

SUMMARY OF NEW LOS ALAMOS NATIONAL LABORATORY GROUNDWATER DATA LOADED IN JANUARY 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 1-11 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. Over time, the data that exceed the reference data have decreased substantially.

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: these are labeled (in the first column) C1 through C6 for the numbered criteria 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 more than one criterion and appear in the table multiple times. 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 on 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 1-11 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	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	2	4	10/13/10	13.3	14	13.7	2	Pueblo Canyon (includes Acid Canyon)	Regional	R-3	974.5	12/07/10		UF	CS	SVOA	Benzoic Acid	65-85-0	13.3	0.97	EPA TAP SCRNLVL N	150000	0.0	6	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C1	2	4	10/13/10	13.3	14	13.7	2	Pueblo Canyon (includes Acid Canyon)	Regional	R-3	974.5	12/07/10	FD	UF	CS	SVOA	Benzoic Acid	65-85-0	14	1.02	EPA TAP SCRNLVL N	150000	0.0	6.4	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	
C1	17	29	06/15/05	24.5	24.5	24.5	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	UF	CS	SVOA	Diethylphthalate	84-66-2	24.5	1.00	EPA TAP SCRNLVL N	29000	0.0	2	ug/L	1				SW-846:8270C	GELC	
C1	8	11	10/09/08	40.3	40.3	40.3	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/10/10		UF	CS	SVOA	Diethylphthalate	84-66-2	40.3	1.00	EPA TAP SCRNLVL N	29000	0.0	2	ug/L	1				SW-846:8270C	GELC	
C1	4	4	03/06/10	0.057	0.057	0.057	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1077	11/16/10		UF	CS	PEST/PCB	Aroclor-1254	11097-69-1	0.057	1.00	EPA MCL	0.5	0.1	0.036	ug/L	1	J	J	J_LAB	SW-846:8082	GELC	reanalysis was nondetect
C1	7	9	03/19/04	2.1	2.1	2.1	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	11/17/10	FD	UF	CS	PEST/PCB	Aroclor-1254	11097-69-1	2.1	1.00	EPA MCL	0.5	4.2	0.037	ug/L	1				SW-846:8082	GELC	not found in primary sample or 6 prior sample events
C1	7	9	03/19/04	1.1	1.1	1.1	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	11/17/10	FD	UF	CS	PEST/PCB	Aroclor-1242	53469-21-9	1.1	1.00	EPA MCL	0.5	2.2	0.037	ug/L	1				SW-846:8082	GELC	not found in primary sample or 6 prior sample events
C1	10	11	09/24/01	0.45	0.45	0.45	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 2	0	09/27/10		UF	CS	VOA	Chloromethane	74-87-3	0.45	1.00	EPA TAP SCRNLVL N	190	0.0	0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C2	1	1	12/09/10	0.105	0.105	0.105	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	12/09/10		F	CS	GENINORG	Total Kjeldahl Nitrogen	TKN	0.105	1.00	LANL Int BG LVL	0.04	2.6	0.033	mg/L	1		J+	I6b	EPA:351.2	GELC	
C2	1	1	12/09/10	1.67	1.67	1.67	1	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	12/09/10		F	CS	GENINORG	Total Organic Carbon	TOC	1.67	1.00	LANL Int BG LVL	0.46	3.6	0.33	mg/L	1				SW-846:9060	GELC	
C2	3	3	04/29/10	1.84	2.35	1.94	3	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	12/09/10		F	CS	METALS	Molybdenum	Mo	2.35	1.21	LANL Int BG LVL	2	1.2	0.1	ug/L	1		J	I4a	SW-846:6020	GELC	
C2	7	7	02/20/09	4.23	4.23	4.23	1	Sandia Canyon	Alluvial	SCA-1-DP	2.16	11/11/10		F	CS	METALS	Copper	Cu	4.23	1.00	LANL Avi BG LVL	3	1.4	3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	16	18	09/19/00	0.58	1.1	0.76	9	Sandia Canyon	Intermediate	R-12	504.5	11/17/10		F	CS	METALS	Nickel	Ni	1.1	1.45	LANL Int BG LVL	1	1.1	0.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	8	8	11/05/08	0.068	0.068	0.068	1	Sandia Canyon	Regional	R-43	903.9	11/16/10		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.068	1.00	LANL Reg BG LVL	0.05	1.4	0.016	mg/L	1				EPA:350.1	GELC	
C2	17	21	01/19/06	3	11.5	4.1	17	Sandia Canyon	Water Supply	PM-3	956	09/14/10		F	CS	METALS	Chromium	Cr	6.9	1.68	LANL Reg BG LVL	5.75	1.2	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	note estimated; above background in this and other supply wells in past
C2	23	25	08/07/01	13.9	105	32.9	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/16/10		F	CS	GENINORG	Chloride	Cl(-1)	105	3.19	LANL Avi BG LVL	69.76	1.5	0.66	mg/L	10				EPA:300.0	GELC	twice values over past five years
C2	42	50	10/30/00	0.012	0.074	0.02	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/16/10		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.074	3.70	LANL Avi BG LVL	0.04	1.9	0.016	mg/L	1				EPA:350.1	GELC	
C2	10	11	10/09/08	39.3	39.3	39.3	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/10/10		F	CS	METALS	Iron	Fe	39.3	1.00	LANL Reg BG LVL	21	1.9	30	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	8	8	02/28/09	2380	2380	2380	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45	880	11/19/10		F	CS	METALS	Aluminum	Al	2380	1.00	LANL Reg BG LVL	68	35.0	68	ug/L	1				SW-846:6010B	GELC	both F and UF usually nondetect, other metals in line with earlier values
C2	8	8	02/28/09	26	63.1	30.4	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45	880	11/19/10		F	CS	METALS	Barium	Ba	63.1	2.08	LANL Reg BG LVL	56.83	1.1	1	ug/L	1				SW-846:6010B	GELC	
C2	4	5	03/11/10	0.023	0.061	0.042	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1185	11/16/10		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.061	1.45	LANL Reg BG LVL	0.05	1.2	0.016	mg/L	1				EPA:350.1	GELC	
C2	9	13	03/19/04	0.97	6.59	4.51	6	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	11/17/10		F	CS	METALS	Chromium	Cr	6.59	1.46	LANL Reg BG LVL	5.75	1.2	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	estimated value
C2	9	13	03/19/04	0.97	6.59	4.51	6	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	11/17/10	FD	F	CS	METALS	Chromium	Cr	5.96	1.32	LANL Reg BG LVL	5.75	1.0	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	estimated value
C2	8	10	06/23/08	4.54	4.54	4.54	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	3MAO-2	14.7	10/21/10		F	CS	METALS	Tin	Sn	4.54	1.00	LANL Avi BG LVL	3.26	1.4	2.5	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	7	7	06/25/08	5.07	5.07	5.07	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7b2	10	10/21/10		F	CS	METALS	Tin	Sn	5.07	1.00	LANL Avi BG LVL	3.26	1.6	2.5	ug/L	1	J	J	J_LAB	SW-846:6010B	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	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
C2	4	4	06/24/08	0.153	2.56	0.185	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	10/23/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.56	13.84	LANL Avl BG LVL	0.57	4.5	0.1	mg/L	10				EPA:353.2	GELC	high nitrate in Pajarito alluvial groundwater
C2	4	4	06/24/08	12.5	12.5	12.5	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	10/23/10		F	CS	METALS	Tin	Sn	12.5	1.00	LANL Avl BG LVL	3.26	3.8	2.5	ug/L	1				SW-846:6010B	GELC	
C2	12	13	09/06/07	2.6	4.03	3.32	2	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	400.3	10/21/10		F	CS	METALS	Tin	Sn	4.03	1.21	LANL Int BG LVL	3.26	1.2	2.5	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	4	4	02/21/10	0.067	0.067	0.067	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-54	915	10/13/10		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.067	1.00	LANL Reg BG LVL	0.05	1.3	0.016	mg/L	1				EPA:350.1	GELC	
C2	2	2	09/18/10	2.51	2.51	2.51	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-16-4ip	1110	11/02/10		F	CS	METALS	Chromium	Cr	2.51	1.00	LANL Int BG LVL	1	2.5	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	estimated value
C2	4	4	12/21/09	0.0721	0.0721	0.0721	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/02/10		F	CS	GENINORG	Bromide	Br(-1)	0.0721	1.00	LANL Int BG LVL	0.03	2.4	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	4	4	12/21/09	0.585	0.585	0.585	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/02/10		F	CS	METALS	Lead	Pb	0.585	1.00	LANL Int BG LVL	0.5	1.2	0.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	4	4	12/21/09	0.541	0.541	0.541	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/02/10		F	CS	METALS	Antimony	Sb	0.541	1.00	LANL Int BG LVL	0.5	1.1	0.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	4	4	12/21/09	0.506	0.774	0.618	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/02/10		F	CS	METALS	Uranium	U	0.774	1.25	LANL Int BG LVL	0.72	1.1	0.05	ug/L	1				SW-846:6020	GELC	
C2	5	8	11/23/09	78.1	78.1	78.1	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	12/02/10		F	CS	METALS	Aluminum	Al	78.1	1.00	LANL Reg BG LVL	68	1.2	68	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	3	5	05/19/10	0.024	0.101	0.031	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-30	1140	12/03/10	FD	F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.101	3.26	LANL Reg BG LVL	0.05	2.0	0.016	mg/L	1				EPA:350.1	GELC	
C2	8	9	09/26/05	0.018	0.058	0.041	3	White Rock Canyon and Rio Grande	Regional Spring	Spring 2	0	09/27/10		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.058	1.41	LANL Reg BG LVL	0.05	1.2	0.016	mg/L	1				EPA:350.1	GELC	
C2	10	11	09/24/01	23.2	70.4	46.8	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 2	0	09/27/10		F	CS	METALS	Aluminum	Al	70.4	1.50	LANL Reg BG LVL	68	1.0	68	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	2	09/17/10	2.59	2.59	2.59	1	Frijoles Canyon	Intermediate Spring	Barbara Spring	0	09/17/10		F	RE	METALS	Chromium	Cr	2.59	1.00	LANL Int BG LVL	1	2.6	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	estimated value
C3	7	9	03/19/04	2.1	2.1	2.1	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	11/17/10	FD	UF	CS	PEST/PCB	Aroclor-1254	11097-69-1	2.1	1.00	EPA MCL	0.5	8.4	0.037	ug/L	1				SW-846:8082	GELC	not found in primary sample or 6 prior sample events
C3	7	9	03/19/04	1.1	1.1	1.1	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	11/17/10	FD	UF	CS	PEST/PCB	Aroclor-1242	53469-21-9	1.1	1.00	EPA MCL	0.5	4.4	0.037	ug/L	1				SW-846:8082	GELC	not found in primary sample or 6 prior sample events
C5	3	3	04/29/10	0.102	0.148	0.11	3	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	12/09/10		F	CS	GENINORG	Bromide	Br(-1)	0.11	1.00	LANL Int BG LVL	0.03	1.8	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	3	3	04/29/10	36.9	38.3	37	3	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	12/09/10		F	CS	GENINORG	Calcium	Ca	38.3	1.04	LANL Int BG LVL	17.31	1.1	0.05	mg/L	1				SW-846:6010B	GELC	
C5	3	3	04/29/10	44.2	46.5	46	3	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	12/09/10		F	CS	GENINORG	Chloride	Cl(-1)	44.2	0.96	LANL Int BG LVL	7.78	2.8	0.66	mg/L	10				EPA:300.0	GELC	
C5	3	3	04/29/10	0.491	0.565	0.521	3	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	12/09/10		F	CS	GENINORG	Perchlorate	ClO4	0.491	0.94	LANL Int BG LVL	0.05	4.9	0.05	ug/L	1				SW-846:6850	GELC	
C5	3	3	04/29/10	285	292	288	3	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	12/09/10		F	CS	GENINORG	Total Dissolved Solids	TDS	288	1.00	LANL Int BG LVL	127	1.1	2.4	mg/L	1				EPA:160.1	GELC	
C5	3	3	04/29/10	177	182	179	3	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	12/09/10		F	CS	METALS	Boron	B	177	0.99	LANL Int BG LVL	15.12	5.9	15	ug/L	1				SW-846:6010B	GELC	
C5	3	3	04/29/10	2.78	3.38	2.83	3	Pueblo Canyon (includes Acid Canyon)	Intermediate	TW-2Ar	102	12/09/10		F	CS	METALS	Nickel	Ni	3.38	1.19	LANL Int BG LVL	1	1.7	0.5	ug/L	1				SW-846:6020	GELC	
C5	32	36	10/24/01	0.963	2.97	1.925	36	Pueblo Canyon (includes Acid Canyon)	Water Supply	O-1	1017	09/14/10		UF	CS	GENINORG	Perchlorate	ClO4	0.963	0.50	LANL Reg BG LVL	0.05	9.6	0.05	ug/L	1				SW-846:6850	GELC	decreasing since values of 2.9 in 2004
C5	30	33	10/24/01	0.354	0.55	0.381	32	Upper Los Alamos Canyon (includes DP Canyon)	Water Supply	O-4	1115	09/14/10		UF	CS	GENINORG	Perchlorate	ClO4	0.415	1.09	LANL Reg BG LVL	0.05	4.2	0.05	ug/L	1				SW-846:6850	GELC	
C5	7	7	02/20/09	0.229	0.611	0.404	7	Sandia Canyon	Alluvial	SCA-1-DP	2.16	11/11/10		F	CS	GENINORG	Bromide	Br(-1)	0.368	0.91	LANL Avl BG LVL	0.07	2.6	0.066	mg/L	1				EPA:300.0	GELC	
C5	7	7	02/20/09	12.1	30.1	15.8	7	Sandia Canyon	Alluvial	SCA-1-DP	2.16	11/11/10		F	CS	GENINORG	Potassium	K	16.4	1.04	LANL Avl BG LVL	5.21	1.6	0.05	mg/L	1				SW-846:6010B	GELC	
C5	7	7	02/20/09	75.9	197	98.1	7	Sandia Canyon	Alluvial	SCA-1-DP	2.16	11/11/10		F	CS	GENINORG	Sodium	Na	100	1.02	LANL Avl BG LVL	15.54	3.2	0.1	mg/L	1				SW-846:6010B	GELC	
C5	7	7	02/20/09	396	798	470	7	Sandia Canyon	Alluvial	SCA-1-DP	2.16	11/11/10		F	CS	GENINORG	Total Dissolved Solids	TDS	470	1.00	LANL Avl BG LVL	139	1.7	2.4	mg/L	1				EPA:160.1	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	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	7	9	02/20/09	2.69	18.5	7.64	8	Sandia Canyon	Alluvial	SCA-1-DP	2.16	11/11/10		F	CS	METALS	Chromium	Cr	13.7	1.79	LANL Avi BG LVL	1	6.9	13	ug/L	5	J	J	J_LAB	SW-846:6020	GELC	estimated value
C5	7	7	02/20/09	410	1010	717	7	Sandia Canyon	Alluvial	SCA-1-DP	2.16	11/11/10		F	CS	METALS	Manganese	Mn	1010	1.41	LANL Avi BG LVL	2	252.5	2	ug/L	1				SW-846:6010B	GELC	
C5	7	7	02/20/09	4.15	8.91	5.95	5	Sandia Canyon	Alluvial	SCA-1-DP	2.16	11/11/10		F	CS	METALS	Zinc	Zn	4.15	0.70	LANL Avi BG LVL	2	1.0	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	17	18	01/11/07	0.917	1.53	1.21	18	Sandia Canyon	Intermediate	SCI-1	358.4	11/16/10		F	CS	GENINORG	Bromide	Br(-1)	0.917	0.76	LANL Int BG LVL	0.03	15.3	0.066	mg/L	1				EPA:300.0	GELC	
C5	17	20	01/11/07	67.8	87.6	76.6	19	Sandia Canyon	Intermediate	SCI-1	358.4	11/16/10		F	CS	GENINORG	Calcium	Ca	68	0.89	LANL Int BG LVL	17.31	2.0	0.05	mg/L	1				SW-846:6010B	GELC	
C5	17	18	01/11/07	80.5	98.7	88	18	Sandia Canyon	Intermediate	SCI-1	358.4	11/16/10		F	CS	GENINORG	Chloride	Cl(-1)	88.5	1.01	LANL Int BG LVL	7.78	5.7	0.66	mg/L	10				EPA:300.0	GELC	
C5	17	18	01/11/07	0.868	1.58	1.17	18	Sandia Canyon	Intermediate	SCI-1	358.4	11/16/10		F	CS	GENINORG	Perchlorate	ClO4	0.981	0.84	LANL Int BG LVL	0.05	9.8	0.1	ug/L	2				SW-846:6850	GELC	
C5	17	20	01/11/07	50.7	65.1	54.2	19	Sandia Canyon	Intermediate	SCI-1	358.4	11/16/10		F	CS	GENINORG	Sodium	Na	55.8	1.03	LANL Int BG LVL	12.19	2.3	0.1	mg/L	1				SW-846:6010B	GELC	
C5	17	18	01/11/07	0.404	1.45	0.842	17	Sandia Canyon	Intermediate	SCI-1	358.4	11/16/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.722	0.86	LANL Int BG LVL	0.08	4.5	0.015	mg/L	1		J	I4a	EPA:365.4	GELC	
C5	17	18	01/11/07	85.5	112	103	18	Sandia Canyon	Intermediate	SCI-1	358.4	11/16/10		F	CS	GENINORG	Sulfate	SO4(-2)	85.5	0.83	LANL Int BG LVL	40.03	1.1	1	mg/L	10				EPA:300.0	GELC	
C5	17	18	01/11/07	455	536	489	18	Sandia Canyon	Intermediate	SCI-1	358.4	11/16/10		F	CS	GENINORG	Total Dissolved Solids	TDS	465	0.95	LANL Int BG LVL	127	1.8	2.4	mg/L	1				EPA:160.1	GELC	
C5	17	20	01/11/07	79.8	98	87.5	18	Sandia Canyon	Intermediate	SCI-1	358.4	11/16/10		F	CS	METALS	Boron	B	84.6	0.97	LANL Int BG LVL	15.12	2.8	15	ug/L	1				SW-846:6010B	GELC	
C5	17	21	01/11/07	11	22.1	13.9	21	Sandia Canyon	Intermediate	SCI-1	358.4	11/16/10		F	CS	METALS	Chromium	Cr	12.9	0.93	LANL Int BG LVL	1	6.5	2.5	ug/L	1				SW-846:6020	GELC	
C5	17	19	01/11/07	43.9	97	71.3	19	Sandia Canyon	Intermediate	SCI-1	358.4	11/16/10		F	CS	METALS	Molybdenum	Mo	94.5	1.33	LANL Int BG LVL	2	23.6	0.1	ug/L	1				SW-846:6020	GELC	
C5	17	18	01/11/07	4.3	8.1	5.8	18	Sandia Canyon	Intermediate	SCI-1	358.4	11/16/10		F	CS	METALS	Nickel	Ni	5.3	0.91	LANL Int BG LVL	1	2.7	0.5	ug/L	1				SW-846:6020	GELC	
C5	17	18	01/11/07	1.8	3.05	2.55	18	Sandia Canyon	Intermediate	SCI-1	358.4	11/16/10		F	CS	METALS	Uranium	U	1.82	0.71	LANL Int BG LVL	0.72	1.3	0.05	ug/L	1				SW-846:6020	GELC	
C5	10	12	10/21/08	0.194	0.498	0.447	12	Sandia Canyon	Intermediate	SCI-2	548	11/16/10		F	CS	GENINORG	Bromide	Br(-1)	0.47	1.05	LANL Int BG LVL	0.03	7.8	0.066	mg/L	1				EPA:300.0	GELC	
C5	10	14	10/21/08	59.5	67.5	63.2	14	Sandia Canyon	Intermediate	SCI-2	548	11/16/10		F	CS	GENINORG	Calcium	Ca	67.5	1.07	LANL Int BG LVL	17.31	2.0	0.05	mg/L	1				SW-846:6010B	GELC	
C5	10	12	10/21/08	53.4	62.1	56.2	12	Sandia Canyon	Intermediate	SCI-2	548	11/16/10		F	CS	GENINORG	Chloride	Cl(-1)	57	1.01	LANL Int BG LVL	7.78	3.7	0.66	mg/L	10				EPA:300.0	GELC	
C5	10	12	10/21/08	0.936	1.12	0.989	12	Sandia Canyon	Intermediate	SCI-2	548	11/16/10		F	CS	GENINORG	Perchlorate	ClO4	1.04	1.05	LANL Int BG LVL	0.05	10.4	0.1	ug/L	2				SW-846:6850	GELC	
C5	10	14	10/21/08	13.1	15.5	14.4	12	Sandia Canyon	Intermediate	SCI-2	548	11/16/10		F	CS	GENINORG	Magnesium	Mg	15.5	1.08	LANL Int BG LVL	6.12	1.3	0.085	mg/L	1				SW-846:6010B	GELC	
C5	10	12	10/21/08	83.3	101	86.8	12	Sandia Canyon	Intermediate	SCI-2	548	11/16/10		F	CS	GENINORG	Sulfate	SO4(-2)	85.7	0.99	LANL Int BG LVL	40.03	1.1	1	mg/L	10				EPA:300.0	GELC	
C5	10	12	10/21/08	354	451	413	12	Sandia Canyon	Intermediate	SCI-2	548	11/16/10		F	CS	GENINORG	Total Dissolved Solids	TDS	450	1.09	LANL Int BG LVL	127	1.8	2.4	mg/L	1				EPA:160.1	GELC	
C5	10	20	10/21/08	471	658	562	20	Sandia Canyon	Intermediate	SCI-2	548	11/16/10		F	CS	METALS	Chromium	Cr	512	0.91	LANL Int BG LVL	1	256.0	2.5	ug/L	1				SW-846:6020	GELC	
C5	10	14	10/21/08	14.5	19.3	16.6	14	Sandia Canyon	Intermediate	SCI-2	548	11/16/10		F	CS	METALS	Nickel	Ni	19	1.14	LANL Int BG LVL	1	9.5	0.5	ug/L	1				SW-846:6020	GELC	
C5	16	17	09/18/00	0.07	0.128	0.101	8	Sandia Canyon	Intermediate	R-12	459	11/17/10		F	CS	GENINORG	Bromide	Br(-1)	0.106	1.05	LANL Int BG LVL	0.03	1.8	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	12	14	06/16/05	0.193	0.417	0.263	12	Sandia Canyon	Intermediate	R-12	459	11/17/10		F	CS	GENINORG	Perchlorate	ClO4	0.417	1.59	LANL Int BG LVL	0.05	4.2	0.05	ug/L	1				SW-846:6850	GELC	
C5	17	18	09/18/00	33	122	48	16	Sandia Canyon	Intermediate	R-12	459	11/17/10		F	CS	METALS	Boron	B	54.2	1.13	LANL Int BG LVL	15.12	1.8	15	ug/L	1				SW-846:6010B	GELC	
C5	17	18	09/18/00	35.8	860	164	18	Sandia Canyon	Intermediate	R-12	459	11/17/10		F	CS	METALS	Manganese	Mn	167	1.02	LANL Int BG LVL	2	41.8	2	ug/L	1				SW-846:6010B	GELC	
C5	12	13	02/01/06	0.846	1.16	0.993	12	Sandia Canyon	Intermediate	R-12	504.5	11/17/10		F	CS	GENINORG	Perchlorate	ClO4	0.939	0.95	LANL Int BG LVL	0.05	9.4	0.05	ug/L	1				SW-846:6850	GELC	
C5	16	18	09/19/00	23.6	180	38	17	Sandia Canyon	Intermediate	R-12	504.5	11/17/10		F	CS	METALS	Manganese	Mn	38	1.00	LANL Int BG LVL	2	9.5	2	ug/L	1				SW-846:6010B	GELC	
C5	8	8	11/05/08	5.21	6.03	5.51	7	Sandia Canyon	Regional	R-43	903.9	11/16/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.5	1.00	LANL Reg BG LVL	0.89	3.1	0.25	mg/L	25				EPA:353.2	GELC	
C5	8	8	11/05/08	0.514	1.52	0.97	8	Sandia Canyon	Regional	R-43	903.9	11/16/10		UF	CS	GENINORG	Total Organic Carbon	TOC	1.15	1.19	LANL Reg BG LVL	0.33	1.7	0.33	mg/L	1				SW-846:9060	GELC	
C5	22	28	05/17/05	3.41	7.43	5	28	Sandia Canyon	Regional	R-11	855	11/11/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.89	0.98	LANL Reg BG LVL	0.89	2.8	0.1	mg/L	10				EPA:353.2	GELC	
C5	23	32	05/17/05	13.5	34.9	20.7	32	Sandia Canyon	Regional	R-11	855	11/11/10		F	CS	METALS	Chromium	Cr	16	0.77	LANL Reg BG LVL	5.75	1.4	2.5	ug/L	1				SW-846:6020	GELC	
C5	22	28	05/17/05	8.18	37	11.65	22	Sandia Canyon	Regional	R-11	855	11/11/10		F	CS	METALS	Zinc	Zn	9.64	0.83	LANL Reg BG LVL	3.89	1.2	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	14	22	08/29/07	26.2	62.3	34.5	22	Sandia Canyon	Regional	R-35b	825.4	11/11/10		F	CS	METALS	Zinc	Zn	29.7	0.86	LANL Reg BG LVL	3.89	3.8	3.3	ug/L	1				SW-846:6010B	GELC	
C5	14	15	08/30/07	68	345	324	15	Sandia Canyon	Regional	R-35a	1013.1	11/11/10		F	CS	METALS	Barium	Ba	345	1.06	LANL Reg BG LVL	56.83	3.0	1	ug/L	1				SW-846:6010B	GELC	
C5	14	15	08/30/07	1.2	22.2	8.8	14	Sandia Canyon	Regional	R-35a	1013.1	11/11/10		F	CS	METALS	Nickel	Ni	22.2	2.52	LANL Reg BG LVL	3.09	3.6	0.5	ug/L	1				SW-846:6020	GELC	
C5	11	13	05/12/08	1.43	1.74	1.62	13	Sandia Canyon	Regional	R-36	766.9	11/11/10		F	CS	GENINORG	Perchlorate	ClO4	1.7	1.05	LANL Reg BG LVL	0.46	1.9	0.2	ug/L	4				SW-846:6850	GELC	
C5	11	13	05/12/08	2.06	2.49	2.27	13	Sandia Canyon	Regional	R-36	766.9	11/11/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.26	1.00	LANL Reg BG LVL	0.89	1.3	0.05	mg/L	5				EPA:353.2	GELC	
C5	11	13	05/12/08	49.9	75.3	66.9	13	Sandia Canyon	Regional	R-36	766.9	11/11/10		F	CS	METALS	Zinc	Zn	59.8	0.89	LANL Reg BG LVL	3.89	7.7	3.3	ug/L	1				SW-846:6010B	GELC	
C5	21	26	06/14/05	0.421	4.15	2.25	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-3	2	11/17/10		F	CS	GENINORG	Perchlorate	ClO4	0.598	0.27	LANL Avi BG LVL	0.05	6.0	0.05	ug/L	1				SW-846:6850	GELC	
C5	27	32	04/27/05	4.61	31.7	21.35	32	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/16/10		F	CS	GENINORG	Perchlorate	ClO4	5.53	0.26	LANL Avi BG LVL	0.05	55.3	0.5	ug/L	10				SW-846:6850	GELC	
C5	48	56	02/24/00	0.742	1.51	1.08	56	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/16/10		F	CS	GENINORG	Fluoride	F(-1)	0.847	0.78	LANL Avi BG LVL	0.27	1.6	0.033	mg/L	1				EPA:300.0	GELC	
C5	26	31	04/28/05	7.26	47.5	26.2	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/16/10		F	CS	GENINORG	Perchlorate	ClO4	7.82	0.30	LANL Avi BG LVL	0.05	78.2	0.5	ug/L	10				SW-846:6850	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	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	49	58	02/24/00	0.894	2.13	1.33	57	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/16/10		F	CS	GENINORG	Fluoride	F(-1)	0.967	0.73	LANL Avl BG LVL	0.27	1.8	0.033	mg/L	1				EPA:300.0	GELC	
C5	23	25	08/07/01	0.04	0.416	0.287	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/16/10		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.231	0.80	LANL Avl BG LVL	0.05	2.3	0.015	mg/L	1		J	I4a	EPA:365.4	GELC	
C5	45	60	10/30/00	220	366	306	60	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/16/10		F	CS	GENINORG	Total Dissolved Solids	TDS	366	1.20	LANL Avl BG LVL	139	1.3	2.4	mg/L	1				EPA:160.1	GELC	
C5	21	23	06/09/05	0.083	0.157	0.125	17	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689	11/15/10		F	CS	GENINORG	Bromide	Br(-1)	0.108	0.86	LANL Int BG LVL	0.03	1.8	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	21	23	06/09/05	68.7	132	94.9	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689	11/15/10		F	CS	GENINORG	Perchlorate	ClO4	99.2	1.05	LANL Int BG LVL	0.05	992.0	10	ug/L	200				SW-846:6850	GELC	
C5	21	23	06/09/05	3.17	5.36	4.43	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689	11/15/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.2	1.17	LANL Int BG LVL	2.41	1.1	0.25	mg/L	25				EPA:353.2	GELC	
C5	21	29	06/09/05	1.1	6.65	3.3	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689	11/15/10		F	CS	METALS	Chromium	Cr	6.65	2.02	LANL Int BG LVL	1	3.3	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	estimated value
C5	21	33	06/15/05	0.212	0.673	0.409	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10		F	CS	GENINORG	Bromide	Br(-1)	0.65	1.59	LANL Int BG LVL	0.03	10.8	0.066	mg/L	1				EPA:300.0	GELC	
C5	21	33	06/15/05	0.212	0.673	0.409	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	F	CS	GENINORG	Bromide	Br(-1)	0.632	1.55	LANL Int BG LVL	0.03	10.5	0.066	mg/L	1				EPA:300.0	GELC	
C5	21	33	06/15/05	42.8	75.5	59.2	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	F	CS	GENINORG	Calcium	Ca	74.7	1.26	LANL Int BG LVL	17.31	2.2	0.05	mg/L	1				SW-846:6010B	GELC	
C5	21	33	06/15/05	42.8	75.5	59.2	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10		F	CS	GENINORG	Calcium	Ca	75.5	1.28	LANL Int BG LVL	17.31	2.2	0.05	mg/L	1				SW-846:6010B	GELC	
C5	21	33	06/15/05	21.2	57.7	32.6	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	F	CS	GENINORG	Chloride	Cl(-1)	57.7	1.77	LANL Int BG LVL	7.78	3.7	0.33	mg/L	5				EPA:300.0	GELC	
C5	21	33	06/15/05	21.2	57.7	32.6	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10		F	CS	GENINORG	Chloride	Cl(-1)	57.6	1.77	LANL Int BG LVL	7.78	3.7	0.33	mg/L	5				EPA:300.0	GELC	
C5	21	33	06/15/05	75.7	246	150	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	F	CS	GENINORG	Perchlorate	ClO4	75.8	0.51	LANL Int BG LVL	0.05	758.0	10	ug/L	200				SW-846:6850	GELC	
C5	21	33	06/15/05	75.7	246	150	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10		F	CS	GENINORG	Perchlorate	ClO4	75.7	0.50	LANL Int BG LVL	0.05	757.0	10	ug/L	200				SW-846:6850	GELC	
C5	21	33	06/15/05	8.49	15.7	12.1	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	F	CS	GENINORG	Magnesium	Mg	15.6	1.29	LANL Int BG LVL	6.12	1.3	0.085	mg/L	1				SW-846:6010B	GELC	
C5	21	33	06/15/05	8.49	15.7	12.1	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10		F	CS	GENINORG	Magnesium	Mg	15.7	1.30	LANL Int BG LVL	6.12	1.3	0.085	mg/L	1				SW-846:6010B	GELC	
C5	21	34	06/15/05	9.73	20.4	16.4	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	10	0.61	LANL Int BG LVL	2.41	2.1	0.5	mg/L	50				EPA:353.2	GELC	
C5	21	34	06/15/05	9.73	20.4	16.4	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	9.95	0.61	LANL Int BG LVL	2.41	2.1	0.5	mg/L	50				EPA:353.2	GELC	
C5	21	33	06/15/05	19.5	28.2	22.8	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	F	CS	GENINORG	Sodium	Na	26.8	1.18	LANL Int BG LVL	12.19	1.1	0.1	mg/L	1				SW-846:6010B	GELC	
C5	21	33	06/15/05	19.5	28.2	22.8	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10		F	CS	GENINORG	Sodium	Na	27.1	1.19	LANL Int BG LVL	12.19	1.1	0.1	mg/L	1				SW-846:6010B	GELC	
C5	21	41	06/15/05	298	497	370	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10		F	CS	GENINORG	Total Dissolved Solids	TDS	451	1.22	LANL Int BG LVL	127	1.8	2.4	mg/L	1				EPA:160.1	GELC	
C5	21	41	06/15/05	298	497	370	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	F	CS	GENINORG	Total Dissolved Solids	TDS	463	1.25	LANL Int BG LVL	127	1.8	2.4	mg/L	1				EPA:160.1	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	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	21	33	06/15/05	25.4	47.4	33.1	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	F	CS	METALS	Boron	B	46.6	1.41	LANL Int BG LVL	15.12	1.5	15	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	21	33	06/15/05	25.4	47.4	33.1	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	F	F	CS	METALS	Boron	B	47.4	1.43	LANL Int BG LVL	15.12	1.6	15	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	21	36	06/15/05	29.4	65.5	44.1	36	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	F	CS	METALS	Chromium	Cr	62.3	1.41	LANL Int BG LVL	1	31.2	2.5	ug/L	1				SW-846:6020	GELC	
C5	21	36	06/15/05	29.4	65.5	44.1	36	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	F	F	CS	METALS	Chromium	Cr	65.5	1.49	LANL Int BG LVL	1	32.8	2.5	ug/L	1				SW-846:6020	GELC	values have risen since 2007
C5	21	33	06/15/05	6.6	26.1	11.5	32	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	F	F	CS	METALS	Copper	Cu	13	1.13	LANL Int BG LVL	5.32	1.2	3	ug/L	1				SW-846:6010B	GELC	
C5	21	33	06/15/05	6.6	26.1	11.5	32	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	F	CS	METALS	Copper	Cu	12.8	1.11	LANL Int BG LVL	5.32	1.2	3	ug/L	1				SW-846:6010B	GELC	
C5	21	33	06/15/05	2.9	34.4	6	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	F	F	CS	METALS	Nickel	Ni	34.4	5.73	LANL Int BG LVL	1	17.2	0.5	ug/L	1				SW-846:6020	GELC	
C5	21	33	06/15/05	2.9	34.4	6	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	F	CS	METALS	Nickel	Ni	30.1	5.02	LANL Int BG LVL	1	15.1	0.5	ug/L	1				SW-846:6020	GELC	
C5	21	33	06/15/05	196	324	261	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	F	F	CS	METALS	Strontium	Sr	322	1.23	LANL Int BG LVL	154.76	1.0	1	ug/L	1				SW-846:6010B	GELC	
C5	21	33	06/15/05	196	324	261	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	F	CS	METALS	Strontium	Sr	319	1.22	LANL Int BG LVL	154.76	1.0	1	ug/L	1				SW-846:6010B	GELC	
C5	21	33	06/15/05	23.7	288	44.5	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	F	F	CS	METALS	Zinc	Zn	33.7	0.76	LANL Int BG LVL	2	8.4	3.3	ug/L	1				SW-846:6010B	GELC	
C5	21	33	06/15/05	23.7	288	44.5	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/10/10	FD	F	CS	METALS	Zinc	Zn	32.8	0.74	LANL Int BG LVL	2	8.2	3.3	ug/L	1				SW-846:6010B	GELC	
C5	9	10	03/11/09	1.09	7.67	2.62	10	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	11/12/10	UF	CS	GENINORG	Total Organic Carbon	TOC	2.23	0.85	LANL Reg BG LVL	0.33	3.4	0.33	mg/L	1				SW-846:9060	GELC		
C5	22	28	05/19/05	0.64	12.9	2.8	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-1	1031.1	11/12/10	F	F	CS	METALS	Nickel	Ni	12.9	4.61	LANL Reg BG LVL	3.09	2.1	0.5	ug/L	1				SW-846:6020	GELC	
C5	10	11	10/09/08	28.7	35.9	32.5	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/10/10	F	F	CS	GENINORG	Chloride	Cl(-1)	35.9	1.10	LANL Reg BG LVL	3.57	5.0	0.33	mg/L	5				EPA:300.0	GELC	
C5	10	11	10/09/08	1.18	1.46	1.31	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/10/10	F	F	CS	GENINORG	Perchlorate	ClO4	1.46	1.11	LANL Reg BG LVL	0.46	1.6	0.1	ug/L	2				SW-846:6850	GELC	
C5	10	11	10/09/08	11.1	14.6	12.8	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/10/10	F	F	CS	GENINORG	Magnesium	Mg	14.6	1.14	LANL Reg BG LVL	4.15	1.8	0.085	mg/L	1				SW-846:6010B	GELC	
C5	10	11	10/09/08	5.83	7.03	6.03	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/10/10	F	F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6	1.00	LANL Reg BG LVL	0.89	3.4	0.25	mg/L	25				EPA:353.2	GELC	
C5	10	11	10/09/08	60.6	80.6	62.1	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/10/10	F	F	CS	GENINORG	Sulfate	SO4(-2)	71.2	1.15	LANL Reg BG LVL	7.2	4.9	0.5	mg/L	5				EPA:300.0	GELC	
C5	10	11	10/09/08	1.06	2.84	1.5	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/10/10	UF	CS	GENINORG	Total Organic Carbon	TOC	1.12	0.75	LANL Reg BG LVL	0.33	1.7	0.33	mg/L	1				SW-846:9060	GELC		
C5	10	11	10/09/08	8.8	25.3	11.5	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/10/10	F	F	CS	METALS	Nickel	Ni	24.5	2.13	LANL Reg BG LVL	3.09	4.0	0.5	ug/L	1				SW-846:6020	GELC	
C5	10	11	10/09/08	7.7	28.1	21.4	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/10/10	F	F	CS	METALS	Zinc	Zn	12.7	0.59	LANL Reg BG LVL	3.89	1.6	3.3	ug/L	1				SW-846:6010B	GELC	
C5	24	27	05/20/05	0.113	0.265	0.194	24	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/10/10	F	F	CS	GENINORG	Bromide	Br(-1)	0.238	1.23	LANL Reg BG LVL	0.1	1.2	0.066	mg/L	1				EPA:300.0	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	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	24	27	05/20/05	21.1	32.5	28.7	27	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/10/10		F	CS	GENINORG	Chloride	Cl(-1)	32.5	1.13	LANL Reg BG LVL	3.57	4.6	0.33	mg/L	5			EPA:300.0	GELC		
C5	22	24	09/01/05	0.802	1.13	0.969	24	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/10/10		F	CS	GENINORG	Perchlorate	ClO4	1.12	1.16	LANL Reg BG LVL	0.46	1.2	0.1	ug/L	2			SW-846:6850	GELC		
C5	24	27	05/20/05	8.68	11.7	10.2	27	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/10/10		F	CS	GENINORG	Magnesium	Mg	11.7	1.15	LANL Reg BG LVL	4.15	1.4	0.085	mg/L	1			SW-846:6010B	GELC		
C5	22	24	05/20/05	3.1	5.39	4.26	24	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/10/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.93	0.92	LANL Reg BG LVL	0.89	2.2	0.25	mg/L	25			EPA:353.2	GELC		
C5	24	27	05/20/05	38.1	50.6	42.7	27	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/10/10		F	CS	GENINORG	Sulfate	SO4(-2)	47.6	1.11	LANL Reg BG LVL	7.2	3.3	0.5	mg/L	5			EPA:300.0	GELC		
C5	24	27	05/20/05	6.1	34	11.6	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/10/10		F	CS	METALS	Nickel	Ni	34	2.93	LANL Reg BG LVL	3.09	5.5	0.5	ug/L	1			SW-846:6020	GELC		
C5	8	12	02/28/09	8.4	21.4	14.5	12	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45	880	11/19/10		F	CS	METALS	Chromium	Cr	17.5	1.21	LANL Reg BG LVL	5.75	1.5	2.5	ug/L	1	J	I4a	SW-846:6020	GELC	estimated value	
C5	4	6	03/06/10	49.8	69.7	54.5	6	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1077	11/16/10		F	CS	METALS	Chromium	Cr	67	1.23	LANL Reg BG LVL	5.75	5.8	2.5	ug/L	1			SW-846:6020	GELC		
C5	4	4	03/06/10	7.02	90.6	43.4	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1077	11/16/10		F	CS	METALS	Manganese	Mn	7.02	0.16	LANL Reg BG LVL	2.94	1.2	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	4	4	03/06/10	4.86	6.39	5.37	3	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1077	11/16/10		F	CS	METALS	Molybdenum	Mo	5.37	1.00	LANL Reg BG LVL	2	1.3	0.1	ug/L	1			SW-846:6020	GELC		
C5	4	4	03/06/10	7.96	200	157.5	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50	1077	11/16/10		F	CS	METALS	Zinc	Zn	118	0.75	LANL Reg BG LVL	3.89	15.2	3.3	ug/L	1			SW-846:6010B	GELC		
C5	8	12	02/17/09	7.34	14.1	11.4	12	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-44	895	11/18/10		F	CS	METALS	Chromium	Cr	13.7	1.20	LANL Reg BG LVL	5.75	1.2	2.5	ug/L	1			SW-846:6020	GELC		
C5	9	12	05/12/04	2.14	154	22.25	12	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	863.4	11/17/10		F	CS	METALS	Manganese	Mn	18.1	0.81	LANL Reg BG LVL	2.94	3.1	2	ug/L	1			SW-846:6010B	GELC		
C5	7	7	06/25/08	61.6	994	179	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7b2	10	10/21/10		F	CS	GENINORG	Chloride	Cl(-1)	179	1.00	LANL Avi BG LVL	69.76	1.3	6.6	mg/L	100			EPA:300.0	GELC		
C5	7	7	06/25/08	0.204	0.333	0.244	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7b2	10	10/21/10		F	CS	GENINORG	Perchlorate	ClO4	0.333	1.36	LANL Avi BG LVL	0.05	3.3	0.05	ug/L	1			SW-846:6850	GELC		
C5	7	7	06/25/08	0.96	4.69	1.94	6	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7b2	10	10/21/10		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.7	0.88	LANL Avi BG LVL	0.57	1.5	0.1	mg/L	10	J	I4a	EPA:353.2	GELC	high nitrate in Pajarito alluvial groundwater	
C5	7	7	06/25/08	39.5	298	75	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7b2	10	10/21/10		F	CS	GENINORG	Sodium	Na	75	1.00	LANL Avi BG LVL	15.54	2.4	0.1	mg/L	1			SW-846:6010B	GELC		
C5	7	7	06/25/08	235	2140	464	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7b2	10	10/21/10		F	CS	GENINORG	Total Dissolved Solids	TDS	464	1.00	LANL Avi BG LVL	139	1.7	2.4	mg/L	1			EPA:160.1	GELC		
C5	7	7	06/25/08	140	2580	322	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7b2	10	10/21/10		F	CS	METALS	Barium	Ba	322	1.00	LANL Avi BG LVL	68.57	2.4	1	ug/L	1			SW-846:6010B	GELC		
C5	7	7	06/25/08	145	2240	323	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7b2	10	10/21/10		F	CS	METALS	Strontium	Sr	323	1.00	LANL Avi BG LVL	120	1.4	1	ug/L	1			SW-846:6010B	GELC		
C5	7	7	06/25/08	6.84	872	137	7	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-7b2	10	10/21/10		F	CS	METALS	Zinc	Zn	6.84	0.05	LANL Avi BG LVL	2	1.7	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	4	4	06/24/08	0.113	0.461	0.21	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	10/23/10		F	CS	GENINORG	Perchlorate	ClO4	0.461	2.20	LANL Avi BG LVL	0.05	4.6	0.05	ug/L	1			SW-846:6850	GELC		
C5	4	4	06/24/08	37	69.9	55.5	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	10/23/10		F	CS	GENINORG	Sodium	Na	54.6	0.98	LANL Avi BG LVL	15.54	1.8	0.1	mg/L	1			SW-846:6010B	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	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	4	4	06/24/08	334	604	494	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	10/23/10		F	CS	GENINORG	Total Dissolved Solids	TDS	592	1.20	LANL Avl BG LVL	139	2.1	2.4	mg/L	1			EPA:160.1	GELC		
C5	4	4	06/24/08	219	431	291	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	10/23/10		F	CS	METALS	Barium	Ba	431	1.48	LANL Avl BG LVL	68.57	3.1	1	ug/L	1			SW-846:6010B	GELC		
C5	4	4	06/24/08	281	501	397	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Alluvial	PCAO-8	9.7	10/23/10		F	CS	METALS	Strontium	Sr	501	1.26	LANL Avl BG LVL	120	2.1	1	ug/L	1			SW-846:6010B	GELC		
C5	12	13	09/06/07	6.93	36.7	26.3	13	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	400.3	10/21/10		F	CS	GENINORG	Chloride	Cl(-1)	19.4	0.74	LANL Int BG LVL	7.78	1.3	0.066	mg/L	1			EPA:300.0	GELC		
C5	12	13	09/06/07	0.11	0.291	0.202	12	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	400.3	10/21/10		F	CS	GENINORG	Perchlorate	ClO4	0.275	1.36	LANL Int BG LVL	0.05	2.8	0.05	ug/L	1			SW-846:6850	GELC		
C5	4	4	02/15/10	1.46	3.08	2.16	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-54	830	10/13/10		F	CS	METALS	Cobalt	Co	3.08	1.43	LANL Reg BG LVL	0.5	3.1	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	4	4	02/15/10	101	3850	1037	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-54	830	10/13/10		F	CS	METALS	Iron	Fe	3850	3.71	LANL Reg BG LVL	21	91.7	30	ug/L	1			SW-846:6010B	GELC		
C5	4	4	02/15/10	42.1	280	148.1	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-54	830	10/13/10		F	CS	METALS	Manganese	Mn	280	1.89	LANL Reg BG LVL	2.94	47.6	2	ug/L	1			SW-846:6010B	GELC		
C5	4	4	02/15/10	10	60.5	23.9	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-54	830	10/13/10		F	CS	METALS	Zinc	Zn	23.3	0.97	LANL Reg BG LVL	3.89	3.0	3.3	ug/L	1			SW-846:6010B	GELC		
C5	4	4	12/21/09	0.222	0.272	0.228	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/02/10		F	CS	GENINORG	Perchlorate	ClO4	0.225	0.99	LANL Int BG LVL	0.05	2.3	0.05	ug/L	1			SW-846:6850	GELC		
C5	4	4	12/21/09	13.3	95.2	48.1	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/02/10		F	CS	METALS	Manganese	Mn	13.3	0.28	LANL Int BG LVL	2	3.3	2	ug/L	1			SW-846:6010B	GELC		
C5	4	4	12/21/09	1.52	4.44	2.68	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/02/10		F	CS	METALS	Nickel	Ni	2.78	1.04	LANL Int BG LVL	1	1.4	0.5	ug/L	1			SW-846:6020	GELC		
C5	4	4	02/08/10	0.112	0.127	0.124	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-37-1(i)	632	12/01/10		F	CS	GENINORG	Perchlorate	ClO4	0.124	1.00	LANL Int BG LVL	0.05	1.2	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C5	4	4	02/08/10	15.1	22.8	21.5	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-37-1(i)	632	12/01/10		F	CS	METALS	Manganese	Mn	15.1	0.70	LANL Int BG LVL	2	3.8	2	ug/L	1			SW-846:6010B	GELC		
C5	4	4	02/08/10	2.33	2.7	2.51	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-37-1(i)	632	12/01/10		F	CS	METALS	Nickel	Ni	2.34	0.93	LANL Int BG LVL	1	1.2	0.5	ug/L	1			SW-846:6020	GELC		
C5	4	4	02/08/10	9.77	30.7	15.75	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CDV-37-1(i)	632	12/01/10		F	CS	METALS	Zinc	Zn	12.8	0.81	LANL Int BG LVL	2	3.2	3.3	ug/L	1			SW-846:6010B	GELC		
C5	4	4	12/11/09	0.117	0.134	0.121	4	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-27i	619	12/01/10		F	CS	GENINORG	Perchlorate	ClO4	0.117	0.97	LANL Int BG LVL	0.05	1.2	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C5	5	8	11/23/09	6.6	50.1	29.7	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	12/02/10	FD	F	CS	METALS	Manganese	Mn	13.7	0.46	LANL Reg BG LVL	2.94	2.3	2	ug/L	1			SW-846:6010B	GELC		
C5	5	8	11/23/09	6.6	50.1	29.7	8	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	12/02/10		F	CS	METALS	Manganese	Mn	13.6	0.46	LANL Reg BG LVL	2.94	2.3	2	ug/L	1			SW-846:6010B	GELC		
C5	3	3	05/10/10	50.9	152	70.7	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	12/03/10		F	CS	METALS	Iron	Fe	70.7	1.00	LANL Reg BG LVL	21	1.7	30	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	3	3	05/10/10	71.2	214	121	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	12/03/10		F	CS	METALS	Manganese	Mn	71.2	0.59	LANL Reg BG LVL	2.94	12.1	2	ug/L	1			SW-846:6010B	GELC		
C5	3	3	05/10/10	4.89	11.5	7.04	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-29	1170	12/03/10		F	CS	METALS	Molybdenum	Mo	4.89	0.69	LANL Reg BG LVL	2	1.2	0.1	ug/L	1			SW-846:6020	GELC		
C5	8	13	10/23/01	36.3	221	102.5	10	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/06/10		F	CS	METALS	Iron	Fe	118	1.15	LANL Reg BG LVL	21	2.8	30	ug/L	1			SW-846:6010B	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	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	8	13	10/23/01	36.3	221	102.5	10	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/06/10	FD	F	CS	METALS	Iron	Fe	126	1.23	LANL Reg BG LVL	21	3.0	30	ug/L	1				SW-846:6010B	GELC	
C5	8	13	10/23/01	32.8	424	194.5	10	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/06/10	FD	F	CS	METALS	Manganese	Mn	402	2.07	LANL Reg BG LVL	2.94	68.4	2	ug/L	1				SW-846:6010B	GELC	values increase steadily since 2005, turbidity of 6.7 NTU, has been 25 to 50
C5	8	13	10/23/01	32.8	424	194.5	10	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/06/10		F	CS	METALS	Manganese	Mn	424	2.18	LANL Reg BG LVL	2.94	72.1	2	ug/L	1				SW-846:6010B	GELC	values increase steadily since 2005, turbidity of 6.7 NTU, has been 25 to 50
C5	7	8	08/24/04	9.8	12.7	11.9	8	White Rock Canyon and Rio Grande	Regional Spring	La Mesita Spring	0	10/07/10		F	CS	METALS	Uranium	U	12.7	1.07	LANL Reg BG LVL	1.9	3.3	0.05	ug/L	1	E			SW-846:6020	GELC	
C5	7	8	09/18/06	1.41	3	2.25	8	White Rock Canyon and Rio Grande	Regional Spring	Spring 2	0	09/27/10		UF	CS	GENINORG	Total Organic Carbon	TOC	3	1.33	LANL Reg BG LVL	0.33	4.6	0.66	mg/L	2				SW-846:9060	GELC	
C6	21	23	06/09/05	68.7	132	94.9	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689	11/15/10		F	CS	GENINORG	Perchlorate	ClO4	99.2	1.05	NM GW CONS	4	49.6	10	ug/L	200				SW-846:6850	GELC	
C6	4	4	02/15/10	42.1	280	148.1	4	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-54	830	10/13/10		F	CS	METALS	Manganese	Mn	280	1.89	NM GW STD	200	2.8	2	ug/L	1				SW-846:6010B	GELC	
CA	7	7	02/20/09	406	2150	606	6	Sandia Canyon	Alluvial	SCA-1-DP	2.16	11/11/10		F	CS	METALS	Iron	Fe	2150	3.55	NM GW STD	1000	2.2	30	ug/L	1				SW-846:6010B	GELC	highest at this well, similar to nearby SCA-1 results, turbidity of 451 NTU
CA	7	9	03/19/04	2.1	2.1	2.1	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	11/17/10	FD	UF	CS	PEST/PCB	Aroclor-1254	11097-69-1	2.1	1.00	EPA MCL	0.5	4.2	0.037	ug/L	1				SW-846:8082	GELC	not found in primary sample or 6 prior sample events
CA	7	9	03/19/04	1.1	1.1	1.1	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16	1237	11/17/10	FD	UF	CS	PEST/PCB	Aroclor-1242	53469-21-9	1.1	1.00	EPA MCL	0.5	2.2	0.037	ug/L	1				SW-846:8082	GELC	not found in primary sample or 6 prior sample events
CA	8	13	10/23/01	32.8	424	194.5	10	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/06/10		F	CS	METALS	Manganese	Mn	424	2.18	NM GW STD	200	2.1	2	ug/L	1				SW-846:6010B	GELC	values increase steadily since 2005, turbidity of 6.7 NTU, has been 25 to 50
CA	8	13	10/23/01	32.8	424	194.5	10	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/06/10	FD	F	CS	METALS	Manganese	Mn	402	2.07	NM GW STD	200	2.0	2	ug/L	1				SW-846:6010B	GELC	values increase steadily since 2005, turbidity of 6.7 NTU, has been 25 to 50