@doeal.gov).

Sincerely,



Carolyn A. Mangeng, Acting Associate Director  
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Sincerely,



George J. Rael, Assistant Manager  
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CM/GR/AS/DB:am

Enclosure: Table 1: New Groundwater Analytical Data Exceeding New Mexico Water Quality Standards or the Federal Maximum Contaminant Level in March 2007 (EP2007-0232)

Cy: (w/enc.)

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**Table 1**  
**New Groundwater Analytical Data Exceeding New Mexico Water Quality Standards**  
**or the Federal Maximum Contaminant Level in March 2007**

Location Name	Port Depth (ft)	Date	Field Prep.	Analyte Desc.	Analyte	Result	MDL <sup>a</sup> (µg/L)	Dilution Factor	Lab. Qual. Code	Validation Flag Code	Validation Reason Code	Prelim. Flag	Anyl. Meth. Code	Lab. Code	EPA TAP Screening Level	NM GW LIM. Screening Level
R-17	1057	02/22/07	UF <sup>b</sup>	Phenol	108-95-2	15.8	1.08	1	None	None	None	N <sup>c</sup>	SW-846:8270C	GEL <sup>d</sup>	None	5
R-25	891.8	02/07/07	UF	RDX	121-82-4	38.4	1.3	20	None	J <sup>e</sup>	LMS1 <sup>f</sup>	N	SW-846:8321A_MOD	GEL	0.611	None

Note: R-17 located at Northing 1765861.23 and Easting 1627795.96. R-25 is located at Northing 1764060.5 and Easting 1615178.42.

<sup>a</sup> MDL = Minimum detection limit.

<sup>b</sup> UF = Unfiltered.

<sup>c</sup> N = No.

<sup>d</sup> GEL = General Engineering Laboratories, Inc., Charleston, SC.

<sup>e</sup> J = The result for this analyte was greater than the MDL but less than the practical quantitation limit.

<sup>f</sup> LMS1 = An applicable matrix spike/matrix spike duplicate (MS/MSD) analysis was not performed.