General

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Date: MAY 28 2013
Refer To: EP2013-0072

RECEIVED MAY 2013 NMED Hazardous Waste Bureau

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

Subject: Review of April 2013 Groundwater Data

Dear Mr. Kieling:

The purpose of this letter is for Los Alamos National Laboratory (LANL) to provide the New Mexico Environment Department 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 May 13, 2013, to review new groundwater data received in April 2013.

One-Day Notification

There were no instances of a contaminant detected in a well screen interval or spring at a concentration that exceeded the New Mexico Water Quality Control Commission or federal water quality standards for the first time (based on samples collected since June 14, 2007), so one-day notification was not required.

Fifteen-Day Notification

The required information for the contaminants and other chemical parameters that meet the seven reporting criteria requiring written notification within fifteen 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 New Los Alamos National Laboratory Groundwater Data Loaded in April 2013 (LA-UR-13-23350)

Cy: (w/enc.)
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Jeff Mousseau, ADEP (date-stamped letter emailed)

SUMMARY OF NEW LOS ALAMOS NATIONAL LABORATORY GROUNDWATER DATA LOADED IN APRIL 2013

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 4-13 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—identifies whether samples are filtered or unfiltered

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

Anyl Suite—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—analytical result in standard measurement units

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

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 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 4-13 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	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	12	12	08/02/05	0.353	0.353	0.353	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25 S1	737.6	03/12/13	REG	UF	INIT	HEXP	3,5-Dinitroaniline	618-87-1	0.353				0.339	ug/L	2	J	J	J_LAB	SW-846:8321A_MOD	GELC	
C1	14	15	09/09/04	0.36	0.36	0.36	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate Spring	Bulldog Spring	0	03/27/13	REG	UF	INIT	VOC	Chloromethane	74-87-3	0.36	EPA TAP SCRN LVL	190	0	0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C2	9	16	04/02/10	2.45	3.53	2.99	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-611923	3.2	03/25/13	FD	F	INIT	METALS	Chromium	Cr	3.53	LANL Avl BG LVL	1	3.5	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	9	16	04/02/10	2.45	3.53	2.99	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-611923	3.2	03/25/13	REG	F	INIT	METALS	Chromium	Cr	2.45	LANL Avl BG LVL	1	2.5	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	11	12	01/24/07	0.202	2.31	0.247	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	MSC-16-06295	1.5	03/19/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.31	LANL Avl BG LVL	0.57	4.1	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C2	17	18	08/30/05	6.89	6.89	6.89	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	MSC-16-06295	1.5	03/19/13	REG	F	INIT	METALS	Tin	Sn	6.89	LANL Avl BG LVL	3.26	2.1	2.5	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	13	17	08/25/05	41.5	54.4	47.9	17	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	03/27/13	FD	F	INIT	GENINORG	Silicon Dioxide	SiO2	54.3	LANL Int BG LVL	50.72	1.1	0.053	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C2	13	17	08/25/05	41.5	54.4	47.9	17	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	03/27/13	REG	F	INIT	GENINORG	Silicon Dioxide	SiO2	54.4	LANL Int BG LVL	50.72	1.1	0.053	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C2	14	14	12/07/00	40.9	664	352.45	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-25 S5	1294.7	03/18/13	REG	F	INIT	METALS	Iron	Fe	40.9	LANL Reg BG LVL	21	1.9	30	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	8	8	04/12/11	0.0171	0.143	0.0347	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-63	1325	03/13/13	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.143	LANL Reg BG LVL	0.05	2.9	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C2	11	12	08/23/05	0.105	0.105	0.105	1	Ancho Canyon	Regional	R-31 S4	826.6	03/26/13	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.105	LANL Reg BG LVL	0.05	2.1	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C2	8	8	08/24/05	0.118	0.118	0.118	1	Ancho Canyon	Regional	R-31 S5	1007.1	03/22/13	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.118	LANL Reg BG LVL	0.05	2.4	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C2	9	11	01/23/07	0.13	0.13	0.13	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02656	3	03/28/13	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.13	LANL Avl BG LVL	0.04	3.3	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C5	9	16	04/02/10	10600	49400	17900	16	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-611923	3.2	03/25/13	FD	F	INIT	METALS	Barium	Ba	12000	LANL Avl BG LVL	68.57	175	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	9	16	04/02/10	10600	49400	17900	16	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-611923	3.2	03/25/13	REG	F	INIT	METALS	Barium	Ba	12200	LANL Avl BG LVL	68.57	177.9	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	9	16	04/02/10	204	7510	1042	16	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-611923	3.2	03/25/13	FD	F	INIT	METALS	Manganese	Mn	222	LANL Avl BG LVL	2	111	2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	9	16	04/02/10	204	7510	1042	16	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-611923	3.2	03/25/13	REG	F	INIT	METALS	Manganese	Mn	204	LANL Avl BG LVL	2	102	2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	5	8	11/01/10	318	1250	491.5	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-611923	3.2	03/25/13	FD	F	INIT	METALS	Strontium	Sr	318	LANL Avl BG LVL	120	2.6	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	5	8	11/01/10	318	1250	491.5	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-611923	3.2	03/25/13	REG	F	INIT	METALS	Strontium	Sr	320	LANL Avl BG LVL	120	2.7	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	9	16	04/02/10	2.96	4.24	3.885	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-611923	3.2	03/25/13	FD	F	INIT	METALS	Vanadium	V	4.24	LANL Avl BG LVL	1	4.2	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	9	16	04/02/10	2.96	4.24	3.885	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-611923	3.2	03/25/13	REG	F	INIT	METALS	Vanadium	V	4.22	LANL Avl BG LVL	1	4.2	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	40	48	03/28/00	4580	13600	6415	48	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02659	1.7	03/16/13	REG	F	INIT	METALS	Barium	Ba	6730	LANL Avl BG LVL	68.57	98.1	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	34	36	03/23/00	113	300	148	35	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	MSC-16-06295	1.5	03/19/13	REG	F	INIT	METALS	Barium	Ba	187	LANL Avl BG LVL	68.57	2.7	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	34	36	03/23/00	0.79	7.13	2.6	18	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	MSC-16-06295	1.5	03/19/13	REG	F	INIT	METALS	Chromium	Cr	6.35	LANL Avl BG LVL	1	6.3	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	34	36	03/23/00	1.1	10.1	2.7	21	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	MSC-16-06295	1.5	03/19/13	REG	F	INIT	METALS	Cobalt	Co	1.35	LANL Avl BG LVL	0.5	2.7	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	34	36	03/23/00	11.7	3340	148.5	36	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	MSC-16-06295	1.5	03/19/13	REG	F	INIT	METALS	Manganese	Mn	25.6	LANL Avl BG LVL	2	12.8	2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	34	36	03/23/00	1.5	57.1	3.65	26	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	MSC-16-06295	1.5	03/19/13	REG	F	INIT	METALS	Nickel	Ni	3.6	LANL Avl BG LVL	1	3.6	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	34	36	03/23/00	4.9	79	15.75	28	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	MSC-16-06295	1.5	03/19/13	REG	F	INIT	METALS	Zinc	Zn	20.9	LANL Avl BG LVL	2	10.4	3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	58	73	01/10/00	146	266	182	67	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Burning Ground Spring	0	03/25/13	REG	F	INIT	METALS	Barium	Ba	197	LANL Int BG LVL	71.83	2.7	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	11	16	01/29/07	13.9	42	20.65	16	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Burning Ground Spring	0	03/25/13	REG	F	INIT	GENINORG	Chloride	Cl(-1)	19.3	LANL Int BG LVL	7.78	2.5	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C5	54	60	01/10/00	122	243	177	53	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	03/27/13	FD	F	INIT	METALS	Barium	Ba	162	LANL Int BG LVL	71.83	2.3	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	54	60	01/10/00	122	243	177	53	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	03/27/13	REG	F	INIT	METALS	Barium	Ba	164	LANL Int BG LVL	71.83	2.3	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	50	56	01/10/00	570	2840	1750	56	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	03/27/13	FD	F	INIT	METALS	Boron	B	1100	LANL Int BG LVL	15.12	72.8	15	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	50	56	01/10/00	570	2840	1750	56	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	03/27/13	REG	F	INIT	METALS	Boron	B	1100	LANL Int BG LVL	15.12	72.8	15	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	11	15	01/30/07	19.2	37.2	22.2	15	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	03/27/13	FD	F	INIT	GENINORG	Chloride	Cl(-1)	20.5	LANL Int BG LVL	7.78	2.6	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	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	15	01/30/07	19.2	37.2	22.2	15	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	03/27/13	REG	F	INIT	GENINORG	Chloride	Cl(-1)	20.6	LANL Int BG LVL	7.78	2.6	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C5	11	15	01/30/07	0.349	0.683	0.498	15	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	03/27/13	FD	F	INIT	GENINORG	Fluoride	F(-1)	0.537	LANL Int BG LVL	0.23	2.3	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	11	15	01/30/07	0.349	0.683	0.498	15	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	03/27/13	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.539	LANL Int BG LVL	0.23	2.3	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	54	60	01/10/00	17	50.2	34.4	60	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	03/27/13	FD	F	INIT	GENINORG	Sodium	Na	33	LANL Int BG LVL	12.19	2.7	0.1	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	54	60	01/10/00	17	50.2	34.4	60	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	03/27/13	REG	F	INIT	GENINORG	Sodium	Na	33.1	LANL Int BG LVL	12.19	2.7	0.1	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	20	25	03/29/04	0.31	2.88	1.205	24	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	03/27/13	FD	F	INIT	RAD	Uranium	U	2.23	LANL Int BG LVL	0.72	3.1	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	20	25	03/29/04	0.31	2.88	1.205	24	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	03/27/13	REG	F	INIT	RAD	Uranium	U	2.14	LANL Int BG LVL	0.72	3	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	19	23	04/13/05	2.31	19.6	3.97	13	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-26 S1	651.8	03/15/13	REG	F	INIT	METALS	Zinc	Zn	19.6	LANL Int BG LVL	2	9.8	3.3	ug/L	1		J	I10a	SW-846:6010B	GELC	
C5	7	10	04/20/10	15.2	20.6	19.8	10	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	16-26644	130	03/26/13	REG	F	INIT	GENINORG	Chloride	Cl(-1)	19.8	LANL Int BG LVL	7.78	2.5	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	8	11	04/20/10	4.3	9.31	6.57	7	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	16-26644	130	03/26/13	REG	F	INIT	METALS	Zinc	Zn	6.61	LANL Int BG LVL	2	3.3	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	11	12	01/05/09	3.1	1420	29.5	12	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25b	750	03/21/13	REG	F	INIT	METALS	Zinc	Zn	17.2	LANL Int BG LVL	2	8.6	3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	16	16	12/04/00	0.072	0.13	0.1025	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25 S4	1184.6	03/20/13	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.072	LANL Int BG LVL	0.03	2.4	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	17	17	12/04/00	2.9	20.1	8.07	14	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-25 S4	1184.6	03/20/13	REG	F	INIT	METALS	Zinc	Zn	12.6	LANL Int BG LVL	2	6.3	3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	16	21	06/01/05	51	65.4	58.8	21	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	03/28/13	REG	F	INIT	METALS	Boron	B	63.4	LANL Int BG LVL	15.12	4.2	15	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	16	21	06/01/05	3.2	12.2	4.7	21	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	03/28/13	REG	F	INIT	METALS	Nickel	Ni	4.23	LANL Int BG LVL	1	4.2	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	11	15	05/21/07	0.449	0.589	0.512	15	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	03/28/13	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.528	LANL Int BG LVL	0.05	10.6	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	16	21	06/01/05	4.9	31.4	7.9	17	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	03/28/13	REG	F	INIT	METALS	Zinc	Zn	11.5	LANL Int BG LVL	2	5.8	3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	6	6	08/31/10	69.3	115	78.3	6	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip S1	815.6	03/14/13	REG	F	INIT	METALS	Boron	B	75.6	LANL Int BG LVL	15.12	5	15	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	6	6	08/31/10	0.351	0.397	0.3715	6	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip S1	815.6	03/14/13	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.373	LANL Int BG LVL	0.05	7.5	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	11	19	02/05/07	0.242	0.325	0.291	19	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-2(i)r	850	03/14/13	FD	F	INIT	GENINORG	Perchlorate	ClO4	0.325	LANL Int BG LVL	0.05	6.5	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	11	19	02/05/07	0.242	0.325	0.291	19	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-2(i)r	850	03/14/13	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.314	LANL Int BG LVL	0.05	6.3	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	15	23	12/15/05	5.6	17	13.2	20	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-2(i)r	850	03/14/13	FD	F	INIT	METALS	Zinc	Zn	16.8	LANL Int BG LVL	2	8.4	3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	15	23	12/15/05	5.6	17	13.2	20	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-2(i)r	850	03/14/13	REG	F	INIT	METALS	Zinc	Zn	16	LANL Int BG LVL	2	8	3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	8	8	02/08/10	5.71	22.8	11.825	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-37-1(i)	632	03/22/13	REG	F	INIT	METALS	Manganese	Mn	5.71	LANL Int BG LVL	2	2.9	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	8	8	02/08/10	5.52	30.7	11.55	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-37-1(i)	632	03/22/13	REG	F	INIT	METALS	Zinc	Zn	5.52	LANL Int BG LVL	2	2.8	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	10	10	05/08/01	1.48	10.3	4.305	10	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-25 S5	1294.7	03/18/13	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	1.48	LANL Reg BG LVL	0.33	4.5	0.33	mg/L	1		NQ	NQ	SW-846:9060	GELC	
C5	7	7	02/07/02	1.12	3.45	1.91	7	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-25 S5	1294.7	03/18/13	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	1.12	LANL Reg BG LVL	0.16	7	0.017	mg/L	1		NQ	NQ	EPA:365.4	GELC	
C5	14	14	02/08/02	0.22	4.2	0.746	14	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-25 S6	1404.7	03/15/13	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.579	LANL Reg BG LVL	0.16	3.6	0.017	mg/L	1		NQ	NQ	EPA:365.4	GELC	
C5	9	9	05/10/10	11.9	214	34	9	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	03/12/13	REG	F	INIT	METALS	Manganese	Mn	11.9	LANL Reg BG LVL	2.94	4	2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	a new low
C5	38	43	03/23/00	2030	5150	3195	42	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02656	3	03/28/13	REG	F	INIT	METALS	Barium	Ba	4510	LANL Avl BG LVL	68.57	65.8	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	9	11	01/23/07	0.158	0.419	0.391	11	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02656	3	03/28/13	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.174	LANL Avl BG LVL	0.05	3.5	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C6	38	43	03/23/00	2030	5150	3195	42	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02656	3	03/28/13	REG	F	INIT	METALS	Barium	Ba	4510	NM GW STD	1000	4.5	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	