General

Los Alamos
NATIONAL LABORATORY
EST. 1943

Environmental Programs
P.O. Box 1663, MS M991
Los Alamos, New Mexico 87545
(505) 606-2337FAX (505) 665-1812

ENTERED

National Nuclear Security Administration
Los Alamos Site Office, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
(505) 667-4255/FAX (505) 606-2132

Date: FEB 22 2010
Refer To: EP2010-0068

James Bearzi, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

FEB 2010

Subject: Review of January 2010 Groundwater Data

Dear Mr. Bearzi:

Members of the Los Alamos National Laboratory (LANL) Environmental Programs Directorate met on February 16, 2010, to review new groundwater data received in January 2010. At that time, several groundwater samples were identified with contaminant concentrations above the New Mexico or federal water quality standards.

An Environmental Programs staff member notified the New Mexico Environment Department (NMED) Hazardous Waste Bureau about these findings by telephone on February 16, 2010, and followed up with an email on the same day.

The three instances of a contaminant above a standard for the first time (based on samples collected since June 14, 2007) are tabulated in the attached report. Samples collected at these locations before June 14, 2007, also contained the same contaminants at concentrations above a standard.

As described in our previous letters, the attached report contains fluoride results that are the highest measured at each of the locations. The analytical laboratory made an error in analyzing these data, and the results are being corrected.

This letter is our written submission that indicates in the accompanying report and tables the chemical constituents that meet the seven screening criteria laid out in the Compliance Order on Consent, modified on May 13, 2008.

If you have questions, please contact Ardyth Simmons at (505) 665-3935 (asimmons@lanl.gov) or David Gregory at (505) 667-5808 (dgregory@doeal.gov).

Sincerely,

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,

Edwin P. Worth for

David R. Gregory, Project Director
Environmental Operations
Los Alamos Site Office

MG/DG/DM/AS/DR:sm

Enclosure: Two hard copies with electronic files – Summary of New Los Alamos National Laboratory Groundwater Data Loaded in January 2010 (LA-UR-10-0935)

Cy: (w/enc.)
Neil Weber, San Ildefonso Pueblo
Hai Shen, DOE-LASO, MS A316
Steve Paris, EP-CAP, MS M992
RPF, MS M707 (with two CDs)
Public Reading Room, MS M992

Cy: (Letter and CD only)
Laurie King, EPA Region 6, Dallas, TX
Steve Yanicak, NMED-DOE-OB, MS M894
Ardyth Simmons, EP-ET-DO, MS M992
Kristine Smeltz, EP-WES, MS M992

Cy: (w/o enc.)
Pete Padilla, Los Alamos County Utility Department, Los Alamos, NM
Annette Russell, DOE-LASO (date-stamped letter emailed)
Tom Skibitski, NMED-OB, Santa Fe, NM
David Rogers, EP-ENG-TECH, MS M992
Mei Ding, EES-6, MS J514
Michael J. Graham, ADEP, MS M991
IRM-RMMSO, MS A150 (date-stamped letter emailed)

SUMMARY OF NEW LOS ALAMOS NATIONAL LABORATORY GROUNDWATER DATA LOADED IN JANUARY 2010

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 1-10 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 01-10 Groundwater Report

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	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	4	4	02/20/09	0.00000283	0.00000283	0.00000283	1	Sandia Canyon	Intermediate	R-12	459	11/12/09		UF	CS	DIOX/FUR	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	3268-87-9	0.00000283	1.00				0.00000283	ug/L	1	J	J	J_LAB	SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	4	4	02/11/09	0.00000335	0.00000335	0.00000335	1	Sandia Canyon	Intermediate	R-12	504.5	11/12/09		UF	CS	DIOX/FUR	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	3268-87-9	0.00000335	1.00				0.00000335	ug/L	1	J	J	J_LAB	SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	4	4	02/11/09	0.00000168	0.00000168	0.00000168	1	Sandia Canyon	Intermediate	R-12	504.5	11/12/09		UF	CS	DIOX/FUR	Heptachlorodibenzodioxins (Total)	37871-00-4	0.00000168	1.00				0.00000168	ug/L	1				SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	4	4	11/10/08	0.0000103	0.0000103	0.0000103	1	Sandia Canyon	Regional	R-43	969.1	11/19/09		UF	CS	DIOX/FUR	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	3268-87-9	0.0000103	1.00				0.0000103	ug/L	1	JB	J	DF4a	SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	4	4	11/10/08	0.00000123	0.00000123	0.00000123	1	Sandia Canyon	Regional	R-43	969.1	11/19/09		UF	CS	DIOX/FUR	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	35822-46-9	0.00000123	1.00				0.00000123	ug/L	1	J	J	J_LAB	SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	4	4	11/10/08	0.00000123	0.00000123	0.00000123	1	Sandia Canyon	Regional	R-43	969.1	11/19/09		UF	CS	DIOX/FUR	Heptachlorodibenzodioxins (Total)	37871-00-4	0.00000123	1.00				0.00000123	ug/L	1				SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	4	4	11/10/08	0.000000522	0.000000522	0.000000522	1	Sandia Canyon	Regional	R-43	969.1	11/19/09		UF	CS	DIOX/FUR	Heptachlorodibenzofurans (Total)	38998-75-3	0.000000522	1.00				0.000000522	ug/L	1				SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	4	4	11/10/08	0.000000913	0.000000913	0.000000913	1	Sandia Canyon	Regional	R-43	969.1	11/19/09		UF	CS	DIOX/FUR	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	39001-02-0	0.000000913	1.00				0.000000913	ug/L	1	J	J	J_LAB	SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	4	4	11/10/08	0.000000522	0.000000522	0.000000522	1	Sandia Canyon	Regional	R-43	969.1	11/19/09		UF	CS	DIOX/FUR	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	67562-39-4	0.000000522	1.00				0.000000522	ug/L	1	J	J	J_LAB	SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	8	9	08/30/07	0.00741	0.00741	0.00741	1	Sandia Canyon	Regional	R-35a	1013.1	11/04/09		UF	CS	PEST/PCB	Endosulfan I	959-98-8	0.00741	1.00				0.0058	ug/L	1	J	J	J_LAB	SW-846:8081A	GELC	possible lab cross contamination
C1	4	4	02/18/09	0.0134	0.0134	0.0134	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-14	1200.6	11/04/09		UF	CS	PEST/PCB	Endosulfan I	959-98-8	0.0134	1.00				0.0055	ug/L	1	J	J	P7c	SW-846:8081A	GELC	possible lab cross contamination
C1	4	4	10/09/08	0.00000163	0.00000163	0.00000163	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/05/09		UF	CS	DIOX/FUR	Heptachlorodibenzodioxins (Total)	37871-00-4	0.00000163	1.00				0.00000163	ug/L	1				SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	6	7	10/09/08	0.0122	0.0122	0.0122	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/05/09		UF	CS	PEST/PCB	Heptachlor	76-44-8	0.0122	1.00	EPA MCL	0.4	0.0	0.0059	ug/L	1	J	J	P7c	SW-846:8081A	GELC	possible lab cross contamination
C1	4	4	02/28/09	0.0000014	0.0000014	0.0000014	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45	880	11/16/09		UF	CS	DIOX/FUR	Heptachlorodibenzodioxins (Total)	37871-00-4	0.0000014	1.00				0.0000014	ug/L	1				SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	4	4	02/17/09	0.00000317	0.00000317	0.00000317	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-44	895	11/13/09		UF	CS	DIOX/FUR	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	3268-87-9	0.00000317	1.00				0.00000317	ug/L	1	J	J	J_LAB	SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	4	4	02/17/09	0.00000139	0.00000139	0.00000139	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-44	895	11/13/09		UF	CS	DIOX/FUR	Heptachlorodibenzodioxins (Total)	37871-00-4	0.00000139	1.00				0.00000139	ug/L	1				SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	4	5	02/22/09	0.000000915	0.000000915	0.000000915	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-44	985.3	11/13/09		UF	CS	DIOX/FUR	Heptachlorodibenzodioxins (Total)	37871-00-4	0.000000915	1.00				0.000000915	ug/L	1				SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	4	6	02/22/09	0.36	0.36	0.36	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-44	985.3	11/13/09		UF	CS	VOA	Trichloroethene	79-01-6	0.36	1.00	EPA MCL	5	0.1	0.25	ug/L	1	J	J	J_LAB	SW-846:8260B	GELC	near MDL, in only 1 of 6 samples so far
C1	3	3	07/13/09	0.00000445	0.00000445	0.00000445	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	929.3	11/18/09		UF	CS	DIOX/FUR	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	3268-87-9	0.00000445	1.00				0.00000445	ug/L	1	J	J	J_LAB	SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision

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	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	2	06/22/09	0.00000242	0.00000242	0.00000242	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	1026	11/18/09		UF	CS	DIOX/FUR	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	3268-87-9	0.00000242	1.00				0.00000242	ug/L	1	J	J	J_LAB	SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	2	2	06/22/09	0.0523	0.0523	0.0523	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	1026	11/18/09		UF	CS	PEST/PCB	DDT[4,4'-]	50-29-3	0.0523	1.00	EPA TAP SCRN LVL C-5	2	0.0	0.011	ug/L	1				SW-846:8081A	GELC	possible lab cross contamination
C1	2	2	06/22/09	0.0904	0.0904	0.0904	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	1026	11/18/09		UF	CS	PEST/PCB	DDE[4,4'-]	72-55-9	0.0904	1.00	EPA TAP SCRN LVL C-5	2	0.1	0.0056	ug/L	1				SW-846:8081A	GELC	possible lab cross contamination
C1	14	22	12/19/05	1.36	1.36	1.36	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16r	600	11/16/09		UF	CS	VOA	Toluene	108-88-3	1.36	1.00	NM GW STD	750	0.0	0.25	ug/L	1				SW-846:8260B	GELC	
C1	4	4	03/03/09	0.00000088	0.00000088	0.00000088	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	400.3	12/03/09		UF	CS	DIOX/FUR	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	39001-02-0	0.00000088	1.00				0.00000088	ug/L	1	J	J	J_LAB	SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	2	2	09/09/09	0.000000745	0.000000745	0.000000745	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	524	12/01/09		UF	CS	DIOX/FUR	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	35822-46-9	0.000000745	1.00				0.000000745	ug/L	1	J	J	J_LAB	SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	2	2	09/09/09	0.0000021	0.0000021	0.0000021	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i	524	12/01/09		UF	CS	DIOX/FUR	Heptachlorodibenzodioxins (Total)	37871-00-4	0.0000021	1.00				0.0000021	ug/L	1				SW-846:8290	ALTC	possible analytical cross-contamination or measurement imprecision
C1	1	1	11/23/09	0.00705	0.00705	0.00705	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	11/23/09		UF	CS	PEST/PCB	Chlordane[gamma-]	5103-74-2	0.00705	1.00				0.0052	ug/L	1	J	J	J_LAB	SW-846:8081A	GELC	possible lab cross contamination
C1	1	1	11/23/09	0.0149	0.0149	0.0149	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	11/23/09		UF	CS	PEST/PCB	DDE[4,4'-]	72-55-9	0.0149	1.00	EPA TAP SCRN LVL C-5	2	0.0	0.0052	ug/L	1	J	J	J_LAB	SW-846:8081A	GELC	possible lab cross contamination
C1	1	1	11/23/09	0.0828	0.0828	0.0828	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	11/23/09		UF	CS	PEST/PCB	Heptachlor	76-44-8	0.0828	1.00	EPA MCL	0.4	0.2	0.0052	ug/L	1				SW-846:8081A	GELC	possible lab cross contamination
C1	1	2	11/23/09	2.49	2.49	2.49	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	11/23/09		UF	CS	SVOA	Bis(2-ethylhexyl)phthalate	117-81-7	2.49	1.00	EPA MCL	6	0.4	2.2	ug/L	1	J	J	J_LAB	SW-846:8270C	GELC	not in field duplicate
C2	10	11	08/30/07	0.314	0.625	0.337	11	Sandia Canyon	Regional	R-35a	1013.1	11/04/09		F	CS	GENINORG	Fluoride	F(-1)	0.625	1.85	LANL Reg BG LVL	0.57	1.1	0.033	mg/L	1				EPA:300.0	GELC	lab error
C2	7	9	05/12/08	0.067	0.111	0.093	8	Sandia Canyon	Regional	R-36	766.9	11/04/09	FD	F	CS	GENINORG	Bromide	Br(-1)	0.103	1.11	LANL Reg BG LVL	0.1	1.0	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	7	9	05/12/08	0.067	0.111	0.093	8	Sandia Canyon	Regional	R-36	766.9	11/04/09		F	CS	GENINORG	Bromide	Br(-1)	0.111	1.19	LANL Reg BG LVL	0.1	1.1	0.066	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C2	13	14	07/17/00	0.04	0.209999993	0.088	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-3	2	11/05/09		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.158	1.80	LANL Avl BG LVL	0.05	3.2	0.015	mg/L	1		J-	I6a	EPA:365.4	GELC	
C2	8	8	03/05/08	27.8	73.8	37.8	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-3	2	11/05/09		F	CS	METALS	Silicon Dioxide	SiO2	73.8	1.95	LANL Avl BG LVL	64.21	1.2	0.053	mg/L	1				SW-846:6010B	GELC	
C2	6	6	08/20/08	2.85	3.91	3.38	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-14	1200.6	11/04/09		F	CS	METALS	Zinc	Zn	3.91	1.16	LANL Reg BG LVL	3.89	1.0	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	21	27	02/24/00	20	210	46	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/05/09		F	CS	METALS	Iron	Fe	39.8	0.87	LANL Reg BG LVL	21	1.9	30	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	21	27	02/24/00	20	210	46	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/05/09	FD	F	CS	METALS	Iron	Fe	53.1	1.15	LANL Reg BG LVL	21	2.5	30	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	2	2	06/22/09	2.51	8.49	5.5	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	1026	11/18/09		F	CS	GENINORG	Chloride	Cl(-1)	8.49	1.54	LANL Reg BG LVL	3.57	2.4	0.066	mg/L	1		J+	I6b	EPA:300.0	GELC	
C2	2	2	06/22/09	0.343	0.462	0.403	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	1026	11/18/09		F	CS	GENINORG	Perchlorate	ClO4	0.462	1.15	LANL Reg BG LVL	0.46	1.0	0.05	ug/L	1				SW-846:6850	GELC	
C2	2	2	06/22/09	0.298	0.606	0.452	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	1026	11/18/09		F	CS	GENINORG	Fluoride	F(-1)	0.606	1.34	LANL Reg BG LVL	0.57	1.1	0.033	mg/L	1				EPA:300.0	GELC	lab error
C2	2	2	06/22/09	2.96	4.15	3.56	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	1026	11/18/09		F	CS	GENINORG	Magnesium	Mg	4.15	1.17	LANL Reg BG LVL	4.15	1.0	0.085	mg/L	1				SW-846:6010B	GELC	
C2	2	2	06/22/09	0.387	0.387	0.387	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	1026	11/18/09		UF	CS	GENINORG	Total Organic Carbon	TOC	0.387	1.00	LANL Reg BG LVL	0.33	1.2	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	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	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	1	1	12/21/09	70.9	70.9	70.9	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/21/09		F	CS	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	70.9	1.00	LANL Int BG LVL	52	1.4	0.73	mg/L	1				EPA:310.1	GELC	
C2	1	1	12/21/09	0.222	0.222	0.222	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/21/09		F	CS	GENINORG	Perchlorate	ClO4	0.222	1.00	LANL Int BG LVL	0.05	4.4	0.05	ug/L	1				SW-846:6850	GELC	
C2	1	1	12/21/09	30.3	30.3	30.3	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/21/09		F	CS	GENINORG	Sodium	Na	30.3	1.00	LANL Int BG LVL	12.19	2.5	0.1	mg/L	1		J+	I6b	SW-846:6010B	GELC	
C2	1	1	12/21/09	145	145	145	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/21/09		F	CS	GENINORG	Total Dissolved Solids	TDS	145	1.00	LANL Int BG LVL	127	1.1	2.4	mg/L	1				EPA:160.1	GELC	
C2	1	1	12/21/09	19.6	19.6	19.6	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/21/09		F	CS	METALS	Boron	B	19.6	1.00	LANL Int BG LVL	15.12	1.3	15	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	12/21/09	2.78	2.78	2.78	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/21/09		F	CS	METALS	Chromium	Cr	2.78	1.00	LANL Int BG LVL	1	2.8	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	1	1	12/21/09	95.2	95.2	95.2	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/21/09		F	CS	METALS	Manganese	Mn	95.2	1.00	LANL Int BG LVL	2	47.6	2	ug/L	1				SW-846:6010B	GELC	
C2	1	1	12/21/09	8.16	8.16	8.16	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/21/09		F	CS	METALS	Molybdenum	Mo	8.16	1.00	LANL Int BG LVL	2	4.1	0.1	ug/L	1				SW-846:6020	GELC	
C2	1	1	12/21/09	1.52	1.52	1.52	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/21/09		F	CS	METALS	Nickel	Ni	1.52	1.00	LANL Int BG LVL	1	1.5	0.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C2	1	1	12/21/09	56.5	56.5	56.5	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/21/09		F	CS	METALS	Silicon Dioxide	SiO2	56.5	1.00	LANL Int BG LVL	50.72	1.1	0.053	mg/L	1				SW-846:6010B	GELC	
C2	1	1	12/21/09	4.95	4.95	4.95	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	R-47i	840	12/21/09		F	CS	METALS	Zinc	Zn	4.95	1.00	LANL Int BG LVL	2	2.5	3.3	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	11/23/09	0.066	0.066	0.066	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	11/23/09		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.066	1.00	LANL Reg BG LVL	0.05	1.3	0.016	mg/L	1				EPA:350.1	GELC	
C2	1	1	11/23/09	1.07	1.07	1.07	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	11/23/09		F	CS	METALS	Cobalt	Co	1.07	1.00	LANL Reg BG LVL	0.5	2.1	1	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	11/23/09	78.1	78.1	78.1	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	11/23/09		F	CS	METALS	Iron	Fe	78.1	1.00	LANL Reg BG LVL	21	3.7	30	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C2	1	1	11/23/09	45.2	45.2	45.2	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	11/23/09		F	CS	METALS	Manganese	Mn	45.2	1.00	LANL Reg BG LVL	2.94	15.4	2	ug/L	1				SW-846:6010B	GELC	
C2	1	1	11/23/09	3.19	3.19	3.19	1	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Regional	R-48	1500	11/23/09		F	CS	METALS	Molybdenum	Mo	3.19	1.00	LANL Reg BG LVL	2	1.6	0.1	ug/L	1		J	I4a	SW-846:6020	GELC	
C3	8	9	02/13/07	0.128	2.68	0.407	9	Sandia Canyon	Alluvial	SCA-2	10.3	11/03/09		F	CS	GENINORG	Perchlorate	ClO4	2.68	6.58	NM GW CONS	4	1.3	0.25	ug/L	5				SW-846:6850	GELC	abnormally high value
C3	7	9	05/12/08	0.533	0.803	0.653	9	Sandia Canyon	Regional	R-36	766.9	11/04/09	FD	F	CS	GENINORG	Fluoride	F(-1)	0.803	1.23	NM GW STD	1.6	1.0	0.033	mg/L	1				EPA:300.0	GELC	lab error; duplicate result was 0.797
C3	7	9	05/12/08	30.8	527	69.1	4	Sandia Canyon	Regional	R-36	766.9	11/04/09		F	CS	METALS	Iron	Fe	527	7.63	NM GW STD	1000	1.1	30	ug/L	1				SW-846:6010B	GELC	
C3	40	56	07/17/00	144	1290	307	54	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-3	2	11/05/09		F	CS	GENINORG	Total Dissolved Solids	TDS	1290	4.20	NM GW STD	1000	2.6	2.4	mg/L	1				EPA:160.1	GELC	reanalysis gave 296 mg/L
C4	8	9	02/13/07	0.128	2.68	0.407	9	Sandia Canyon	Alluvial	SCA-2	10.3	11/03/09		F	CS	GENINORG	Perchlorate	ClO4	2.68	6.58	NM GW CONS	4	1.3	0.25	ug/L	5				SW-846:6850	GELC	abnormally high value
C5	3	3	05/21/09	0.894	1.37	1.24	3	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	11/30/09		F	CS	GENINORG	Bromide	Br(-1)	1.37	1.10	LANL Int BG LVL	0.03	22.8	0.066	mg/L	1				EPA:300.0	GELC	
C5	3	3	05/21/09	25.6	26.5	26.4	3	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	11/30/09		F	CS	GENINORG	Chloride	Cl(-1)	26.4	1.00	LANL Int BG LVL	7.78	1.7	0.33	mg/L	5				EPA:300.0	GELC	
C5	3	3	05/21/09	0.582	0.645	0.625	3	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	11/30/09		F	CS	GENINORG	Perchlorate	ClO4	0.625	1.00	LANL Int BG LVL	0.05	6.3	0.05	ug/L	1		J+	PE12f	SW-846:6850	GELC	
C5	3	3	05/21/09	3.33	8.03	6.77	3	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	11/30/09		F	CS	METALS	Chromium	Cr	3.33	0.49	LANL Int BG LVL	1	1.7	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	3	3	05/21/09	6.09	9.68	9.55	3	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	11/30/09		F	CS	METALS	Manganese	Mn	9.68	1.01	LANL Int BG LVL	2	2.4	2	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	3	3	05/21/09	76.9	87.5	79.9	3	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	11/30/09		F	CS	METALS	Molybdenum	Mo	87.5	1.10	LANL Int BG LVL	2	21.9	0.1	ug/L	1				SW-846:6020	GELC	
C5	3	3	05/21/09	11	21.5	15.5	3	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	11/30/09		F	CS	METALS	Nickel	Ni	21.5	1.39	LANL Int BG LVL	1	10.8	0.5	ug/L	1				SW-846:6020	GELC	highest nickel in several wells suggests analytical problem

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	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	3	3	05/21/09	11.8	14.8	14.8	3	Upper Los Alamos Canyon (includes DP Canyon)	Intermediate	TA-53i	600	11/30/09		F	CS	METALS	Zinc	Zn	11.8	0.80	LANL Int BG LVL	2	3.0	3.3	ug/L	1				SW-846:6010B	GELC	
C5	8	9	02/13/07	0.182	0.555	0.423	9	Sandia Canyon	Alluvial	SCA-2	10.3	11/03/09		F	CS	GENINORG	Bromide	Br(-1)	0.338	0.80	LANL Avl BG LVL	0.07	2.4	0.066	mg/L	1				EPA:300.0	GELC	
C5	8	9	02/13/07	0.128	2.68	0.407	9	Sandia Canyon	Alluvial	SCA-2	10.3	11/03/09		F	CS	GENINORG	Perchlorate	ClO4	2.68	6.58	LANL Avl BG LVL	0.05	26.8	0.25	ug/L	5				SW-846:6850	GELC	abnormally high value
C5	8	10	02/13/07	10.8	17.3	13.3	10	Sandia Canyon	Alluvial	SCA-2	10.3	11/03/09		F	CS	GENINORG	Potassium	K	11.7	0.88	LANL Avl BG LVL	5.21	1.1	0.05	mg/L	1				SW-846:6010B	GELC	
C5	8	10	02/13/07	46.1	157	110	10	Sandia Canyon	Alluvial	SCA-2	10.3	11/03/09		F	CS	GENINORG	Sodium	Na	70.9	0.64	LANL Avl BG LVL	15.54	2.3	0.1	mg/L	1				SW-846:6010B	GELC	
C5	7	8	02/13/07	0.294	2.75	2.47	8	Sandia Canyon	Alluvial	SCA-2	10.3	11/03/09		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	2.49	1.01	LANL Avl BG LVL	0.05	24.9	0.015	mg/L	1				EPA:365.4	GELC	
C5	8	9	02/13/07	295	750	437	9	Sandia Canyon	Alluvial	SCA-2	10.3	11/03/09		F	CS	GENINORG	Total Dissolved Solids	TDS	395	0.90	LANL Avl BG LVL	139	1.4	2.4	mg/L	1				EPA:160.1	GELC	
C5	8	10	02/13/07	4.8	10	6	8	Sandia Canyon	Alluvial	SCA-2	10.3	11/03/09		F	CS	METALS	Chromium	Cr	5.38	0.90	LANL Avl BG LVL	1	2.7	2.5	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	8	10	02/13/07	5.19	13.1	10.91	8	Sandia Canyon	Alluvial	SCA-2	10.3	11/03/09		F	CS	METALS	Molybdenum	Mo	5.19	0.48	LANL Avl BG LVL	2	1.3	0.1	ug/L	1				SW-846:6020	GELC	
C5	8	10	02/13/07	4.6	19.1	8.7	8	Sandia Canyon	Alluvial	SCA-2	10.3	11/03/09		F	CS	METALS	Vanadium	V	8.17	0.94	LANL Avl BG LVL	1	4.1	1	ug/L	1				SW-846:6010B	GELC	
C5	8	10	02/13/07	7.73	195	27.9	10	Sandia Canyon	Alluvial	SCA-2	10.3	11/03/09		F	CS	METALS	Zinc	Zn	30.7	1.10	LANL Avl BG LVL	2	7.7	3.3	ug/L	1				SW-846:6010B	GELC	
C5	9	10	06/18/07	0.24	0.526	0.311	9	Sandia Canyon	Alluvial	SCA-4	37	11/03/09		F	CS	GENINORG	Bromide	Br(-1)	0.252	0.81	LANL Avl BG LVL	0.07	1.8	0.066	mg/L	1				EPA:300.0	GELC	
C5	9	10	06/18/07	0.24	0.526	0.311	9	Sandia Canyon	Alluvial	SCA-4	37	11/03/09	FD	F	CS	GENINORG	Bromide	Br(-1)	0.256	0.82	LANL Avl BG LVL	0.07	1.8	0.066	mg/L	1				EPA:300.0	GELC	
C5	9	10	06/18/07	0.231	1.69	0.4	10	Sandia Canyon	Alluvial	SCA-4	37	11/03/09	FD	F	CS	GENINORG	Perchlorate	ClO4	0.232	0.58	LANL Avl BG LVL	0.05	2.3	0.05	ug/L	1				SW-846:6850	GELC	
C5	9	10	06/18/07	0.231	1.69	0.4	10	Sandia Canyon	Alluvial	SCA-4	37	11/03/09		F	CS	GENINORG	Perchlorate	ClO4	0.231	0.58	LANL Avl BG LVL	0.05	2.3	0.05	ug/L	1				SW-846:6850	GELC	
C5	9	10	06/18/07	0.543	1.07	0.936	10	Sandia Canyon	Alluvial	SCA-4	37	11/03/09		F	CS	GENINORG	Fluoride	F(-1)	1.01	1.08	LANL Avl BG LVL	0.27	1.9	0.033	mg/L	1				EPA:300.0	GELC	
C5	9	10	06/18/07	0.543	1.07	0.936	10	Sandia Canyon	Alluvial	SCA-4	37	11/03/09	FD	F	CS	GENINORG	Fluoride	F(-1)	1.06	1.13	LANL Avl BG LVL	0.27	2.0	0.033	mg/L	1				EPA:300.0	GELC	
C5	9	10	06/18/07	1.18	729	1.64	10	Sandia Canyon	Alluvial	SCA-4	37	11/03/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.56	0.95	LANL Avl BG LVL	0.57	1.4	0.05	mg/L	5		J	I4a	EPA:353.2	GELC	
C5	9	10	06/18/07	1.18	729	1.64	10	Sandia Canyon	Alluvial	SCA-4	37	11/03/09	FD	F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.56	0.95	LANL Avl BG LVL	0.57	1.4	0.05	mg/L	5		J	I4a	EPA:353.2	GELC	
C5	9	10	06/18/07	68.7	103	89.1	10	Sandia Canyon	Alluvial	SCA-4	37	11/03/09		F	CS	GENINORG	Sodium	Na	68.7	0.77	LANL Avl BG LVL	15.54	2.2	0.1	mg/L	1				SW-846:6010B	GELC	
C5	9	10	06/18/07	68.7	103	89.1	10	Sandia Canyon	Alluvial	SCA-4	37	11/03/09	FD	F	CS	GENINORG	Sodium	Na	70	0.79	LANL Avl BG LVL	15.54	2.3	0.1	mg/L	1				SW-846:6010B	GELC	
C5	9	10	06/18/07	1.38	7.56	2.87	10	Sandia Canyon	Alluvial	SCA-4	37	11/03/09	FD	F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	2.85	0.99	LANL Avl BG LVL	0.05	28.5	0.075	mg/L	5				EPA:365.4	GELC	
C5	9	10	06/18/07	1.38	7.56	2.87	10	Sandia Canyon	Alluvial	SCA-4	37	11/03/09		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	7.56	2.63	LANL Avl BG LVL	0.05	75.6	0.15	mg/L	10				EPA:365.4	GELC	
C5	9	10	06/18/07	284	400	320	10	Sandia Canyon	Alluvial	SCA-4	37	11/03/09		F	CS	GENINORG	Total Dissolved Solids	TDS	289	0.90	LANL Avl BG LVL	139	1.0	2.4	mg/L	1				EPA:160.1	GELC	
C5	9	10	06/18/07	284	400	320	10	Sandia Canyon	Alluvial	SCA-4	37	11/03/09	FD	F	CS	GENINORG	Total Dissolved Solids	TDS	284	0.89	LANL Avl BG LVL	139	1.0	2.4	mg/L	1				EPA:160.1	GELC	
C5	9	10	06/18/07	5.2	16.2	11.7	9	Sandia Canyon	Alluvial	SCA-4	37	11/03/09		F	CS	METALS	Chromium	Cr	15.7	1.34	LANL Avl BG LVL	1	7.9	2.5	ug/L	1				SW-846:6020	GELC	
C5	9	10	06/18/07	5.2	16.2	11.7	9	Sandia Canyon	Alluvial	SCA-4	37	11/03/09	FD	F	CS	METALS	Chromium	Cr	15.3	1.31	LANL Avl BG LVL	1	7.7	2.5	ug/L	1				SW-846:6020	GELC	
C5	9	10	06/18/07	14.5	67	33.1	10	Sandia Canyon	Alluvial	SCA-4	37	11/03/09		F	CS	METALS	Molybdenum	Mo	30.6	0.92	LANL Avl BG LVL	2	7.7	0.1	ug/L	1				SW-846:6020	GELC	
C5	9	10	06/18/07	14.5	67	33.1	10	Sandia Canyon	Alluvial	SCA-4	37	11/03/09	FD	F	CS	METALS	Molybdenum	Mo	30.4	0.92	LANL Avl BG LVL	2	7.6	0.1	ug/L	1				SW-846:6020	GELC	
C5	9	10	06/18/07	7.6	13.7	9.7	9	Sandia Canyon	Alluvial	SCA-4	37	11/03/09		F	CS	METALS	Vanadium	V	9.34	0.96	LANL Avl BG LVL	1	4.7	1	ug/L	1				SW-846:6010B	GELC	
C5	9	10	06/18/07	7.6	13.7	9.7	9	Sandia Canyon	Alluvial	SCA-4	37	11/03/09	FD	F	CS	METALS	Vanadium	V	9.71	1.00	LANL Avl BG LVL	1	4.9	1	ug/L	1				SW-846:6010B	GELC	
C5	9	10	06/18/07	2.5	198	20.1	9	Sandia Canyon	Alluvial	SCA-4	37	11/03/09		F	CS	METALS	Zinc	Zn	22.1	1.10	LANL Avl BG LVL	2	5.5	3.3	ug/L	1				SW-846:6010B	GELC	
C5	9	10	06/18/07	2.5	198	20.1	9	Sandia Canyon	Alluvial	SCA-4	37	11/03/09	FD	F	CS	METALS	Zinc	Zn	21.8	1.08	LANL Avl BG LVL	2	5.5	3.3	ug/L	1				SW-846:6010B	GELC	
C5	7	9	02/20/08	0.193	0.363	0.263	9	Sandia Canyon	Intermediate	R-12	459	11/12/09		F	CS	GENINORG	Perchlorate	ClO4	0.351	1.33	LANL Int BG LVL	0.05	3.5	0.05	ug/L	1				SW-846:6850	GELC	
C5	8	9	02/20/08	33.1	59.8	45.5	8	Sandia Canyon	Intermediate	R-12	459	11/12/09		F	CS	METALS	Boron	B	44.3	0.97	LANL Int BG LVL	15.12	1.5	15	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	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	9	02/20/08	126	288	173	9	Sandia Canyon	Intermediate	R-12	459	11/12/09		F	CS	METALS	Manganese	Mn	161	0.93	LANL Int BG LVL	2	40.3	2	ug/L	1				SW-846:6010B	GELC	
C5	8	9	02/21/08	0.943	1.16	1.08	9	Sandia Canyon	Intermediate	R-12	504.5	11/12/09		F	CS	GENINORG	Perchlorate	ClO4	1	0.93	LANL Int BG LVL	0.05	10.0	0.1	ug/L	2				SW-846:6850	GELC	
C5	8	10	02/21/08	36	45.9	42.4	9	Sandia Canyon	Intermediate	R-12	504.5	11/12/09		F	CS	METALS	Manganese	Mn	37.7	0.89	LANL Int BG LVL	2	9.4	2	ug/L	1				SW-846:6010B	GELC	
C5	10	11	08/30/07	299	340	324	11	Sandia Canyon	Regional	R-35a	1013.1	11/04/09		F	CS	METALS	Barium	Ba	334	1.03	LANL Reg BG LVL	56.83	2.9	1	ug/L	1				SW-846:6010B	GELC	
C5	10	11	08/30/07	1.2	16.9	4.6	10	Sandia Canyon	Regional	R-35a	1013.1	11/04/09		F	CS	METALS	Nickel	Ni	16.9	3.67	LANL Reg BG LVL	3.09	2.7	0.5	ug/L	1				SW-846:6020	GELC	highest nickel in several wells suggests analytical problem
C5	10	13	08/30/07	2.3	185	14.6	11	Sandia Canyon	Regional	R-35a	1013.1	11/04/09		F	CS	METALS	Zinc	Zn	12.4	0.85	LANL Reg BG LVL	3.89	1.6	3.3	ug/L	1				SW-846:6010B	GELC	
C5	7	9	05/12/08	1.51	1.74	1.67	9	Sandia Canyon	Regional	R-36	766.9	11/04/09	FD	F	CS	GENINORG	Perchlorate	ClO4	1.67	1.00	LANL Reg BG LVL	0.46	1.8	0.1	ug/L	2				SW-846:6850	GELC	
C5	7	9	05/12/08	1.51	1.74	1.67	9	Sandia Canyon	Regional	R-36	766.9	11/04/09		F	CS	GENINORG	Perchlorate	ClO4	1.7	1.02	LANL Reg BG LVL	0.46	1.9	0.1	ug/L	2				SW-846:6850	GELC	
C5	7	9	05/12/08	2.22	2.46	2.3	9	Sandia Canyon	Regional	R-36	766.9	11/04/09	FD	F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.25	0.98	LANL Reg BG LVL	0.89	1.3	0.05	mg/L	5		J	I4a	EPA:353.2	GELC	
C5	7	9	05/12/08	2.22	2.46	2.3	9	Sandia Canyon	Regional	R-36	766.9	11/04/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.27	0.99	LANL Reg BG LVL	0.89	1.3	0.05	mg/L	5		J	I4a	EPA:353.2	GELC	
C5	7	9	05/12/08	58.9	75.3	68.6	9	Sandia Canyon	Regional	R-36	766.9	11/04/09	FD	F	CS	METALS	Zinc	Zn	66.9	0.98	LANL Reg BG LVL	3.89	8.6	3.3	ug/L	1				SW-846:6010B	GELC	
C5	7	9	05/12/08	58.9	75.3	68.6	9	Sandia Canyon	Regional	R-36	766.9	11/04/09		F	CS	METALS	Zinc	Zn	68.6	1.00	LANL Reg BG LVL	3.89	8.8	3.3	ug/L	1				SW-846:6010B	GELC	
C5	18	23	06/14/05	0.421	4.15	2.3	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-3	2	11/05/09		F	CS	GENINORG	Perchlorate	ClO4	0.808	0.35	LANL Avl BG LVL	0.05	8.1	0.05	ug/L	1				SW-846:6850	GELC	
C5	22	28	04/21/05	4.71	44.3	17.1	28	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-4B	8.9	11/09/09		F	CS	GENINORG	Perchlorate	ClO4	6.05	0.35	LANL Avl BG LVL	0.05	60.5	0.5	ug/L	10				SW-846:6850	GELC	
C5	31	40	05/24/01	0.629	1.07	0.891	39	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-4B	8.9	11/09/09		F	CS	GENINORG	Fluoride	F(-1)	0.631	0.71	LANL Avl BG LVL	0.27	1.2	0.033	mg/L	1				EPA:300.0	GELC	
C5	29	35	05/24/01	0.02	0.413	0.14	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-4B	8.9	11/09/09		F	CS	GENINORG	Ammonia as Nitrogen	NH3-N	0.142	1.01	LANL Avl BG LVL	0.04	1.8	0.016	mg/L	1		J	I4a	EPA:350.1	GELC	
C5	23	28	04/27/05	6.34	31.7	22.15	28	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/10/09		F	CS	GENINORG	Perchlorate	ClO4	7.82	0.35	LANL Avl BG LVL	0.05	78.2	0.5	ug/L	10				SW-846:6850	GELC	
C5	44	52	02/24/00	0.77	1.51	1.09	52	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/10/09		F	CS	GENINORG	Fluoride	F(-1)	0.77	0.71	LANL Avl BG LVL	0.27	1.4	0.033	mg/L	1				EPA:300.0	GELC	
C5	22	27	04/28/05	9.97	47.5	26.9	27	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/10/09		F	CS	GENINORG	Perchlorate	ClO4	11.7	0.43	LANL Avl BG LVL	0.05	117.0	1	ug/L	20				SW-846:6850	GELC	
C5	45	54	02/24/00	0.932	2.13	1.34	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/10/09		F	CS	GENINORG	Fluoride	F(-1)	0.932	0.70	LANL Avl BG LVL	0.27	1.7	0.033	mg/L	1				EPA:300.0	GELC	
C5	45	55	02/24/00	1.11	12.5	3.4	54	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/10/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.49	0.44	LANL Avl BG LVL	0.57	1.3	0.05	mg/L	5				EPA:353.2	GELC	
C5	19	21	08/07/01	0.04	0.416	0.292	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/10/09		F	CS	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.32	1.10	LANL Avl BG LVL	0.05	3.2	0.015	mg/L	1				EPA:365.4	GELC	
C5	16	16	06/23/05	0.291	0.606	0.402	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	11/05/09		F	CS	GENINORG	Bromide	Br(-1)	0.399	0.99	LANL Int BG LVL	0.03	6.7	0.066	mg/L	1				EPA:300.0	GELC	
C5	16	16	06/23/05	18.4	21	19.4	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	11/05/09		F	CS	GENINORG	Chloride	Cl(-1)	19.1	0.98	LANL Int BG LVL	7.78	1.2	0.13	mg/L	2				EPA:300.0	GELC	
C5	16	16	06/23/05	61.1	166	113.5	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	11/05/09		F	CS	GENINORG	Perchlorate	ClO4	61.1	0.54	LANL Int BG LVL	0.05	611.0	5	ug/L	100				SW-846:6850	GELC	
C5	16	16	06/23/05	8.88	17.7	12.9	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	11/05/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	8.88	0.69	LANL Int BG LVL	2.41	1.8	0.1	mg/L	10				EPA:353.2	GELC	lowest value
C5	16	16	06/23/05	2.2	5.1	3	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	11/05/09		F	CS	METALS	Nickel	Ni	3.53	1.18	LANL Int BG LVL	1	1.8	0.5	ug/L	1				SW-846:6020	GELC	

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C5	16	16	06/23/05	5.3	369	39.1	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-4	499	11/05/09		F	CS	METALS	Zinc	Zn	170	4.35	LANL Int BG LVL	2	42.5	3.3	ug/L	1				SW-846:6010B	GELC	
C5	17	19	06/09/05	68.7	132	94.9	19	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689	11/03/09		F	CS	GENINORG	Perchlorate	ClO4	88.3	0.93	LANL Int BG LVL	0.05	883.0	13	ug/L	250				SW-846:6850	GELC	
C5	17	26	06/15/05	0.212	0.644	0.346	24	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09	FD	F	CS	GENINORG	Bromide	Br(-1)	0.644	1.86	LANL Int BG LVL	0.03	10.7	0.066	mg/L	1				EPA:300.0	GELC	
C5	17	26	06/15/05	0.212	0.644	0.346	24	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09		F	CS	GENINORG	Bromide	Br(-1)	0.633	1.83	LANL Int BG LVL	0.03	10.6	0.066	mg/L	1				EPA:300.0	GELC	
C5	17	26	06/15/05	42.8	68.4	49.5	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09		F	CS	GENINORG	Calcium	Ca	66.6	1.35	LANL Int BG LVL	17.31	1.9	0.05	mg/L	1				SW-846:6010B	GELC	
C5	17	26	06/15/05	42.8	68.4	49.5	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09	FD	F	CS	GENINORG	Calcium	Ca	67.6	1.37	LANL Int BG LVL	17.31	2.0	0.05	mg/L	1				SW-846:6010B	GELC	
C5	17	26	06/15/05	21.2	48.3	24.1	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09	FD	F	CS	GENINORG	Chloride	Cl(-1)	47.4	1.97	LANL Int BG LVL	7.78	3.1	0.33	mg/L	5				EPA:300.0	GELC	
C5	17	26	06/15/05	21.2	48.3	24.1	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09		F	CS	GENINORG	Chloride	Cl(-1)	48.3	2.00	LANL Int BG LVL	7.78	3.1	0.33	mg/L	5				EPA:300.0	GELC	
C5	17	26	06/15/05	88.2	246	165.5	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09	FD	F	CS	GENINORG	Perchlorate	ClO4	88.2	0.53	LANL Int BG LVL	0.05	882.0	10	ug/L	200				SW-846:6850	GELC	
C5	17	26	06/15/05	88.2	246	165.5	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09		F	CS	GENINORG	Perchlorate	ClO4	90.5	0.55	LANL Int BG LVL	0.05	905.0	10	ug/L	200				SW-846:6850	GELC	
C5	17	26	06/15/05	8.49	13.8	10.15	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09		F	CS	GENINORG	Magnesium	Mg	13.4	1.32	LANL Int BG LVL	6.12	1.1	0.085	mg/L	1				SW-846:6010B	GELC	
C5	17	26	06/15/05	8.49	13.8	10.15	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09	FD	F	CS	GENINORG	Magnesium	Mg	13.6	1.34	LANL Int BG LVL	6.12	1.1	0.085	mg/L	1				SW-846:6010B	GELC	
C5	17	27	06/15/05	11	20.4	17	27	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09	FD	F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	11	0.65	LANL Int BG LVL	2.41	2.3	0.25	mg/L	25		J	I4a	EPA:353.2	GELC	lowest values; estimated
C5	17	27	06/15/05	11	20.4	17	27	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	11.2	0.66	LANL Int BG LVL	2.41	2.3	0.25	mg/L	25		J	I4a	EPA:353.2	GELC	lowest values; estimated
C5	17	34	06/15/05	298	458	369	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09		F	CS	GENINORG	Total Dissolved Solids	TDS	440	1.19	LANL Int BG LVL	127	1.7	2.4	mg/L	1				EPA:160.1	GELC	
C5	17	34	06/15/05	298	458	369	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09	FD	F	CS	GENINORG	Total Dissolved Solids	TDS	426	1.15	LANL Int BG LVL	127	1.7	2.4	mg/L	1				EPA:160.1	GELC	
C5	5	6	03/11/09	1.09	7.67	4.54	6	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	11/13/09		UF	CS	GENINORG	Total Organic Carbon	TOC	3.01	0.66	LANL Reg BG LVL	0.33	4.6	0.33	mg/L	1				SW-846:9060	GELC	
C5	17	26	06/15/05	25.4	40.8	32	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09	FD	F	CS	METALS	Boron	B	30.5	0.95	LANL Int BG LVL	15.12	1.0	15	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	17	29	06/15/05	29.4	58.2	41.5	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09	FD	F	CS	METALS	Chromium	Cr	51.8	1.25	LANL Int BG LVL	1	25.9	2.5	ug/L	1				SW-846:6020	GELC	
C5	17	29	06/15/05	29.4	58.2	41.5	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09		F	CS	METALS	Chromium	Cr	51.5	1.24	LANL Int BG LVL	1	25.8	2.5	ug/L	1				SW-846:6020	GELC	
C5	17	26	06/15/05	2.9	17.3	5.7	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09	FD	F	CS	METALS	Nickel	Ni	17.3	3.04	LANL Int BG LVL	1	8.7	0.5	ug/L	1				SW-846:6020	GELC	highest nickel in several wells suggests analytical problem
C5	17	26	06/15/05	2.9	17.3	5.7	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09		F	CS	METALS	Nickel	Ni	16.7	2.93	LANL Int BG LVL	1	8.4	0.5	ug/L	1				SW-846:6020	GELC	highest nickel in several wells suggests analytical problem
C5	5	6	03/11/09	2.41	5.29	4.06	3	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	11/13/09		F	CS	METALS	Antimony	Sb	4.06	1.00	LANL Reg BG LVL	1	2.0	0.5	ug/L	1				SW-846:6020	GELC	
C5	17	26	06/15/05	23.7	288	54.7	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09	FD	F	CS	METALS	Zinc	Zn	23.7	0.43	LANL Int BG LVL	2	5.9	3.3	ug/L	1				SW-846:6010B	GELC	

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C5	17	26	06/15/05	23.7	288	54.7	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09		F	CS	METALS	Zinc	Zn	23.8	0.44	LANL Int BG LVL	2	6.0	3.3	ug/L	1				SW-846:6010B	GELC	
C5	18	24	05/19/05	0.64	9.5	1.65	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-1	1031.1	11/16/09		F	CS	METALS	Nickel	Ni	9.5	5.76	LANL Reg BG LVL	3.09	1.5	0.5	ug/L	1				SW-846:6020	GELC	highest nickel in several wells suggests analytical problem
C5	17	22	05/25/05	5.34	7.38	6.52	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/05/09		F	CS	GENINORG	Perchlorate	ClO4	6.9	1.06	LANL Reg BG LVL	0.46	7.5	0.5	ug/L	10				SW-846:6850	GELC	
C5	17	22	05/25/05	5.34	7.38	6.52	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/05/09	FD	F	CS	GENINORG	Perchlorate	ClO4	6.54	1.00	LANL Reg BG LVL	0.46	7.1	0.5	ug/L	10				SW-846:6850	GELC	
C5	21	26	02/24/00	1.89	3.31	2.26	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/05/09	FD	F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.35	1.04	LANL Reg BG LVL	0.89	1.3	0.05	mg/L	5				EPA:353.2	GELC	
C5	21	26	02/24/00	1.89	3.31	2.26	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/05/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.16	0.96	LANL Reg BG LVL	0.89	1.2	0.05	mg/L	5				EPA:353.2	GELC	
C5	6	7	10/09/08	28.7	33.2	31.9	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/05/09		F	CS	GENINORG	Chloride	Cl(-1)	33.2	1.04	LANL Reg BG LVL	3.57	4.7	0.66	mg/L	10				EPA:300.0	GELC	
C5	6	7	10/09/08	1.18	1.35	1.28	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/05/09		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	6	7	10/09/08	11.1	12.9	12.5	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/05/09		F	CS	GENINORG	Magnesium	Mg	12.8	1.02	LANL Reg BG LVL	4.15	1.5	0.085	mg/L	1				SW-846:6010B	GELC	
C5	6	7	10/09/08	5.83	7.03	6.03	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/05/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6.3	1.04	LANL Reg BG LVL	0.89	3.5	0.05	mg/L	5				EPA:353.2	GELC	
C5	6	7	10/09/08	60.6	65.1	61.4	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/05/09		F	CS	GENINORG	Sulfate	SO4(-2)	65.1	1.06	LANL Reg BG LVL	7.2	4.5	1	mg/L	10				EPA:300.0	GELC	
C5	6	7	10/09/08	1.06	2.84	1.74	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/05/09		UF	CS	GENINORG	Total Organic Carbon	TOC	1.58	0.91	LANL Reg BG LVL	0.33	2.4	0.33	mg/L	1				SW-846:9060	GELC	
C5	6	16	10/09/08	744	1000	840	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/05/09		F	CS	METALS	Chromium	Cr	885	1.05	LANL Reg BG LVL	5.75	77.0	2.5	ug/L	1				SW-846:6020	GELC	
C5	6	16	10/09/08	744	1000	840	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/05/09		F	CS	METALS	Chromium	Cr	961	1.14	LANL Reg BG LVL	5.75	83.6	5	ug/L	2				SW-846:6020	GELC	
C5	6	7	10/09/08	8.8	17.1	9.9	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/05/09		F	CS	METALS	Nickel	Ni	17.1	1.73	LANL Reg BG LVL	3.09	2.8	0.5	ug/L	1				SW-846:6020	GELC	highest nickel in several wells suggests analytical problem
C5	6	7	10/09/08	7.7	28.1	21.7	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/05/09		F	CS	METALS	Zinc	Zn	23.3	1.07	LANL Reg BG LVL	3.89	3.0	3.3	ug/L	1				SW-846:6010B	GELC	
C5	20	23	05/20/05	21.1	31.7	28.1	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/05/09		F	CS	GENINORG	Chloride	Cl(-1)	29.4	1.05	LANL Reg BG LVL	3.57	4.1	0.66	mg/L	10				EPA:300.0	GELC	
C5	20	23	05/20/05	8.68	11.3	10.1	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/05/09		F	CS	GENINORG	Magnesium	Mg	10.7	1.06	LANL Reg BG LVL	4.15	1.3	0.085	mg/L	1				SW-846:6010B	GELC	
C5	18	20	05/20/05	3.1	5.39	4.28	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/05/09		F	CS	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.17	0.97	LANL Reg BG LVL	0.89	2.3	0.05	mg/L	5				EPA:353.2	GELC	
C5	20	23	05/20/05	38.1	46.3	42.5	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/05/09		F	CS	GENINORG	Sulfate	SO4(-2)	44.6	1.05	LANL Reg BG LVL	7.2	3.1	1	mg/L	10				EPA:300.0	GELC	
C5	21	25	05/20/05	310	468	392	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/05/09		F	CS	METALS	Chromium	Cr	358	0.91	LANL Reg BG LVL	5.75	31.1	2.5	ug/L	1				SW-846:6020	GELC	
C5	20	23	05/20/05	6.1	21.1	10.5	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/05/09		F	CS	METALS	Nickel	Ni	21.1	2.01	LANL Reg BG LVL	3.09	3.4	0.5	ug/L	1				SW-846:6020	GELC	highest nickel in several wells suggests analytical problem
C5	4	7	02/28/09	8.4	17.4	13.3	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45	880	11/16/09		F	CS	METALS	Chromium	Cr	15.7	1.18	LANL Reg BG LVL	5.75	1.4	2.5	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	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C5	4	7	02/28/09	8.4	17.4	13.3	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45	880	11/16/09		F	CS	METALS	Chromium	Cr	17.4	1.31	LANL Reg BG LVL	5.75	1.5	2.5	ug/L	1				SW-846:6020	GELC	
C5	4	4	02/28/09	2.8	63.2	32.6	4	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45	880	11/16/09		F	CS	METALS	Zinc	Zn	24.3	0.75	LANL Reg BG LVL	3.89	3.1	3.3	ug/L	1				SW-846:6010B	GELC	
C5	3	3	07/13/09	13.1	115	30.4	3	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-37	929.3	11/18/09		F	CS	METALS	Zinc	Zn	13.1	0.43	LANL Reg BG LVL	3.89	1.7	3.3	ug/L	1				SW-846:6010B	GELC	
C5	7	7	05/26/04	0.292	0.372	0.349	7	White Rock Canyon and Rio Grande	Water Supply	J. Martinez House Well	-1	09/21/09		UF	CS	GENINORG	Perchlorate	ClO4	0.35	1.00	LANL Reg BG LVL	0.05	3.5	0.05	ug/L	1				SW-846:6850	GELC	
C6	17	19	06/09/05	68.7	132	94.9	19	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689	11/03/09		F	CS	GENINORG	Perchlorate	ClO4	88.3	0.93	NM GW CONS	4	44.2	13	ug/L	250				SW-846:6850	GELC	
CA	40	56	07/17/00	144	1290	307	54	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-3	2	11/05/09		F	CS	GENINORG	Total Dissolved Solids	TDS	1290	4.20	NM GW STD	1000	1.3	2.4	mg/L	1				EPA:160.1	GELC	reanalysis gave 296 mg/L
CA	17	29	06/15/05	29.4	58.2	41.5	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09	FD	F	CS	METALS	Chromium	Cr	51.8	1.25	NM GW STD	50	1.0	2.5	ug/L	1				SW-846:6020	GELC	previously above std in 2006
CA	17	29	06/15/05	29.4	58.2	41.5	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/09		F	CS	METALS	Chromium	Cr	51.5	1.24	NM GW STD	50	1.0	2.5	ug/L	1				SW-846:6020	GELC	previously above std in 2006