

SUMMARY OF NEW LOS ALAMOS NATIONAL LABORATORY GROUNDWATER DATA LOADED IN JULY 2009

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 7-09 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 7-09 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	Symbol	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	4	7	10/21/08	0.589	0.589	0.589	1	Sandia Canyon	Intermediate	SCI-2	548	05/06/09		UF	CS	VOA	Chloromethane	74-87-3		0.589	1.00	EPA TAP SCRN LVL N	190	0.0	0.3	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC		
C1	2	3	03/11/09	0.00668	0.00668	0.00668	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		UF	CS	PEST/PCB	Heptachlor Epoxide	1024-57-3		0.00668	1.00	EPA MCL	0.2	0.0	0.0053	ug/L	1	J	J	J_LAB	SW-846:8081A	GELC		
C1	2	3	03/11/09	77.4	96.4	86.9	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		UF	CS	SVOA	Bis(2-ethylhexyl)phthalate	117-81-7		96.4	1.11	EPA MCL	6	16.1	2.3	ug/L	1				SW-846:8270C	GELC	Common in new wells	
C1	2	3	03/11/09	77.4	96.4	86.9	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		UF	CS	SVOA	Bis(2-ethylhexyl)phthalate	117-81-7		77.4	0.89	EPA MCL	6	12.9	2.1	ug/L	1				SW-846:8270C	GELC	Common in new wells	
C1	2	3	03/11/09	10.6	10.9	10.8	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		UF	CS	VOA	Toluene	108-88-3		10.9	1.01	NM GW STD	750	0.0	0.25	ug/L	1				SW-846:8260B	GELC	Common in new wells	
C1	2	3	03/11/09	10.6	10.9	10.8	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		UF	CS	VOA	Toluene	108-88-3		10.6	0.98	NM GW STD	750	0.0	0.25	ug/L	1				SW-846:8260B	GELC	Common in new wells	
C1	2	3	03/11/09	60.3	64.1	62.2	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		UF	CS	VOA	Acetone	67-64-1		60.3	0.97	EPA TAP SCRN LVL N	22000	0.0	3.5	ug/L	1				SW-846:8260B	GELC	Common in new wells	
C1	2	3	03/11/09	60.3	64.1	62.2	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		UF	CS	VOA	Acetone	67-64-1		64.1	1.03	EPA TAP SCRN LVL N	22000	0.0	3.5	ug/L	1				SW-846:8260B	GELC	Common in new wells	
C1	1	1	06/22/09	0.00000128	0.00000128	0.00000128	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	1025.96	06/22/09		UF	CS	DIOX/FUR	Heptachlorodibenzodioxins (Total)	37871-00-4		0.00000128	1.00					0.00000128	ug/L	1				SW-846:8290	ALTC	
C2	1	1	05/21/09	87.2	87.2	87.2	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	GENINORG	Alkalinity-CO3+HCO3	ALK- CO3+HCO3		87.2	1.00	LANL Int BG LVL	52	1.7	0.73	mg/L	1				EPA:310.1	GELC		
C2	1	1	05/21/09	0.894	0.894	0.894	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	GENINORG	Bromide	Br(-1)		0.894	1.00	LANL Int BG LVL	0.03	29.8	0.066	mg/L	1		J+	l6b	EPA:300.0	GELC		
C2	1	1	05/21/09	32.7	32.7	32.7	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	GENINORG	Calcium	Ca		32.7	1.00	LANL Int BG LVL	17.31	1.9	0.03	mg/L	1				SW-846:6010B	GELC		
C2	1	1	05/21/09	26.5	26.5	26.5	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	GENINORG	Chloride	Cl(-1)		26.5	1.00	LANL Int BG LVL	7.78	3.4	0.13	mg/L	2				EPA:300.0	GELC		
C2	1	1	05/21/09	0.645	0.645	0.645	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	GENINORG	Perchlorate	ClO4		0.645	1.00	LANL Int BG LVL	0.05	12.9	0.05	ug/L	1				SW-846:6850	GELC		
C2	1	1	05/21/09	6.77	6.77	6.77	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	GENINORG	Magnesium	Mg		6.77	1.00	LANL Int BG LVL	6.12	1.1	0.085	mg/L	1				SW-846:6010B	GELC		
C2	1	1	05/21/09	14.6	14.6	14.6	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	GENINORG	Sodium	Na		14.6	1.00	LANL Int BG LVL	12.19	1.2	0.045	mg/L	1				SW-846:6010B	GELC		
C2	1	1	05/21/09	0.088	0.088	0.088	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P		0.088	1.00	LANL Int BG LVL	0.08	1.1	0.015	mg/L	1				EPA:365.4	GELC		
C2	1	1	05/21/09	233	233	233	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	GENINORG	Total Dissolved Solids	TDS		233	1.00	LANL Int BG LVL	127	1.8	2.4	mg/L	1				EPA:160.1	GELC		
C2	1	1	05/21/09	27.1	27.1	27.1	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	METALS	Boron	B		27.1	1.00	LANL Int BG LVL	15.12	1.8	10	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC		
C2	1	1	05/21/09	6.77	6.77	6.77	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	METALS	Chromium	Cr		6.77	1.00	LANL Int BG LVL	1	6.8	1.5	ug/L	1				SW-846:6020	GELC		
C2	1	1	05/21/09	6.09	6.09	6.09	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	METALS	Manganese	Mn		6.09	1.00	LANL Int BG LVL	2	3.1	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC		
C2	1	1	05/21/09	76.9	76.9	76.9	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	METALS	Molybdenum	Mo		76.9	1.00	LANL Int BG LVL	2	38.5	0.1	ug/L	1				SW-846:6020	GELC		
C2	1	1	05/21/09	11	11	11	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	METALS	Nickel	Ni		11	1.00	LANL Int BG LVL	1	11.0	0.5	ug/L	1				SW-846:6020	GELC		
C2	1	1	05/21/09	63.5	63.5	63.5	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	METALS	Silicon Dioxide	SiO2		63.5	1.00	LANL Int BG LVL	50.72	1.3	0.032	mg/L	1				SW-846:6010B	GELC		
C2	1	1	05/21/09	168	168	168	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	METALS	Strontium	Sr		168	1.00	LANL Int BG LVL	154.76	1.1	1	ug/L	1				SW-846:6010B	GELC		
C2	1	1	05/21/09	0.904	0.904	0.904	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	METALS	Uranium	U		0.904	1.00	LANL Int BG LVL	0.72	1.3	0.05	ug/L	1				SW-846:6020	GELC		
C2	1	1	05/21/09	14.8	14.8	14.8	1	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	05/21/09		F	CS	METALS	Zinc	Zn		14.8	1.00	LANL Int BG LVL	2	7.4	2	ug/L	1		J	l4a	SW-846:6010B	GELC		
C2	6	8	02/20/08	4.82	4.82	4.82	1	Sandia Canyon	Intermediate	R-12	459	05/07/09		F	CS	METALS	Chromium	Cr		4.82	1.00	LANL Int BG LVL	1	4.8	1.5	ug/L	1				SW-846:6020	GELC		
C2	8	14	08/30/07	2.3	10.6	3.6	9	Sandia Canyon	Regional	R-35a	1013.1	04/28/09		F	CS	METALS	Chromium	Cr		10.6	2.94	LANL Reg BG LVL	5.75	1.8	1.5	ug/L	1				SW-846:6020	GELC	most filtered results < 4.7 ug/L	
C2	11	11	06/29/06	6.24	6.24	6.24	1	Sandia Canyon	Regional	R-10	1042	05/12/09		F	CS	METALS	Copper	Cu		6.24	1.00	LANL Reg BG LVL	3	2.1	3	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	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	AnyI Suite Code	Analyte Desc	Analyte	Symbol	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	AnyI Meth Code	Lab Code	Comment
C2	2	3	03/11/09	11.7	14	12.9	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		F	CS	METALS	Zinc	Zn		11.7	0.91	LANL Reg BG LVL	3.89	3.0	2	ug/L	1				SW-846:6010B	GELC	Common in new wells
C2	2	3	03/11/09	11.7	14	12.9	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		F	CS	METALS	Zinc	Zn		14	1.09	LANL Reg BG LVL	3.89	3.6	2	ug/L	1				SW-846:6010B	GELC	Common in new wells
C2	3	3	05/09/07	0.08	0.089	0.085	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02655	2.3	04/01/09		F	CS	GENINORG	Bromide	Br(-1)		0.08	0.94	LANL Avi BG LVL	0.07	1.1	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	3	3	05/09/07	0.131	0.131	0.131	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02655	2.3	04/01/09		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N		0.131	1.00	LANL Avi BG LVL	0.04	3.3	0.016	mg/L	1		J	I4a	EPA:350.1	GELC	
C2	3	3	05/09/07	0.107	0.59	0.244	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02655	2.3	04/01/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N		0.59	2.42	LANL Avi BG LVL	0.57	1.0	0.05	mg/L	5				EPA:353.2	GELC	
C2	14	14	11/15/00	1.32	2.7	2.6	7	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02655	2.3	04/01/09		F	CS	METALS	Antimony	Sb		1.32	0.51	LANL Avi BG LVL	0.5	2.6	0.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	7	7	03/30/04	0.53	2.6	0.78	7	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	CDV-16-02655	2.3	04/01/09		F	CS	METALS	Uranium	U		1.16	1.49	LANL Avi BG LVL	1.03	1.1	0.05	ug/L	1		J	I4a	SW-846:6020	GELC	
C2	3	3	10/24/07	0.035	0.222	0.129	2	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25279	2.7	04/01/09		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N		0.222	1.72	LANL Avi BG LVL	0.04	5.6	0.016	mg/L	1		J	I4a	EPA:350.1	GELC	
C3	2	3	03/11/09	6.88	8.13	7.51	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		UF	CS	METALS	Lead	Pb		8.13	1.08	EPA MCL	15	1.1	0.5	ug/L	1				SW-846:6020	GELC	
C3	2	3	03/11/09	6.88	6.88	6.88	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		UF	CS	METALS	Antimony	Sb		6.88	1.00	EPA MCL	6	2.3	0.5	ug/L	1		J	I4a	SW-846:6020	GELC	
C3	2	3	03/11/09	77.4	96.4	86.9	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		UF	CS	SVOA	Bis(2-ethylhexyl)phthalate	117-81-7		77.4	0.89	EPA MCL	6	25.8	2.1	ug/L	1				SW-846:8270C	GELC	Common in new wells
C3	2	3	03/11/09	77.4	96.4	86.9	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		UF	CS	SVOA	Bis(2-ethylhexyl)phthalate	117-81-7		96.4	1.11	EPA MCL	6	32.1	2.3	ug/L	1				SW-846:8270C	GELC	Common in new wells
C3	8	8	07/07/06	1.52	2.44	1.63	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	05/13/09		F	CS	GENINORG	Perchlorate	ClO4		2.44	1.50	NM GW CONS	4	1.2	0.25	ug/L	5				SW-846:6850	GELC	a sudden jump in concentration
C3	8	8	07/07/06	0.57	14.2	4.8	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	05/13/09		UF	CS	METALS	Lead	Pb		14.2	2.96	EPA MCL	15	1.9	0.5	ug/L	1				SW-846:6020	GELC	
C3	3	3	10/24/07	3.9	9.42	6.1	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25279	2.7	04/01/09		UF	CS	METALS	Lead	Pb		9.42	1.54	EPA MCL	15	1.3	0.5	ug/L	1				SW-846:6020	GELC	
C4	8	8	07/07/06	1.52	2.44	1.63	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	05/13/09		F	CS	GENINORG	Perchlorate	ClO4		2.44	1.50	NM GW CONS	4	1.2	0.25	ug/L	5				SW-846:6850	GELC	a sudden jump in concentration
C5	11	11	01/11/07	1.17	1.53	1.27	11	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	GENINORG	Bromide	Br(-1)		1.18	0.93	LANL Int BG LVL	0.03	19.7	0.066	mg/L	1				EPA:300.0	GELC	
C5	11	13	01/11/07	75.1	87.6	80.9	12	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	GENINORG	Calcium	Ca		76.6	0.95	LANL Int BG LVL	17.31	2.2	0.03	mg/L	1				SW-846:6010B	GELC	
C5	11	11	01/11/07	83.3	98.7	91.2	11	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	GENINORG	Chloride	Cl(-1)		83.3	0.91	LANL Int BG LVL	7.78	5.4	0.66	mg/L	10				EPA:300.0	GELC	
C5	11	11	01/11/07	1.05	1.58	1.43	11	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	GENINORG	Perchlorate	ClO4		1.05	0.73	LANL Int BG LVL	0.05	10.5	0.1	ug/L	2				SW-846:6850	GELC	
C5	11	13	01/11/07	50.7	62.1	54	12	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	GENINORG	Sodium	Na		53.8	1.00	LANL Int BG LVL	12.19	2.2	0.045	mg/L	1				SW-846:6010B	GELC	
C5	11	11	01/11/07	0.414	0.914	0.801	10	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P		0.717	0.90	LANL Int BG LVL	0.08	4.5	0.015	mg/L	1				EPA:365.4	GELC	
C5	11	11	01/11/07	102	112	106	11	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	GENINORG	Sulfate	SO4(-2)		103	0.97	LANL Int BG LVL	40.03	1.3	1	mg/L	10				EPA:300.0	GELC	
C5	11	11	01/11/07	455	536	499	11	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	GENINORG	Total Dissolved Solids	TDS		497	1.00	LANL Int BG LVL	127	2.0	2.4	mg/L	1				EPA:160.1	GELC	
C5	11	14	01/11/07	11	22.1	14.4	14	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	METALS	Chromium	Cr		12.6	0.88	LANL Int BG LVL	1	6.3	1.5	ug/L	1				SW-846:6020	GELC	
C5	11	14	01/11/07	11	22.1	14.4	14	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	METALS	Chromium	Cr		11	0.76	LANL Int BG LVL	1	5.5	7.5	ug/L	5	J	J	J_LAB	SW-846:6020	GELC	
C5	11	14	01/11/07	11	22.1	14.4	14	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	METALS	Chromium	Cr		12.6	0.88	LANL Int BG LVL	1	6.3	1.5	ug/L	1				SW-846:6020	GELC	
C5	11	12	01/11/07	43.9	77.7	58.6	12	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	METALS	Molybdenum	Mo		77.7	1.33	LANL Int BG LVL	2	19.4	0.1	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	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Any/ Suite Code	Analyte Desc	Analyte	Symbol	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	Any/ Meth Code	Lab Code	Comment
C5	11	11	01/11/07	4.3	8.1	5.8	11	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	METALS	Nickel	Ni		4.86	0.84	LANL Int BG LVL	1	2.4	0.5	ug/L	1				SW-846:6020	GELC	
C5	11	13	01/11/07	317	383	368	12	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	METALS	Strontium	Sr		317	0.86	LANL Int BG LVL	154.76	1.0	1	ug/L	1				SW-846:6010B	GELC	
C5	11	11	01/11/07	1.8	3.05	2.6	11	Sandia Canyon	Intermediate	SCI-1	358.4	05/06/09		F	CS	METALS	Uranium	U		3.05	1.17	LANL Int BG LVL	0.72	2.1	0.05	ug/L	1		J	I4a	SW-846:6020	GELC	
C5	4	5	10/21/08	0.194	0.498	0.332	5	Sandia Canyon	Intermediate	SCI-2	548	05/06/09		F	CS	GENINORG	Bromide	Br(-1)		0.194	0.58	LANL Int BG LVL	0.03	3.2	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	4	7	10/21/08	59.5	64.8	62.4	7	Sandia Canyon	Intermediate	SCI-2	548	05/06/09		F	CS	GENINORG	Calcium	Ca		64.8	1.04	LANL Int BG LVL	17.31	1.9	0.03	mg/L	1				SW-846:6010B	GELC	
C5	4	5	10/21/08	53.4	62.1	56.4	5	Sandia Canyon	Intermediate	SCI-2	548	05/06/09		F	CS	GENINORG	Chloride	Cl(-1)		54.3	0.96	LANL Int BG LVL	7.78	3.5	0.66	mg/L	10				EPA:300.0	GELC	
C5	4	5	10/21/08	0.975	1.04	0.986	5	Sandia Canyon	Intermediate	SCI-2	548	05/06/09		F	CS	GENINORG	Perchlorate	ClO4		0.991	1.01	LANL Int BG LVL	0.05	9.9	0.1	ug/L	2				SW-846:6850	GELC	
C5	4	7	10/21/08	13.1	14.7	13.7	7	Sandia Canyon	Intermediate	SCI-2	548	05/06/09		F	CS	GENINORG	Magnesium	Mg		14.7	1.07	LANL Int BG LVL	6.12	1.2	0.085	mg/L	1				SW-846:6010B	GELC	
C5	4	5	10/21/08	87.1	101	90.3	5	Sandia Canyon	Intermediate	SCI-2	548	05/06/09		F	CS	GENINORG	Sulfate	SO4(-2)		87.1	0.96	LANL Int BG LVL	40.03	1.1	1	mg/L	10				EPA:300.0	GELC	
C5	4	5	10/21/08	354	411	377	5	Sandia Canyon	Intermediate	SCI-2	548	05/06/09		F	CS	GENINORG	Total Dissolved Solids	TDS		411	1.09	LANL Int BG LVL	127	1.6	2.4	mg/L	1				EPA:160.1	GELC	
C5	4	10	10/21/08	471	658	563	10	Sandia Canyon	Intermediate	SCI-2	548	05/06/09		F	CS	METALS	Chromium	Cr		586	1.04	LANL Int BG LVL	1	293.0	15	ug/L	10				SW-846:6020	GELC	
C5	4	10	10/21/08	471	658	563	10	Sandia Canyon	Intermediate	SCI-2	548	05/06/09		F	CS	METALS	Chromium	Cr		658	1.17	LANL Int BG LVL	1	329.0	15	ug/L	10				SW-846:6020	GELC	
C5	4	10	10/21/08	471	658	563	10	Sandia Canyon	Intermediate	SCI-2	548	05/06/09		F	CS	METALS	Chromium	Cr		658	1.17	LANL Int BG LVL	1	329.0	15	ug/L	10				SW-846:6020	GELC	
C5	4	7	10/21/08	5.79	12.8	12.4	7	Sandia Canyon	Intermediate	SCI-2	548	05/06/09		F	CS	METALS	Manganese	Mn		5.79	0.47	LANL Int BG LVL	2	1.5	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	4	7	10/21/08	14.5	17.9	15.9	7	Sandia Canyon	Intermediate	SCI-2	548	05/06/09		F	CS	METALS	Nickel	Ni		17.9	1.13	LANL Int BG LVL	1	9.0	0.5	ug/L	1				SW-846:6020	GELC	
C5	3	4	02/20/08	0.235	0.363	0.256	4	Sandia Canyon	Intermediate	R-12	459	08/20/08		F	CS	GENINORG	Perchlorate	ClO4		0.235	0.92	LANL Int BG LVL	0.05	2.4	0.05	ug/L	1				SW-846:6850	GELC	
C5	4	6	02/20/08	0.235	0.363	0.263	6	Sandia Canyon	Intermediate	R-12	459	11/12/08		F	CS	GENINORG	Perchlorate	ClO4		0.263	1.00	LANL Int BG LVL	0.05	2.6	0.05	ug/L	1		J+	PE12f	SW-846:6850	GELC	
C5	6	7	02/20/08	137	288	182	7	Sandia Canyon	Intermediate	R-12	459	05/07/09		F	CS	METALS	Manganese	Mn		137	0.75	LANL Int BG LVL	2	34.3	2	ug/L	1				SW-846:6010B	GELC	
C5	6	7	02/20/08	137	288	182	7	Sandia Canyon	Intermediate	R-12	459	05/07/09		F	CS	METALS	Manganese	Mn		137	0.75	LANL Int BG LVL	2	34.3	2	ug/L	1				SW-846:6010B	GELC	
C5	11	11	06/29/06	6.6	13.1	9.8	11	Sandia Canyon	Regional	R-10	1042	05/12/09		F	CS	METALS	Zinc	Zn		8.73	0.89	LANL Reg BG LVL	3.89	1.1	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	14	16	11/30/05	6.7	111	8.5	16	Sandia Canyon	Regional	R-10a	690	05/12/09		F	CS	METALS	Zinc	Zn		8.21	0.97	LANL Reg BG LVL	3.89	1.1	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	8	9	11/14/06	0.298	0.411	0.346	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	CDBO-6	34	05/06/09		F	CS	GENINORG	Perchlorate	ClO4		0.322	0.93	LANL Avl BG LVL	0.05	3.2	0.05	ug/L	1				SW-846:6850	GELC	
C5	10	11	05/01/01	0.054	0.22	0.18	10	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	CDBO-6	34	05/06/09		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P		0.173	0.96	LANL Avl BG LVL	0.05	1.7	0.015	mg/L	1		J-	I6a	EPA:365.4	GELC	
C5	3	3	11/13/08	0.202	0.249	0.22	3	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	CDBO-7	29	05/06/09		F	CS	GENINORG	Perchlorate	ClO4		0.202	0.92	LANL Avl BG LVL	0.05	2.0	0.05	ug/L	1				SW-846:6850	GELC	
C5	14	14	06/23/05	0.291	0.606	0.405	14	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	05/05/09		F	CS	GENINORG	Bromide	Br(-1)		0.291	0.72	LANL Int BG LVL	0.03	4.9	0.066	mg/L	1		J+	I6b	EPA:300.0	GELC	
C5	14	14	06/23/05	18.4	21	19.5	14	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	05/05/09		F	CS	GENINORG	Chloride	Cl(-1)		19.8	1.02	LANL Int BG LVL	7.78	1.3	0.13	mg/L	2				EPA:300.0	GELC	
C5	14	14	06/23/05	61.7	166	122	14	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	05/05/09		F	CS	GENINORG	Perchlorate	ClO4		61.7	0.51	LANL Int BG LVL	0.05	617.0	5	ug/L	100				SW-846:6850	GELC	
C5	14	14	06/23/05	10.1	17.7	13.5	14	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	05/05/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N		10.1	0.75	LANL Int BG LVL	2.41	2.1	0.25	mg/L	25				EPA:353.2	GELC	
C5	14	14	06/23/05	4.2	66.9	13.4	11	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	05/05/09		F	CS	METALS	Copper	Cu		13.4	1.00	LANL Int BG LVL	5.32	1.3	3	ug/L	1				SW-846:6010B	GELC	
C5	14	14	06/23/05	2.2	5.1	3	14	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	05/05/09		F	CS	METALS	Nickel	Ni		2.94	0.98	LANL Int BG LVL	1	1.5	0.5	ug/L	1				SW-846:6020	GELC	
C5	14	14	06/23/05	5.3	369	39.1	14	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	05/05/09		F	CS	METALS	Zinc	Zn		45.9	1.17	LANL Int BG LVL	2	11.5	2	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	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Any/ Suite Code	Analyte Desc	Analyte	Symbol	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	Any/ Meth Code	Lab Code	Comment
C5	15	20	06/09/05	1.1	4.6	3	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689	05/04/09		F	CS	METALS	Chromium	Cr		3.14	1.05	LANL Int BG LVL	1	1.6	1.5	ug/L	1				SW-846:6020	GELC	
C5	15	22	06/15/05	0.212	0.635	0.31	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09	FD	F	CS	GENINORG	Bromide	Br(-1)		0.538	1.74	LANL Int BG LVL	0.03	9.0	0.066	mg/L	1		J+	I6b	EPA:300.0	GELC	
C5	15	22	06/15/05	0.212	0.635	0.31	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09		F	CS	GENINORG	Bromide	Br(-1)		0.551	1.78	LANL Int BG LVL	0.03	9.2	0.066	mg/L	1		J+	I6b	EPA:300.0	GELC	
C5	15	22	06/15/05	42.8	68.4	48.8	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09	FD	F	CS	GENINORG	Calcium	Ca		68.4	1.40	LANL Int BG LVL	17.31	2.0	0.03	mg/L	1				SW-846:6010B	GELC	
C5	15	22	06/15/05	42.8	68.4	48.8	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09		F	CS	GENINORG	Calcium	Ca		64.5	1.32	LANL Int BG LVL	17.31	1.9	0.03	mg/L	1				SW-846:6010B	GELC	
C5	15	22	06/15/05	21.2	45	23.1	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09	FD	F	CS	GENINORG	Chloride	Cl(-1)		44.9	1.94	LANL Int BG LVL	7.78	2.9	0.33	mg/L	5				EPA:300.0	GELC	values rising
C5	15	22	06/15/05	21.2	45	23.1	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09		F	CS	GENINORG	Chloride	Cl(-1)		45	1.95	LANL Int BG LVL	7.78	2.9	0.33	mg/L	5				EPA:300.0	GELC	values rising
C5	15	22	06/15/05	90.9	246	172	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09		F	CS	GENINORG	Perchlorate	ClO4		96.7	0.56	LANL Int BG LVL	0.05	967.0	13	ug/L	250				SW-846:6850	GELC	
C5	15	22	06/15/05	90.9	246	172	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09	FD	F	CS	GENINORG	Perchlorate	ClO4		102	0.59	LANL Int BG LVL	0.05	1020.0	13	ug/L	250				SW-846:6850	GELC	
C5	15	22	06/15/05	0.47	0.635	0.544	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09	FD	F	CS	GENINORG	Fluoride	F(-1)		0.623	1.15	LANL Int BG LVL	0.23	1.4	0.033	mg/L	1				EPA:300.0	GELC	
C5	15	22	06/15/05	0.47	0.635	0.544	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09		F	CS	GENINORG	Fluoride	F(-1)		0.624	1.15	LANL Int BG LVL	0.23	1.4	0.033	mg/L	1				EPA:300.0	GELC	
C5	15	22	06/15/05	8.49	13.8	9.88	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09		F	CS	GENINORG	Magnesium	Mg		13	1.32	LANL Int BG LVL	6.12	1.1	0.085	mg/L	1				SW-846:6010B	GELC	
C5	15	22	06/15/05	8.49	13.8	9.88	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09	FD	F	CS	GENINORG	Magnesium	Mg		13.8	1.40	LANL Int BG LVL	6.12	1.1	0.085	mg/L	1				SW-846:6010B	GELC	
C5	15	23	06/15/05	13.6	20.4	17.9	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N		13.6	0.76	LANL Int BG LVL	2.41	2.8	0.25	mg/L	25				EPA:353.2	GELC	
C5	15	23	06/15/05	13.6	20.4	17.9	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09	FD	F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N		13.6	0.76	LANL Int BG LVL	2.41	2.8	0.25	mg/L	25				EPA:353.2	GELC	
C5	15	22	06/15/05	19.5	26.3	21.8	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09	FD	F	CS	GENINORG	Sodium	Na		25.6	1.17	LANL Int BG LVL	12.19	1.1	0.045	mg/L	1				SW-846:6010B	GELC	
C5	15	30	06/15/05	298	436	363	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09		F	CS	GENINORG	Total Dissolved Solids	TDS		436	1.20	LANL Int BG LVL	127	1.7	2.4	mg/L	1				EPA:160.1	GELC	values rising
C5	15	30	06/15/05	298	436	363	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09	FD	F	CS	GENINORG	Total Dissolved Solids	TDS		422	1.16	LANL Int BG LVL	127	1.7	2.4	mg/L	1				EPA:160.1	GELC	values rising
C5	15	22	06/15/05	25.4	40	32	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09	FD	F	CS	METALS	Boron	B		40	1.25	LANL Int BG LVL	15.12	1.3	10	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	15	22	06/15/05	25.4	40	32	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09		F	CS	METALS	Boron	B		37.7	1.18	LANL Int BG LVL	15.12	1.3	10	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	15	24	06/15/05	29.4	58.2	41.2	24	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09		F	CS	METALS	Chromium	Cr		41.5	1.01	LANL Int BG LVL	1	20.8	1.5	ug/L	1				SW-846:6020	GELC	
C5	15	24	06/15/05	29.4	58.2	41.2	24	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09		F	CS	METALS	Chromium	Cr		49.7	1.21	LANL Int BG LVL	1	24.9	3	ug/L	2		J	I4a	SW-846:6020	GELC	
C5	15	24	06/15/05	29.4	58.2	41.2	24	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09	FD	F	CS	METALS	Chromium	Cr		41.8	1.01	LANL Int BG LVL	1	20.9	1.5	ug/L	1				SW-846:6020	GELC	
C5	15	22	06/15/05	6.6	26.1	11.1	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09	FD	F	CS	METALS	Copper	Cu		12.3	1.11	LANL Int BG LVL	5.32	1.2	3	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	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Any/ Suite Code	Analyte Desc	Analyte	Symbol	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	Any/ Meth Code	Lab Code	Comment	
C5	15	22	06/15/05	6.6	26.1	11.1	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09		F	CS	METALS	Copper	Cu		11.6	1.05	LANL Int BG LVL	5.32	1.1	3	ug/L	1				SW-846:6010B	GELC		
C5	15	22	06/15/05	2.9	8.9	5.5	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09	FD	F	CS	METALS	Nickel	Ni		8.47	1.54	LANL Int BG LVL	1	4.2	0.5	ug/L	1					SW-846:6020	GELC	
C5	15	22	06/15/05	2.9	8.9	5.5	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09		F	CS	METALS	Nickel	Ni		8.2	1.49	LANL Int BG LVL	1	4.1	0.5	ug/L	1					SW-846:6020	GELC	
C5	15	22	06/15/05	26	288	72	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09	FD	F	CS	METALS	Zinc	Zn		31.2	0.43	LANL Int BG LVL	2	7.8	2	ug/L	1					SW-846:6010B	GELC	
C5	15	22	06/15/05	26	288	72	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	05/05/09		F	CS	METALS	Zinc	Zn		30.1	0.42	LANL Int BG LVL	2	7.5	2	ug/L	1					SW-846:6010B	GELC	
C5	9	9	07/07/06	98	124	108	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	05/13/09		F	CS	GENINORG	Calcium	Ca		106	0.98	LANL Int BG LVL	17.31	3.1	0.03	mg/L	1					SW-846:6010B	GELC	
C5	8	8	07/07/06	1.52	2.44	1.63	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	05/13/09		F	CS	GENINORG	Perchlorate	ClO4		2.44	1.50	LANL Int BG LVL	0.05	24.4	0.25	ug/L	5					SW-846:6850	GELC	a sudden jump in concentration
C5	9	9	07/07/06	16.5	20.3	18	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	05/13/09		F	CS	GENINORG	Magnesium	Mg		17.1	0.95	LANL Int BG LVL	6.12	1.4	0.085	mg/L	1					SW-846:6010B	GELC	
C5	7	7	07/07/06	3.64	740	10	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	05/13/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N		740	74.00	LANL Int BG LVL	2.41	153.5	5	mg/L	500		J-	l6a	EPA:353.2	GELC	sample preservation error	
C5	9	9	07/07/06	35	45.9	39.1	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	05/13/09		F	CS	GENINORG	Sodium	Na		37.2	0.95	LANL Int BG LVL	12.19	1.5	0.045	mg/L	1					SW-846:6010B	GELC	
C5	9	9	07/07/06	79.4	120	94.1	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	05/13/09		F	CS	METALS	Boron	B		89.2	0.95	LANL Int BG LVL	15.12	3.0	10	ug/L	1					SW-846:6010B	GELC	
C5	9	9	07/07/06	3.6	5.2	4.2	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	05/13/09		F	CS	METALS	Nickel	Ni		3.82	0.91	LANL Int BG LVL	1	1.9	0.5	ug/L	1					SW-846:6020	GELC	
C5	9	9	07/07/06	561	689	614	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	05/13/09		F	CS	METALS	Strontium	Sr		565	0.92	LANL Int BG LVL	154.76	1.8	1	ug/L	1					SW-846:6010B	GELC	
C5	9	9	07/07/06	22.3	32.6	28.2	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	05/13/09		F	CS	METALS	Uranium	U		25.5	0.90	LANL Int BG LVL	0.72	17.7	0.05	ug/L	1					SW-846:6020	GELC	
C5	9	9	07/07/06	9.4	15.4	11.7	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	05/13/09		F	CS	METALS	Vanadium	V		12.7	1.09	LANL Int BG LVL	4.91	1.3	1	ug/L	1					SW-846:6010B	GELC	
C5	6	6	06/27/05	0.255	1.26	1.04	6	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-33	995.5	05/06/09	UF	CS	GENINORG	Total Organic Carbon	TOC		0.741	0.71	LANL Reg BG LVL	0.33	1.1	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC			
C5	9	9	06/27/05	5.1	38.6	11	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-33	995.5	05/06/09		F	CS	METALS	Zinc	Zn		8.67	0.79	LANL Reg BG LVL	3.89	1.1	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC		
C5	4	5	10/09/08	28.7	32.5	31.9	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/11/09		F	CS	GENINORG	Chloride	Cl(-1)		30.7	0.96	LANL Reg BG LVL	3.57	4.3	0.33	mg/L	5					EPA:300.0	GELC	
C5	4	5	10/09/08	1.18	1.35	1.28	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/11/09		F	CS	GENINORG	Perchlorate	ClO4		1.28	1.00	LANL Reg BG LVL	0.46	1.4	0.1	ug/L	2					SW-846:6850	GELC	
C5	4	5	10/09/08	11.1	12.9	12.5	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/11/09		F	CS	GENINORG	Magnesium	Mg		12.6	1.01	LANL Reg BG LVL	4.15	1.5	0.085	mg/L	1					SW-846:6010B	GELC	
C5	4	5	10/09/08	5.83	7.03	6	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/11/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N		7.03	1.17	LANL Reg BG LVL	0.89	4.0	0.25	mg/L	25					EPA:353.2	GELC	
C5	4	5	10/09/08	60.9	62.1	61.4	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/11/09		F	CS	GENINORG	Sulfate	SO4(-2)		61	0.99	LANL Reg BG LVL	7.2	4.2	0.5	mg/L	5					EPA:300.0	GELC	
C5	4	5	10/09/08	1.47	2.84	2.17	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/11/09	UF	CS	GENINORG	Total Organic Carbon	TOC		1.47	0.68	LANL Reg BG LVL	0.33	2.2	0.33	mg/L	1					SW-846:9060	GELC		
C5	4	12	10/09/08	744	886	829	12	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/11/09		F	CS	METALS	Chromium	Cr		863	1.04	LANL Reg BG LVL	5.75	75.0	1.5	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	AnyI Suite Code	Analyte Desc	Analyte	Symbol	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	AnyI Meth Code	Lab Code	Comment
C5	4	12	10/09/08	744	886	829	12	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/11/09		F	CS	METALS	Chromium	Cr		886	1.07	LANL Reg BG LVL	5.75	77.0	1.5	ug/L	1				SW-846:6020	GELC	
C5	4	12	10/09/08	744	886	829	12	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/11/09		F	CS	METALS	Chromium	Cr		886	1.07	LANL Reg BG LVL	5.75	77.0	1.5	ug/L	1				SW-846:6020	GELC	
C5	4	5	10/09/08	8.8	11.5	9.9	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/11/09		F	CS	METALS	Nickel	Ni		11.5	1.16	LANL Reg BG LVL	3.09	1.9	0.5	ug/L	1				SW-846:6020	GELC	
C5	4	5	10/09/08	7.7	28.1	17	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	05/11/09		F	CS	METALS	Zinc	Zn		25.4	1.49	LANL Reg BG LVL	3.89	3.3	2	ug/L	1				SW-846:6010B	GELC	
C5	3	3	10/24/07	150	218	184	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25279	2.7	04/01/09		F	CS	METALS	Barium	Ba		150	0.82	LANL Avi BG LVL	68.57	1.1	1	ug/L	1				SW-846:6010B	GELC	
C5	3	3	10/24/07	1.53	18	8.2	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25279	2.7	04/01/09		F	CS	METALS	Cobalt	Co		1.53	0.19	LANL Avi BG LVL	0.5	1.5	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	3	3	10/24/07	2.6	5.9	5.6	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25279	2.7	04/01/09		F	CS	METALS	Chromium	Cr		5.56	0.99	LANL Avi BG LVL	1	2.8	1.5	ug/L	1				SW-846:6020	GELC	
C5	3	3	10/24/07	89.6	1030	565	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25279	2.7	04/01/09		F	CS	METALS	Manganese	Mn		89.6	0.16	LANL Avi BG LVL	2	22.4	2	ug/L	1				SW-846:6010B	GELC	
C5	3	3	10/24/07	4.89	10	5.5	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25279	2.7	04/01/09		F	CS	METALS	Nickel	Ni		4.89	0.89	LANL Avi BG LVL	1	2.5	0.5	ug/L	1				SW-846:6020	GELC	
C5	3	3	10/24/07	1.9	3.3	2.6	3	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Alluvial	FLC-16-25279	2.7	04/01/09		F	CS	METALS	Lead	Pb		2.62	1.01	LANL Avi BG LVL	0.5	2.6	0.5	ug/L	1				SW-846:6020	GELC	
CA	2	3	03/11/09	6.88	6.88	6.88	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		UF	CS	METALS	Antimony	Sb		6.88	1.00	EPA MCL	6	1.2	0.5	ug/L	1		J	14a	SW-846:6020	GELC	
CA	2	3	03/11/09	77.4	96.4	86.9	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		UF	CS	SVOA	Bis(2-ethylhexyl)phthalate	117-81-7		77.4	0.89	EPA MCL	6	12.9	2.1	ug/L	1				SW-846:8270C	GELC	Common in new wells
CA	2	3	03/11/09	77.4	96.4	86.9	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	05/13/09		UF	CS	SVOA	Bis(2-ethylhexyl)phthalate	117-81-7		96.4	1.11	EPA MCL	6	16.1	2.3	ug/L	1				SW-846:8270C	GELC	Common in new wells
CA	8	8	07/07/06	22.3	32.5	28.6	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate Spring	Pine Rock Spring	0	05/13/09		UF	CS	METALS	Uranium	U		30	1.05	EPA MCL	30	1.0	0.05	ug/L	1				SW-846:6020	GELC	Other prior results above standard