

SUMMARY OF GROUNDWATER DATA REVIEWED IN FEBRUARY 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 1-14 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, 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 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 1-14 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fid QC Type Code	Fid Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C1	9	12	08/31/10	0.9	0.9	0.9	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip S1	815.6	12/18/13	REG	UF	INIT	VOC	Trichlorobenzene[1,2,3-]	87-61-6	0.9	1	EPA TAP SCRNLVL	5.2	0.2	0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	12	16	10/11/06	16.3	16.3	16.3	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i S3	524	12/04/13	REG	UF	INIT	SVOC	Benzoic Acid	65-85-0	16.3	1	EPA TAP SCRNLVL	58000	0	6.19	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C1	12	16	10/11/06	0.0175	0.0175	0.0175	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i S3	524	12/04/13	REG	UF	INIT	SVOC	Pyrene	129-00-0	0.0175	1	EPA TAP SCRNLVL	87	0	0.017	ug/L	1	J	J	J_LAB	SW-846:8310	GELC	
C1	12	16	02/21/10	3.01	3.01	3.01	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-54 S2	915	12/16/13	REG	UF	INIT	VOC	Acetone	67-64-1	3.01	1	EPA TAP SCRNLVL	12000	0	3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	Not present in field duplicate
C2	9	10	12/16/10	11.3	11.3	11.3	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-60	1330	11/14/13	REG	F	INIT	METALS	Copper	Cu	11.3	1	LANL Reg BG LVL	3	3.8	3	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C2	28	35	05/19/05	0.0989	0.0989	0.0989	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-1	1031.12	11/18/13	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.0989	1	LANL Reg BG LVL	0.05	2	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C2	9	11	05/20/11	0.0193	0.186	0.0317	6	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/15/13	FD	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.168	5.3	LANL Reg BG LVL	0.05	3.4	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C2	9	11	05/20/11	0.0193	0.186	0.0317	6	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/15/13	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.186	5.9	LANL Reg BG LVL	0.05	3.7	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C2	9	9	04/23/10	68.1	68.1	68.1	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-52 S2	1107	12/11/13	REG	F	INIT	METALS	Aluminum	Al	68.1	1	LANL Reg BG LVL	68	1	68	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	13	14	06/22/09	0.0939	0.0939	0.0939	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37 S2	1026	12/06/13	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.0939	1	LANL Reg BG LVL	0.05	1.9	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C2	13	14	06/22/09	184	184	184	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37 S2	1026	12/06/13	REG	F	INIT	METALS	Iron	Fe	184	1	LANL Reg BG LVL	21	8.8	30	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C2	14	21	02/06/09	0.531	1.39	0.61	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-38	821.2	12/02/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.39	2.3	LANL Reg BG LVL	0.89	1.6	0.017	mg/L	1		J	I10a	EPA:353.2	GELC	
C2	9	13	04/14/10	39.2	39.2	39.2	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-53 S2	959.7	12/12/13	REG	F	INIT	METALS	Iron	Fe	39.2	1	LANL Reg BG LVL	21	1.9	30	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	14	16	04/01/09	3.48	4.2	3.935	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-41 S2	965.3	12/10/13	REG	F	INIT	GENINORG	Magnesium	Mg	4.2	1.1	LANL Reg BG LVL	4.15	1	0.11	mg/L	1		J	I10a	SW-846:6010B	GELC	
C2	7	7	09/09/10	0.627	0.946	0.76	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-55 S1	860	12/02/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	0.946	1.2	LANL Reg BG LVL	0.89	1.1	0.017	mg/L	1		NQ	NQ	EPA:353.2	GELC	
C2	13	16	01/15/09	1.75	5.23	1.91	16	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-40 S2	849.27	12/03/13	REG	F	INIT	GENINORG	Chloride	Cl(-1)	5.23	2.7	LANL Reg BG LVL	3.57	1.5	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	IC anions increase but cations and alkalinity don't- likely chem analysis issue
C2	13	16	01/15/09	0.195	0.597	0.2445	16	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-40 S2	849.27	12/03/13	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.597	2.4	LANL Reg BG LVL	0.57	1	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	IC anions increase but cations and alkalinity don't- likely chem analysis issue
C2	13	16	01/15/09	1.95	10.5	2.33	16	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-40 S2	849.27	12/03/13	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	10.5	4.5	LANL Reg BG LVL	7.2	1.5	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	IC anions increase but cations and alkalinity don't- likely chem analysis issue
C2	28	34	03/01/04	15.6	110	62.8	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-32 S1	867.5	12/04/13	REG	F	INIT	METALS	Aluminum	Al	110	1.8	LANL Reg BG LVL	68	1.6	68	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	6	7	06/25/10	0.21	0.21	0.21	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-57 S2	971.5	12/05/13	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.21	1	LANL Reg BG LVL	0.05	4.2	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C5	14	16	03/11/09	2.41	5.29	3.74	12	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	11/18/13	REG	F	INIT	METALS	Antimony	Sb	3.71	1	LANL Reg BG LVL	1	3.7	1	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	17	19	03/11/09	0.869	7.67	1.56	19	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	11/18/13	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	1.35	0.9	LANL Reg BG LVL	0.33	4.1	0.33	mg/L	1		NQ	NQ	SW-846:9060	GELC	
C5	9	11	05/20/11	2.03	19.1	15.1	10	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/15/13	FD	F	INIT	METALS	Chromium	Cr	19.1	1.3	LANL Reg BG LVL	5.75	3.3	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	Highest result
C5	9	11	05/20/11	2.03	19.1	15.1	10	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/15/13	REG	F	INIT	METALS	Chromium	Cr	19.1	1.3	LANL Reg BG LVL	5.75	3.3	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	Highest result
C5	9	11	05/20/11	11.1	1100	33.7	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/15/13	FD	F	INIT	METALS	Manganese	Mn	11.1	0.3	LANL Reg BG LVL	2.94	3.8	2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	9	11	05/20/11	11.1	1100	33.7	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/15/13	REG	F	INIT	METALS	Manganese	Mn	11.1	0.3	LANL Reg BG LVL	2.94	3.8	2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	9	11	05/20/11	2.96	7.42	6.22	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/15/13	FD	F	INIT	GENINORG	Perchlorate	ClO4	7.42	1.2	LANL Reg BG LVL	0.46	16.1	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	Note maximum value, on 2/12 was 7.37 ug/L
C5	9	11	05/20/11	2.96	7.42	6.22	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/15/13	REG	F	INIT	GENINORG	Perchlorate	ClO4	7.31	1.2	LANL Reg BG LVL	0.46	15.9	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	9	11	05/20/11	1.46	27.4	9.26	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/15/13	FD	F	INIT	GENINORG	Potassium	K	9.26	1	LANL Reg BG LVL	2.63	3.5	0.05	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	9	11	05/20/11	1.46	27.4	9.26	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/15/13	REG	F	INIT	GENINORG	Potassium	K	9.35	1	LANL Reg BG LVL	2.63	3.6	0.05	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	9	11	05/20/11	0.77	10.1	1.08	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/15/13	FD	UF	INIT	GENINORG	Total Organic Carbon	TOC	0.847	0.8	LANL Reg BG LVL	0.33	2.6	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	9	11	05/20/11	0.77	10.1	1.08	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/15/13	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	0.798	0.7	LANL Reg BG LVL	0.33	2.4	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	9	11	05/20/11	0.0531	11.8	3.1	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/15/13	FD	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	2.97	1	LANL Reg BG LVL	0.16	18.6	0.085	mg/L	5		NQ	NQ	EPA:365.4	GELC	
C5	9	11	05/20/11	0.0531	11.8	3.1	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/15/13	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	2.92	0.9	LANL Reg BG LVL	0.16	18.3	0.085	mg/L	5		NQ	NQ	EPA:365.4	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	Analyte 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	Analyte Meth Code	Lab Code	Comment
C5	9	9	05/24/11	148	5590	731	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S2	1220.4	11/14/13	REG	F	INIT	METALS	Iron	Fe	863	1.2	LANL Reg BG LVL	21	41.1	30	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	9	9	05/24/11	22.2	908	127	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S2	1220.4	11/14/13	REG	F	INIT	METALS	Manganese	Mn	127	1	LANL Reg BG LVL	2.94	43.2	2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	9	9	05/24/11	1.51	24.4	12.5	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S2	1220.4	11/14/13	REG	F	INIT	GENINORG	Potassium	K	13.8	1.1	LANL Reg BG LVL	2.63	5.2	0.05	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	9	9	05/24/11	0.573	14.7	1.5	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S2	1220.4	11/14/13	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	1.49	1	LANL Reg BG LVL	0.33	4.5	0.33	mg/L	1		NQ	NQ	SW-846:9060	GELC	
C5	9	9	05/24/11	0.0389	19.7	7.09	6	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S2	1220.4	11/14/13	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	6.65	0.9	LANL Reg BG LVL	0.16	41.6	0.085	mg/L	5	J	I10a	EPA:365.4	GELC		
C5	16	21	03/06/10	49.8	103	79	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/12/13	REG	F	INIT	METALS	Chromium	Cr	83.9	1.1	LANL Reg BG LVL	5.75	14.6	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	16	19	03/06/10	1.51	8.66	3.59	19	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/12/13	REG	F	INIT	METALS	Nickel	Ni	8	2.2	LANL Reg BG LVL	3.09	2.6	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	16	19	03/06/10	0.44	2.46	1.16	17	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/12/13	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	1.65	1.4	LANL Reg BG LVL	0.33	5	0.33	mg/L	1		NQ	NQ	SW-846:9060	GELC	
C5	13	14	07/13/09	0.435	0.615	0.517	14	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-37 S1	929.3	12/05/13	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.448	0.9	LANL Int BG LVL	0.05	9	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	14	15	07/13/09	1.32	1.84	1.55	15	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-37 S1	929.3	12/05/13	REG	F	INIT	RAD	Uranium	U	1.48	1	LANL Int BG LVL	0.72	2.1	0.067	ug/L	1		J	I10a	SW-846:6020	GELC	
C5	14	21	02/06/09	4.9	69	10.065	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-38	821.2	12/02/13	FD	F	INIT	METALS	Zinc	Zn	8.82	0.9	LANL Reg BG LVL	3.89	2.3	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	14	21	02/06/09	4.9	69	10.065	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-38	821.2	12/02/13	REG	F	INIT	METALS	Zinc	Zn	9.13	0.9	LANL Reg BG LVL	3.89	2.3	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	9	10	08/31/10	65.5	115	73.1	10	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip S1	815.6	12/18/13	REG	F	INIT	METALS	Boron	B	66.9	0.9	LANL Int BG LVL	15.12	4.4	15	ug/L	1		J	I10a	SW-846:6010B	GELC	
C5	9	10	08/31/10	0.351	0.397	0.3665	10	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip S1	815.6	12/18/13	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.362	1	LANL Int BG LVL	0.05	7.2	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	27	37	06/23/06	81.1	35600	2970	37	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/16/13	REG	F	INIT	METALS	Aluminum	Al	5950	2	LANL Int BG LVL	1066	5.6	68	ug/L	1		J	I10a	SW-846:6010B	GELC	
C5	27	37	06/23/06	12.4	77.6	40.55	32	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/16/13	REG	F	INIT	METALS	Boron	B	33.2	0.8	LANL Int BG LVL	15.12	2.2	15	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	27	37	06/23/06	0.51	20	3.2	31	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/16/13	REG	F	INIT	METALS	Lead	Pb	4.37	1.4	LANL Int BG LVL	0.5	8.7	0.5	ug/L	1		J	I10a	SW-846:6020	GELC	
C5	27	37	06/23/06	3.1	681	20.7	37	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/16/13	REG	F	INIT	METALS	Manganese	Mn	19.5	0.9	LANL Int BG LVL	2	9.8	2	ug/L	1		J	I10a	SW-846:6010B	GELC	
C5	27	37	06/23/06	3.3	83.5	27.45	36	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	12/16/13	REG	F	INIT	METALS	Zinc	Zn	21.8	0.8	LANL Int BG LVL	2	10.9	3.3	ug/L	1		J	I10a	SW-846:6010B	GELC	
C5	10	11	01/28/09	60.2	132	115	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40 Si	649.67	12/11/13	REG	F	INIT	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	132	1.1	LANL Int BG LVL	52	2.5	0.725	mg/L	1		NQ	NQ	EPA:310.1	GELC	
C5	10	11	01/28/09	106	398	282	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40 Si	649.67	12/11/13	REG	F	INIT	METALS	Manganese	Mn	276	1	LANL Int BG LVL	2	138	2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	10	11	01/28/09	9.7	22	14.8	11	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40 Si	649.67	12/11/13	REG	F	INIT	METALS	Molybdenum	Mo	14.3	1	LANL Int BG LVL	2	7.2	0.165	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	24	29	01/28/02	44	17200	12300	29	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	CdV-R-37-2 S2	1188.7	12/18/13	REG	F	INIT	METALS	Iron	Fe	51.3	0	LANL Reg BG LVL	21	2.4	30	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	24	29	01/28/02	179	3720	2020	29	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	CdV-R-37-2 S2	1188.7	12/18/13	REG	F	INIT	METALS	Manganese	Mn	179	0.1	LANL Reg BG LVL	2.94	60.9	2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	22	30	08/29/07	25.2	62.3	32.55	30	Sandia Canyon	Regional	R-35b	825.4	11/13/13	REG	F	INIT	METALS	Zinc	Zn	33.6	1	LANL Reg BG LVL	3.89	8.6	3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	22	23	08/30/07	68	389	338	23	Sandia Canyon	Regional	R-35a	1013.1	11/13/13	REG	F	INIT	METALS	Barium	Ba	389	1.2	LANL Reg BG LVL	56.83	6.8	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	21	24	03/12/08	1.25	2.71	2.28	24	Sandia Canyon	Regional	R-36	766.9	11/13/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.55	1.1	LANL Reg BG LVL	0.89	2.9	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	20	23	03/12/08	0.845	1.74	1.62	23	Sandia Canyon	Regional	R-36	766.9	11/13/13	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.51	0.9	LANL Reg BG LVL	0.46	3.3	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	21	24	03/12/08	49.1	91.1	59.35	24	Sandia Canyon	Regional	R-36	766.9	11/13/13	REG	F	INIT	METALS	Zinc	Zn	55.4	0.9	LANL Reg BG LVL	3.89	14.2	3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	18	20	09/06/07	0.086	0.151	0.118	14	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i S1	400.3	12/03/13	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.111	0.9	LANL Int BG LVL	0.03	3.7	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	18	20	09/06/07	3.66	37.2	20.25	20	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i S1	400.3	12/03/13	REG	F	INIT	GENINORG	Chloride	Cl(-1)	37.2	1.8	LANL Int BG LVL	7.78	4.8	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	IC anions increase but cations and alkalinity don't- likely chem analysis issue
C5	17	18	09/06/07	0.11	0.333	0.249	17	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i S1	400.3	12/03/13	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.333	1.3	LANL Int BG LVL	0.05	6.7	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	22	24	10/03/06	0.146	0.263	0.2285	24	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i S2	470.2	12/03/13	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.254	1.1	LANL Int BG LVL	0.05	5.1	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	21	24	10/11/06	0.186	0.31	0.2575	24	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i S3	524	12/04/13	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.282	1.1	LANL Int BG LVL	0.05	5.6	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	21	21	03/11/04	11	28.5	18.5	21	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20 S1	904.6	12/17/13	REG	F	INIT	METALS	Manganese	Mn	23.3	1.3	LANL Reg BG LVL	2.94	7.9	2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	22	25	03/10/04	113	253	180	25	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20 S2	1147.1	12/06/13	REG	F	INIT	METALS	Barium	Ba	211	1.2	LANL Reg BG LVL	56.83	3.7	1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	22	25	03/10/04	38.5	382	69.3	25	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20 S2	1147.1	12/06/13	REG	F	INIT	METALS	Manganese	Mn	79	1.1	LANL Reg BG LVL	2.94	26.9	2	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	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	20	25	03/10/04	1.18	51.7	2.5	23	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20 S2	1147.1	12/06/13	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	3.06	1.2	LANL Reg BG LVL	0.33	9.3	0.33	mg/L	1		NQ	NQ	SW-846:9060	GELC	
C5	28	34	03/01/04	3.1	103	38.3	30	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-32 S1	867.5	12/04/13	REG	F	INIT	METALS	Zinc	Zn	32.2	0.8	LANL Reg BG LVL	3.89	8.3	3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	12	12	06/23/09	0.615	3.54	1.015	12	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-49 S1	845	12/09/13	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	0.693	0.7	LANL Reg BG LVL	0.33	2.1	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	6	7	07/01/10	8.81	78.6	19.1	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-57 S1	910	12/05/13	FD	F	INIT	METALS	Manganese	Mn	8.81	0.5	LANL Reg BG LVL	2.94	3	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	6	7	07/01/10	8.81	78.6	19.1	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-57 S1	910	12/05/13	REG	F	INIT	METALS	Manganese	Mn	9.75	0.5	LANL Reg BG LVL	2.94	3.3	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	

