

SUMMARY OF NEW LOS ALAMOS NATIONAL LABORATORY GROUNDWATER DATA LOADED IN DECEMBER 2011

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. This report contains results for chemical constituents that meet the seven screening criteria laid out in the Compliance Order on Consent (Consent Order), modified May 13, 2008. 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 12-11 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 are often similar to data gathered before June 14, 2007.

This table includes additional comments on the significance of the results for those that appear to be exceptional or are first-time occurrences of results based on considering monitoring data acquired before June 14, 2007 (using statistics described below).

The table contains supplemental information summarizing monitoring results obtained before June 14, 2007.

The table includes sampling date, the name of the well or spring, the location of the well or spring, the depth of the screened interval, the 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. The definitions for abbreviations in the table may be found at <http://www.lanl.gov/environment/all/racer.shtml>.

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). In the table, the EPA Regional Screening Levels for tap water are identified as being for cancer (10^{-5} excess) or noncancer risk values. The data were screened using 10 times the EPA's 10^{-6} excess cancer risk values, 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 and included below: they are labeled C1 through C6 and CA for cases where the concentration of a constituent in a well screen or spring has not previously exceeded either the New Mexico Water Quality Control Commission (NMWQCC) standard or the federal MCLs. Some data meet one or more than one 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 over a longer time frame than samples collected after June 14, 2007. 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 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

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

Start Date—sample date

Fld QC Type Code—identifies samples that are field duplicates (definitions for these and other abbreviations may be found at <http://www.lanl.gov/environment/all/racer.shtml>)

Fld Prep—identifies whether samples are filtered or unfiltered

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

Anyl Suite—gives 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—the analytical result in standard measurement units

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

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

Screen Level—the value of the LVL Type/Risk Code

Exceedance Ratio—the ratio of Std Result to LVL Type/Risk Code, divided by the basis for comparison in the criterion. For example, for a criterion (such as C3) that compares the value to 1/2 the standard, a value equal to a standard has an exceedance ratio of 2.

- C1, C2, and CA refer to a screening value so the exceedance ratio compares the result directly to the screening value.
- C3, C4, and C6 refer to 1/2 of a screening value so the exceedance ratio compares the result to 1/2 the screening value.
- C5 refers to 2 times a screening value so the exceedance ratio compares the result to 2 times the screening value.

Std Mdl—the method detection limit in standard measurement units

Std UOM—the standard units of measurement

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

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

Concat Flag Code—concatenated secondary validation qualifiers produced by an independent contractor who reviews data packages, verifying, for example, that holding times were met, that all documentation is present, and that analytical laboratory quality control measures were applied, documented, and kept within contract requirements

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

Anyl Meth Code—analytical method number

Lab Code—analytical laboratory name

Comment—a comment on the analytical result

Table 1: NMED 12-11 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port Depth	Start Date	Fid QC Type Code	Fid Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	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	17	29	12/03/07	0.49	0.49	0.49	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	10/27/11		UF	CS	VOA	Diethyl Ether	0.49	1.00	EPA TAP SCR N LVL N	7300	0.0	0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	7	7	10/07/03	1.75	1.75	1.75	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 8A	0	10/13/11		UF	CS	VOA	Butanone[2-]	1.75	1.00	EPA TAP SCR N LVL N	7100	0.0	1.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C2	5	5	09/09/10	2.76	7	3.42	3	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-55	860	10/28/11		F	CS	METALS	Chromium	7	2.05	LANL Reg BG LVL	5.75	1.2	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	above background, result estimated
C2	5	5	09/14/10	1260	1260	1260	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-55	994.4	10/31/11		F	CS	METALS	Aluminum	1260	1.00	LANL Reg BG LVL	68	18.5	68	ug/L	1				SW-846:6010B	GELC	all other F and UF results <200 ug/L
C2	8	10	03/08/10	1.38	10.3	1.53	10	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-51	914.96	10/21/11		F	CS	GENINORG	Potassium	10.3	6.73	LANL Reg BG LVL	2.63	3.9	0.05	mg/L	1				SW-846:6010B	GELC	sample with unusually high concentrations
C2	8	10	03/08/10	2.65	4.35	2.77	10	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-51	914.96	10/21/11		F	CS	GENINORG	Magnesium	4.35	1.57	LANL Reg BG LVL	4.15	1.1	0.11	mg/L	1				SW-846:6010B	GELC	sample with unusually high concentrations
C2	8	10	03/08/10	10.6	59.1	11.1	10	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-51	914.96	10/21/11		F	CS	GENINORG	Sodium	59.1	5.32	LANL Reg BG LVL	24.5	2.4	0.1	mg/L	1				SW-846:6010B	GELC	sample with unusually high concentrations
C2	8	10	03/08/10	14200	14200	14200	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-51	914.96	10/21/11		F	CS	METALS	Aluminum	14200	1.00	LANL Reg BG LVL	68	208.8	68	ug/L	1				SW-846:6010B	GELC	FD and all other F and UF results ND
C2	8	10	03/08/10	16.2	57.2	18.2	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-51	914.96	10/21/11		F	CS	METALS	Boron	57.2	3.14	LANL Reg BG LVL	38.77	1.5	15	ug/L	1				SW-846:6010B	GELC	sample with unusually high concentrations
C2	8	10	03/08/10	19.8	119	27	10	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-51	914.96	10/21/11		F	CS	METALS	Barium	119	4.41	LANL Reg BG LVL	56.83	2.1	1	ug/L	1				SW-846:6010B	GELC	sample with unusually high concentrations
C2	8	10	03/08/10	6.75	6.75	6.75	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-51	914.96	10/21/11		F	CS	METALS	Copper	6.75	1.00	LANL Reg BG LVL	3	2.3	3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	sample with unusually high concentrations
C2	8	10	03/08/10	8730	8730	8730	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-51	914.96	10/21/11		F	CS	METALS	Iron	8730	1.00	LANL Reg BG LVL	21	415.7	30	ug/L	1				SW-846:6010B	GELC	FD and all other F results ND, UF results all low or ND
C3	8	10	03/08/10	14200	14200	14200	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-51	914.96	10/21/11		F	CS	METALS	Aluminum	14200	1.00	NM GW STD	5000	5.7	68	ug/L	1				SW-846:6010B	GELC	FD and all other F and UF results ND
C3	8	10	03/08/10	8730	8730	8730	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-51	914.96	10/21/11		F	CS	METALS	Iron	8730	1.00	NM GW STD	1000	17.5	30	ug/L	1				SW-846:6010B	GELC	FD and all other F results ND, UF results all low or ND
C5	12	14	07/13/09	0.435	0.615	0.521	14	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-37	929.3	10/28/11		F	CS	GENINORG	Perchlorate	0.476	0.91	LANL Int BG LVL	0.05	4.8	0.05	ug/L	1				SW-846:6850	GELC	
C5	12	13	07/13/09	0.442	0.735	0.56	13	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-37	929.3	10/28/11		F	CS	GENINORG	Fluoride	0.577	1.03	LANL Int BG LVL	0.23	1.3	0.033	mg/L	1				EPA:300.0	GELC	
C5	4	5	03/23/11	0.231	0.266	0.244	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-55i	510	11/01/11		F	CS	GENINORG	Bromide	0.266	1.09	LANL Int BG LVL	0.03	4.4	0.066	mg/L	1				EPA:300.0	GELC	
C5	4	5	03/23/11	0.231	0.266	0.244	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-55i	510	11/01/11	FD	F	CS	GENINORG	Bromide	0.242	0.99	LANL Int BG LVL	0.03	4.0	0.066	mg/L	1				EPA:300.0	GELC	
C5	4	5	03/23/11	16.5	17.2	16.6	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-55i	510	11/01/11		F	CS	GENINORG	Chloride	16.6	1.00	LANL Int BG LVL	7.78	1.1	0.066	mg/L	1		J-	I6a	EPA:300.0	GELC	
C5	4	5	03/23/11	16.5	17.2	16.6	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-55i	510	11/01/11	FD	F	CS	GENINORG	Chloride	16.5	0.99	LANL Int BG LVL	7.78	1.1	0.066	mg/L	1		J-	I6a	EPA:300.0	GELC	
C5	4	5	03/23/11	0.88	1.21	0.99	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-55i	510	11/01/11	FD	F	CS	GENINORG	Perchlorate	1.08	1.09	LANL Int BG LVL	0.05	10.8	0.1	ug/L	2				SW-846:6850	GELC	4th sample event; previously about 0.9 ug/L
C5	4	5	03/23/11	0.88	1.21	0.99	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-55i	510	11/01/11		F	CS	GENINORG	Perchlorate	1.21	1.22	LANL Int BG LVL	0.05	12.1	0.1	ug/L	2				SW-846:6850	GELC	4th sample event; previously about 0.9 ug/L
C5	4	5	03/23/11	370	780	435	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-55i	510	11/01/11	FD	F	CS	METALS	Manganese	370	0.85	LANL Int BG LVL	2	92.5	2	ug/L	1				SW-846:6010B	GELC	Mn decreasing; turbidity now 1.2 NTU, was up to 1.8 NTU
C5	4	5	03/23/11	370	780	435	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-55i	510	11/01/11		F	CS	METALS	Manganese	374	0.86	LANL Int BG LVL	2	93.5	2	ug/L	1				SW-846:6010B	GELC	
C5	4	5	03/23/11	7.76	9.63	8.15	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-55i	510	11/01/11	FD	F	CS	METALS	Molybdenum	8.09	0.99	LANL Int BG LVL	2	2.0	0.17	ug/L	1		J	I4a	SW-846:6020	GELC	
C5	4	5	03/23/11	7.76	9.63	8.15	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-55i	510	11/01/11		F	CS	METALS	Molybdenum	8.15	1.00	LANL Int BG LVL	2	2.0	0.17	ug/L	1		J	I4a	SW-846:6020	GELC	
C5	4	5	03/23/11	3.4	3.9	3.7	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	R-55i	510	11/01/11		F	CS	METALS	Nickel	3.4	0.92	LANL Int BG LVL	1	1.7	0.5	ug/L	1		J	I4a	SW-846:6020	GELC	
C5	23	33	06/23/06	18.5	610	107	33	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	10/21/11		F	CS	GENINORG	Chloride	57.8	0.54	LANL Int BG LVL	7.78	3.7	0.66	mg/L	10				EPA:300.0	GELC	
C5	23	33	06/23/06	0.0518	0.554	0.1095	30	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	10/21/11		F	CS	GENINORG	Perchlorate	0.126	1.15	LANL Int BG LVL	0.05	1.3	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C5	23	33	06/23/06	24.1	347	84.9	33	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	10/21/11		F	CS	GENINORG	Sodium	59.7	0.70	LANL Int BG LVL	12.19	2.5	0.1	mg/L	1				SW-846:6010B	GELC	
C5	23	33	06/23/06	81.1	35600	2970	33	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	10/21/11		F	CS	METALS	Aluminum	11500	3.87	LANL Int BG LVL	1065.84	5.4	68	ug/L	1				SW-846:6010B	GELC	above standard but not highest at well
C5	23	33	06/23/06	12.4	77.6	40.6	28	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	10/21/11		F	CS	METALS	Boron	58.6	1.44	LANL Int BG LVL	15.12	1.9	15	ug/L	1				SW-846:6010B	GELC	
C5	23	33	06/23/06	94.7	21300	1970	32	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	10/21/11		F	CS	METALS	Iron	7170	3.64	LANL Int BG LVL	839.99	4.3	30	ug/L	1				SW-846:6010B	GELC	above standard but not highest at well
C5	23	33	06/23/06	3.1	681	27.4	33	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	10/21/11		F	CS	METALS	Manganese	42.8	1.56	LANL Int BG LVL	2	10.7	2	ug/L	1				SW-846:6010B	GELC	
C5	23	33	06/23/06	0.51	20	3.2	27	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	10/21/11		F	CS	METALS	Lead	3.72	1.16	LANL Int BG LVL	0.5	3.7	0.5	ug/L	1				SW-846:6020	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Port Depth	Start Date	Fid QC Type Code	Fid Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	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	23	33	06/23/06	3.3	83.5	30	32	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	10/21/11		F	CS	METALS	Zinc	26.8	0.89	LANL Int BG LVL	2	6.7	3.3	ug/L	1				SW-846:6010B	GELC	
C5	8	8	01/28/09	106	398	327	8	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	649.7	11/01/11		F	CS	METALS	Manganese	217	0.66	LANL Int BG LVL	2	54.3	2	ug/L	1				SW-846:6010B	GELC	
C5	8	8	01/28/09	9.7	22	17.6	8	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40	649.7	11/01/11		F	CS	METALS	Molybdenum	14.8	0.84	LANL Int BG LVL	2	3.7	0.17	ug/L	1				SW-846:6020	GELC	
C5	21	23	10/03/06	0.146	0.263	0.226	23	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	470.2	10/20/11		F	CS	GENINORG	Perchlorate	0.253	1.12	LANL Int BG LVL	0.05	2.5	0.05	ug/L	1				SW-846:6850	GELC	
C5	20	24	10/11/06	0.186	0.31	0.258	23	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	524	10/26/11		F	CS	GENINORG	Perchlorate	0.31	1.20	LANL Int BG LVL	0.05	3.1	0.05	ug/L	1				SW-846:6850	GELC	
C5	18	26	03/10/04	1.18	51.7	2.51	24	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	10/27/11		UF	CS	GENINORG	Total Organic Carbon	2.68	1.07	LANL Reg BG LVL	0.33	4.1	0.33	mg/L	1				SW-846:9060	GELC	
C5	20	26	03/10/04	113	253	180	26	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	10/27/11		F	CS	METALS	Barium	176	0.98	LANL Reg BG LVL	56.83	1.6	1	ug/L	1				SW-846:6010B	GELC	
C5	20	27	03/10/04	38.5	392	72.2	27	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20	1147.1	10/27/11		F	CS	METALS	Manganese	65.3	0.90	LANL Reg BG LVL	2.94	11.1	2	ug/L	1				SW-846:6010B	GELC	
C5	17	24	12/14/07	27.2	103	41.9	23	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-32	867.5	10/20/11		F	CS	METALS	Zinc	34.4	0.82	LANL Reg BG LVL	3.89	4.4	3.3	ug/L	1				SW-846:6010B	GELC	
C5	10	10	06/23/09	0.615	3.54	1.175	10	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-49	845	10/26/11		UF	CS	GENINORG	Total Organic Carbon	0.726	0.62	LANL Reg BG LVL	0.33	1.1	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	4	4	07/01/10	13.7	78.6	53.2	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-57	910	10/21/11		F	CS	METALS	Manganese	41.7	0.78	LANL Reg BG LVL	2.94	7.1	2	ug/L	1				SW-846:6010B	GELC	
C5	4	4	07/01/10	8.28	29.2	8.43	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-57	910	10/21/11		F	CS	METALS	Zinc	8.28	0.98	LANL Reg BG LVL	3.89	1.1	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	4	4	06/25/10	8.34	16.5	10.11	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-57	971.5	10/21/11		F	CS	METALS	Manganese	8.34	0.82	LANL Reg BG LVL	2.94	1.4	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	25	39	12/17/03	0.433	2.62	0.987	31	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-23	816	10/26/11		UF	CS	GENINORG	Total Organic Carbon	2.39	2.42	LANL Reg BG LVL	0.33	3.6	0.33	mg/L	1				SW-846:9060	GELC	
C6	23	33	06/23/06	81.1	35600	2970	33	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	10/21/11		F	CS	METALS	Aluminum	11500	3.87	NM GW STD	5000	4.6	68	ug/L	1				SW-846:6010B	GELC	above standard but not highest at well
C6	23	33	06/23/06	94.7	21300	1970	32	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	10/21/11		F	CS	METALS	Iron	7170	3.64	NM GW STD	1000	14.3	30	ug/L	1				SW-846:6010B	GELC	above standard but not highest at well
CA	8	10	03/08/10	14200	14200	14200	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-51	914.96	10/21/11		F	CS	METALS	Aluminum	14200	1.00	NM GW STD	5000	2.8	68	ug/L	1				SW-846:6010B	GELC	FD and all other F and UF results ND
CA	8	10	03/08/10	8730	8730	8730	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-51	914.96	10/21/11		F	CS	METALS	Iron	8730	1.00	NM GW STD	1000	8.7	30	ug/L	1				SW-846:6010B	GELC	FD and all other F results ND, UF results all low or ND