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National Nuclear Security Administration
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Date: December 26, 2008
Refer To: EP2008-0650

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 November 2008 Groundwater Data

Dear Mr. Bearzi:

The Los Alamos National Laboratory (LANL) Water Stewardship Project (LWSP) met on December 11, 2008, to review new groundwater data received in November 2008. At that time, several groundwater samples were identified with contaminant concentrations above the New Mexico or federal water quality standards.

The LWSP program manager notified the New Mexico Environment Department (NMED) Hazardous Waste Bureau about these findings by telephone on December 11, 2008, and followed up with an email on the same day.

The four instances of a contaminant above a standard for the first time (based on samples collected since June 14, 2007) are tabulated in the attached report. Samples collected at these locations before June 14, 2007, also contained the same contaminants at concentrations above a standard, with the following exception:

- Methylene chloride was detected at 5.38 $\mu\text{g}/\text{L}$ in an unfiltered sample collected at the City of Santa Fe Buckman well no. 1; the U.S. Environmental Protection Agency maximum contaminant level is 5 $\mu\text{g}/\text{L}$. This compound is a common analytical laboratory contaminant and was found in several other groundwater and field quality control samples collected during this period.

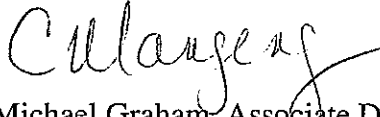
This letter is our written submission that indicates in the accompanying report and tables the chemical constituents that meet the seven screening criteria laid out in the Compliance Order on Consent (the Consent Order), modified on May 13, 2008.

We would like to notify NMED of our discovery this month that our reporting program has not correctly identified data that meet the criteria 5 and 6 of the Consent Order, modified on May 13, 2008. These two criteria require us to identify cases where constituents exceed either 2 times the background level or one-half the standard and have increased for the third consecutive sampling event. We have made it a priority to correct this programming, and as soon as this occurs we will review data collected since June 14, 2007, and notify NMED of any unreported cases where criteria 5 and 6 are met. We will also review programming for the remaining criteria at the same time to ensure our reporting is complete.



If you have questions, please contact Ardyth Simmons at (505) 665-3935 (asimmons@lanl.gov) or David Gregory at (505) 667-5808 (dgregory@doeal.gov).

Sincerely,



Michael Graham, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,



David R. Gregory, Project Director
Environmental Operations
Los Alamos Site Office

MG/DG/PH/AS/DR:sm

Enclosure: Report and accompanying tables: "Summary of New Los Alamos National Laboratory Groundwater Data Loaded in November 2008" (LA-UR-08-7795)

Cy: (w/enc.)

Neil Weber, San Ildefonso Pueblo
David Rogers, EP-LWSP, MS M992
RPF, MS M707 (with two CDs)
Public Reading Room, MS M992

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Laurie King, EPA Region 6, Dallas, TX
Steve Yanicak, NMED-OB, White Rock, NM
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Florie Caporuscio, EES-6, MS J514
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Tom Skibitski, NMED-OB, Santa Fe, NM
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Michael Graham, ADEP, MS M991
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SUMMARY OF NEW LOS ALAMOS NATIONAL LABORATORY GROUNDWATER DATA LOADED IN NOVEMBER 2008

INTRODUCTION

This report provides preliminary information to the New Mexico Environment Department (NMED) concerning recent groundwater monitoring data obtained by the Los Alamos National Laboratory (the Laboratory) under its interim monitoring plan. This report contains results for chemical constituents that meet the seven screening criteria laid out in the Compliance Order on Consent (Consent Order), modified May 13, 2008. The report covers groundwater samples taken from wells or springs (listed in the accompanying table) that provide surveillance of the groundwater zones indicated in the table.

The report includes one table, *Table 1: NMED 11-08 Groundwater Report*. This table contains numerous values, often because new data are reported when they are detected for the first time since June 14, 2007, or are greater than other data collected since that time (as specified in the Consent Order). These reported data are often similar to data gathered before June 14, 2007. Over time, the data that exceed the reference data are expected to be reduced substantially.

This table includes additional comments on the significance of the results for those that appear to be exceptional or are first-time occurrences of results based on considering monitoring data acquired before June 14, 2007 (using statistics described below).

The table contains supplemental information summarizing monitoring results obtained before June 14, 2007.

The table includes sampling date, the name of the well or spring, the location of the well or spring, the depth of the screened interval, the groundwater zone sampled, analytical result, detection limit, values for regulatory standards, and analytical and secondary validation qualifiers. Additional information describing the locations and analytical data is also included. All data have been through secondary validation. The definitions for abbreviations in the table may be found at <http://www.lanl.gov/environment/all/racer.shtml>.

In accordance with the Consent Order, the screening levels used include the U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs), the New Mexico groundwater standards, and the EPA Region 6 tap water screening levels (for compounds having no other regulatory standard). In the table, the EPA Region 6 tap water screening levels are identified as being for cancer (10^{-5} excess) or noncancer risk values. The data were screened using 10 times the EPA's 10^{-6} excess cancer risk values, as indicated in Section VIII.A.1 of the Consent Order.

Background levels applied in Criteria 2 and 5 are the most recent NMED-approved 95% upper tolerance limits for background for each groundwater zone as set forth in the "Groundwater Background Investigation Report," prepared under Section IV.A.3.d of the Consent Order.

Criteria 5 and 6 involve conclusions based on four consecutive samples. No results are included for these criteria in the table because few locations have been sampled a sufficient number of times since June 14, 2007, to meet the criteria.

DESCRIPTION OF TABLE

The table is divided into separate categories that correspond to the seven screening criteria in the Consent Order: these are labeled (in the first column) C1 through C6 for the numbered criteria and CA for

cases where the concentration of a constituent in a well screen or spring has not previously exceeded either the New Mexico Water Quality Control Commission (NMWQCC) standard or the federal MCLs. Some data meet more than one criterion and appear in the table multiple times. The criteria are as follows:

- CA. The Respondents shall notify the Department orally within one business day after review of the analytical data if such data show detection of a contaminant in a well screen interval or spring at a concentration that exceeds either the NMWQCC water quality standard or the federal MCL if that contaminant has not previously exceeded such water quality standard or maximum contaminant level in such well screen interval or spring.
- C1. Detection of a contaminant that is an organic compound in a spring or screened interval of a well if that contaminant has not previously been detected in the spring or screened interval.
- C2. Detection of a contaminant that is a metal or other inorganic compound at a concentration above the background level in a spring or screened interval of a well if that contaminant has not previously exceeded the background level in the spring or screened interval.
- C3. Detection of a contaminant in a spring or screened interval of a well at a concentration that exceeds either one-half the New Mexico water quality standard or one-half the federal maximum contaminant level, or if there is no such standard for the contaminant, one-half the EPA Region 6 human health medium-specific screening level for tap water, if that contaminant has not previously exceeded one-half such standard or screening level in the spring or screened interval.
- C4. Detection of perchlorate in a spring or screened interval of a well at a concentration of 2 µg/L or greater if perchlorate at such concentration has not previously been detected in the spring or screened interval.
- C5. Detection of a contaminant that is a metal or other inorganic compound in a spring or screened interval of a well at a concentration that exceeds 2 times the background level for the third consecutive sampling of the spring or screened interval.
- C6. Detection of a contaminant in a spring or screened interval of a well at a concentration that exceeds either one-half the New Mexico water quality standard or one-half the federal MCL, and that has increased for the third consecutive sampling of that spring or screened interval.

The next seven columns of the table give information on monitoring results obtained over a longer time frame than samples collected after June 14, 2007. The columns provide summary statistics on for the samples collected since January 1, 2000, for the same analyte and field preparation (for example, filtered samples). The information includes the date of first sampling event included in the statistics, the numbers of sampling events and samples analyzed, the number of detections, and the minimum, maximum, and median concentration for detections. This information indicates whether the new result is consistent with the range of earlier data.

The subsequent columns contain location and sampling information:

Hdr 1—canyon where monitoring location is found

Zone—groundwater zone sampled by monitoring location (such as alluvial spring)

Location—monitoring location name

Port Depth—depth of top of well screen in feet (0 for springs, -1 if unknown)

Start Date—sample date

Fld QC Type Code—identifies samples that are field duplicates (definitions for these and other abbreviations may be found at <http://www.lanl.gov/environment/all/racer.shtml>)

Fld Prep—identifies whether samples are filtered or unfiltered

Lab Sample Type Code—indicates whether result is a primary (customer) sample or reanalysis

Anyl Suite—gives analytical suite (such as volatile organic compounds) for analyzed compound

Analyte Desc—name of analyte

Analyte—chemical symbol for analyte or CAS (Chemical Abstracts Service) number for organic compounds

Std Result—the analytical result in standard measurement units

Result/Median—the ratio of the Std Result to the median of all detections since 2000

LVL Type/Risk Code—the type of regulatory standard, screening level, or background value (indicating groundwater zone) used for comparison

Screen Level—the value of the LVL Type/Risk Code

Exceedance Ratio—the ratio of Std Result to LVL Type/Risk Code

Std Mdl—the method detection limit in standard measurement units

Std UOM—the standard units of measurement

Dilution Factor—amount by which the sample was diluted to measure the concentration

Lab Qual Code—the analytical laboratory qualifiers indicating analytical quality of the sample

Concat Flag Code—concatenated secondary validation qualifiers produced by an independent contractor who reviews data packages, verifying, for example, that holding times were met, that all documentation is present, and that analytical laboratory quality control measures were applied, documented, and kept within contract requirements

Concat Reason Code—concatenated secondary validation codes explaining assignment of qualifiers

Anyl Meth Code—analytical method number

Lab Code—analytical laboratory name

Comment—a comment on the analytical result

Table 1: NMED 11-08 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port Depth	Start Date	Fid QC Type Code	Fid Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Symbol	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C1	7	9	06/26/00	1.37	2.9	2.135	2	Upper Los Alamos Canyon (includes DP Canyon)	Alluvial	LAO-3a	4.7	09/02/08	FD	UF	CS	VOA	Acetone	67-64-1		1.37	0.64	EPA TAP SCRNLVL N	5475	0.0	1.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	8	8	01/11/07	1.52	1.52	1.52	1	Sandia Canyon	Intermediate	SCI-1	358.4	08/19/08		UF	CS	VOA	Acetone	67-64-1		1.52	1.00	EPA TAP SCRNLVL N	5475	0.0	1.3	ug/L	1	J	J	V7c	SW-846:8260B	GELC	
C1	8	9	06/29/06	0.075	0.075	0.075	1	Sandia Canyon	Regional	R-10	874	05/27/08		UF	CS	PEST/PCB	Aroclor-1260	11096-82-5		0.075	1.00	EPA PRIM DW STD	0.5	0.2	0.036	ug/L	1	J	J	J_LAB	SW-846:8082	GELC	
C1	8	9	06/29/06	0.0739	0.0739	0.0739	1	Sandia Canyon	Regional	R-10	874	05/27/08		UF	CS	PEST/PCB	Aroclor-1016	12674-11-2		0.0739	1.00	EPA PRIM DW STD	0.5	0.2	0.036	ug/L	1	J	J	J_LAB	SW-846:8082	GELC	
C1	8	9	06/29/06	2.93	2.93	2.93	1	Sandia Canyon	Regional	R-10	874	11/15/07		UF	CS	VOA	Methylene Chloride	75-09-2		2.93	1.00	EPA PRIM DW STD	5	0.6	2	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	Analytical laboratory contaminant
C1	2	2	08/15/07	0.078	0.078	0.078	1	Sandia Canyon	Regional	R-10	1042	11/15/07		UF	CS	HEXP	DNX	DNX		0.078	1.00				0.069	ug/L	1	J	J	J_LAB	SW-846:8330	STSL	
C1	1	2	10/09/08	2.54	2.69	2.615	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	10/09/08		UF	CS	SVOA	Bis(2-ethylhexyl)phthalate	117-81-7		2.69	1.03	EPA PRIM DW STD	6	0.5	2.2	ug/L	1	J	J	SV7c	SW-846:8270C	GELC	
C1	1	2	10/09/08	2.54	2.69	2.615	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	10/09/08	FD	UF	CS	SVOA	Bis(2-ethylhexyl)phthalate	117-81-7		2.54	0.97	EPA PRIM DW STD	6	0.4	2.2	ug/L	1	J	J	SV7c	SW-846:8270C	GELC	
C1	1	2	10/09/08	0.523	0.523	0.523	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	10/09/08	FD	UF	CS	VOA	Toluene	108-88-3		0.523	1.00	NM GW STD	750	0.0	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	1	2	10/09/08	16.9	54.6	35.75	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	10/09/08	FD	UF	CS	VOA	Acetone	67-64-1		54.6	1.53	EPA TAP SCRNLVL N	5475	0.0	1.5	ug/L	1				SW-846:8260B	GELC	From drilling additives?
C1	1	2	10/09/08	16.9	54.6	35.75	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	10/09/08		UF	CS	VOA	Acetone	67-64-1		16.9	0.47	EPA TAP SCRNLVL N	5475	0.0	1.5	ug/L	1				SW-846:8260B	GELC	From drilling additives?
C1	1	2	09/12/08	1.27	1.27	1.27	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	TMO-1	3.5	09/12/08	FD	UF	CS	VOA	Butanone[2-]	78-93-3		1.27	1.00	EPA TAP SCRNLVL N	7064.5	0.0	1.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	10	16	06/27/06	0.504	0.504	0.504	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-10	20.6	09/18/08		UF	CS	VOA	Dichloroethane[1,2-]	107-06-2		0.504	1.00	EPA PRIM DW STD	5	0.1	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	10	16	06/27/06	0.458	0.458	0.458	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-10	20.6	09/18/08		UF	CS	VOA	Trichloroethane[1,1,2-]	79-00-5		0.458	1.00	EPA PRIM DW STD	5	0.1	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	10	22	06/23/06	0.998	1.22	1.109	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	09/18/08		UF	CS	VOA	Dichloroethane[1,2-]	107-06-2		1.22	1.10	EPA PRIM DW STD	5	0.2	0.25	ug/L	1				SW-846:8260B	GELC	
C1	10	22	06/23/06	0.998	1.22	1.109	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	09/18/08	FD	UF	CS	VOA	Dichloroethane[1,2-]	107-06-2		0.998	0.90	EPA PRIM DW STD	5	0.2	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	3	5	09/06/07	6.78	6.78	6.78	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	400.3	09/16/08	FD	UF	CS	VOA	Acetonitrile	75-05-8		6.78	1.00	EPA TAP SCRNLVL N	124.1	0.1	6.3	ug/L	1	J	J	V7b	SW-846:8260B	GELC	Not in primary sample
C1	28	30	03/23/00	0.412	3.68	0.489	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02656	3	10/07/08		UF	CS	VOA	Toluene	108-88-3		3.68	7.53	NM GW STD	750	0.0	0.25	ug/L	1				SW-846:8260B	GELC	
C1	28	30	03/23/00	2.42	13.5	2.91	5	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02656	3	10/07/08		UF	CS	VOA	Acetone	67-64-1		2.42	0.83	EPA TAP SCRNLVL N	5475	0.0	1.5	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port Depth	Start Date	Fid QC Type Code	Fid Prep Code	Lab Sample Type Code	AnyI Suite Code	Analyte Desc	Analyte	Symbol	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	AnyI Meth Code	Lab Code	Comment
C1	29	36	03/23/00	0.0841	0.27	0.134	7	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02658	1.9	10/08/08		UF	CS	HEXP	Amino-2,6-dinitrotoluene[4-]	19406-51-0		0.174	1.30				0.13	ug/L	2	J	J	J_LAB	SW-846:8321A_MOD	GELC	
C1	16	20	07/18/01	0.21	1.2	0.67	6	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02659	1.7	10/08/08		UF	CS	HEXP	DNX	DNX		0.87	1.30				0.069	ug/L	1		J	H7c	SW-846:8330	STSL	
C1	16	20	07/18/01	0.054	2.1	0.51	9	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02659	1.7	10/08/08		UF	CS	HEXP	TNX	TNX		1.7	3.33				0.082	ug/L	1		J	H0	SW-846:8330	STSL	
C1	28	40	03/21/00	1.48	6.1	2.8	11	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Burning Ground Spring	0	10/07/08		UF	CS	VOA	Acetone	67-64-1		3.43	1.23	EPA TAP SCRNLVL N	5475	0.0	1.5	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	28	40	03/21/00	1.48	6.1	2.8	11	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Burning Ground Spring	0	10/07/08	FD	UF	CS	VOA	Acetone	67-64-1		2.8	1.00	EPA TAP SCRNLVL N	5475	0.0	1.5	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	44	64	01/31/00	0.118	1.9	0.68	20	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	10/08/08		UF	CS	HEXP	Trinitrobenzene[1,3,5-]	99-35-4		0.277	0.41	EPA TAP SCRNLVL N	1095	0.0	0.1	ug/L	2	J	J	J_LAB	SW-846:8321A_MOD	GELC	
C1	9	10	09/24/01	1.56	1.56	1.56	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	09/29/08		UF	CS	VOA	Acetone	67-64-1		1.56	1.00	EPA TAP SCRNLVL N	5475	0.0	1.5	ug/L	1	J	J	V7c	SW-846:8260B	GELC	
C1	5	7	05/25/04	1.34	2.19	1.765	2	White Rock Canyon and Rio Grande	Water Supply	Buckman 1	258	07/15/08		UF	CS	VOA	Acetone	67-64-1		1.34	0.76	EPA TAP SCRNLVL N	5475	0.0	1.3	ug/L	1	J	J	V7c	SW-846:8260B	GELC	
C1	5	7	05/25/04	5.38	5.38	5.38	1	White Rock Canyon and Rio Grande	Water Supply	Buckman 1	258	07/15/08		UF	CS	VOA	Methylene Chloride	75-09-2		5.38	1.00	EPA PRIM DW STD	5	1.1	2	ug/L	1				SW-846:8260B	GELC	Analytical laboratory contaminant
C1	5	5	05/25/04	2.2	2.2	2.2	1	White Rock Canyon and Rio Grande	Water Supply	Buckman 8	380	07/15/08		UF	CS	VOA	Acetone	67-64-1		2.2	1.00	EPA TAP SCRNLVL N	5475	0.0	1.3	ug/L	1	J	J	V7c	SW-846:8260B	GELC	
C2	12	18	06/19/00	0.19	0.59	0.386	6	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-4	1.97	09/04/08		F	CS	METALS	Lead	Pb		0.59	1.53	LANL Avi BGLVL	0.5	1.2	0.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	12	18	06/19/00	0.19	0.59	0.386	6	Pueblo Canyon (includes Acid Canyon)	Alluvial	PAO-4	1.97	09/04/08	FD	F	CS	METALS	Lead	Pb		0.56	1.45	LANL Avi BGLVL	0.5	1.1	0.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	6	6	05/11/05	0.0516	0.093	0.0701	3	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	08/27/08		F	CS	GENINORG	Perchlorate	ClO4		0.0701	1.00	LANL Avi BGLVL	0.05	1.4	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C2	8	10	06/27/00	10.9	10.9	10.9	1	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	08/27/08		F	CS	METALS	Zinc	Zn		10.9	1.00	LANL Avi BGLVL	2	5.5	2	ug/L	1				SW-846:6010B	GELC	
C2	8	8	07/27/01	0.108	0.185	0.1195	4	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Basalt Spring	0	08/25/08		F	CS	GENINORG	Bromide	Br(-1)		0.108	0.90	LANL Int BGLVL	0.03	3.6	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	7	8	06/27/00	0.33	1.34	0.925000015	8	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Basalt Spring	0	08/25/08		F	CS	METALS	Uranium	U		1.3	1.41	LANL Int BGLVL	0.72	1.8	0.05	ug/L	1				SW-846:6020	GELC	
C2	7	8	10/12/06	36	46.8	41.4	2	Sandia Canyon	Regional	R-10	874	05/27/08		F	CS	METALS	Iron	Fe		46.8	1.13	LANL Reg BGLVL	21	2.2	25	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	7	8	10/12/06	36	46.8	41.4	2	Sandia Canyon	Regional	R-10	874	08/13/08		F	CS	METALS	Iron	Fe		36	0.87	LANL Reg BGLVL	21	1.7	25	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	7	8	10/12/06	36.5	36.5	36.5	1	Sandia Canyon	Regional	R-10	874	08/13/08		F	CS	METALS	Tin	Sn		36.5	1.00	LANL Reg BGLVL	3.26	11.2	2.5	ug/L	1				SW-846:6010B	GELC	First detection, unusually high result
C2	8	8	06/29/06	26.3	44	27.95	4	Sandia Canyon	Regional	R-10	1042	05/27/08		F	CS	METALS	Iron	Fe		44	1.57	LANL Reg BGLVL	21	2.1	25	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	8	8	06/29/06	26.3	44	27.95	4	Sandia Canyon	Regional	R-10	1042	08/13/08		F	CS	METALS	Iron	Fe		26.3	0.94	LANL Reg BGLVL	21	1.3	25	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	11	13	11/30/05	4.5	6.2	5.5	10	Sandia Canyon	Regional	R-10a	690	02/19/08		F	CS	METALS	Chromium	Cr		5.8	1.05	LANL Reg BGLVL	5.75	1.0	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port Depth	Start Date	Fid QC Type Code	Fid Prep Code	Lab Sample Type Code	AnyI Suite Code	Analyte Desc	Analyte	Symbol	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	AnyI Meth Code	Lab Code	Comment
C2	2	2	06/25/08	0.96	0.96	0.96	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7b2	10	09/13/08		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N		0.96	1.00	LANL Avi BG LVL	0.57	1.7	0.05	mg/L	5				EPA:353.2	GELC	
C2	2	2	06/25/08	1.8	1.8	1.8	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7b2	10	09/13/08		F	CS	METALS	Chromium	Cr		1.8	1.00	LANL Avi BG LVL	1	1.8	1.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	1	1	09/12/08	95.8	95.8	95.8	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	TMO-1	3.5	09/12/08		F	CS	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3		95.8	1.00	LANL Avi BG LVL	76	1.3	0.73	mg/L	1				EPA:310.1	GELC	
C2	1	1	09/12/08	8.1	8.1	8.1	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	TMO-1	3.5	09/12/08		F	CS	GENINORG	Potassium	K		8.1	1.00	LANL Avi BG LVL	5.21	1.6	0.05	mg/L	1				SW-846:6010B	GELC	
C2	1	1	09/12/08	26.8	26.8	26.8	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	TMO-1	3.5	09/12/08		F	CS	GENINORG	Sodium	Na		26.8	1.00	LANL Avi BG LVL	15.54	1.7	0.045	mg/L	1				SW-846:6010B	GELC	
C2	1	1	09/12/08	216	216	216	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	TMO-1	3.5	09/12/08		F	CS	GENINORG	Total Dissolved Solids	TDS		216	1.00	LANL Avi BG LVL	139	1.6	2.4	mg/L	1				EPA:160.1	GELC	
C2	1	1	09/12/08	86.2	86.2	86.2	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	TMO-1	3.5	09/12/08		F	CS	METALS	Barium	Ba		86.2	1.00	LANL Avi BG LVL	68.57	1.3	1	ug/L	1				SW-846:6010B	GELC	
C2	1	1	09/12/08	26.2	26.2	26.2	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	TMO-1	3.5	09/12/08		F	CS	METALS	Manganese	Mn		26.2	1.00	LANL Avi BG LVL	2	13.1	2	ug/L	1				SW-846:6010B	GELC	
C2	1	1	09/12/08	1.4	1.4	1.4	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	TMO-1	3.5	09/12/08		F	CS	METALS	Nickel	Ni		1.4	1.00	LANL Avi BG LVL	1	1.4	0.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	1	1	09/12/08	147	147	147	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	TMO-1	3.5	09/12/08		F	CS	METALS	Strontium	Sr		147	1.00	LANL Avi BG LVL	120	1.2	1	ug/L	1				SW-846:6010B	GELC	
C2	1	1	09/12/08	3.7	3.7	3.7	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	TMO-1	3.5	09/12/08		F	CS	METALS	Zinc	Zn		3.7	1.00	LANL Avi BG LVL	2	1.9	2	ug/L	1	J*	J	J_LAB	SW-846:6010B	GELC	
C2	2	2	06/24/08	0.085	0.085	0.085	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	09/17/08		F	CS	GENINORG	Bromide	Br(-1)		0.085	1.00	LANL Avi BG LVL	0.07	1.2	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	2	2	06/24/08	0.096	0.096	0.096	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	09/17/08		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P		0.096	1.00	LANL Avi BG LVL	0.05	1.9	0.024	mg/L	1				EPA:365.4	GELC	
C2	2	2	06/24/08	2.8	2.8	2.8	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	09/17/08		F	CS	METALS	Chromium	Cr		2.8	1.00	LANL Avi BG LVL	1	2.8	1.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	2	2	06/24/08	1.3	1.3	1.3	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	09/17/08		F	CS	METALS	Vanadium	V		1.3	1.00	LANL Avi BG LVL	1	1.3	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	09/17/08	93.1	93.1	93.1	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	09/17/08		F	CS	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3		93.1	1.00	LANL Avi BG LVL	76	1.2	0.73	mg/L	1				EPA:310.1	GELC	
C2	1	1	09/17/08	0.072	0.072	0.072	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	09/17/08		F	CS	GENINORG	Bromide	Br(-1)		0.072	1.00	LANL Avi BG LVL	0.07	1.0	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	1	1	09/17/08	106	106	106	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	09/17/08		F	CS	GENINORG	Chloride	Cl(-1)		106	1.00	LANL Avi BG LVL	69.76	1.5	0.66	mg/L	10				EPA:300.0	GELC	
C2	1	1	09/17/08	0.085	0.085	0.085	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	09/17/08		F	CS	GENINORG	Perchlorate	ClO4		0.085	1.00	LANL Avi BG LVL	0.05	1.7	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C2	2	2	06/25/08	4.69	5.66	5.175	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	09/17/08		F	CS	GENINORG	Potassium	K		5.66	1.09	LANL Avi BG LVL	5.21	1.1	0.05	mg/L	1				SW-846:6010B	GELC	
C2	2	2	06/25/08	0.102	0.102	0.102	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	09/17/08		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P		0.102	1.00	LANL Avi BG LVL	0.05	2.0	0.024	mg/L	1				EPA:365.4	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port Depth	Start Date	Fid QC Type Code	Fid Prep Code	Lab Sample Type Code	AnyI Suite Code	Analyte Desc	Analyte	Symbol	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	AnyI Meth Code	Lab Code	Comment
C2	1	1	09/17/08	337	337	337	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	09/17/08		F	CS	GENINORG	Total Dissolved Solids	TDS		337	1.00	LANL Avi BG LVL	139	2.4	2.4	mg/L	1				EPA:160.1	GELC	
C2	2	2	06/25/08	1.7	1.7	1.7	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	09/17/08		F	CS	METALS	Chromium	Cr		1.7	1.00	LANL Avi BG LVL	1	1.7	1.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	2	2	06/25/08	0.7	2.3	1.5	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	09/17/08		F	CS	METALS	Nickel	Ni		2.3	1.53	LANL Avi BG LVL	1	2.3	0.5	ug/L	1				SW-846:6020	GELC	
C2	11	11	09/09/04	40.1	74.5	46.2	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Kieling Spring	0	09/12/08		F	CS	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3		61.7	1.34	LANL Int BG LVL	52	1.2	0.73	mg/L	1				EPA:310.1	GELC	
C2	10	10	06/20/05	0.076	0.228	0.152	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Kieling Spring	0	09/12/08		F	CS	GENINORG	Bromide	Br(-1)		0.076	0.50	LANL Int BG LVL	0.03	2.5	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	11	11	09/09/04	10.8	20.3	15.8	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Kieling Spring	0	09/12/08		F	CS	GENINORG	Calcium	Ca		17.5	1.11	LANL Int BG LVL	17.31	1.0	0.03	mg/L	1				SW-846:6010B	GELC	
C2	9	9	08/31/06	30.4	55.5	39.2	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Charlie's Spring	0	09/11/08		F	CS	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3		55.5	1.42	LANL Int BG LVL	52	1.1	0.73	mg/L	1				EPA:310.1	GELC	
C2	10	10	06/27/06	1.7	18.8	3.55	6	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-10	20.6	09/18/08		F	CS	METALS	Vanadium	V		7.1	2.00	LANL Int BG LVL	4.91	1.5	1	ug/L	1				SW-846:6010B	GELC	
C2	10	14	06/23/06	0.55	6.5	0.67	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	09/18/08	FD	F	CS	METALS	Molybdenum	Mo		2.2	3.28	LANL Int BG LVL	2	1.1	0.1	ug/L	1				SW-846:6020	GELC	
C2	10	14	06/23/06	0.55	6.5	0.67	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	09/18/08		F	CS	METALS	Molybdenum	Mo		2.2	3.28	LANL Int BG LVL	2	1.1	0.1	ug/L	1				SW-846:6020	GELC	
C2	10	14	06/23/06	1.5	25.3	4.1	8	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	09/18/08		F	CS	METALS	Vanadium	V		5.7	1.39	LANL Int BG LVL	4.91	1.2	1	ug/L	1				SW-846:6010B	GELC	
C2	10	14	06/23/06	1.5	25.3	4.1	8	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	09/18/08	FD	F	CS	METALS	Vanadium	V		5.4	1.32	LANL Int BG LVL	4.91	1.1	1	ug/L	1				SW-846:6010B	GELC	
C2	5	5	04/10/01	0.0725	89	74.3	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-19	909.3	09/16/08		F	CS	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3		74.3	1.00	LANL Int BG LVL	52	1.4	0.73	mg/L	1				EPA:310.1	GELC	
C2	2	2	07/21/05	0.325	0.342	0.3335	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-19	909.3	09/16/08		F	CS	GENINORG	Perchlorate	ClO4		0.342	1.03	LANL Int BG LVL	0.05	6.8	0.05	ug/L	1				SW-846:6850	GELC	
C2	7	7	09/22/00	0.409	0.71	0.513	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-19	909.3	09/16/08		F	CS	GENINORG	Fluoride	F(-1)		0.513	1.00	LANL Int BG LVL	0.23	2.2	0.033	mg/L	1				EPA:300.0	GELC	
C2	7	7	09/22/00	13	15	13.6	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-19	909.3	09/16/08		F	CS	GENINORG	Sodium	Na		13.6	1.00	LANL Int BG LVL	12.19	1.1	0.045	mg/L	1				SW-846:6010B	GELC	
C2	5	5	08/20/02	145	164	151	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-19	909.3	09/16/08		F	CS	GENINORG	Total Dissolved Solids	TDS		151	1.00	LANL Int BG LVL	127	1.2	2.4	mg/L	1				EPA:160.1	GELC	
C2	7	7	09/22/00	0.539999962	2.7	1.090000004	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-19	909.3	09/16/08		F	CS	METALS	Chromium	Cr		2.7	2.48	LANL Int BG LVL	1	2.7	1.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	1	1	09/16/08	70.7	70.7	70.7	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-19	909.3	09/16/08		F	CS	METALS	Silicon Dioxide	SiO2		70.7	1.00	LANL Int BG LVL	50.72	1.4	0.032	mg/L	1				SW-846:6010B	GELC	
C2	7	7	09/22/00	3	87	44.6500001	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-19	909.3	09/16/08		F	CS	METALS	Zinc	Zn		3	0.07	LANL Int BG LVL	2	1.5	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	3	4	09/06/07	0.07	0.07	0.07	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	400.3	09/16/08		F	CS	GENINORG	Bromide	Br(-1)		0.07	1.00	LANL Int BG LVL	0.03	2.3	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	

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C2	8	9	10/03/06	6.44	8.53	7.26	9	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	470.2	09/15/08		F	CS	GENINORG	Chloride	Cl(-1)		8.53	1.17	LANL Int BG LVL	7.78	1.1	0.066	mg/L	1				EPA:300.0	GELC	
C2	8	9	10/03/06	3.9	8	4.3	8	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	470.2	09/15/08		F	CS	METALS	Vanadium	V		8	1.86	LANL Int BG LVL	4.91	1.6	1	ug/L	1				SW-846:6010B	GELC	
C2	7	7	09/26/00	0.135	0.495	0.2875	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-19	1190.7	09/10/08		UF	CS	GENINORG	Total Organic Carbon	TOC		0.495	1.72	LANL Reg BG LVL	0.33	1.5	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C2	7	7	09/26/00	1.69	32	7.9	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-19	1190.7	09/10/08		F	CS	METALS	Manganese	Mn		7.9	1.00	LANL Reg BG LVL	2.94	2.7	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	09/15/08	0.267	0.267	0.267	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-19	1586.1	09/15/08		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N		0.267	1.00	LANL Reg BG LVL	0.05	5.3	0.03	mg/L	1		J-	I6a	EPA:350.1	GELC	
C2	1	1	09/12/08	0.064	0.064	0.064	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-19	1730.1	09/12/08		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N		0.064	1.00	LANL Reg BG LVL	0.05	1.3	0.03	mg/L	1				EPA:350.1	GELC	Drilling fluid source
C2	7	8	10/04/00	0.65	7.8	1.95	8	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-19	1730.1	09/12/08		UF	CS	GENINORG	Total Organic Carbon	TOC		1.01	0.52	LANL Reg BG LVL	0.33	3.1	0.33	mg/L	1				SW-846:9060	GELC	
C2	2	2	07/28/05	0.207	0.332	0.2695	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-19	1834.7	09/15/08		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N		0.207	0.77	LANL Reg BG LVL	0.05	4.1	0.03	mg/L	1		J-	I6a	EPA:350.1	GELC	Drilling fluid source
C2	7	10	03/11/04	0.048	0.482	0.3575	10	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	907	09/18/08		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N		0.058	0.16	LANL Reg BG LVL	0.05	1.2	0.03	mg/L	1				EPA:350.1	GELC	Drilling fluid source?
C2	7	10	03/11/04	60.3	261	122	8	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	907	09/18/08		F	CS	METALS	Iron	Fe		60.3	0.49	LANL Reg BG LVL	21	2.9	25	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	2	2	06/27/05	0.42	0.531	0.4755	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-22	907.1	09/18/08		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N		0.42	0.88	LANL Reg BG LVL	0.05	8.4	0.03	mg/L	1				EPA:350.1	GELC	Drilling fluid source?
C2	10	11	03/08/01	0.18	0.985	0.4	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-22	1273.5	09/17/08		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N		0.985	2.46	LANL Reg BG LVL	0.89	1.1	0.05	mg/L	5				EPA:353.2	GELC	
C2	2	2	07/01/05	0.123	0.275	0.199	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-22	1378	09/17/08		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N		0.123	0.62	LANL Reg BG LVL	0.05	2.5	0.03	mg/L	1		J-	I6a	EPA:350.1	GELC	Drilling fluid source?
C2	7	8	03/07/01	16.4	23	18	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-22	1378	09/17/08		UF	CS	GENINORG	Total Organic Carbon	TOC		16.8	0.93	LANL Reg BG LVL	0.33	50.9	0.33	mg/L	1				SW-846:9060	GELC	
C2	9	10	04/13/05	2.1	2.1	2.1	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-26	659.3	10/07/08		F	CS	METALS	Nickel	Ni		2.1	1.00	LANL Int BG LVL	1	2.1	0.5	ug/L	1				SW-846:6020	GELC	
C2	19	19	01/29/02	0.243	0.713999987	0.452	9	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	CdV-R-37-2	1359.3	10/08/08		UF	CS	GENINORG	Total Organic Carbon	TOC		0.381	0.84	LANL Reg BG LVL	0.33	1.2	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C2	6	6	09/26/05	0.394	0.482	0.44	6	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	09/29/08		F	CS	GENINORG	Perchlorate	ClO4		0.482	1.10	LANL Reg BG LVL	0.46	1.1	0.05	ug/L	1				SW-846:6850	GELC	
C2	6	9	09/26/05	0.389	0.487	0.43	9	White Rock Canyon and Rio Grande	Regional Spring	Spring 3A	0	09/29/08	FD	F	CS	GENINORG	Perchlorate	ClO4		0.475	1.10	LANL Reg BG LVL	0.46	1.0	0.05	ug/L	1				SW-846:6850	GELC	
C2	6	9	09/26/05	0.389	0.487	0.43	9	White Rock Canyon and Rio Grande	Regional Spring	Spring 3A	0	09/29/08		F	CS	GENINORG	Perchlorate	ClO4		0.487	1.13	LANL Reg BG LVL	0.46	1.1	0.05	ug/L	1				SW-846:6850	GELC	
C2	4	4	09/26/05	0.424	0.468	0.431	4	White Rock Canyon and Rio Grande	Regional Spring	Spring 3AA	0	09/29/08		F	CS	GENINORG	Perchlorate	ClO4		0.468	1.09	LANL Reg BG LVL	0.46	1.0	0.05	ug/L	1				SW-846:6850	GELC	
C2	5	5	10/06/03	2.39	3.08	2.73	5	White Rock Canyon and Rio Grande	Regional Spring	Spring 3AA	0	09/29/08		F	CS	GENINORG	Potassium	K		2.92	1.07	LANL Reg BG LVL	2.63	1.1	0.05	mg/L	1				SW-846:6010B	GELC	
C2	5	5	09/19/06	2.16	2.93	2.62	5	White Rock Canyon and Rio Grande	Regional Spring	Spring 4C	0	09/29/08		F	CS	GENINORG	Potassium	K		2.75	1.05	LANL Reg BG LVL	2.63	1.1	0.05	mg/L	1				SW-846:6010B	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port Depth	Start Date	Fid QC Type Code	Fid Prep Code	Lab Sample Type Code	AnyI Suite Code	Analyte Desc	Analyte	Symbol	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	AnyI Meth Code	Lab Code	Comment
C2	5	5	09/18/06	2.54	2.81	2.63	5	White Rock Canyon and Rio Grande	Regional Spring	Spring 4B	0	09/29/08		F	CS	GENINORG	Potassium	K		2.74	1.04	LANL Reg BG LVL	2.63	1.0	0.05	mg/L	1				SW-846:6010B	GELC	
C2	6	6	09/27/05	0.392	0.463	0.4125	6	White Rock Canyon and Rio Grande	Regional Spring	Spring 5	0	09/30/08		F	CS	GENINORG	Perchlorate	ClO4		0.463	1.12	LANL Reg BG LVL	0.46	1.0	0.05	ug/L	1				SW-846:6850	GELC	
C2	3	3	09/26/00	4.02	4.14	4.04	3	White Rock Canyon and Rio Grande	Regional Spring	Spring 5A	0	09/30/08		F	CS	GENINORG	Chloride	Cl(-1)		4.02	1.00	LANL Reg BG LVL	3.57	1.1	0.066	mg/L	1				EPA:300.0	GELC	
C2	3	3	09/26/00	2.71	3.26	2.94	3	White Rock Canyon and Rio Grande	Regional Spring	Spring 5A	0	09/30/08		F	CS	GENINORG	Potassium	K		3.26	1.11	LANL Reg BG LVL	2.63	1.2	0.05	mg/L	1				SW-846:6010B	GELC	
C2	3	3	09/26/00	19.2	25.8	22.2	3	White Rock Canyon and Rio Grande	Regional Spring	Spring 5A	0	09/30/08		F	CS	GENINORG	Sodium	Na		25.8	1.16	LANL Reg BG LVL	24.5	1.1	0.045	mg/L	1				SW-846:6010B	GELC	
C2	3	3	09/26/00	5.99	7.4	6.76	3	White Rock Canyon and Rio Grande	Regional Spring	Spring 5A	0	09/30/08		F	CS	GENINORG	Sulfate	SO4(-2)		7.4	1.09	LANL Reg BG LVL	7.2	1.0	0.1	mg/L	1				EPA:300.0	GELC	
C2	1	1	09/30/08	1.18	1.18	1.18	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 5A	0	09/30/08		UF	CS	GENINORG	Total Organic Carbon	TOC		1.18	1.00	LANL Reg BG LVL	0.33	3.6	0.33	mg/L	1				SW-846:9060	GELC	
C2	8	9	09/26/00	133	133	133	1	White Rock Canyon and Rio Grande	Regional Spring	Ancho Spring	0	09/30/08		F	CS	METALS	Iron	Fe		133	1.00	LANL Reg BG LVL	21	6.3	25	ug/L	1				SW-846:6010B	GELC	
C2	3	3	09/19/06	0.79	1.37	1.08	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 8A	0	09/30/08		UF	CS	GENINORG	Total Organic Carbon	TOC		0.79	0.73	LANL Reg BG LVL	0.33	2.4	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C2	6	6	09/26/00	30.5	43.2	36.85	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 8A	0	09/30/08		F	CS	METALS	Iron	Fe		30.5	0.83	LANL Reg BG LVL	21	1.5	25	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	3	3	09/19/06	0.931	1.05	0.9905	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 9	0	09/30/08		UF	CS	GENINORG	Total Organic Carbon	TOC		0.931	0.94	LANL Reg BG LVL	0.33	2.8	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C2	2	2	04/23/08	4	4	4	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 9B	0	10/01/08		F	CS	METALS	Zinc	Zn		4	1.00	LANL Reg BG LVL	3.89	1.0	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	07/15/08	8.8	8.8	8.8	1	White Rock Canyon and Rio Grande	Water Supply	Buckman 1	258	07/15/08		F	CS	METALS	Chromium	Cr		8.8	1.00	LANL Reg BG LVL	5.75	1.5	1.5	ug/L	1				SW-846:6020	GELC	
C3	5	5	05/11/05	0.594	3.28	1.18	5	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Basalt Spring	0	08/25/08		F	CS	GENINORG	Perchlorate	ClO4		3.28	2.78	NMED GW CONS	4	1.6	0.25	ug/L	5				SW-846:6850	GELC	Over twice previous high results
C3	8	9	06/29/06	2.93	2.93	2.93	1	Sandia Canyon	Regional	R-10	874	11/15/07		UF	CS	VOA	Methylene Chloride	75-09-2		2.93	1.00	EPA PRIM DW STD	5	1.2	2	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	Analytical laboratory contaminant
C3	2	2	06/25/08	12.6	12.6	12.6	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-9	6	09/17/08		UF	CS	METALS	Lead	Pb		12.6	1.00	EPA PRIM DW STD	15	1.7	0.5	ug/L	1				SW-846:6020	GELC	Not in filtered sample
C3	10	14	06/23/06	4.5	681	37.1	14	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	09/18/08		F	CS	METALS	Manganese	Mn		105	2.83	NM GW STD	200	1.1	2	ug/L	1				SW-846:6010B	GELC	
C3	1	1	09/15/08	0.267	0.267	0.267	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-19	1586.1	09/15/08		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N		0.267	1.00	EPA TAP SCRNLVL	0.20857	2.6	0.03	mg/L	1		J-	I6a	EPA:350.1	GELC	Drilling fluid source?
C3	2	2	07/28/05	0.207	0.332	0.2695	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-19	1834.7	09/15/08		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N		0.207	0.77	EPA TAP SCRNLVL	0.20857	2.0	0.03	mg/L	1		J-	I6a	EPA:350.1	GELC	Drilling fluid source?
C3	2	2	06/27/05	0.42	0.531	0.4755	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-22	907.1	09/18/08		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N		0.42	0.88	EPA TAP SCRNLVL	0.20857	4.0	0.03	mg/L	1				EPA:350.1	GELC	Drilling fluid source?
C3	2	2	07/01/05	0.123	0.275	0.199	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-22	1378	09/17/08		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N		0.123	0.62	EPA TAP SCRNLVL	0.20857	1.2	0.03	mg/L	1		J-	I6a	EPA:350.1	GELC	Drilling fluid source?
C3	6	8	10/10/02	9.8	12.2	11.1	5	White Rock Canyon and Rio Grande	Water Supply	Buckman 1	258	07/15/08		UF	CS	METALS	Arsenic	As		12.2	1.10	EPA PRIM DW STD	10	2.4	1.5	ug/L	1				SW-846:6020	GELC	Similar to past values
C3	5	7	05/25/04	5.38	5.38	5.38	1	White Rock Canyon and Rio Grande	Water Supply	Buckman 1	258	07/15/08		UF	CS	VOA	Methylene Chloride	75-09-2		5.38	1.00	EPA PRIM DW STD	5	2.2	2	ug/L	1				SW-846:8260B	GELC	Analytical laboratory contaminant
C4	5	5	05/11/05	0.594	3.28	1.18	5	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Basalt Spring	0	08/25/08		F	CS	GENINORG	Perchlorate	ClO4		3.28	2.78	NMED GW CONS	4	1.6	0.25	ug/L	5				SW-846:6850	GELC	Over twice previous high results
CA	1	1	09/15/08	0.267	0.267	0.267	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-19	1586.1	09/15/08		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N		0.267	1.00	EPA TAP SCRNLVL	0.20857	1.3	0.03	mg/L	1		J-	I6a	EPA:350.1	GELC	Drilling fluid source?

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port Depth	Start Date	Fid QC Type Code	Fid Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Symbol	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uorn	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
CA	2	2	06/27/05	0.42	0.531	0.4755	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-22	907.1	09/18/08		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N		0.42	0.88	EPA TAP SCRNLVL	0.20857	2.0	0.03	mg/L	1			EPA:350.1	GELC	Drilling fluid source?	
CA	6	8	10/10/02	9.8	12.2	11.1	5	White Rock Canyon and Rio Grande	Water Supply	Buckman 1	258	07/15/08		UF	CS	METALS	Arsenic	As		12.2	1.10	EPA PRIM DW STD	10	1.2	1.5	ug/L	1			SW-846:6020	GELC	Similar to past values	
CA	5	7	05/25/04	5.38	5.38	5.38	1	White Rock Canyon and Rio Grande	Water Supply	Buckman 1	258	07/15/08		UF	CS	VOA	Methylene Chloride	75-09-2		5.38	1.00	EPA PRIM DW STD	5	1.1	2	ug/L	1			SW-846:8260B	GELC	Analytical laboratory contaminant	

