

## SUMMARY OF NEW LOS ALAMOS NATIONAL LABORATORY GROUNDWATER DATA LOADED IN NOVEMBER 2010

### 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 11-10 Groundwater Report*. This table contains some values that 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 have decreased 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 or screening levels, 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 Regional Screening Levels for tap water (for compounds having no other regulatory standard). In the table, the EPA Regional Screening Levels for tap water 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.

### 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 (now the EPA Regional Screening Levels 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, divided by the basis for comparison in the criterion. For example, for a criterion (such as C3) that compares the value to 1/2 the standard, a value equal to a standard has an exceedance ratio of 2.

- C1, C2, and CA refer to a screening value so the exceedance ratio compares the result directly to the screening value.
- C3, C4, and C6 refer to 1/2 of a screening value so the exceedance ratio compares the result to 1/2 the screening value.
- C5 refers to 2 times a screening value so the exceedance ratio compares the result to 2 times the screening value.

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 11-10 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	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	8	03/30/01	0.38	0.38	0.38	1	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-1b	11.32	08/26/10		UF	CS	VOA	Chloromethane	74-87-3	0.38	1.00	EPA TAP SCRNL LVL N	190	0.0	0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	13	15	04/11/01	4.99	4.99	4.99	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02656	3	09/17/10		UF	CS	SVOA	Diethylphthalate	84-66-2	4.99	1.00	EPA TAP SCRNL LVL N	29000	0.0	2.2	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C1	13	15	04/18/01	52	52	52	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	MSC-16-06295	1.5	09/14/10		UF	CS	SVOA	Diethylphthalate	84-66-2	52	1.00	EPA TAP SCRNL LVL N	29000	0.0	2.1	ug/L	1				SW-846:8270C	GELC	
C1	1	1	09/20/10	0.5	0.5	0.5	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	WCO-1r	6	09/20/10		UF	CS	HEXP	RDX	121-82-4	0.5	1.00	EPA TAP SCRNL LVL C-5	6.1	0.1	0.1	ug/L	2				SW-846:8321A_MOD	GELC	
C1	1	1	09/20/10	1.98	1.98	1.98	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	WCO-1r	6	09/20/10		UF	CS	HEXP	HMX	2691-41-0	1.98	1.00	EPA TAP SCRNL LVL N	1800	0.0	0.1	ug/L	2		J	HE7c	SW-846:8321A_MOD	GELC	
C1	3	4	10/22/08	22.6	26.7	24.7	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	CDV-5.0 SPRING	0	09/24/10		UF	CS	SVOA	Diethylphthalate	84-66-2	26.7	1.08	EPA TAP SCRNL LVL N	29000	0.0	2.1	ug/L	1				SW-846:8270C	GELC	
C1	3	4	10/22/08	22.6	26.7	24.7	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	CDV-5.0 SPRING	0	09/24/10	FD	UF	CS	SVOA	Diethylphthalate	84-66-2	22.6	0.91	EPA TAP SCRNL LVL N	29000	0.0	2.1	ug/L	1				SW-846:8270C	GELC	
C1	13	21	04/11/01	2.18	2.18	2.18	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Burning Ground Spring	0	09/10/10		UF	CS	SVOA	Diethylphthalate	84-66-2	2.18	1.00	EPA TAP SCRNL LVL N	29000	0.0	2.1	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C1	12	15	04/18/01	53.6	53.6	53.6	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	09/14/10		UF	CS	SVOA	Diethylphthalate	84-66-2	53.6	1.00	EPA TAP SCRNL LVL N	29000	0.0	2.2	ug/L	1				SW-846:8270C	GELC	
C1	8	8	08/13/01	0.17	0.32	0.28	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	754.8	09/21/10		UF	CS	HEXP	MNX	MNX	0.17	0.61				0.091	ug/L	1	P	J	J_LAB	SW-846:8330	STSL	
C1	8	8	08/13/01	0.23	0.93	0.47	5	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	754.8	09/21/10		UF	CS	HEXP	TNX	TNX	0.47	1.00				0.082	ug/L	1	P	J	J_LAB	SW-846:8330	STSL	
C1	3	3	10/22/08	157	157	157	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	754.8	09/21/10		UF	CS	VOA	Butanol[1-]	71-36-3	157	1.00	EPA TAP SCRNL LVL N	3700	0.0	15	ug/L	1				SW-846:8260B	GELC	
C1	15	15	11/15/00	0.182	0.847	0.515	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	891.8	09/21/10		UF	CS	HEXP	Trinitrobenzene[1,3,5-]	99-35-4	0.182	0.35	EPA TAP SCRNL LVL N	1100	0.0	0.1	ug/L	2	J	J	J_LAB	SW-846:8321A_MOD	GELC	
C1	10	10	08/14/01	0.19	0.19	0.19	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	891.8	09/21/10		UF	CS	HEXP	TNX	TNX	0.19	1.00				0.082	ug/L	1	J	J	J_LAB	SW-846:8330	STSL	
C1	1	1	09/18/10	0.0000123	0.0000123	0.0000123	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip	1110	09/18/10		UF	CS	DIOX/FUR	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	3268-87-9	0.0000123	1.00				0.0000117	ug/L	1	J	J	J_LAB	SW-846:8290	CFA	
C1	3	5	12/21/09	10.1	10.1	10.1	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	09/23/10		UF	CS	SVOA	Diethylphthalate	84-66-2	10.1	1.00	EPA TAP SCRNL LVL N	29000	0.0	2	ug/L	1				SW-846:8270C	GELC	
C1	5	5	08/09/02	19.8	19.8	19.8	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-25	1303.4	09/23/10		UF	CS	SVOA	Benzoic Acid	65-85-0	19.8	1.00	EPA TAP SCRNL LVL N	150000	0.0	7.1	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C1	8	13	07/01/06	0.4	0.4	0.4	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-27	852	09/14/10		UF	CS	SVOA	Indeno(1,2,3-cd)pyrene	193-39-5	0.4	1.00	EPA TAP SCRNL LVL C-5	0.29	1.4	0.22	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	result estimated, not detected in 12 earlier samples
C1	8	13	07/01/06	4.01	4.01	4.01	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-27	852	09/14/10		UF	CS	SVOA	Diethylphthalate	84-66-2	4.01	1.00	EPA TAP SCRNL LVL N	29000	0.0	2.2	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C1	14	19	09/25/00	13.2	22.5	17.9	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	09/27/10		UF	CS	SVOA	Benzoic Acid	65-85-0	13.2	0.74	EPA TAP SCRNL LVL N	150000	0.0	7	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C1	9	9	09/18/06	6.17	6.17	6.17	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 4B	0	09/27/10		UF	CS	SVOA	Diethylphthalate	84-66-2	6.17	1.00	EPA TAP SCRNL LVL N	29000	0.0	2.1	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C1	11	13	09/25/01	44	44	44	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 4A	0	09/27/10		UF	CS	SVOA	Diethylphthalate	84-66-2	44	1.00	EPA TAP SCRNL LVL N	29000	0.0	2.2	ug/L	1				SW-846:8270C	GELC	
C1	6	6	09/25/01	0.3	0.3	0.3	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 6A	0	09/28/10		UF	CS	VOA	Toluene	108-88-3	0.3	1.00	NM GW STD	750	0.0	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	3	3	04/23/08	1.98	1.98	1.98	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 9B	0	09/29/10		UF	CS	VOA	Butanone[2-]	78-93-3	1.98	1.00	EPA TAP SCRNL LVL N	7100	0.0	1.3	ug/L	1	J	J	V7c	SW-846:8260B	GELC	
C2	8	9	03/30/01	2.5	6	3.2	6	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-1b	11.32	08/26/10		F	CS	METALS	Molybdenum	Mo	2.76	0.86	LANL Avl BG LVL	2	1.4	0.1	ug/L	1				SW-846:6020	GELC	
C2	7	9	04/26/07	1.03	1.03	1.03	1	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10	FD	F	CS	METALS	Cobalt	Co	1.03	1.00	LANL Int BG LVL	0.5	2.1	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	7	9	04/26/07	2.51	4.24	3.38	2	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10		F	CS	METALS	Manganese	Mn	2.51	0.74	LANL Int BG LVL	2	1.3	2	ug/L	1	J	J	J_LAB	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	Flt QC Type Code	Flt Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	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
C2	7	9	04/26/07	2.51	4.24	3.38	2	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10	FD	F	CS	METALS	Manganese	Mn	4.24	1.25	LANL Int BG LVL	2	2.1	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	09/20/10	0.178	0.178	0.178	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	WCO-1r	6	09/20/10		F	CS	GENINORG	Perchlorate	ClO4	0.178	1.00	LANL Avl BG LVL	0.05	3.6	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C2	1	1	09/20/10	16.2	16.2	16.2	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	WCO-1r	6	09/20/10		F	CS	GENINORG	Sodium	Na	16.2	1.00	LANL Avl BG LVL	15.54	1.0	0.1	mg/L	1				SW-846:6010B	GELC	
C2	1	1	09/20/10	165	165	165	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	WCO-1r	6	09/20/10		F	CS	GENINORG	Total Dissolved Solids	TDS	165	1.00	LANL Avl BG LVL	139	1.2	2.4	mg/L	1		J	I4a	EPA:160.1	GELC	
C2	1	1	09/20/10	82.8	82.8	82.8	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	WCO-1r	6	09/20/10		F	CS	METALS	Barium	Ba	82.8	1.00	LANL Avl BG LVL	68.57	1.2	1	ug/L	1				SW-846:6010B	GELC	
C2	1	1	09/20/10	1.68	1.68	1.68	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	WCO-1r	6	09/20/10		F	CS	METALS	Vanadium	V	1.68	1.00	LANL Avl BG LVL	1	1.7	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	09/20/10	121	121	121	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	WCO-1r	6	09/20/10		F	CS	METALS	Zinc	Zn	121	1.00	LANL Avl BG LVL	2	60.5	3.3	ug/L	1				SW-846:6010B	GELC	
C2	12	12	12/04/00	0.422	14.5	0.67	12	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	1192.4	09/21/10		F	CS	METALS	Uranium	U	0.812	1.21	LANL Int BG LVL	0.72	1.1	0.05	ug/L	1				SW-846:6020	GELC	
C2	3	3	02/08/10	111	130	121	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-37-1(i)	632	09/21/10		F	CS	GENINORG	Total Dissolved Solids	TDS	130	1.07	LANL Int BG LVL	127	1.0	2.4	mg/L	1				EPA:160.1	GELC	
C2	3	3	02/08/10	17.4	17.4	17.4	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-37-1(i)	632	09/21/10		F	CS	METALS	Boron	B	17.4	1.00	LANL Int BG LVL	15.12	1.2	15	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	3	3	12/11/09	0.197	0.197	0.197	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-27i	619	09/20/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.197	1.00	LANL Int BG LVL	0.08	2.5	0.015	mg/L	1				EPA:365.4	GELC	
C2	10	10	12/07/00	221	221	221	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-25	1303.4	09/23/10		F	CS	METALS	Aluminum	Al	221	1.00	LANL Reg BG LVL	68	3.3	68	ug/L	1				SW-846:6010B	GELC	
C2	9	9	12/07/00	0.124	0.124	0.124	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-25	1303.4	09/23/10		F	CS	METALS	Mercury	Hg	0.124	1.00	LANL Reg BG LVL	0.07	1.8	0.066	ug/L	1	J	J	J_LAB	EPA:245.2	GELC	first detect of nine samples, note estimated value
C2	11	14	12/07/00	1.81	1.81	1.81	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-25	1303.4	09/23/10		UF	CS	METALS	Mercury	Hg	1.81	1.00	LANL Reg BG LVL	0.2	9.1	0.066	ug/L	1				EPA:245.2	GELC	first detect of fourteen samples, note estimated value
C2	13	13	12/08/00	0.104	0.104	0.104	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-25	1406.3	09/22/10		F	CS	METALS	Mercury	Hg	0.104	1.00	LANL Reg BG LVL	0.07	1.5	0.066	ug/L	1	J	J	J_LAB	EPA:245.2	GELC	first detect of thirteen samples, note estimated value, not found in unfiltered sample
C2	4	6	11/23/09	3.15	4.23	3.23	6	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	09/22/10	FD	F	CS	GENINORG	Magnesium	Mg	4.23	1.31	LANL Reg BG LVL	4.15	1.0	0.085	mg/L	1				SW-846:6010B	GELC	
C2	4	6	11/23/09	0.051	0.365	0.105	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	09/22/10	FD	F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.365	3.48	LANL Reg BG LVL	0.16	2.3	0.015	mg/L	1		J	I4a	EPA:365.4	GELC	
C2	4	6	11/23/09	42.4	42.4	42.4	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	09/22/10	FD	F	CS	METALS	Boron	B	42.4	1.00	LANL Reg BG LVL	38.77	1.1	15	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	2	2	05/10/10	1.25	1.25	1.25	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	09/23/10		F	CS	METALS	Cobalt	Co	1.25	1.00	LANL Reg BG LVL	0.5	2.5	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	11	16	09/25/00	2.2	7.49	4.4	13	White Rock Canyon and Rio Grande	Regional Spring	Spring 3A	0	09/27/10	FD	F	CS	METALS	Chromium	Cr	7.49	1.70	LANL Reg BG LVL	5.75	1.3	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	value is estimated, result reflects analytical variability
C2	11	16	09/25/00	2.2	7.49	4.4	13	White Rock Canyon and Rio Grande	Regional Spring	Spring 3A	0	09/27/10		F	CS	METALS	Chromium	Cr	6.99	1.59	LANL Reg BG LVL	5.75	1.2	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	value is estimated, result reflects analytical variability
C2	7	7	10/06/03	1.5	7.2	4.3	5	White Rock Canyon and Rio Grande	Regional Spring	Spring 3AA	0	09/27/10		F	CS	METALS	Chromium	Cr	7.2	1.67	LANL Reg BG LVL	5.75	1.3	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	value is estimated, result reflects analytical variability
C2	7	7	10/06/03	3.35	3.35	3.35	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 3AA	0	09/27/10		F	CS	METALS	Nickel	Ni	3.35	1.00	LANL Reg BG LVL	3.09	1.1	0.5	ug/L	1				SW-846:6020	GELC	
C2	14	16	09/25/00	1.1	6.07	3.4	13	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	09/27/10		F	CS	METALS	Chromium	Cr	6.07	1.79	LANL Reg BG LVL	5.75	1.1	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	value is estimated, result reflects analytical variability
C2	8	8	09/26/05	0.062	0.128	0.081	5	White Rock Canyon and Rio Grande	Regional Spring	Spring 4B	0	09/27/10		F	CS	GENINORG	Bromide	Br(-1)	0.128	1.58	LANL Reg BG LVL	0.1	1.3	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port Depth	Start Date	Flg QC Type Code	Flg Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	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
C2	8	8	09/26/05	0.19	2.95	1.57	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 4B	0	09/27/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	2.95	1.88	LANL Reg BG LVL	0.16	18.4	0.015	mg/L	1				EPA:365.4	GELC	
C2	9	9	09/18/06	1.66	7.08	3.3	6	White Rock Canyon and Rio Grande	Regional Spring	Spring 4B	0	09/27/10		F	CS	METALS	Chromium	Cr	7.08	2.15	LANL Reg BG LVL	5.75	1.2	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	value is estimated, result reflects analytical variability
C2	10	11	09/27/05	0.061	0.128	0.083	8	White Rock Canyon and Rio Grande	Regional Spring	Spring 4AA	0	09/27/10		F	CS	GENINORG	Bromide	Br(-1)	0.128	1.54	LANL Reg BG LVL	0.1	1.3	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	7	8	09/18/06	3.1	6.41	3.85	6	White Rock Canyon and Rio Grande	Regional Spring	Spring 4AA	0	09/27/10		F	CS	METALS	Chromium	Cr	6.41	1.66	LANL Reg BG LVL	5.75	1.1	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	value is estimated, result reflects analytical variability
C2	11	13	09/25/01	82.7	82.7	82.7	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 4A	0	09/27/10		F	CS	METALS	Aluminum	Al	82.7	1.00	LANL Reg BG LVL	68	1.2	68	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	11	13	09/25/01	1.5	7.31	4.4	9	White Rock Canyon and Rio Grande	Regional Spring	Spring 4A	0	09/27/10		F	CS	METALS	Chromium	Cr	7.31	1.66	LANL Reg BG LVL	5.75	1.3	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	value is estimated, result reflects analytical variability
C2	11	11	09/25/01	2	6.13	4.7	8	White Rock Canyon and Rio Grande	Regional Spring	Spring 5	0	09/28/10		F	CS	METALS	Chromium	Cr	6.13	1.30	LANL Reg BG LVL	5.75	1.1	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	value is estimated, result reflects analytical variability
C2	11	11	09/25/01	0.53	8.23	1	3	White Rock Canyon and Rio Grande	Regional Spring	Spring 5	0	09/28/10		F	CS	METALS	Nickel	Ni	8.23	8.23	LANL Reg BG LVL	3.09	2.7	0.5	ug/L	1				SW-846:6020	GELC	
C2	5	5	07/26/00	3.87	4.2	4.01	5	White Rock Canyon and Rio Grande	Regional Spring	Spring 5B	0	09/28/10		F	CS	GENINORG	Magnesium	Mg	4.2	1.05	LANL Reg BG LVL	4.15	1.0	0.085	mg/L	1				SW-846:6010B	GELC	
C2	10	11	09/26/00	7.23	7.23	7.23	1	White Rock Canyon and Rio Grande	Regional Spring	Ancho Spring	0	09/28/10		F	CS	METALS	Nickel	Ni	7.23	1.00	LANL Reg BG LVL	3.09	2.3	0.5	ug/L	1				SW-846:6020	GELC	
C2	9	14	09/26/00	3.1	5.94	3.8	13	White Rock Canyon and Rio Grande	Regional Spring	Spring 6	0	09/28/10		F	CS	METALS	Chromium	Cr	5.94	1.56	LANL Reg BG LVL	5.75	1.0	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	value is estimated, result reflects analytical variability
C2	9	14	09/26/00	5.59	5.59	5.59	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 6	0	09/28/10		F	CS	METALS	Nickel	Ni	5.59	1.00	LANL Reg BG LVL	3.09	1.8	0.5	ug/L	1				SW-846:6020	GELC	
C2	2	2	09/19/06	2.21	2.73	2.47	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 7	0	09/28/10		F	CS	GENINORG	Potassium	K	2.73	1.11	LANL Reg BG LVL	2.63	1.0	0.05	mg/L	1				SW-846:6010B	GELC	
C2	2	2	09/19/06	0.67	0.769	0.72	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 7	0	09/28/10		UF	CS	GENINORG	Total Organic Carbon	TOC	0.769	1.07	LANL Reg BG LVL	0.33	2.3	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C2	5	5	09/19/06	0.015	0.052	0.034	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 8A	0	09/28/10		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.052	1.53	LANL Reg BG LVL	0.05	1.0	0.016	mg/L	1		J-	16a	EPA:350.1	GELC	
C2	6	6	09/28/05	0.001	0.088	0.045	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 9A	0	09/28/10		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.088	1.96	LANL Reg BG LVL	0.05	1.8	0.016	mg/L	1		J-	16a	EPA:350.1	GELC	
C2	1	1	09/17/10	0.234	0.234	0.234	1	Frijoles Canyon	Intermediate Spring	Barbara Spring	0	09/17/10		F	CS	GENINORG	Perchlorate	ClO4	0.234	1.00	LANL Int BG LVL	0.05	4.7	0.05	ug/L	1				SW-846:6850	GELC	
C2	1	1	09/17/10	0.103	0.103	0.103	1	Frijoles Canyon	Intermediate Spring	Barbara Spring	0	09/17/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.103	1.00	LANL Int BG LVL	0.08	1.3	0.015	mg/L	1		J	14a	EPA:365.4	GELC	
C2	1	1	09/17/10	3.24	3.24	3.24	1	Frijoles Canyon	Intermediate Spring	Barbara Spring	0	09/17/10		F	CS	METALS	Chromium	Cr	3.24	1.00	LANL Int BG LVL	1	3.2	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	value is estimated, result reflects analytical variability
C2	1	1	09/17/10	70.7	70.7	70.7	1	Frijoles Canyon	Intermediate Spring	Barbara Spring	0	09/17/10		F	CS	METALS	Silicon Dioxide	SiO2	70.7	1.00	LANL Int BG LVL	50.72	1.4	0.053	mg/L	1				SW-846:6010B	GELC	
C3	8	8	11/14/00	0.475	43.7	1.22	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	754.8	09/21/10		F	CS	METALS	Uranium	U	43.7	35.82	EPA MCL	30	2.9	0.05	ug/L	1				SW-846:6020	GELC	unfiltered was 0.5 ug/L
C3	11	14	12/07/00	1.81	1.81	1.81	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-25	1303.4	09/23/10		UF	CS	METALS	Mercury	Hg	1.81	1.00	EPA MCL	2	1.8	0.066	ug/L	1				EPA:245.2	GELC	first detect of fourteen samples, note estimated value
C3	4	6	11/23/09	34.3	769	72.3	5	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	09/22/10	FD	F	CS	METALS	Iron	Fe	769	10.64	NM GW STD	1000	1.5	30	ug/L	1				SW-846:6010B	GELC	FD was 38, UF was 132
C3	8	13	07/01/06	0.4	0.4	0.4	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-27	852	09/14/10		UF	CS	SVOA	Indeno(1,2,3-cd)pyrene	193-39-5	0.4	1.00	EPA TAP SCRIN LVL C-5	0.29	2.8	0.22	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	result estimated, not detected in 12 earlier samples
C5	6	7	05/11/05	0.252	0.947	0.344	6	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-1b	11.32	08/26/10		F	CS	GENINORG	Perchlorate	ClO4	0.947	2.75	LANL Avl BG LVL	0.05	9.5	0.05	ug/L	1				SW-846:6850	GELC	
C5	9	10	06/27/00	2.93000067	26.4	6.275	10	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-1b	11.32	08/26/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.05	0.65	LANL Avl BG LVL	0.57	3.6	0.25	mg/L	25		J	14a	EPA:353.2	GELC	
C5	8	9	11/01/01	1.66	2.76	2.39	9	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-1b	11.32	08/26/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	2.22	0.93	LANL Avl BG LVL	0.05	22.2	0.015	mg/L	1				EPA:365.4	GELC	
C5	7	9	06/27/00	291	456	360	9	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-1b	11.32	08/26/10		F	CS	GENINORG	Total Dissolved Solids	TDS	333	0.93	LANL Avl BG LVL	139	1.2	2.4	mg/L	1				EPA:160.1	GELC	
C5	11	13	07/26/00	143	271	170	13	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	08/26/10		F	CS	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	171	1.01	LANL Avl BG LVL	76	1.1	0.73	mg/L	1				EPA:310.1	GELC	
C5	11	13	06/27/00	30	48.7	36.6	13	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	08/26/10		F	CS	GENINORG	Sodium	Na	40.8	1.11	LANL Avl BG LVL	15.54	1.3	0.1	mg/L	1				SW-846:6010B	GELC	
C5	10	11	06/27/00	284	348	322	11	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	08/26/10		F	CS	GENINORG	Total Dissolved Solids	TDS	336	1.04	LANL Avl BG LVL	139	1.2	2.4	mg/L	1				EPA:160.1	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port Depth	Start Date	Flt QC Type Code	Flt Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	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
C5	11	13	06/27/00	134	181	144	13	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	08/26/10		F	CS	METALS	Barium	Ba	159	1.10	LANL Avl BG LVL	68.57	1.2	1	ug/L	1				SW-846:6010B	GELC	
C5	7	7	05/11/05	410	507	435	7	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	08/26/10		F	CS	METALS	Strontium	Sr	448	1.03	LANL Avl BG LVL	120	1.9	1	ug/L	1	F			SW-846:6010B	GELC	
C5	11	13	06/27/00	5.8	12.7	8.4	7	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	08/26/10		F	CS	METALS	Vanadium	V	8.79	1.05	LANL Avl BG LVL	1	4.4	1	ug/L	1				SW-846:6010B	GELC	
C5	11	11	07/27/01	0.108	0.185	0.123	7	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Basalt Spring	0	08/25/10		F	CS	GENINORG	Bromide	Br(-)	0.154	1.25	LANL Int BG LVL	0.03	2.6	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	21	23	06/27/00	21.7	51	32.4	23	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Basalt Spring	0	08/25/10		F	CS	GENINORG	Chloride	Cl(-)	36.1	1.11	LANL Int BG LVL	7.78	2.3	0.33	mg/L	5				EPA:300.0	GELC	
C5	8	8	05/11/05	0.594	4.39	1.83	8	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Basalt Spring	0	08/25/10		F	CS	GENINORG	Perchlorate	ClO4	2.28	1.25	LANL Int BG LVL	0.05	22.8	0.25	ug/L	5				SW-846:6850	GELC	
C5	21	22	06/27/00	25.6	53.11399841	47.3	22	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Basalt Spring	0	08/25/10		F	CS	GENINORG	Sodium	Na	30.4	0.64	LANL Int BG LVL	12.19	1.3	0.1	mg/L	1				SW-846:6010B	GELC	
C5	15	16	07/25/00	0.021	2.839999914	1.36	16	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Basalt Spring	0	08/25/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.999	0.73	LANL Int BG LVL	0.08	6.2	0.015	mg/L	1				EPA:365.4	GELC	
C5	14	15	07/25/00	81.6	280.0000012	205	15	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Basalt Spring	0	08/25/10		F	CS	METALS	Boron	B	88.6	0.43	LANL Int BG LVL	15.12	2.9	15	ug/L	1				SW-846:6010B	GELC	
C5	21	22	06/27/00	2.3	10.1	7.5	20	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Basalt Spring	0	08/25/10		F	CS	METALS	Nickel	Ni	3.26	0.43	LANL Int BG LVL	1	1.6	0.5	ug/L	1				SW-846:6020	GELC	
C5	7	9	04/26/07	0.253	0.325	0.28	8	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10		F	CS	GENINORG	Bromide	Br(-)	0.283	1.01	LANL Int BG LVL	0.03	4.7	0.066	mg/L	1				EPA:300.0	GELC	
C5	7	9	04/26/07	0.253	0.325	0.28	8	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10	FD	F	CS	GENINORG	Bromide	Br(-)	0.293	1.05	LANL Int BG LVL	0.03	4.9	0.066	mg/L	1				EPA:300.0	GELC	
C5	7	9	04/26/07	18.8	19.6	19	9	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10		F	CS	GENINORG	Chloride	Cl(-)	18.9	0.99	LANL Int BG LVL	7.78	1.2	0.13	mg/L	2				EPA:300.0	GELC	
C5	7	9	04/26/07	18.8	19.6	19	9	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10	FD	F	CS	GENINORG	Chloride	Cl(-)	18.9	0.99	LANL Int BG LVL	7.78	1.2	0.13	mg/L	2				EPA:300.0	GELC	
C5	7	9	04/26/07	1.43	1.65	1.6	9	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10	FD	F	CS	GENINORG	Perchlorate	ClO4	1.57	0.98	LANL Int BG LVL	0.05	15.7	0.2	ug/L	4				SW-846:6850	GELC	
C5	7	9	04/26/07	1.43	1.65	1.6	9	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10		F	CS	GENINORG	Perchlorate	ClO4	1.62	1.01	LANL Int BG LVL	0.05	16.2	0.2	ug/L	4				SW-846:6850	GELC	
C5	7	9	04/26/07	0.836	0.961	0.895	9	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10	FD	F	CS	GENINORG	Fluoride	F(-)	0.836	0.93	LANL Int BG LVL	0.23	1.8	0.033	mg/L	1				EPA:300.0	GELC	
C5	7	9	04/26/07	0.836	0.961	0.895	9	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10		F	CS	GENINORG	Fluoride	F(-)	0.846	0.95	LANL Int BG LVL	0.23	1.8	0.033	mg/L	1				EPA:300.0	GELC	
C5	7	9	04/26/07	4.3	6.02	5.15	8	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10		F	CS	METALS	Chromium	Cr	6.02	1.17	LANL Int BG LVL	1	3.0	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	value is estimated, result reflects analytical variability
C5	7	9	04/26/07	4.3	6.02	5.15	8	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10	FD	F	CS	METALS	Chromium	Cr	5.99	1.16	LANL Int BG LVL	1	3.0	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	value is estimated, result reflects analytical variability
C5	7	9	04/26/07	1.53	2.8	1.8	9	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10		F	CS	METALS	Uranium	U	1.6	0.89	LANL Int BG LVL	0.72	1.1	0.05	ug/L	1				SW-846:6020	GELC	
C5	7	9	04/26/07	1.53	2.8	1.8	9	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Los Alamos Spring	0	08/25/10	FD	F	CS	METALS	Uranium	U	1.53	0.85	LANL Int BG LVL	0.72	1.1	0.05	ug/L	1				SW-846:6020	GELC	
C5	4	5	10/22/08	0.391	0.448	0.414	5	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	CDV-5.0 SPRING	0	09/24/10	FD	F	CS	GENINORG	Perchlorate	ClO4	0.417	1.01	LANL Int BG LVL	0.05	4.2	0.05	ug/L	1				SW-846:6850	GELC	
C5	4	5	10/22/08	0.391	0.448	0.414	5	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	CDV-5.0 SPRING	0	09/24/10		F	CS	GENINORG	Perchlorate	ClO4	0.405	0.98	LANL Int BG LVL	0.05	4.1	0.05	ug/L	1				SW-846:6850	GELC	
C5	8	8	01/30/07	0.192	0.345	0.213	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Water Canyon Gallery	0	09/10/10		F	CS	GENINORG	Perchlorate	ClO4	0.218	1.02	LANL Int BG LVL	0.05	2.2	0.05	ug/L	1				SW-846:6850	GELC	
C5	4	4	08/02/05	0.512	0.577	0.566	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	754.8	09/21/10		F	CS	GENINORG	Perchlorate	ClO4	0.566	1.00	LANL Int BG LVL	0.05	5.7	0.05	ug/L	1		J+	PE12f	SW-846:6850	GELC	
C5	8	8	11/14/00	91	270	182	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	754.8	09/21/10		F	CS	METALS	Boron	B	91	0.50	LANL Int BG LVL	15.12	3.0	15	ug/L	1				SW-846:6010B	GELC	
C5	8	8	11/14/00	1.7	11.5	5.1	7	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	754.8	09/21/10		F	CS	METALS	Cobalt	Co	7.41	1.45	LANL Int BG LVL	0.5	7.4	1	ug/L	1				SW-846:6010B	GELC	
C5	8	8	11/14/00	0.82	9.69	4.2	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	754.8	09/21/10		F	CS	METALS	Chromium	Cr	9.69	2.31	LANL Int BG LVL	1	4.9	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	value is estimated, result reflects analytical variability
C5	8	8	11/14/00	6.9	183	85	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	754.8	09/21/10		F	CS	METALS	Manganese	Mn	83.9	0.99	LANL Int BG LVL	2	21.0	2	ug/L	1				SW-846:6010B	GELC	
C5	8	8	11/14/00	9.5	731	417	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	754.8	09/21/10		F	CS	METALS	Nickel	Ni	454	1.09	LANL Int BG LVL	1	227.0	0.5	ug/L	1				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	Flt QC Type Code	Flt Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	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
C5	8	8	11/14/00	4.7	13	5.9	6	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	754.8	09/21/10		F	CS	METALS	Zinc	Zn	5.72	0.97	LANL Int BG LVL	2	1.4	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	3	3	12/21/09	0.222	0.272	0.231	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	09/23/10		F	CS	GENINORG	Perchlorate	ClO4	0.272	1.18	LANL Int BG LVL	0.05	2.7	0.05	ug/L	1		J+	PE12f	SW-846:6850	GELC	
C5	3	3	12/21/09	31.6	95.2	64.6	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	09/23/10		F	CS	METALS	Manganese	Mn	31.6	0.49	LANL Int BG LVL	2	7.9	2	ug/L	1				SW-846:6010B	GELC	
C5	3	3	02/08/10	0.112	0.127	0.124	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-37-1(i)	632	09/21/10		F	CS	GENINORG	Perchlorate	ClO4	0.127	1.02	LANL Int BG LVL	0.05	1.3	0.05	ug/L	1	J	J+	PE12f	SW-846:6850	GELC	
C5	3	3	02/08/10	20.8	22.8	22.1	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-37-1(i)	632	09/21/10		F	CS	METALS	Manganese	Mn	22.8	1.03	LANL Int BG LVL	2	5.7	2	ug/L	1				SW-846:6010B	GELC	
C5	3	3	02/08/10	2.33	2.7	2.67	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-37-1(i)	632	09/21/10		F	CS	METALS	Nickel	Ni	2.33	0.87	LANL Int BG LVL	1	1.2	0.5	ug/L	1				SW-846:6020	GELC	
C5	3	3	02/08/10	9.77	30.7	18.7	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-37-1(i)	632	09/21/10		F	CS	METALS	Zinc	Zn	9.77	0.52	LANL Int BG LVL	2	2.4	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	3	3	12/11/09	0.118	0.134	0.124	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-27i	619	09/20/10		F	CS	GENINORG	Perchlorate	ClO4	0.134	1.08	LANL Int BG LVL	0.05	1.3	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C5	3	3	12/11/09	4.84	7.68	5.01	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-27i	619	09/20/10		F	CS	METALS	Zinc	Zn	4.84	0.97	LANL Int BG LVL	2	1.2	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	4	4	02/07/02	1.12	3.45	2.25	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-25	1303.4	09/23/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	2.05	0.91	LANL Reg BG LVL	0.16	6.4	0.015	mg/L	1				EPA:365.4	GELC	
C5	7	8	05/08/01	3.44	10.3	5.63	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-25	1303.4	09/23/10		UF	CS	GENINORG	Total Organic Carbon	TOC	4.39	0.78	LANL Reg BG LVL	0.33	6.7	0.33	mg/L	1				SW-846:9060	GELC	
C5	10	10	12/07/00	2.7	9.87	4.82	9	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-25	1303.4	09/23/10		F	CS	METALS	Molybdenum	Mo	4.13	0.86	LANL Reg BG LVL	2	1.0	0.1	ug/L	1				SW-846:6020	GELC	
C5	10	10	02/08/02	0.22	4.2	0.82	10	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-25	1406.3	09/22/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.719	0.88	LANL Reg BG LVL	0.16	2.3	0.015	mg/L	1		J	I4a	EPA:365.4	GELC	
C5	4	6	11/23/09	6.6	50.1	30.7	6	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	09/22/10		F	CS	METALS	Manganese	Mn	29.2	0.95	LANL Reg BG LVL	2.94	5.0	2	ug/L	1				SW-846:6010B	GELC	
C5	4	6	11/23/09	6.6	50.1	30.7	6	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	09/22/10	FD	F	CS	METALS	Manganese	Mn	6.6	0.21	LANL Reg BG LVL	2.94	1.1	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	9	9	08/24/05	5.4	11.8	10.3	9	Ancho Canyon	Regional	Test Well DT-5A	1172	09/27/10		F	CS	METALS	Manganese	Mn	11.8	1.15	LANL Reg BG LVL	2.94	2.0	2	ug/L	1				SW-846:6010B	GELC	
C5	9	9	08/24/05	148	228	175	9	Ancho Canyon	Regional	Test Well DT-5A	1172	09/27/10		F	CS	METALS	Zinc	Zn	148	0.85	LANL Reg BG LVL	3.89	19.0	3.3	ug/L	1				SW-846:6010B	GELC	
C5	9	13	07/20/05	88.2	113	99.2	13	Ancho Canyon	Regional	Test Well DT-9	819	09/24/10		F	CS	METALS	Zinc	Zn	89.9	0.91	LANL Reg BG LVL	3.89	11.6	3.3	ug/L	1	N	J	I4a	SW-846:6010B	GELC	
C5	9	10	07/19/05	61.4	112	71.2	10	Ancho Canyon	Regional	Test Well DT-10	1078.4	09/24/10		F	CS	METALS	Zinc	Zn	61.4	0.86	LANL Reg BG LVL	3.89	7.9	3.3	ug/L	1				SW-846:6010B	GELC	
C5	8	8	09/26/05	7.19	7.9	7.59	8	White Rock Canyon and Rio Grande	Regional Spring	Spring 4B	0	09/27/10		F	CS	GENINORG	Chloride	Cl(-1)	7.57	1.00	LANL Reg BG LVL	3.57	1.1	0.066	mg/L	1				EPA:300.0	GELC	
C5	7	7	09/19/06	0.399	1.33	0.766	6	White Rock Canyon and Rio Grande	Regional Spring	Ancho Spring	0	09/28/10		UF	CS	GENINORG	Total Organic Carbon	TOC	0.707	0.92	LANL Reg BG LVL	0.33	1.1	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	10	11	09/26/00	133	234	140	3	White Rock Canyon and Rio Grande	Regional Spring	Ancho Spring	0	09/28/10		F	CS	METALS	Iron	Fe	234	1.67	LANL Reg BG LVL	21	5.6	30	ug/L	1				SW-846:6010B	GELC	
C5	10	11	09/26/00	3.43	52.6	26.2	6	White Rock Canyon and Rio Grande	Regional Spring	Ancho Spring	0	09/28/10		F	CS	METALS	Manganese	Mn	38.7	1.48	LANL Reg BG LVL	2.94	6.6	2	ug/L	1				SW-846:6010B	GELC	
C5	5	5	09/19/06	0.823	1.42	0.991	4	White Rock Canyon and Rio Grande	Regional Spring	Spring 9	0	09/29/10		UF	CS	GENINORG	Total Organic Carbon	TOC	0.823	0.83	LANL Reg BG LVL	0.33	1.3	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
CA	8	8	11/14/00	0.475	43.7	1.22	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25	754.8	09/21/10		F	CS	METALS	Uranium	U	43.7	35.82	EPA MCL	30	1.5	0.05	ug/L	1				SW-846:6020	GELC	unfiltered was 0.5 ug/L
CA	8	13	07/01/06	0.4	0.4	0.4	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-27	852	09/14/10		UF	CS	SVOA	Indeno(1,2,3-cd)pyrene	193-39-5	0.4	1.00	EPA TAP SCRNL LVL C-5	0.29	1.4	0.22	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	result estimated, not detected in 12 earlier samples
CA	2	2	05/10/10	121	214	168	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	09/23/10		F	CS	METALS	Manganese	Mn	214	1.27	NM GW STD	200	1.1	2	ug/L	1				SW-846:6010B	GELC	new well, 2nd result

