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Date: OCT 25 2016
Refer To: ADEM-16-5297
LAUR: 16-27907
Locates Action No.: n/a

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 October 2016

This letter is Los Alamos National Laboratory's (LANL's) written submission in accordance with Section XXVI of the June 2016 Compliance Order on Consent (Consent Order). Los Alamos National Laboratory is currently updating its data screening procedures to incorporate the updated screening levels in Section IX of the 2016 Consent Order. Therefore, the screening levels used in this report are those specified in Section IV.A.3.g of the March 2005 Consent Order. Members of LANL's Associate Directorate for Environmental Management met on October 13, 2016, to review new groundwater data received in September 2016. This report was prepared by comparing the data against groundwater cleanup levels, as defined in Section VIII.A.1 of the March 2005 Consent Order. For comparison with U.S. Environmental Protection Agency (EPA) tap water standards, the carcinogenic risk was adjusted to 1×10^{-5}, as specified in the Consent Order. This report was prepared using the May 2016 EPA regional screening levels.

This report also includes analytical data from samples collected in San Ildefonso Pueblo, which are subject to reporting at this time. These data have been reviewed by San Ildefonso Pueblo. This review is required under the Memorandum of Agreement dated May 28, 2014, between the U.S. Department of Energy, National Nuclear Security Administration, Los Alamos Field Office, and San Ildefonso Pueblo.

1-Day Notification

There were no instances of a contaminant detected at a concentration that exceeded the New Mexico Water Quality Control Commission standard or federal maximum contaminant level at locations where contaminants have not been previously detected above the respective standard (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 six 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@em.doe.gov).

Sincerely,

Bruce Robinson, Program Director
Environmental Remediation Program
Los Alamos National Laboratory

Sincerely,

David S. Rhodes, Director
Office of Quality and Regulatory Compliance
Environmental Management
Los Alamos Field Office

BR/DR/SP:sm

Enclosure: Two hard copies with electronic files – Summary of Groundwater Data Reviewed in October 2016 That Meet Notification Requirements (EP2016-0138)

Cy: (Letter and CD and/or DVD)
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Michael Brandt, ADESH
William Mairson, PADOPS
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SUMMARY OF GROUNDWATER DATA REVIEWED IN OCTOBER 2016 THAT MEET NOTIFICATION REQUIREMENTS

INTRODUCTION

This report provides preliminary information to the New Mexico Environment Department (NMED) concerning recent groundwater monitoring data obtained by Los Alamos National Laboratory (the Laboratory) under its interim monitoring plan and contains results for chemical constituents that meet the six screening criteria laid out in the March 2005 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 09-16 Groundwater Report*. This table contains values which are detected for the first time since June 14, 2007, or detections of concentrations meeting other screening criteria since that time (as specified in the March 2005 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 based on consideration of monitoring data acquired before the current results (using statistics described below)
- Supplemental information summarizing monitoring results obtained before the current results
- 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 March 2005 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 March 2005 Consent Order. This report was prepared using the May 2016 EPA regional screening levels.

Background levels applied in Criteria 2 and 5 are the NMED-approved 95% upper tolerance limits for background for each groundwater zone as set forth in the "Groundwater Background Investigation Report, Rev 3," prepared under Section IV.A.3.d of the March 2005 Consent Order.

DESCRIPTION OF TABLE

15-Day Notification Requirement

The table is divided into separate categories that correspond to the six screening criteria in the March 2005 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 six criteria may not appear in the table.

The criteria are as follows:

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 before 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 with 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

Validation Flag—secondary validation qualifier

Validation 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 09-16 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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C1	12	13	08/09/06	0.32	0.32	0.32	1	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	06/16/16	REG	UF	INIT	VOC	Toluene	108-88-3	0.32	1	NM GW STD	750	0	0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	15	18	07/26/06	0.0899	0.0899	0.0899	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	08/30/16	REG	UF	INIT	SVOC	Benzo(a)anthracene	56-55-3	0.0899	1	EPA TAP SCRN LVL	0.12	0.7	0.0337	ug/L	1	J	J-	SV3a	SW-846:8270DGCMS_SIM	GELC	The laboratory initiated and performed same-day reanalysis of the sample. The reanalysis result for this compound was nondetect.
C1	14	17	07/26/06	0.0787	0.0787	0.0787	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	08/30/16	REG	UF	INIT	SVOC	Benzo(a)pyrene	50-32-8	0.0787	1	EPA MCL	0.2	0.4	0.0337	ug/L	1	J	J-	SV3a	SW-846:8270DGCMS_SIM	GELC	The laboratory initiated and performed same-day reanalysis of the sample. The reanalysis result for this compound was nondetect.
C1	15	18	07/26/06	0.112	0.112	0.112	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	08/30/16	REG	UF	INIT	SVOC	Benzo(b)fluoranthene	205-99-2	0.112	1	EPA TAP SCRN LVL	0.34	0.3	0.0337	ug/L	1		J-	SV3a	SW-846:8270DGCMS_SIM	GELC	The laboratory initiated and performed same-day reanalysis of the sample. The reanalysis result for this compound was nondetect.

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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C1	15	18	07/26/06	0.0674	0.0674	0.0674	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	08/30/16	REG	UF	INIT	SVOC	Benzo(g,h,i)perylene	191-24-2	0.0674	1				0.0337	ug/L	1	J	J-	SV3a	SW-846:8270DGCMS_SIM	GELC	The laboratory initiated and performed same-day reanalysis of the sample. The reanalysis result for this compound was nondetect.
C1	15	18	07/26/06	0.0899	0.0899	0.0899	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	08/30/16	REG	UF	INIT	SVOC	Benzo(k)fluoranthene	207-08-9	0.0899	1	EPA TAP SCRN LVL	3.4	0	0.0337	ug/L	1	J	J-	SV3a	SW-846:8270DGCMS_SIM	GELC	The laboratory initiated and performed same-day reanalysis of the sample. The reanalysis result for this compound was nondetect.
C1	15	18	07/26/06	0.0674	0.0674	0.0674	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	08/30/16	REG	UF	INIT	SVOC	Chrysene	218-01-9	0.0674	1	EPA TAP SCRN LVL	34	0	0.0337	ug/L	1	J	J-	SV3a	SW-846:8270DGCMS_SIM	GELC	The laboratory initiated and performed same-day reanalysis of the sample. The reanalysis result for this compound was nondetect.
C1	15	18	07/26/06	0.0787	0.0787	0.0787	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	08/30/16	REG	UF	INIT	SVOC	Dibenz(a,h)anthracene	53-70-3	0.0787	1	EPA TAP SCRN LVL	0.034	2.3	0.0337	ug/L	1	J	J-	SV3a	SW-846:8270DGCMS_SIM	GELC	The laboratory initiated and performed same-day reanalysis of the sample. The reanalysis result for this compound was nondetect.

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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C1	15	18	07/26/06	0.0674	0.0674	0.0674	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	08/30/16	REG	UF	INIT	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	0.0674	1	EPA TAP SCRN LVL	0.34	0.2	0.0337	ug/L	1	J	J-	SV3a	SW-846:8270DGCMS_SIM	GELC	The laboratory initiated and performed same-day reanalysis of the sample. The reanalysis result for this compound was nondetect.
C2	13	14	05/11/05	21.8	21.8	21.8	1	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	06/16/16	REG	F	INIT	METALS	Tin	Sn	21.8	1	LANL AvI BG LVL	3.26	6.7	2.5	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	14	14	01/20/00	7.1	169	9.31	13	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI(a)-1.1	295.2	08/25/16	REG	F	INIT	METALS	Barium	Ba	169	18.2	LANL Int BG LVL	71.83	2.4	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	14	14	01/20/00	4.26	23.5	6.57	14	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI(a)-1.1	295.2	08/25/16	REG	F	INIT	GENINORG	Calcium	Ca	23.5	3.6	LANL Int BG LVL	17.31	1.4	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	14	14	01/20/00	1.13	1.2	1.165	2	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI(a)-1.1	295.2	08/25/16	REG	F	INIT	METALS	Cobalt	Co	1.13	1	LANL Int BG LVL	0.5	2.3	1	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	14	14	01/20/00	0.862	7.07	1.725	14	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI(a)-1.1	295.2	08/25/16	REG	F	INIT	GENINORG	Magnesium	Mg	7.07	4.1	LANL Int BG LVL	6.12	1.2	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	14	14	01/20/00	8.03	19.1	8.68	14	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI(a)-1.1	295.2	08/25/16	REG	F	INIT	GENINORG	Sodium	Na	17.5	2	LANL Int BG LVL	12.19	1.4	0.1	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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C2	12	12	08/04/06	33.7	183	63.25	12	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI(a)-1.1	295.2	08/25/16	REG	F	INIT	METALS	Strontium	Sr	183	2.9	LANL Int BG LVL	154.8	1.2	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	14	14	01/20/00	1.1	11.1	1.59	6	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI(a)-1.1	295.2	08/25/16	REG	F	INIT	METALS	Vanadium	V	11.1	7	LANL Int BG LVL	4.91	2.3	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	10	13	05/21/09	3.46	5.4	3.93	4	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	08/22/16	REG	F	INIT	METALS	Copper	Cu	5.4	1.4	LANL Int BG LVL	5.32	1	3	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	11	11	08/08/11	15	15	15	1	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	06/16/16	REG	F	INIT	METALS	Tin	Sn	15	1	LANL Int BG LVL	3.26	4.6	2.5	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	19	20	11/17/05	0.032	0.0678	0.052	4	Upper Los Alamos Canyon (includes DP Canyon)	Regional	R-6	1205	08/23/16	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.0678	1.3	LANL Reg BG LVL	0.05	1.4	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C2	14	19	09/06/11	20.1	39	26.5	5	Upper Los Alamos Canyon (includes DP Canyon)	Regional	R-64	1285	08/29/16	REG	F	INIT	METALS	Boron	B	39	1.5	LANL Reg BG LVL	38.77	1	15	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	14	19	09/06/11	2.02	6.22	2.48	11	Upper Los Alamos Canyon (includes DP Canyon)	Regional	R-64	1285	08/29/16	REG	F	INIT	METALS	Chromium	Cr	6.22	2.5	LANL Reg BG LVL	5.75	1.1	3	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C3	20	21	08/02/01	251	991	308	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-5	21	07/29/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	991	3.2	NM GW STD	1000	1	3.4	mg/L	1		J	i10b	EPA:160.1	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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C3	15	18	07/26/06	0.0899	0.0899	0.0899	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	08/30/16	REG	UF	INIT	SVOC	Benzo(a)anthracene	56-55-3	0.0899	1	EPA TAP SCRN LVL	0.12	0.7	0.0337	ug/L	1	J	J-	SV3a	SW-846:8270DGCMS_SIM	GELC	The laboratory initiated and performed same-day reanalysis of the sample. The reanalysis result for this compound was nondetect.
C3	15	18	07/26/06	0.0787	0.0787	0.0787	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	08/30/16	REG	UF	INIT	SVOC	Dibenz(a,h)anthracene	53-70-3	0.0787	1	EPA TAP SCRN LVL	0.034	2.3	0.0337	ug/L	1	J	J-	SV3a	SW-846:8270DGCMS_SIM	GELC	The laboratory initiated and performed same-day reanalysis of the sample. The reanalysis result for this compound was nondetect.
C5	17	20	06/27/00	30	48.7	39.9	20	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	06/16/16	REG	F	INIT	GENINORG	Sodium	Na	41	1	LANL Avl BG LVL	15.54	2.6	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	13	14	05/11/05	357	533	427.5	14	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	06/16/16	REG	F	INIT	METALS	Strontium	Sr	381	0.9	LANL Avl BG LVL	120	3.2	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	16	17	06/27/00	256	377	318	17	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	06/16/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	284	0.9	LANL Avl BG LVL	139	2	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	17	20	06/27/00	5.8	12.7	7.68	14	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	06/16/16	REG	F	INIT	METALS	Vanadium	V	7.49	1	LANL Avl BG LVL	1	7.5	1	ug/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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	20	21	08/02/01	0.638	1.18	0.843	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-5	21	07/29/16	FD	F	INIT	GENINORG	Fluoride	F(-1)	0.669	0.8	LANL Avl BG LVL	0.27	2.5	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	20	21	08/02/01	0.638	1.18	0.843	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-5	21	07/29/16	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.674	0.8	LANL Avl BG LVL	0.27	2.5	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	19	20	08/02/01	20.6	81.3	36.3	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-5	21	07/29/16	FD	F	INIT	METALS	Molybdenum	Mo	25.8	0.7	LANL Avl BG LVL	2	12.9	0.165	ug/L	1		J	I4a	SW-846:6020	GELC	
C5	19	20	08/02/01	20.6	81.3	36.3	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-5	21	07/29/16	REG	F	INIT	METALS	Molybdenum	Mo	25.5	0.7	LANL Avl BG LVL	2	12.8	0.165	ug/L	1		J	I4a	SW-846:6020	GELC	
C5	15	16	05/03/05	4.03	24.4	10.35	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-5	21	07/29/16	FD	F	INIT	GENINORG	Perchlorate	ClO4	4.03	0.4	LANL Avl BG LVL	0.05	80.6	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	15	16	05/03/05	4.03	24.4	10.35	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-5	21	07/29/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	4.6	0.4	LANL Avl BG LVL	0.05	92	0.5	ug/L	10		NQ	NQ	SW-846:6850	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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	19	20	08/02/01	10.5	15.7	13.75	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-5	21	07/29/16	FD	F	INIT	GENINORG	Potassium	K	10.5	0.8	LANL Avl BG LVL	5.21	2	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	19	20	08/02/01	10.5	15.7	13.75	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-5	21	07/29/16	REG	F	INIT	GENINORG	Potassium	K	10.6	0.8	LANL Avl BG LVL	5.21	2	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	19	20	08/02/01	46.3	77.4	57.1	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-5	21	07/29/16	FD	F	INIT	GENINORG	Sodium	Na	55.9	1	LANL Avl BG LVL	15.54	3.6	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	19	20	08/02/01	46.3	77.4	57.1	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-5	21	07/29/16	REG	F	INIT	GENINORG	Sodium	Na	56.2	1	LANL Avl BG LVL	15.54	3.6	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	20	21	08/02/01	251	991	308	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-5	21	07/29/16	FD	F	INIT	GENINORG	Total Dissolved Solids	TDS	253	0.8	LANL Avl BG LVL	139	1.8	3.4	mg/L	1	H	NQ	NQ	EPA:160.1	GELC	
C5	20	21	08/02/01	251	991	308	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-5	21	07/29/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	991	3.2	LANL Avl BG LVL	139	7.1	3.4	mg/L	1		J	i10b	EPA:160.1	GELC	Reanalysis result for this compound was 273 mg/L.

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C5	14	14	08/04/06	0.167	0.31	0.2105	14	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI(a)-1.1	295.2	08/25/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.307	1.5	LANL Int BG LVL	0.05	6.1	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	18	19	11/15/05	0.069	0.973	0.2955	10	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2	153.3	08/24/16	FD	F	INIT	GENINORG	Bromide	Br(-1)	0.96	3.2	LANL Int BG LVL	0.03	32	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	18	19	11/15/05	0.069	0.973	0.2955	10	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2	153.3	08/24/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.973	3.3	LANL Int BG LVL	0.03	32.4	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	18	19	11/15/05	5.15	31.8	18.2	19	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2	153.3	08/24/16	FD	F	INIT	GENINORG	Chloride	Cl(-1)	28.8	1.6	LANL Int BG LVL	7.78	3.7	0.335	mg/L	5		NQ	NQ	EPA:300.0	GELC	
C5	18	19	11/15/05	5.15	31.8	18.2	19	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2	153.3	08/24/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	28.5	1.6	LANL Int BG LVL	7.78	3.7	0.335	mg/L	5		NQ	NQ	EPA:300.0	GELC	
C5	16	17	07/25/06	3.01	7.63	4.78	17	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2	153.3	08/24/16	FD	F	INIT	GENINORG	Perchlorate	ClO4	4.78	1	LANL Int BG LVL	0.05	95.6	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	16	17	07/25/06	3.01	7.63	4.78	17	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2	153.3	08/24/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	4.46	0.9	LANL Int BG LVL	0.05	89.2	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	17	17	07/26/06	0.162	0.729	0.318	17	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	08/30/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.729	2.3	LANL Int BG LVL	0.03	24.3	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	17	17	07/26/06	19.1	23.4	20.9	17	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	08/30/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	21.5	1	LANL Int BG LVL	7.78	2.8	0.335	mg/L	5		NQ	NQ	EPA:300.0	GELC	

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C5	17	17	07/26/06	2.27	4.65	2.96	17	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	08/30/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	2.55	0.9	LANL Int BG LVL	0.05	51	0.25	ug/L	5		NQ	PE12d	SW-846:6850	GELC	
C5	16	16	07/26/06	1.1	2.1	1.535	16	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-3.2a	181.4	08/30/16	REG	F	INIT	GENINORG	Uranium	U	1.8	1.2	LANL Int BG LVL	0.72	2.5	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	17	22	05/09/06	0.088	0.242	0.131	15	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-7	240	08/31/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.122	0.9	LANL Int BG LVL	0.03	4.1	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	17	22	05/09/06	3.56	38.3	19.5	22	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-7	240	08/31/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	19.5	1	LANL Int BG LVL	7.78	2.5	0.335	mg/L	5		NQ	NQ	EPA:300.0	GELC	
C5	16	21	05/09/06	1.1	21.2	1.9	21	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-7	240	08/31/16	REG	F	INIT	METALS	Nickel	Ni	6.15	3.2	LANL Int BG LVL	1	6.2	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	17	21	05/09/06	0.522	0.877	0.762	21	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-7	240	08/31/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.757	1	LANL Int BG LVL	0.05	15.1	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	16	21	05/09/06	3.1	15.1	6.885	12	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	LAOI-7	240	08/31/16	REG	F	INIT	METALS	Zinc	Zn	8.97	1.3	LANL Int BG LVL	2	4.5	3.3	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	21	25	09/19/00	0.072	0.103	0.08635	10	Sandia Canyon	Intermediate	R-12 S2	504.5	08/03/16	FD	F	INIT	GENINORG	Bromide	Br(-1)	0.0908	1.1	LANL Int BG LVL	0.03	3	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	21	25	09/19/00	0.072	0.103	0.08635	10	Sandia Canyon	Intermediate	R-12 S2	504.5	08/03/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.0819	0.9	LANL Int BG LVL	0.03	2.7	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	21	23	09/19/00	23.6	180	36.9	23	Sandia Canyon	Intermediate	R-12 S2	504.5	08/03/16	FD	F	INIT	METALS	Manganese	Mn	29.9	0.8	LANL Int BG LVL	2	14.9	2	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	21	23	09/19/00	23.6	180	36.9	23	Sandia Canyon	Intermediate	R-12 S2	504.5	08/03/16	REG	F	INIT	METALS	Manganese	Mn	29.1	0.8	LANL Int BG LVL	2	14.6	2	ug/L	1		NQ	NQ	SW-846:6010C	GELC	

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C5	17	19	02/01/06	0.817	1.16	0.9485	18	Sandia Canyon	Intermediate	R-12 S2	504.5	08/03/16	FD	F	INIT	GENINORG	Perchlorate	ClO4	0.843	0.9	LANL Int BG LVL	0.05	16.9	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	17	19	02/01/06	0.817	1.16	0.9485	18	Sandia Canyon	Intermediate	R-12 S2	504.5	08/03/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.817	0.9	LANL Int BG LVL	0.05	16.3	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	11	11	02/23/04	187	204	196	11	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-5 S2	372.8	08/23/16	REG	F	INIT	METALS	Barium	Ba	187	1	LANL Int BG LVL	71.83	2.6	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	14	14	02/23/04	0.088	0.152	0.122	11	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-5 S2	372.8	08/23/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.133	1.1	LANL Int BG LVL	0.03	4.4	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	11	11	02/23/04	3.7	8.22	4.45	10	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-5 S2	372.8	08/23/16	REG	F	INIT	METALS	Chromium	Cr	4.11	0.9	LANL Int BG LVL	1	4.1	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	14	14	02/23/04	0.992	1.13	1.055	14	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-5 S2	372.8	08/23/16	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.992	0.9	LANL Int BG LVL	0.23	4.3	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	11	11	07/25/06	1.24	1.65	1.38	11	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-5 S2	372.8	08/23/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.39	1	LANL Int BG LVL	0.05	27.8	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	11	11	02/23/04	2.58	2.9	2.8	11	Pueblo Canyon (includes Acid Canyon)	Intermediate	R-5 S2	372.8	08/23/16	REG	F	INIT	GENINORG	Uranium	U	2.58	0.9	LANL Int BG LVL	0.72	3.6	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	16	20	08/24/05	1.7	6.08	2.68	16	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	R-6i	602	08/23/16	REG	F	INIT	METALS	Chromium	Cr	2.2	0.8	LANL Int BG LVL	1	2.2	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	19	25	08/24/05	0.575	0.899	0.681	25	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	R-6i	602	08/23/16	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.681	1	LANL Int BG LVL	0.23	3	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	15	21	07/26/06	5.72	8.32	6.48	21	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	R-6i	602	08/23/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	6.26	1	LANL Int BG LVL	0.05	125.2	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	

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C5	11	14	05/21/09	0.894	1.9	1.665	14	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	08/22/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	1.73	1	LANL Int BG LVL	0.03	57.7	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	10	13	05/21/09	32.5	42.5	35.5	13	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	08/22/16	REG	F	INIT	GENINORG	Calcium	Ca	42.5	1.2	LANL Int BG LVL	17.31	2.5	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	11	14	05/21/09	25.3	38.1	29.95	14	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	08/22/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	35.9	1.2	LANL Int BG LVL	7.78	4.6	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	10	13	05/21/09	76.9	175	97.2	13	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	08/22/16	REG	F	INIT	METALS	Molybdenum	Mo	163	1.7	LANL Int BG LVL	2	81.5	0.165	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	10	13	05/21/09	8.45	21.9	12.4	13	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	08/22/16	REG	F	INIT	METALS	Nickel	Ni	13.5	1.1	LANL Int BG LVL	1	13.5	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	11	14	05/21/09	0.579	0.68	0.6315	14	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	08/22/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.587	0.9	LANL Int BG LVL	0.05	11.7	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	11	11	08/08/11	0.136	0.19	0.159	11	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	06/16/16	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.177	1.1	LANL Int BG LVL	0.03	5.9	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	11	11	08/08/11	15.5	19.1	16	11	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	06/16/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	15.8	1	LANL Int BG LVL	7.78	2	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C5	11	11	08/08/11	2	3.82	2.24	7	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	06/16/16	REG	F	INIT	METALS	Chromium	Cr	2.15	1	LANL Int BG LVL	1	2.1	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	11	11	08/08/11	0.438	0.693	0.475	11	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	06/16/16	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.476	1	LANL Int BG LVL	0.23	2.1	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	11	11	08/08/11	4.86	6.54	5.59	11	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	06/16/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	5.95	1.1	LANL Int BG LVL	0.05	119	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	11	11	08/08/11	1.39	2.23	1.87	11	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	06/16/16	REG	F	INIT	GENINORG	Uranium	U	2.13	1.1	LANL Int BG LVL	0.72	3	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	29	33	11/30/05	0.528	14.2	1.29	31	Sandia Canyon	Regional	R-10a	690	05/16/16	FD	F	INIT	METALS	Nickel	Ni	14.2	11	LANL Reg BG LVL	3.09	4.6	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	29	33	11/30/05	0.528	14.2	1.29	31	Sandia Canyon	Regional	R-10a	690	05/16/16	REG	F	INIT	METALS	Nickel	Ni	13.9	10.8	LANL Reg BG LVL	3.09	4.5	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	46	56	05/17/05	13.5	34.9	21.3	56	Sandia Canyon	Regional	R-11	855	08/09/16	REG	F	INIT	METALS	Chromium	Cr	13.9	0.7	LANL Reg BG LVL	5.75	2.4	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	45	53	05/17/05	2.27	7.43	5.18	53	Sandia Canyon	Regional	R-11	855	08/09/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.66	1.1	LANL Reg BG LVL	0.89	6.4	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	16	19	03/19/04	3.74	68	28.4	19	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16 S4	1237	08/04/16	REG	F	INIT	METALS	Manganese	Mn	56.8	2	LANL Reg BG LVL	2.94	19.3	2	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	15	15	11/14/01	7.16	8.98	7.95	15	Pueblo Canyon (includes Acid Canyon)	Regional	R-5 S3	676.9	08/24/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	8.14	1	LANL Reg BG LVL	3.57	2.3	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	16	16	11/14/01	1.79	2.54	2.045	16	Pueblo Canyon (includes Acid Canyon)	Regional	R-5 S3	676.9	08/24/16	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.94	0.9	LANL Reg BG LVL	0.89	2.2	0.085	mg/L	5		NQ	NQ	EPA:353.2	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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	11	11	07/26/06	1.19	1.36	1.23	11	Pueblo Canyon (includes Acid Canyon)	Regional	R-5 S3	676.9	08/24/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.31	1.1	LANL Reg BG LVL	0.46	2.8	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	15	15	11/14/01	15.3	18.2	16.5	15	Pueblo Canyon (includes Acid Canyon)	Regional	R-5 S3	676.9	08/24/16	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	17.3	1	LANL Reg BG LVL	7.2	2.4	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	17	23	03/26/12	1.64	11.7	8.26	23	Sandia Canyon	Regional	R-62	1158.4	08/05/16	REG	F	INIT	GENINORG	Chloride	Cl(-1)	9.58	1.2	LANL Reg BG LVL	3.57	2.7	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C5	17	23	03/26/12	104	240	136	23	Sandia Canyon	Regional	R-62	1158.4	08/05/16	REG	F	INIT	METALS	Chromium	Cr	197	1.4	LANL Reg BG LVL	5.75	34.3	10	ug/L	5		NQ	NQ	SW-846:6020	GELC	
C5	17	23	03/26/12	2.56	20.2	14	23	Sandia Canyon	Regional	R-62	1158.4	08/05/16	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	17.8	1.3	LANL Reg BG LVL	7.2	2.5	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	13	18	07/31/06	0.884	1.34	0.981	18	Upper Los Alamos Canyon (includes DP Canyon)	Regional	R-9	683	08/25/16	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.993	1	LANL Reg BG LVL	0.46	2.2	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C6	20	21	08/02/01	251	991	308	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-5	21	07/29/16	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	991	3.2	NM GW STD	1000	1	3.4	mg/L	1		J	i10b	EPA:160.1	GELC	Reanalysis result for this compound was 273 mg/L.
C6	17	23	03/26/12	104	240	136	23	Sandia Canyon	Regional	R-62	1158.4	08/05/16	REG	F	INIT	METALS	Chromium	Cr	197	1.4	NM GW STD	50	3.9	10	ug/L	5		NQ	NQ	SW-846:6020	GELC	