ESHID-600157

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JAN 22 2015
NMED
Hazardous Waste Bureau

National Nuclear Security Administration
Los Alamos Field Office, MS A316
Environmental Projects Office
Los Alamos, New Mexico 87544
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Date: JAN 22 2015
Refer To: ADESH-15-007
LAUR: 15-20191
Locates Action No.: N/A

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

Subject: Monthly Notification of Groundwater Data Reviewed in January 2015

Dear Mr. Kieling:

This letter is Los Alamos National Laboratory's (LANL's) written submission that meets notification requirements presented in Section IV.A.3.g, Notification, of the Compliance Order on Consent. Members of LANL's Environmental Programs met on January 13, 2015, to review new groundwater data received in December 2014.

This report was prepared using the November 2014 U.S. Environmental Protection Agency (EPA) Regional Screening Levels for Chemical Contaminants at Superfund Sites. EPA screening levels for 10^{-6} excess cancer risk were adjusted to 10^{-5} excess cancer risk as required by the Compliance Order on Consent.

Any data that were collected on the Pueblo de San Ildefonso and were subject to reporting at this time have been withheld pending review by Pueblo de San Ildefonso. This review is required under the Memorandum of Agreement dated May 28, 2014, between the U.S. Department of Energy, National Nuclear Security Administration, Los Alamos Field Office, and the Pueblo de San Ildefonso. Such data will be forwarded to the New Mexico Environment Department after review by Pueblo de San Ildefonso.

1-Day Notification

There were no instances of a contaminant detected at a concentration that exceeded the New Mexico Water Quality Control Commission or federal water quality standards for the first time (based on samples collected since June 14, 2007).

Notification was not required because there were no cases of a contaminant detected in a well screen interval or spring at a concentration that exceeded a water quality standard for the first time.

15-Day Notification

The required information for the contaminants and other chemical parameters that meet the seven reporting criteria requiring written notification within 15 days is given in the accompanying report and table.

If you have questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Hai Shen at (505) 665-5046 (hai.shen@nnsa.doe.gov).

Sincerely,

Michael T. Brandt, DrPH, CIH, Associate Director
Environment, Safety, and Health
Los Alamos National Laboratory

Sincerely,

Peter Maggiore, Assistant Manager
Environmental Projects Office
Los Alamos Field Office

MB/PM/DM/SP:sm

Enclosure: Two hard copies with electronic files – Summary of Groundwater Data Reviewed in January 2015 That Meet Notification Requirements

Cy: (w/enc.)
Steve Paris, ADEP-CAP, MS M992
Public Reading Room (EPRR)
ADESH Records (electronic copy)

Cy: (Letter and CD and/or DVD)
Laurie King, EPA Region 6, Dallas, TX
Steve Yanicak, NMED-DOE-OB, MS M894
Raymond Martinez, San Ildefonso Pueblo, NM
Dino Chavarria, Santa Clara Pueblo, NM
Jake Meadows, ENV-RCRA, MS K490
PRS Database

Cy: (w/o enc.)
Pete Padilla, Los Alamos County Utility Department, Los Alamos, NM
Tom Skibitski, NMED-DOE-OB, Santa Fe, NM (date-stamped letter emailed)
lasomailbox@nnsa.doe.gov
Annette Russell, DOE-NA-LA (date-stamped letter emailed)
Hai Shen, DOE-NA-LA (date-stamped letter emailed)
David Rhodes, DOE-NA-LA (date-stamped letter emailed)
Kimberly Davis Lebak, DOE-NA-LA (date-stamped letter emailed)
Mei Ding, EES-6 (date-stamped letter emailed)
David Rogers, ADEP-CAP (date-stamped letter emailed)

Craig Douglass, ADEP-CAP (date-stamped letter emailed)
Dave McInroy, ADEP-CAP (date-stamped letter emailed)
Randy Erickson, ADEP (date-stamped letter emailed)
Tony Grieggs, ADESH-ENV-CP (date-stamped letter emailed)
Alison Dorries, ADESH-ENV-DO (date-stamped letter emailed)
Michael Brandt, ADESH (date-stamped letter emailed)
Amy De Palma, PADOPS (date-stamped letter emailed)
Michael Lansing, PADOPS (date-stamped letter emailed)

SUMMARY OF GROUNDWATER DATA REVIEWED IN JANUARY 2015
THAT MEET NOTIFICATION REQUIREMENTS

INTRODUCTION

This report provides preliminary information to the New Mexico Environment Department (NMED) concerning recent groundwater monitoring data obtained by the Los Alamos National Laboratory (the Laboratory) under its interim monitoring plan and contains results for chemical constituents that meet the seven screening criteria laid out in the Compliance Order on Consent (Consent Order). The report covers groundwater samples taken from wells or springs (listed in the accompanying table) that provide surveillance of the groundwater zones indicated in the table.

The report includes one table, *Table 1: NMED 12-14 Groundwater Report*. This table contains some values that are reported when they are detected for the first time since June 14, 2007, or are greater than other data collected since that time (as specified in the Consent Order). These reported data may be similar to data gathered before June 14, 2007.

This table includes the following:

- Additional comments on results that appear to be exceptional or based on consideration of monitoring data acquired before the current result (using statistics described below)
- Supplemental information summarizing monitoring results obtained before the current result
- Sampling date, name of the well or spring, location of the well or spring, depth of the screened interval, groundwater zone sampled, analytical result, detection limit, values for regulatory standards or screening levels, and analytical and secondary validation qualifiers. Additional information describing the locations and analytical data is also included. All data have been through secondary validation.

In accordance with the Consent Order, the screening levels used include the U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs), the New Mexico groundwater standards, and the EPA regional screening levels for tap water (for compounds having no other regulatory standard). The EPA regional screening levels for tap water are either for cancer (10^{-6} excess risk) or noncancer risk values. The data were screened using 10 times the EPA's 10^{-6} excess cancer risk values, to achieve 10^{-5} excess cancer risk as indicated in Section VIII.A.1 of the Consent Order.

Background levels applied in Criteria 2 and 5 are the most recent NMED-approved 95% upper tolerance limits for background for each groundwater zone as set forth in the "Groundwater Background Investigation Report," prepared under Section IV.A.3.d of the Consent Order.

DESCRIPTION OF TABLE

The table is divided into separate categories that correspond to the seven screening criteria in the Consent Order. Some data meet more than one of the criteria and appear in the table multiple times. The table also presents only the instances where the results exceed criteria; therefore, all seven criteria may not appear in the table.

The criteria are as follows:

CA. The Respondents shall notify the Department orally within one business day after review of the analytical data if such data show detection of a contaminant in a well screen interval or spring at a concentration that exceeds either the NMWQCC water quality standard or the federal MCL if that contaminant has not previously exceeded such water quality standard or maximum contaminant level in such well screen interval or spring.

C1. Detection of a contaminant that is an organic compound in a spring or screened interval of a well if that contaminant has not previously been detected in the spring or screened interval.

C2. Detection of a contaminant that is a metal or other inorganic compound at a concentration above the background level in a spring or screened interval of a well if that contaminant has not previously exceeded the background level in the spring or screened interval.

C3. Detection of a contaminant in a spring or screened interval of a well at a concentration that exceeds either one-half the New Mexico water quality standard or one-half the federal maximum contaminant level, or if there is no such standard for the contaminant, one-half the EPA Region 6 human health medium-specific screening level for tap water (now the EPA Regional Screening Levels for tap water), if that contaminant has not previously exceeded one-half such standard or screening level in the spring or screened interval.

C4. Detection of perchlorate in a spring or screened interval of a well at a concentration of 2 µg/L or greater if perchlorate at such concentration has not previously been detected in the spring or screened interval.

C5. Detection of a contaminant that is a metal or other inorganic compound in a spring or screened interval of a well at a concentration that exceeds 2 times the background level for the third consecutive sampling of the spring or screened interval.

C6. Detection of a contaminant in a spring or screened interval of a well at a concentration that exceeds either one-half the New Mexico water quality standard or one-half the federal MCL, and that has increased for the third consecutive sampling of that spring or screened interval.

The next seven columns of the table give information on monitoring results obtained prior to the current result. The columns provide summary statistics for the samples collected since January 1, 2000, for the same analyte and field preparation (for example, filtered samples). The information includes the date of the first sampling event included in the statistics, the numbers of sampling events and samples analyzed, the number of detections, and the minimum, maximum, and median concentration for detections. This information indicates whether the new result is consistent with the range of earlier data.

The subsequent columns contain location and sampling information:

Hdr 1—canyon where monitoring location is found

Zone—groundwater zone sampled by monitoring location (such as alluvial spring)

Location—monitoring location name

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

Start Date—sample date

Fld QC Type Code—identifies regular samples (REG) or field duplicates (FD)

Fld Prep Code—identifies whether samples are filtered or unfiltered

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

Anyl Suite Code—analytical suite (such as volatile organic compounds) for analyzed compound

Analyte Desc—name of analyte

Analyte—chemical symbol for analyte or CAS (Chemical Abstracts Service) number for organic compounds

Std Result—analytical result in standard measurement units

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

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

Screen Level—value of the LVL Type/Risk Code

Exceedance Ratio—ratio of Std Result to LVL Type/Risk Code. In earlier versions of this report, the ratio was divided by the basis for comparison in the criterion, but that is no longer the case. For example, for a criterion (such as C3) that compares the value to one-half the standard, a value equal to a standard previously had an exceedance ratio of 2. The current report shows this ratio as 1.

Std Mdl—method detection limit in standard measurement units

Std Uom—standard units of measurement

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

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

Concat Flag Code—secondary validation qualifier

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

Anyl Meth Code—analytical method number

Lab Code—analytical laboratory name

Comment—comment on the analytical result

Table 1: NMED 12-14 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	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	32	47	09/24/02	0.0377	0.0377	0.0377	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-23	816	10/17/14	REG	UF	RE	SVOC	Benzo(k)fluoranthene	207-08-9	0.0377	1	EPA TAP SCRN LVL	3.4	0	0.007	ug/L	1		J-	SV9a	SW-846:8310	GELC	Reanalysis higher than original of 0.00771 ug/L, result is beyond holding time
C2	18	18	02/28/09	4.1	7.6	5.42	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	11/05/14	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	7.6	1.4	LANL Reg BG LVL	7.2	1.1	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	steadily increasing
C2	20	21	03/11/10	0.0192	0.345	0.0557	10	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S2	1185	11/13/14	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.345	6.2	LANL Reg BG LVL	0.16	2.2	0.017	mg/L	1		NQ	NQ	EPA:365.4	GELC	
C2	25	35	10/21/08	3.4	3.4	3.4	1	Sandia Canyon	Intermediate	SCI-2	548	11/12/14	REG	F	INIT	METALS	Tin	Sn	3.4	1	LANL Int BG LVL	3.26	1	2.5	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	35	41	02/24/00	1.35	3.31	2.21	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/10/14	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.1	1	LANL Reg BG LVL	0.89	2.4	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	31	37	05/25/05	5.34	8.42	6.97	37	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/10/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	8.03	1.2	LANL Reg BG LVL	0.46	17.5	1	ug/L	20		NQ	NQ	SW-846:6850	GELC	
C5	23	25	10/09/08	0.102	0.364	0.206	24	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/14/14	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.285	1.4	LANL Reg BG LVL	0.1	2.8	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	23	25	10/09/08	40.6	56.5	50.7	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/14/14	REG	F	INIT	GENINORG	Calcium	Ca	54.6	1.1	LANL Reg BG LVL	24.88	2.2	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	23	25	10/09/08	28.7	48.3	37.8	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/14/14	REG	F	INIT	GENINORG	Chloride	Cl(-1)	48.3	1.3	LANL Reg BG LVL	3.57	13.5	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	steadily increasing
C5	23	34	10/09/08	744	1240	901	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/14/14	REG	F	INIT	METALS	Chromium	Cr	908	1	LANL Reg BG LVL	5.75	157.9	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	23	25	10/09/08	11.1	15.7	13.8	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/14/14	REG	F	INIT	GENINORG	Magnesium	Mg	15	1.1	LANL Reg BG LVL	4.15	3.6	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	23	25	10/09/08	8.8	29.6	23.4	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/14/14	REG	F	INIT	METALS	Nickel	Ni	26.7	1.1	LANL Reg BG LVL	3.09	8.6	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	23	25	10/09/08	0.057	7.03	5.98	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/14/14	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.45	0.9	LANL Reg BG LVL	0.89	6.1	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	23	25	10/09/08	1.08	1.46	1.28	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/14/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.3	1	LANL Reg BG LVL	0.46	2.8	0.1	ug/L	2		J	PE12e	SW-846:6850	GELC	
C5	23	25	10/09/08	60.6	83.2	73.4	25	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/14/14	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	83.2	1.1	LANL Reg BG LVL	7.2	11.6	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	steadily increasing
C5	36	39	05/20/05	0.113	0.33	0.222	36	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/13/14	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.311	1.4	LANL Reg BG LVL	0.1	3.1	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	36	39	05/20/05	21.1	39.3	29.5	39	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/13/14	REG	F	INIT	GENINORG	Chloride	Cl(-1)	39.3	1.3	LANL Reg BG LVL	3.57	11	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	steadily increasing
C5	37	41	05/20/05	310	472	397	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/13/14	REG	F	INIT	METALS	Chromium	Cr	421	1.1	LANL Reg BG LVL	5.75	73.2	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	36	39	05/20/05	8.68	12.1	10.7	39	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/13/14	REG	F	INIT	GENINORG	Magnesium	Mg	12	1.1	LANL Reg BG LVL	4.15	2.9	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	36	39	05/20/05	6.1	34	14.6	37	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/13/14	REG	F	INIT	METALS	Nickel	Ni	12	0.8	LANL Reg BG LVL	3.09	3.9	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	34	36	05/20/05	3.1	5.39	4.075	36	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/13/14	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.3	1.1	LANL Reg BG LVL	0.89	4.8	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	34	36	09/01/05	0.802	1.13	0.9765	36	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/13/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.04	1.1	LANL Reg BG LVL	0.46	2.3	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	36	39	05/20/05	38.1	56.4	43.3	39	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/13/14	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	56.4	1.3	LANL Reg BG LVL	7.2	7.8	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	steadily increasing
C5	18	22	02/28/09	8.4	33.6	17.45	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	11/05/14	REG	F	INIT	METALS	Chromium	Cr	33.6	1.9	LANL Reg BG LVL	5.75	5.8	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	steadily increasing
C5	18	18	02/28/09	0.256	2.88	2.225	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	11/05/14	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.86	1.3	LANL Reg BG LVL	0.89	3.2	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	18	23	03/05/09	6.1	16.6	9.03	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S2	974.9	11/05/14	REG	F	INIT	METALS	Chromium	Cr	16.6	1.8	LANL Reg BG LVL	5.75	2.9	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	steadily increasing
C5	20	26	03/06/10	49.8	126	84.25	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/14/14	REG	F	INIT	METALS	Chromium	Cr	84.6	1	LANL Reg BG LVL	5.75	14.7	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	20	24	02/17/09	7.34	18.7	13.45	24	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-44 S1	895	11/05/14	REG	F	INIT	METALS	Chromium	Cr	15.6	1.2	LANL Reg BG LVL	5.75	2.7	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	15	22	02/06/09	4.9	69	10.2	21	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-38	821.2	10/28/14	REG	F	INIT	METALS	Zinc	Zn	13.3	1.3	LANL Reg BG LVL	3.89	3.4	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	52	60	03/12/01	0.11	1.51	1.05	60	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/21/14	FD	F	INIT	GENINORG	Fluoride	F(-1)	0.826	0.8	LANL Avl BG LVL	0.27	3.1	0.33	mg/L	10	J	J	J_LAB	EPA:300.0	GELC	
C5	52	60	03/12/01	0.11	1.51	1.05	60	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/21/14	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.11	0.1	LANL Avl BG LVL	0.27	0.4	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	36	42	04/27/05	3.23	31.7	15.7	42	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/21/14	FD	F	INIT	GENINORG	Perchlorate	ClO4	9.85	0.6	LANL Avl BG LVL	0.05	197	1	ug/L	20		NQ	NQ	SW-846:6850	GELC	
C5	36	42	04/27/05	3.23	31.7	15.7	42	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/21/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	9.45	0.6	LANL Avl BG LVL	0.05	189	1	ug/L	20		NQ	NQ	SW-846:6850	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen 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	53	61	03/12/01	241	601	312	61	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/21/14	FD	F	INIT	GENINORG	Total Dissolved Solids	TDS	474	1.5	LANL Avl BG LVL	139	3.4	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	53	61	03/12/01	241	601	312	61	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/21/14	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	466	1.5	LANL Avl BG LVL	139	3.4	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	33	40	03/12/01	0.014	0.49	0.1845	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/21/14	FD	F	INIT	GENINORG	Total Kjeldahl Nitrogen	TKN	0.0727	0.4	LANL Avl BG LVL	0.04	1.8	0.033	mg/L	1	J	J	J_LAB	EPA:351.2	GELC	
C5	33	40	03/12/01	0.014	0.49	0.1845	30	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/21/14	REG	F	INIT	GENINORG	Total Kjeldahl Nitrogen	TKN	0.1	0.5	LANL Avl BG LVL	0.04	2.5	0.033	mg/L	1		NQ	NQ	EPA:351.2	GELC	
C5	56	63	03/12/01	0.726	1.79	1.28	62	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/24/14	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.973	0.8	LANL Avl BG LVL	0.27	3.6	0.33	mg/L	10	J	J	J_LAB	EPA:300.0	GELC	
C5	55	63	03/12/01	0.685	10.9	2.075	62	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/24/14	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.54	0.7	LANL Avl BG LVL	0.57	2.7	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	38	43	04/28/05	6.23	47.5	12	43	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/24/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	11.9	1	LANL Avl BG LVL	0.05	238	1	ug/L	20		NQ	NQ	SW-846:6850	GELC	just below result of 12 ug/L on 7/14 and 5/14- highest since 2008
C5	56	63	03/12/01	220	556	307	63	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/24/14	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	399	1.3	LANL Avl BG LVL	139	2.9	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	7/14 result of 556 mg/L was highest since 2000; dry from 8/12 to 11/13; large increase in TDS since 1/14
C5	36	43	03/12/01	0.051	1.74	0.22	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/24/14	REG	F	INIT	GENINORG	Total Kjeldahl Nitrogen	TKN	0.0969	0.4	LANL Avl BG LVL	0.04	2.4	0.033	mg/L	1	J	J	J_LAB	EPA:351.2	GELC	
C5	27	28	01/11/07	72.8	99.4	85.8	27	Sandia Canyon	Intermediate	SCI-1	358.4	11/12/14	REG	F	INIT	METALS	Boron	B	75.8	0.9	LANL Int BG LVL	15.12	5	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	27	28	01/11/07	54.5	87.6	70.85	28	Sandia Canyon	Intermediate	SCI-1	358.4	11/12/14	REG	F	INIT	GENINORG	Calcium	Ca	58.4	0.8	LANL Int BG LVL	17.31	3.4	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	27	28	01/11/07	80.5	124	91.75	28	Sandia Canyon	Intermediate	SCI-1	358.4	11/12/14	REG	F	INIT	GENINORG	Chloride	Cl(-1)	120	1.3	LANL Int BG LVL	7.78	15.4	1.34	mg/L	20		NQ	NQ	EPA:300.0	GELC	
C5	27	30	01/11/07	8.67	22.1	13.1	30	Sandia Canyon	Intermediate	SCI-1	358.4	11/12/14	REG	F	INIT	METALS	Chromium	Cr	10.2	0.8	LANL Int BG LVL	1	10.2	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	27	28	01/11/07	44.9	97	75.8	28	Sandia Canyon	Intermediate	SCI-1	358.4	11/12/14	REG	F	INIT	METALS	Molybdenum	Mo	79.6	1.1	LANL Int BG LVL	2	39.8	0.165	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	27	28	01/11/07	4.02	8.1	5.395	28	Sandia Canyon	Intermediate	SCI-1	358.4	11/12/14	REG	F	INIT	METALS	Nickel	Ni	5.09	0.9	LANL Int BG LVL	1	5.1	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	27	28	01/11/07	0.613	1.58	0.9705	28	Sandia Canyon	Intermediate	SCI-1	358.4	11/12/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.667	0.7	LANL Int BG LVL	0.05	13.3	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	27	28	01/11/07	50.7	65.1	55.4	28	Sandia Canyon	Intermediate	SCI-1	358.4	11/12/14	REG	F	INIT	GENINORG	Sodium	Na	56.9	1	LANL Int BG LVL	12.19	4.7	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	27	28	01/11/07	357	536	484.5	28	Sandia Canyon	Intermediate	SCI-1	358.4	11/12/14	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	459	0.9	LANL Int BG LVL	127	3.6	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	27	28	01/11/07	0.404	1.45	0.858	27	Sandia Canyon	Intermediate	SCI-1	358.4	11/12/14	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.889	1	LANL Int BG LVL	0.08	11.1	0.017	mg/L	1		NQ	NQ	EPA:365.4	GELC	
C5	27	28	01/11/07	1.7	3.09	2.415	28	Sandia Canyon	Intermediate	SCI-1	358.4	11/12/14	REG	F	INIT	RAD	Uranium	U	1.84	0.8	LANL Int BG LVL	0.72	2.6	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	25	35	10/21/08	59.5	73.6	66.8	35	Sandia Canyon	Intermediate	SCI-2	548	11/12/14	REG	F	INIT	GENINORG	Calcium	Ca	67	1	LANL Int BG LVL	17.31	3.9	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	25	33	10/21/08	53.4	71.9	60.2	33	Sandia Canyon	Intermediate	SCI-2	548	11/12/14	REG	F	INIT	GENINORG	Chloride	Cl(-1)	71.9	1.2	LANL Int BG LVL	7.78	9.2	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	steadily increasing
C5	25	40	10/21/08	368	658	503	40	Sandia Canyon	Intermediate	SCI-2	548	11/12/14	REG	F	INIT	METALS	Chromium	Cr	416	0.8	LANL Int BG LVL	1	416	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	25	35	10/21/08	13.1	17.3	15.5	35	Sandia Canyon	Intermediate	SCI-2	548	11/12/14	REG	F	INIT	GENINORG	Magnesium	Mg	15.6	1	LANL Int BG LVL	6.12	2.5	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	25	35	10/21/08	14.5	19.3	16.9	35	Sandia Canyon	Intermediate	SCI-2	548	11/12/14	REG	F	INIT	METALS	Nickel	Ni	15.6	0.9	LANL Int BG LVL	1	15.6	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	25	33	10/21/08	0.918	1.12	0.991	33	Sandia Canyon	Intermediate	SCI-2	548	11/12/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.962	1	LANL Int BG LVL	0.05	19.2	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	25	35	10/21/08	278	350	325	35	Sandia Canyon	Intermediate	SCI-2	548	11/12/14	REG	F	INIT	METALS	Strontium	Sr	325	1	LANL Int BG LVL	154.8	2.1	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	25	33	10/21/08	77.9	103	88	33	Sandia Canyon	Intermediate	SCI-2	548	11/12/14	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	95.2	1.1	LANL Int BG LVL	40.03	2.4	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	25	33	10/21/08	354	451	416	33	Sandia Canyon	Intermediate	SCI-2	548	11/12/14	REG	F	RE	GENINORG	Total Dissolved Solids	TDS	424	1	LANL Int BG LVL	127	3.3	3.4	mg/L	1	H	NQ	NQ	EPA:160.1	GELC	this is the reanalysis, in usual range
C5	12	14	06/11/09	0.145	0.192	0.1725	14	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	PCI-2	512	10/27/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.145	0.8	LANL Int BG LVL	0.05	2.9	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C5	24	32	11/05/08	2.35	106	32.4	29	Sandia Canyon	Regional	R-43 S1	903.9	11/21/14	REG	F	INIT	METALS	Chromium	Cr	106	3.3	LANL Reg BG LVL	5.75	18.4	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	large increase
C5	24	26	11/05/08	5.01	6.03	5.38	25	Sandia Canyon	Regional	R-43 S1	903.9	11/21/14	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.33	1	LANL Reg BG LVL	0.89	6	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	23	24	11/10/08	0.389	5.4	1.105	24	Sandia Canyon	Regional	R-43 S2	969.1	11/21/14	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.89	1.7	LANL Reg BG LVL	0.89	2.1	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	11	12	01/28/09	60.2	132	115.5	12	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40 Si	649.67	10/28/14	REG	F	INIT	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	116	1	LANL Int BG LVL	52	2.2	0.725	mg/L	1		NQ	NQ	EPA:310.1	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen 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	11	12	01/28/09	106	398	279	12	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40 Si	649.67	10/28/14	REG	F	INIT	METALS	Manganese	Mn	258	0.9	LANL Int BG LVL	2	129	2	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	11	12	01/28/09	9.7	22	14.55	12	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40 Si	649.67	10/28/14	REG	F	INIT	METALS	Molybdenum	Mo	14.2	1	LANL Int BG LVL	2	7.1	0.165	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	39	49	05/17/05	13.5	34.9	21.4	49	Sandia Canyon	Regional	R-11	855	11/19/14	REG	F	INIT	METALS	Chromium	Cr	23.1	1.1	LANL Reg BG LVL	5.75	4	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	38	46	05/17/05	2.27	7.43	5.15	46	Sandia Canyon	Regional	R-11	855	11/19/14	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.69	1.1	LANL Reg BG LVL	0.89	6.4	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	26	34	08/29/07	15.5	62.3	30.8	34	Sandia Canyon	Regional	R-35b	825.4	11/06/14	REG	F	INIT	METALS	Zinc	Zn	17.8	0.6	LANL Reg BG LVL	3.89	4.6	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	26	27	08/30/07	68	389	340	27	Sandia Canyon	Regional	R-35a	1013.1	11/10/14	REG	F	INIT	METALS	Barium	Ba	357	1.1	LANL Reg BG LVL	56.83	6.3	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	23	26	03/12/08	1.25	2.78	2.295	26	Sandia Canyon	Regional	R-36	766.9	11/06/14	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.4	1	LANL Reg BG LVL	0.89	2.7	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	22	25	03/12/08	0.845	1.74	1.59	25	Sandia Canyon	Regional	R-36	766.9	11/06/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.43	0.9	LANL Reg BG LVL	0.46	3.1	0.2	ug/L	4		NQ	NQ	SW-846:6850	GELC	
C5	23	26	03/12/08	46.9	91.1	58.65	26	Sandia Canyon	Regional	R-36	766.9	11/06/14	REG	F	INIT	METALS	Zinc	Zn	48.1	0.8	LANL Reg BG LVL	3.89	12.4	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	23	25	10/03/06	0.146	0.268	0.231	25	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i S2	470.2	10/29/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.268	1.2	LANL Int BG LVL	0.05	5.4	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	22	22	03/11/04	11	28.5	17.65	22	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-20 S1	904.6	10/31/14	REG	F	INIT	METALS	Manganese	Mn	15.4	0.9	LANL Reg BG LVL	2.94	5.2	2	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	31	34	06/09/05	0.083	0.157	0.1325	28	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/18/14	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.134	1	LANL Int BG LVL	0.03	4.5	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	31	39	06/09/05	1.1	8.06	3.89	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/18/14	REG	F	INIT	METALS	Chromium	Cr	5.39	1.4	LANL Int BG LVL	1	5.4	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	31	34	06/09/05	68.7	132	88.2	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/18/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	86.1	1	LANL Int BG LVL	0.05	1722	5	ug/L	100		NQ	NQ	SW-846:6850	GELC	
C5	37	53	06/15/05	25.4	51.9	40.7	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	FD	F	INIT	METALS	Boron	B	48.8	1.2	LANL Int BG LVL	15.12	3.2	15	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	37	53	06/15/05	25.4	51.9	40.7	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	REG	F	INIT	METALS	Boron	B	49.1	1.2	LANL Int BG LVL	15.12	3.2	15	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	37	53	06/15/05	0.212	0.703	0.6035	50	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.703	1.2	LANL Int BG LVL	0.03	23.4	0.67	mg/L	10	J	J	J_LAB	EPA:300.0	GELC	
C5	37	53	06/15/05	42.8	75.5	64.1	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	FD	F	INIT	GENINORG	Calcium	Ca	62.8	1	LANL Int BG LVL	17.31	3.6	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	37	53	06/15/05	42.8	75.5	64.1	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	REG	F	INIT	GENINORG	Calcium	Ca	63.9	1	LANL Int BG LVL	17.31	3.7	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	37	53	06/15/05	21.2	64.8	49.5	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	FD	F	INIT	GENINORG	Chloride	Cl(-1)	62.9	1.3	LANL Int BG LVL	7.78	8.1	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	37	53	06/15/05	21.2	64.8	49.5	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	REG	F	INIT	GENINORG	Chloride	Cl(-1)	62.9	1.3	LANL Int BG LVL	7.78	8.1	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	37	56	06/15/05	29.4	81.3	51.15	56	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	FD	F	INIT	METALS	Chromium	Cr	69.3	1.4	LANL Int BG LVL	1	69.3	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	37	56	06/15/05	29.4	81.3	51.15	56	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	REG	F	INIT	METALS	Chromium	Cr	69.8	1.4	LANL Int BG LVL	1	69.8	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	37	53	06/15/05	0.412	0.635	0.536	50	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	FD	F	RE	GENINORG	Fluoride	F(-1)	0.517	1	LANL Int BG LVL	0.23	2.2	0.033	mg/L	1	H	J-	I9	EPA:300.0	GELC	this is the reanalysis, in usual range
C5	37	53	06/15/05	0.412	0.635	0.536	50	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	REG	F	RE	GENINORG	Fluoride	F(-1)	0.508	0.9	LANL Int BG LVL	0.23	2.2	0.033	mg/L	1	H	J-	I9	EPA:300.0	GELC	this is the reanalysis, in usual range
C5	37	53	06/15/05	8.49	15.7	13	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	FD	F	INIT	GENINORG	Magnesium	Mg	12.9	1	LANL Int BG LVL	6.12	2.1	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	37	53	06/15/05	8.49	15.7	13	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	REG	F	INIT	GENINORG	Magnesium	Mg	13	1	LANL Int BG LVL	6.12	2.1	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	37	53	06/15/05	2.9	41.8	16.6	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	FD	F	INIT	METALS	Nickel	Ni	29.2	1.8	LANL Int BG LVL	1	29.2	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	37	53	06/15/05	2.9	41.8	16.6	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	REG	F	INIT	METALS	Nickel	Ni	29.7	1.8	LANL Int BG LVL	1	29.7	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	37	53	06/15/05	7.62	20.4	11.2	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	7.98	0.7	LANL Int BG LVL	2.41	3.3	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	37	53	06/15/05	7.62	20.4	11.2	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	8.17	0.7	LANL Int BG LVL	2.41	3.4	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	37	53	06/15/05	56.3	246	83.6	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	FD	F	INIT	GENINORG	Perchlorate	ClO4	60.7	0.7	LANL Int BG LVL	0.05	1214	5	ug/L	100		NQ	NQ	SW-846:6850	GELC	
C5	37	53	06/15/05	56.3	246	83.6	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	62.3	0.7	LANL Int BG LVL	0.05	1246	5	ug/L	100		NQ	NQ	SW-846:6850	GELC	
C5	37	53	06/15/05	19.5	28.8	25.6	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	FD	F	INIT	GENINORG	Sodium	Na	25.4	1	LANL Int BG LVL	12.19	2.1	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	37	53	06/15/05	19.5	28.8	25.6	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	REG	F	INIT	GENINORG	Sodium	Na	26.1	1	LANL Int BG LVL	12.19	2.1	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen 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	37	53	06/15/05	298	497	401	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	FD	F	INIT	GENINORG	Total Dissolved Solids	TDS	369	0.9	LANL Int BG LVL	127	2.9	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	37	53	06/15/05	298	497	401	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	403	1	LANL Int BG LVL	127	3.2	3.4	mg/L	1		J	I10a	EPA:160.1	GELC	
C5	37	53	06/15/05	15.9	288	33.4	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	FD	F	INIT	METALS	Zinc	Zn	27	0.8	LANL Int BG LVL	2	13.5	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	37	53	06/15/05	15.9	288	33.4	53	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/07/14	REG	F	INIT	METALS	Zinc	Zn	27.1	0.8	LANL Int BG LVL	2	13.6	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C6	18	22	02/28/09	8.4	33.6	17.45	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	11/05/14	REG	F	INIT	METALS	Chromium	Cr	33.6	1.9	NM GW STD	50	0.7	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	steadily increasing
C6	24	32	11/05/08	2.35	106	32.4	29	Sandia Canyon	Regional	R-43 S1	903.9	11/21/14	REG	F	INIT	METALS	Chromium	Cr	106	3.3	NM GW STD	50	2.1	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	large increase
C6	22	25	06/26/06	4.45	10	6.31	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/18/14	REG	UF	INIT	SVOC	Dioxane[1,4-]	123-91-1	10	1.6	EPA TAP SCRN LVL	7.8	1.3	3.16	ug/L	1	J	J	J_LAB	SW-846:8270D	GELC	
C6	31	34	06/09/05	68.7	132	88.2	34	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/18/14	REG	F	INIT	GENINORG	Perchlorate	ClO4	86.1	1	Consent Order	4	21.5	5	ug/L	100		NQ	NQ	SW-846:6850	GELC	