

General



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Date: **NOV 19 2013**
Refer To: EP2013-0264

John Kieling, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303



Subject: Monthly Notification of Groundwater Data Reviewed in November 2013

Dear Mr. Kieling:

This letter is Los Alamos National Laboratory's (LANL's) written submission that meets notification requirements presented in Section IV.A.3.g, Notification, of the Compliance Order on Consent. Members of LANL's Environmental Programs met on November 13, 2013, to review new groundwater data received in October 2013.

1-Day Notification

The two instances of a contaminant detected in a well screen interval or spring at a concentration that exceeded the New Mexico Water Quality Control Commission (NMWQCC) or federal water quality standards for the first time (based on samples collected since June 14, 2007) are as follows:

- In a filtered sample collected September 23 from alluvial well FLC-16-25280, manganese was measured at 345 µg/L, above the 200-µg/L NMWQCC groundwater standard. Concentrations in four other samples collected from this well since 2008 have a median value of 68 µg/L. This well is often dry, and samples have high turbidity; the turbidity for this sample event was 91 nephelometric turbidity units.
- In a filtered sample collected September 17 from intermediate Martin Spring, iron was measured at 1860 µg/L, above the 1000-µg/L NMWQCC groundwater standard. Concentrations in five other samples collected from Martin Spring since 1997 (but before June 14, 2007) have been above the standard.

One-day notification of these results by telephone occurred on November 13, 2013.

15-Day Notification

The required information for the contaminants and other chemical parameters that meet the seven reporting criteria requiring written notification within 15 days is given in the accompanying report and table.



If you have questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Hai Shen at (505) 665-5046 (hai.shen@nnsa.doe.gov).

Sincerely,



Jeff Mousseau, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,



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

JM/PM/CD/SP/DR:sm

Enclosure: Two hard copies with electronic files – Summary of Groundwater Data Reviewed in November 2013 That Meet Notification Requirements (LA-UR-13-28542)

Cy: (w/enc.)

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David Rogers, EP-ET (date-stamped letter emailed)
Mei Ding, EES-6 (date-stamped letter emailed)
Craig Douglass, EP-CAP (date-stamped letter emailed)
Jeff Mousseau, ADEP (date-stamped letter emailed)

SUMMARY OF GROUNDWATER DATA REVIEWED IN NOVEMBER 2013 THAT MEET NOTIFICATION REQUIREMENTS

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 and contains results for chemical constituents that meet the seven screening criteria laid out in the Compliance Order on Consent (Consent Order). 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 10-13 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 may be similar to data gathered before June 14, 2007.

This table includes the following:

- Additional comments on results that appear to be exceptional or based on consideration of monitoring data acquired before the current result (using statistics described below)
- Supplemental information summarizing monitoring results obtained before the current result
- Sampling date, name of the well or spring, location of the well or spring, depth of the screened interval, 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.

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). The EPA Regional Screening Levels for tap water are either for cancer (10^{-6} excess risk) or noncancer risk values. The data were screened using 10 times the EPA's 10^{-6} excess cancer risk values, to achieve 10^{-5} excess cancer risk 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. Some data meet more than one of the criteria and appear in the table multiple times. The table also presents only the instances where the results exceed criteria; therefore, not all seven criteria may appear in the table.

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 prior to the current result. The columns provide summary statistics 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 the 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

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

Start Date—sample date

Fld QC Type Code—identifies regular samples (REG) or field duplicates (FD)

Fld Prep Code—identifies whether samples are filtered or unfiltered

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

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

Analyte Desc—name of analyte

Std Result—analytical result in standard measurement units

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

Screen Level—value of the LVL Type/Risk Code

Exceedance Ratio—ratio of Std Result to LVL Type/Risk Code. In earlier versions of this report, the ratio was divided by the basis for comparison in the criterion, but that is no longer the case. For example, for a criterion (such as C3) that compares the value to one-half the standard, a value equal to a standard previously had an exceedance ratio of 2. The current report shows this ratio as 1.

Std Uncert—uncertainty

Std Mda—minimum detectable activity

Std Mdl—method detection limit in standard measurement units

Std Uom—standard units of measurement

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

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

Concat Flag Code—secondary validation qualifier

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

Anyl Meth Code—analytical method number

Lab Code—analytical laboratory name

Comment—comment on the analytical result

Table 1: NMED 10-13 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fid QC Type Code	Fid Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Std Result	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Uncert	Std Mda	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C1	24	40	08/25/05	0.33	0.35	0.34	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-18	1358	09/03/13	REG	F	INIT	VOC	Tetrachloroethene	0.35	EPA MCL	5	0.1		0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC		
C1	24	40	08/25/05	0.33	0.35	0.34	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-18	1358	09/03/13	FD	F	INIT	VOC	Tetrachloroethene	0.33	EPA MCL	5	0.1		0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC		
C1	4	4	04/03/08	0.0945	0.0945	0.0945	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25280	2.6	09/23/13	REG	UF	INIT	HEXP	Amino-2,6-dinitrotoluene[4-]	0.0945	EPA TAP SCRNLVL	30	0		0.0879	ug/L	2	J	J	J_LAB	SW-846:8321A_MOD	GELC		
C1	4	4	04/03/08	0.859	0.859	0.859	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25280	2.6	09/23/13	REG	UF	INIT	HEXP	TATB	0.859					0.33	ug/L	2	J	J	J_LAB	SW-846:8321A_MOD	GELC		
C1	10	10	04/15/09	0.36	0.36	0.36	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-26 PZ-2	150	09/04/13	REG	UF	INIT	VOC	Toluene	0.36	NM GW STD	750	0		0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC		
C1	16	16	08/04/05	0.389	0.389	0.389	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25 S4	1184.6	09/12/13	REG	UF	INIT	HEXP	Amino-2,6-dinitrotoluene[4-]	0.389	EPA TAP SCRNLVL	30	0		0.0865	ug/L	2		NQ	NQ	SW-846:8321A_MOD	GELC	detected in 2006	
C1	16	16	08/04/05	0.151	0.16	0.1555	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25 S4	1184.6	09/12/13	REG	UF	INIT	HEXP	Amino-4,6-dinitrotoluene[2-]	0.16	EPA TAP SCRNLVL	30	0		0.0865	ug/L	2	J	J	J_LAB	SW-846:8321A_MOD	GELC	detected three times 2002-05	
C1	16	16	08/04/05	0.315	0.315	0.315	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25 S4	1184.6	09/12/13	REG	UF	INIT	HEXP	Trinitrobenzene[1,3,5-]	0.315	EPA TAP SCRNLVL	460	0		0.0865	ug/L	2		NQ	NQ	SW-846:8321A_MOD	GELC	first detect	
C1	18	30	12/15/05	0.117	0.117	0.117	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-2(i)r	850	09/04/13	REG	UF	INIT	HEXP	Amino-2,6-dinitrotoluene[4-]	0.117	EPA TAP SCRNLVL	30	0		0.0842	ug/L	2	J	J	J_LAB	SW-846:8321A_MOD	GELC	first detect	
C1	17	21	10/18/05	0.0968	0.0968	0.0968	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	CdV-R-15-3 S4	1235.1	09/19/13	REG	UF	INIT	HEXP	RDX	0.0968	EPA TAP SCRNLVL	6.1	0		0.086	ug/L	2	J	J	J_LAB	SW-846:8321A_MOD	GELC	data go back to 1/3/01 with 43 values	
C2	4	4	04/03/08	29.1	64.5	33.3	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25280	2.6	09/23/13	REG	F	INIT	METALS	Boron	64.5	LANL Avl BG LVL	51.89	1.2		15	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C2	4	4	04/03/08	1.72	2.62	1.85	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25280	2.6	09/23/13	REG	F	INIT	METALS	Molybdenum	2.62	LANL Avl BG LVL	2	1.3		0.165	ug/L	1		NQ	NQ	SW-846:6020	GELC		
C2	55	61	01/10/00	29.3	2690	102	39	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	09/17/13	REG	F	INIT	METALS	Iron	1860	LANL Int BG LVL	840	2.2		30	ug/L	1		NQ	NQ	SW-846:6010B	GELC	detected above standard five other times since 1997	
C2	55	61	01/10/00	2.4	25	3.6	31	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	09/17/13	REG	F	INIT	METALS	Vanadium	6.29	LANL Int BG LVL	4.91	1.3		1	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C2	18	19	09/09/04	1.21	3.9	2.555	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Bulldog Spring	0	09/17/13	REG	F	INIT	METALS	Cobalt	1.21	LANL Int BG LVL	0.5	2.4		1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC		
C2	24	40	08/25/05	0.031	0.593	0.07325	6	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-18	1358	09/03/13	FD	F	INIT	GENINORG	Ammonia as Nitrogen	0.0995	LANL Reg BG LVL	0.05	2		0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC		
C2	24	40	08/25/05	0.031	0.593	0.07325	6	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-18	1358	09/03/13	REG	F	INIT	GENINORG	Ammonia as Nitrogen	0.111	LANL Reg BG LVL	0.05	2.2		0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC		
C2	39	44	03/23/00	4.07	8.28	5.45	43	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02656	3	09/05/13	REG	F	INIT	GENINORG	Magnesium	8.28	LANL Avl BG LVL	7.78	1.1		0.11	mg/L	1		NQ	NQ	SW-846:6010B	GELC		
C3	4	4	04/03/08	49.8	345	67.65	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25280	2.6	09/23/13	REG	F	INIT	METALS	Manganese	345	NM GW STD	200	1.7		2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	well is often dry and samples have high turbidity; the turbidity for this sample event was 91 Nephelometric Turbidity Units	
C3	55	61	01/10/00	51	5130	394	33	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	09/17/13	REG	F	INIT	METALS	Aluminum	2740	NM GW STD	5000	0.5		68	ug/L	1		NQ	NQ	SW-846:6010B	GELC	previously detected above 1/2 standard four times in 2001 and 2005	
C5	41	49	03/28/00	4580	13600	6420	49	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02659	1.7	09/20/13	REG	F	INIT	METALS	Barium	7440	LANL Avl BG LVL	68.57	108.5		1	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C5	4	4	04/03/08	444	713	569.5	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25280	2.6	09/23/13	REG	F	INIT	METALS	Barium	677	LANL Avl BG LVL	68.57	9.9		1	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C5	4	4	04/03/08	3.26	10.2	7.665	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25280	2.6	09/23/13	REG	F	INIT	METALS	Chromium	3.26	LANL Avl BG LVL	1	3.3		2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC		
C5	4	4	04/03/08	3.84	7.93	4.94	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25280	2.6	09/23/13	REG	F	INIT	METALS	Cobalt	7.93	LANL Avl BG LVL	0.5	15.9		1	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C5	4	4	04/03/08	2.35	6.9	5.17	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25280	2.6	09/23/13	REG	F	INIT	METALS	Lead	2.35	LANL Avl BG LVL	0.5	4.7		0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC		
C5	4	4	04/03/08	49.8	345	67.65	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25280	2.6	09/23/13	REG	F	INIT	METALS	Manganese	345	LANL Avl BG LVL	2	172.5		2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	well is often dry and samples have high turbidity; the turbidity for this sample event was 91 Nephelometric Turbidity Units	
C5	4	4	04/03/08	6.2	12.3	9.335	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25280	2.6	09/23/13	REG	F	INIT	METALS	Nickel	12.2	LANL Avl BG LVL	1	12.2		0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC		
C5	4	4	04/03/08	7.57	18.5	15.45	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25280	2.6	09/23/13	REG	F	INIT	METALS	Vanadium	7.57	LANL Avl BG LVL	1	7.6		1	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C5	4	4	04/03/08	23.7	39.5	29.2	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25280	2.6	09/23/13	REG	F	INIT	METALS	Zinc	23.7	LANL Avl BG LVL	2	11.8		3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C5	59	74	01/10/00	146	266	185.5	68	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Burning Ground Spring	0	09/12/13	REG	F	INIT	METALS	Barium	209	LANL Int BG LVL	71.83	2.9		1	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C5	51	57	01/10/00	570	2840	1740	57	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	09/17/13	REG	F	INIT	METALS	Boron	647	LANL Int BG LVL	15.12	2.8		15	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C5	9	12	04/20/10	4.3	9.31	6.36	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	16-26644	130	09/05/13	REG	F	INIT	METALS	Zinc	5.41	LANL Int BG LVL	2	2.7		3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC		
C5	12	13	01/05/09	3.1	1420	24.3	13	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25b	750	09/10/13	REG	F	INIT	METALS	Zinc	16.4	LANL Int BG LVL	2	8.2		3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC		

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fid QC Type Code	Fid Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Std Result	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Uncert	Std Mda	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C5	18	18	12/04/00	9.7	34.6	26.9	16	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25 S4	1184.6	09/12/13	REG	F	INIT	METALS	Boron	34.6	LANL Int BG LVL	15.12	2.3		15	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC		
C5	18	18	12/04/00	2.9	20.1	7.4	15	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25 S4	1184.6	09/12/13	REG	F	INIT	METALS	Zinc	4.67	LANL Int BG LVL	2	2.3		3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC		
C5	17	22	06/01/05	51	65.4	59.1	22	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	09/11/13	REG	F	INIT	METALS	Boron	64.7	LANL Int BG LVL	15.12	4.3		15	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C5	17	22	06/01/05	3.2	12.2	4.7	22	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	09/11/13	REG	F	INIT	METALS	Nickel	3.81	LANL Int BG LVL	1	3.8		0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC		
C5	17	22	06/01/05	4.9	44.2	8.95	18	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	09/11/13	REG	F	INIT	METALS	Zinc	44.2	LANL Int BG LVL	2	22.1		3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C5	8	9	08/31/10	65.5	115	74.2	9	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip S1	815.6	09/19/13	FD	F	INIT	METALS	Boron	67.7	LANL Int BG LVL	15.12	4.5		15	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C5	8	9	08/31/10	65.5	115	74.2	9	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip S1	815.6	09/19/13	REG	F	INIT	METALS	Boron	65.5	LANL Int BG LVL	15.12	4.3		15	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C5	8	9	08/31/10	0.351	0.397	0.37	9	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip S1	815.6	09/19/13	FD	F	INIT	GENINORG	Perchlorate	0.378	LANL Int BG LVL	0.05	7.6		0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC		
C5	8	9	08/31/10	0.351	0.397	0.37	9	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip S1	815.6	09/19/13	REG	F	INIT	GENINORG	Perchlorate	0.363	LANL Int BG LVL	0.05	7.3		0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC		
C5	16	24	12/15/05	5.6	17.8	13.3	21	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-2(i)r	850	09/04/13	REG	F	INIT	METALS	Zinc	17.8	LANL Int BG LVL	2	8.9		3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C5	23	28	01/28/02	44	17200	12650	28	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	CdV-R-37-2 S2	1188.7	09/20/13	REG	F	INIT	METALS	Iron	141	LANL Reg BG LVL	21	6.7		30	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C5	23	28	01/28/02	183	3720	2110	28	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	CdV-R-37-2 S2	1188.7	09/20/13	REG	F	INIT	METALS	Manganese	183	LANL Reg BG LVL	2.94	62.2		2	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C5	22	26	01/28/02	0.84	6.2	4.74	25	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	CdV-R-37-2 S2	1188.7	09/20/13	REG	UF	INIT	GENINORG	Total Organic Carbon	1.1	LANL Reg BG LVL	0.33	3.3		0.33	mg/L	1		NQ	NQ	SW-846:9060	GELC		
C5	39	44	03/23/00	2030	5150	3210	43	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02656	3	09/05/13	REG	F	INIT	METALS	Barium	4740	LANL Avl BG LVL	68.57	69.1		1	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
C6	39	44	03/23/00	2030	5150	3210	43	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02656	3	09/05/13	REG	F	INIT	METALS	Barium	4740	NM GW STD	1000	4.7		1	ug/L	1		NQ	NQ	SW-846:6010B	GELC		
CA	4	4	04/03/08	49.8	345	67.65	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25280	2.6	09/23/13	REG	F	INIT	METALS	Manganese	345	NM GW STD	200	1.7		2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	well is often dry and samples have high turbidity; the turbidity for this sample event was 91 Nephelometric Turbidity Units	
CA	55	61	01/10/00	29.3	2690	102	39	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	09/17/13	REG	F	INIT	METALS	Iron	1860	NM GW STD	1000	1.9		30	ug/L	1		NQ	NQ	SW-846:6010B	GELC	detected above standard five other times since 1997	