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Hazardous Waste Bureau

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Date: NOV 25 2014
Refer To: ADESH-14-123

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 2014

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, 2014, to review new groundwater data received in October 2014.

This report was prepared using the May 2014 U.S. Environmental Protection Agency (EPA) Regional Screening Levels for Chemical Contaminants at Superfund Sites. EPA screening levels for 10^{-6} excess cancer risk were adjusted to 10^{-5} excess cancer risk as required by the Compliance Order on Consent.

1-Day Notification

There were no instances of a contaminant detected 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).

Notification was not required because there were no cases of a contaminant detected in a well screen interval or spring at a concentration that exceeded a water quality standard for the first time.

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,

Michael T. Brandt, DrPH, CIH, Associate Director
Environment, Safety, and Health
Los Alamos National Laboratory

Sincerely,

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

MB/PM/DM/SP:sm

Enclosure: Two hard copies with electronic files – Summary of Groundwater Data Reviewed in November 2014 That Meet Notification Requirements (LA-UR-14-28753)

Cy: (w/enc.)
Steve Paris, EP-CAP, MS M992
Public Reading Room (EPRR)
ADESH Records (electronic copy)

Cy: (Letter and CD and/or DVD)
Laurie King, EPA Region 6, Dallas, TX
Steve Yanicak, NMED-DOE-OB, MS M894
Raymond Martinez, San Ildefonso Pueblo, NM
Dino Chavarria, Santa Clara Pueblo, NM
Jake Meadows, ENV-RCRA, MS K490
PRS Database

Cy: (w/o enc.)
Pete Padilla, Los Alamos County Utility Department, Los Alamos, NM
Tom Skibitski, NMED-DOE-OB, Santa Fe, NM (date-stamped letter emailed)
lasomailbox@nnsa.doe.gov
Annette Russell, DOE-NA-LA (date-stamped letter emailed)
Kimberly Davis Lebak, DOE-NA-LA (date-stamped letter emailed)
Hai Shen, DOE-NA-LA (date-stamped letter emailed)
David Rhodes, DOE-NA-LA (date-stamped letter emailed)
David Rogers, EP-CAP (date-stamped letter emailed)
Mei Ding, EES-6 (date-stamped letter emailed)
Craig Douglass, EP-CAP (date-stamped letter emailed)
Dave McInroy, EP-CAP (date-stamped letter emailed)
Randy Erickson, ADEP (date-stamped letter emailed)
Katie Roberts, ADESH-ENV-CP (date-stamped letter emailed)
Tony Grieggs, ADESH-ENV-CP (date-stamped letter emailed)
Alison Dorries, ADESH-ENV-DO (date-stamped letter emailed)
Michael Brandt, ADESH (date-stamped letter emailed)

SUMMARY OF GROUNDWATER DATA REVIEWED IN NOVEMBER 2014 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 10-14 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, all seven criteria may not 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 sample (INIT) or reanalysis (RE)

Anyl Suite Code—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 10-14 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	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	13	14	11/15/05	0.36	0.36	0.36	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2	153.3	09/03/14	REG	UF	INIT	VOC	Dichloropropene[trans-1,3-]	10061-02-6	0.36	1				0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	12	18	05/09/06	8.73	17.6	14.2	3	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-7	240	09/11/14	REG	UF	INIT	SVOC	Benzoic Acid	65-85-0	14.2	1	EPA TAP SCRN LVL	75000	0	5.22	ug/L	1	J	J	J_LAB	SW-846:8270D	GELC	
C1	2	4	09/24/12	0.0000116	0.0000355	2.355E-05	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	09/29/14	FD	UF	INIT	DIOXINS FURANS	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	35822-46-9	1.2E-05	0.5				2E-05	ug/L	1	J	J	J_LAB	SW-846:8290A	CFA	
C1	2	4	09/24/12	0.0000116	0.0000355	2.355E-05	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	09/29/14	REG	UF	INIT	DIOXINS FURANS	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	35822-46-9	3.6E-05	1.5				2E-05	ug/L	1	J	J	J_LAB	SW-846:8290A	CFA	
C1	2	4	09/24/12	0.0000116	0.0000534	0.0000325	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	09/29/14	FD	UF	INIT	DIOXINS FURANS	Heptachlorodibenzodioxins (Total)	37871-00-4	1.2E-05	0.4				2E-05	ug/L	1	J	J	J_LAB	SW-846:8290A	CFA	
C1	2	4	09/24/12	0.0000116	0.0000534	0.0000325	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	09/29/14	REG	UF	INIT	DIOXINS FURANS	Heptachlorodibenzodioxins (Total)	37871-00-4	5.3E-05	1.6				2E-05	ug/L	1	J	J	J_LAB	SW-846:8290A	CFA	
C1	2	4	09/24/12	7.83E-06	7.83E-06	7.83E-06	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	09/29/14	REG	UF	INIT	DIOXINS FURANS	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	67562-39-4	7.8E-06	1				2E-05	ug/L	1	J	J	J_LAB	SW-846:8290A	CFA	
C1	2	4	09/24/12	0.0000288	0.0000288	0.0000288	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	09/29/14	REG	UF	INIT	DIOXINS FURANS	Heptachlorodibenzofurans (Total)	38998-75-3	2.9E-05	1				2E-05	ug/L	1	J	J	J_LAB	SW-846:8290A	CFA	
C1	2	4	09/24/12	0.000121	0.000233	0.000177	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	09/29/14	FD	UF	INIT	DIOXINS FURANS	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	3268-87-9	0.00012	0.7				4E-05	ug/L	1		NQ	NQ	SW-846:8290A	CFA	
C1	2	4	09/24/12	0.000121	0.000233	0.000177	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	09/29/14	REG	UF	INIT	DIOXINS FURANS	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	3268-87-9	0.00023	1.3				4E-05	ug/L	1		NQ	NQ	SW-846:8290A	CFA	
C1	2	4	09/24/12	0.000015	0.0000313	2.315E-05	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	09/29/14	FD	UF	INIT	DIOXINS FURANS	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	39001-02-0	1.5E-05	0.6				4E-05	ug/L	1	J	J	J_LAB	SW-846:8290A	CFA	
C1	2	4	09/24/12	0.000015	0.0000313	2.315E-05	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	09/29/14	REG	UF	INIT	DIOXINS FURANS	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	39001-02-0	3.1E-05	1.4				4E-05	ug/L	1	J	J	J_LAB	SW-846:8290A	CFA	
C1	11	17	10/06/03	0.0219	0.0219	0.0219	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 3A	0	09/29/14	REG	UF	INIT	SVOC	Benzo(a)anthracene	56-55-3	0.0219	1	EPA TAP SCRN LVL	0.34	0.1	0.017	ug/L	1	J	J	J_LAB	SW-846:8310	GELC	First detect by new method; result below screening level
C1	11	17	10/06/03	0.0256	0.0256	0.0256	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 3A	0	09/29/14	REG	UF	INIT	SVOC	Benzo(b)fluoranthene	205-99-2	0.0256	1	EPA TAP SCRN LVL	0.34	0.1	0.017	ug/L	1	J	J	J_LAB	SW-846:8310	GELC	First detect by new method; result below screening level
C1	11	17	10/06/03	0.0222	0.0222	0.0222	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 3A	0	09/29/14	REG	UF	INIT	SVOC	Benzo(k)fluoranthene	207-08-9	0.0222	1	EPA TAP SCRN LVL	3.4	0	0.008	ug/L	1	J	J	J_LAB	SW-846:8310	GELC	First detect by new method; result below screening level
C1	11	17	10/06/03	0.0246	0.0246	0.0246	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 3A	0	09/29/14	REG	UF	INIT	SVOC	Chrysene	218-01-9	0.0246	1	EPA TAP SCRN LVL	34	0	0.017	ug/L	1	J	J	J_LAB	SW-846:8310	GELC	First detect by new method; result below screening level
C1	2	2	09/24/12	0.0000114	0.0000114	0.0000114	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	09/29/14	REG	UF	INIT	DIOXINS FURANS	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	35822-46-9	1.1E-05	1				2E-05	ug/L	1	J	J	J_LAB	SW-846:8290A	CFA	
C1	2	2	09/24/12	0.0000171	0.0000171	0.0000171	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	09/29/14	REG	UF	INIT	DIOXINS FURANS	Heptachlorodibenzodioxins (Total)	37871-00-4	1.7E-05	1				2E-05	ug/L	1	J	J	J_LAB	SW-846:8290A	CFA	
C1	2	2	09/24/12	0.000114	0.000114	0.000114	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	09/29/14	REG	UF	INIT	DIOXINS FURANS	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	3268-87-9	0.00011	1				3E-05	ug/L	1		NQ	NQ	SW-846:8290A	CFA	
C1	2	2	09/24/12	0.0000119	0.0000119	0.0000119	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	09/29/14	REG	UF	INIT	DIOXINS FURANS	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	39001-02-0	1.2E-05	1				3E-05	ug/L	1	J	J	J_LAB	SW-846:8290A	CFA	
C1	13	13	09/25/01	2.85	3.98	3.415	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 5	0	09/30/14	REG	UF	INIT	VOC	Acetone	67-64-1	3.98	1.2	EPA TAP SCRN LVL	14000	0	3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	9	9	09/25/01	2.9	8.2	3.26	3	White Rock Canyon and Rio Grande	Regional Spring	Spring 9	0	10/01/14	REG	UF	INIT	VOC	Acetone	67-64-1	3.26	1	EPA TAP SCRN LVL	14000	0	3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	9	9	09/25/01	0.53	0.53	0.53	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 9	0	10/01/14	REG	UF	INIT	VOC	Isopropyltoluene[4-]	99-87-6	0.53	1				0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C2	9	15	01/16/12	0.0209	0.0724	0.03125	6	Upper Los Alamos Canyon (includes DP Canyon)	Regional	R-66	819.4	09/03/14	FD	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.0724	2.3	LANL Reg BG LVL	0.05	1.4	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C5	12	12	08/04/06	0.167	0.257	0.2055	12	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI(a)-1.1	295.2	09/02/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.254	1.2	LANL Int BG LVL	0.05	5.1	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	12	12	01/20/00	4.7	45.6	11.3	7	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI(a)-1.1	295.2	09/02/14	REG	F	INIT	METALS	Zinc	Zn	7.05	0.6	LANL Int BG LVL	2	3.5	3.3	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	17	22	08/24/05	15.7	18	16.8	22	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	R-6i	602	09/04/14	REG	F	INIT	GENINORG	Chloride	Cl(-1)	17.2	1	LANL Int BG LVL	7.78	2.2	0.335	mg/L	5		NQ	NQ	EPA:300.0	GELC	
C5	14	17	08/24/05	1.7	6.08	2.9	13	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	R-6i	602	09/04/14	REG	F	INIT	METALS	Chromium	Cr	2.56	0.9	LANL Int BG LVL	1	2.6	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	17	22	08/24/05	0.575	0.899	0.661	22	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	R-6i	602	09/04/14	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.689	1	LANL Int BG LVL	0.23	3	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	13	18	07/26/06	5.98	8.32	6.67	18	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	R-6i	602	09/04/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	6.48	1	LANL Int BG LVL	0.05	129.6	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	14	17	08/24/05	4.35	45.7	12.5	13	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	R-6i	602	09/04/14	REG	F	INIT	METALS	Zinc	Zn	9.5	0.8	LANL Int BG LVL	2	4.8	3.3	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	9	12	05/21/09	0.894	1.9	1.6	12	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	09/10/14	REG	F	INIT	GENINORG	Bromide	Br(-1)	1.88	1.2	LANL Int BG LVL	0.03	62.7	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	8	11	05/21/09	32.5	39.5	34.7	11	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	09/10/14	REG	F	INIT	GENINORG	Calcium	Ca	39.5	1.1	LANL Int BG LVL	17.31	2.3	0.05	mg/L	1		NQ	NQ	SW-846:6010C	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	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	9	12	05/21/09	25.3	36	29.2	12	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	09/10/14	REG	F	INIT	GENINORG	Chloride	Cl(-1)	36	1.2	LANL Int BG LVL	7.78	4.6	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	8	11	05/21/09	76.9	175	93.9	11	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	09/10/14	REG	F	INIT	METALS	Molybdenum	Mo	175	1.9	LANL Int BG LVL	2	87.5	0.825	ug/L	5		NQ	NQ	SW-846:6020	GELC	
C5	8	11	05/21/09	8.45	21.9	11.7	11	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	09/10/14	REG	F	INIT	METALS	Nickel	Ni	8.45	0.7	LANL Int BG LVL	1	8.4	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	9	12	05/21/09	0.579	0.68	0.6355	12	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	09/10/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.579	0.9	LANL Int BG LVL	0.05	11.6	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	8	11	05/21/09	3.44	14.8	8.955	10	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	09/10/14	REG	F	INIT	METALS	Zinc	Zn	11	1.2	LANL Int BG LVL	2	5.5	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	16	16	11/15/05	0.069	0.527	0.106	7	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2	153.3	09/03/14	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.463	4.4	LANL Int BG LVL	0.03	15.4	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	16	16	11/15/05	5.15	31.1	17.8	16	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2	153.3	09/03/14	REG	F	INIT	GENINORG	Chloride	Cl(-1)	31.1	1.7	LANL Int BG LVL	7.78	4	0.335	mg/L	5		NQ	NQ	EPA:300.0	GELC	
C5	14	14	07/25/06	3.01	7.63	5.515	14	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2	153.3	09/03/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	5.71	1	LANL Int BG LVL	0.05	114.2	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	15	15	07/26/06	0.162	0.64	0.306	15	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	09/04/14	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.64	2.1	LANL Int BG LVL	0.03	21.3	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	15	15	07/26/06	19.1	23.4	20.4	15	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	09/04/14	REG	F	INIT	GENINORG	Chloride	Cl(-1)	22.8	1.1	LANL Int BG LVL	7.78	2.9	0.335	mg/L	5		NQ	NQ	EPA:300.0	GELC	
C5	15	15	07/26/06	2.31	4.65	3.01	15	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	09/04/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	2.37	0.8	LANL Int BG LVL	0.05	47.4	0.2	ug/L	4		NQ	NQ	SW-846:6850	GELC	
C5	14	14	07/26/06	1.1	2.1	1.5	14	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	09/04/14	REG	F	INIT	RAD	Uranium	U	1.49	1	LANL Int BG LVL	0.72	2.1	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	16	20	05/09/06	0.522	0.877	0.762	20	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-7	240	09/11/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.762	1	LANL Int BG LVL	0.05	15.2	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	15	20	05/09/06	3.1	15.1	6.8	11	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-7	240	09/11/14	REG	F	INIT	METALS	Zinc	Zn	6.36	0.9	LANL Int BG LVL	2	3.2	3.3	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	43	51	03/28/00	4580	13600	6420	51	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02659	1.7	08/05/14	REG	F	INIT	METALS	Barium	Ba	8350	1.3	LANL Avl BG LVL	68.57	121.8	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	14	19	02/28/00	99	209	185	19	Upper Los Alamos Canyon (includes DP Canyon)	Regional	R-9	683	09/05/14	REG	F	INIT	METALS	Barium	Ba	167	0.9	LANL Reg BG LVL	56.83	2.9	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	11	16	07/31/06	0.884	1.34	0.974	16	Upper Los Alamos Canyon (includes DP Canyon)	Regional	R-9	683	09/05/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.34	1.4	LANL Reg BG LVL	0.46	2.9	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	53	59	01/10/00	570	2840	1740	59	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	08/13/14	REG	F	INIT	METALS	Boron	B	1270	0.7	LANL Int BG LVL	15.12	84	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	13	17	01/30/07	18.3	37.2	22.2	17	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	08/13/14	REG	F	INIT	GENINORG	Chloride	Cl(-1)	18.3	0.8	LANL Int BG LVL	7.78	2.4	0.335	mg/L	5		NQ	NQ	EPA:300.0	GELC	
C5	11	12	01/05/09	0.208	0.306	0.2875	12	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	R-25b	750	08/18/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.283	1	LANL Int BG LVL	0.05	5.7	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	14	15	01/05/09	3.1	1420	24.1	15	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	R-25b	750	08/18/14	REG	F	INIT	METALS	Zinc	Zn	7.5	0.3	LANL Int BG LVL	2	3.8	3.3	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	19	24	06/01/05	51	72	59.75	24	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	08/20/14	REG	F	INIT	METALS	Boron	B	72	1.2	LANL Int BG LVL	15.12	4.8	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	19	24	06/01/05	3.2	12.2	4.725	24	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	08/20/14	REG	F	INIT	METALS	Nickel	Ni	6.06	1.3	LANL Int BG LVL	1	6.1	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	19	24	06/01/05	4.9	70.7	10.25	20	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	08/20/14	REG	F	INIT	METALS	Zinc	Zn	70.7	6.9	LANL Int BG LVL	2	35.4	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	12	15	08/31/10	62.4	115	67.7	15	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip S1	815.6	08/19/14	REG	F	INIT	METALS	Boron	B	67.1	1	LANL Int BG LVL	15.12	4.4	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	12	15	08/31/10	0.337	0.397	0.362	15	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip S1	815.6	08/19/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.337	0.9	LANL Int BG LVL	0.05	6.7	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	18	26	12/15/05	5.6	21.5	13.5	23	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-2(i)r	850	08/18/14	REG	F	INIT	METALS	Zinc	Zn	21.5	1.6	LANL Int BG LVL	2	10.8	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	26	31	01/28/02	170	3720	1860	31	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Regional	CdV-R-37-2 S2	1188.7	08/14/14	REG	F	INIT	METALS	Manganese	Mn	170	0.1	LANL Reg BG LVL	2.94	57.8	2	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	10	12	09/18/06	0.432	2.34	0.767	11	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	09/29/14	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	2.34	3.1	LANL Reg BG LVL	0.33	7.1	0.33	mg/L	1		NQ	NQ	SW-846:9060	GELC	
C5	7	7	09/19/06	0.777	1.42	0.9905	6	White Rock Canyon and Rio Grande	Regional Spring	Spring 9	0	10/01/14	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	1.21	1.2	LANL Reg BG LVL	0.33	3.7	0.33	mg/L	1		NQ	NQ	SW-846:9060	GELC	
C5	41	46	03/23/00	2030	5150	3210	45	Water Canyon (includes Cañon de Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02656	3	08/06/14	REG	F	INIT	METALS	Barium	Ba	3670	1.1	LANL Avl BG LVL	68.57	53.5	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	