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NMED
Hazardous Waste Bureau

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Date: JAN 22 2016
Refer To: ADESH-16-008
LAUR: 16-20250
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 2016

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 (Consent Order). Members of LANL's Environmental Programs met on January 13, 2016, to review new groundwater data received in December 2015. This report was prepared by comparing the data against groundwater cleanup levels, as defined in Section VIII.A.1 of the Consent Order. For comparison with U.S. Environmental Protection Agency (EPA) tap water standards, the carcinogenic risk was adjusted to 1×10^{-5}, as specified in the Consent Order. This report was prepared using the November 2015 EPA regional screening levels.

1-Day Notification

There were no instances of a contaminant detected at a concentration that exceeded the New Mexico Water Quality Control Commission standard or federal maximum contaminant level at locations where contaminants have not been previously detected above the respective standard (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 six 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@em.doe.gov).

Sincerely,

Bruce Robinson, Program Director
Environmental Remediation Program
Los Alamos National Laboratory

Sincerely,

David S. Rhodes, Supervisor
Environmental Management
Los Alamos Field Office

BR/DR/SP:sm

Enclosure: Two hard copies with electronic files – Summary of Groundwater Data Reviewed in January 2016 That Meet Notification Requirements (EP2016-0004)

Cy: (w/enc.)
Steve Paris, ADEP ER Program, MS M992
emla.docs@em.doe.gov
Public Reading Room (EPRR)
ADESH Records

Cy: (Letter and CD and/or DVD)
Laurie King, EPA Region 6, Dallas, TX
Michelle Hunter, NMED-GWQB
Steve Yanicak, NMED-DOE-OB, MS M894
Raymond Martinez, San Ildefonso Pueblo, NM
Dino Chavarria, Santa Clara Pueblo, NM
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John McCann, ADESH-ENV-DO
Michael Brandt, ADESH
Amy De Palma, PADOPS
Craig Leasure, PADOPS

SUMMARY OF GROUNDWATER DATA REVIEWED IN JANUARY 2016 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 six 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 12-15 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. This report was prepared using the November 2015 EPA regional screening levels.

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

DESCRIPTION OF TABLE

15-Day Notification Requirement

The table is divided into separate categories that correspond to the six 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 six criteria may not appear in the table.

The criteria are as follows:

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

Validation Flag—secondary validation qualifier

Validation 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 12-15 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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C1	17	20	06/24/05	0.0645	0.0645	0.0645	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-33 S2	1112.4	11/12/15	REG	UF	INIT	SVOC	Benzo(g,h,i)perylene	191-24-2	0.0645	1				0.0323	ug/L	1	J	J	J_LAB	SW-846:8270DGCMS_SIM	GELC	source of constituent is under evaluated
C1	18	21	06/24/05	0.0968	0.0968	0.0968	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-33 S2	1112.4	11/12/15	REG	UF	INIT	SVOC	Dibenz(a,h)anthracene	53-70-3	0.0968	1	EPA TAP SCRN LVL	0.034	2.8	0.0323	ug/L	1	J	J	J_LAB	SW-846:8270DGCMS_SIM	GELC	source of constituent is under evaluated
C1	18	21	06/24/05	0.0753	0.0753	0.0753	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-33 S2	1112.4	11/12/15	REG	UF	INIT	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	0.0753	1	EPA TAP SCRN LVL	0.34	0.2	0.0323	ug/L	1	J	J	J_LAB	SW-846:8270DGCMS_SIM	GELC	source of constituent is under evaluated
C1	9	11	08/19/10	7.48	7.48	7.48	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-56 S1	945	11/03/15	REG	UF	INIT	SVOC	Benzoic Acid	65-85-0	7.48	1	EPA TAP SCRN LVL	75000	0	3.26	ug/L	1	J	J	J_LAB	SW-846:8270D	GELC	source of constituent is under evaluated
C1	9	12	08/13/10	8.11	8.11	8.11	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-56 S2	1046.6	11/03/15	REG	UF	INIT	SVOC	Benzoic Acid	65-85-0	8.11	1	EPA TAP SCRN LVL	75000	0	3.26	ug/L	1	J	J	J_LAB	SW-846:8270D	GELC	source of constituent is under evaluated
C1	8	10	11/05/08	4.38	4.38	4.38	1	Sandia Canyon	Regional	R-43 S1	903.9	11/18/15	REG	UF	INIT	SVOC	Benzoic Acid	65-85-0	4.38	1	EPA TAP SCRN LVL	75000	0	3	ug/L	1	J	J	J_LAB	SW-846:8270D	GELC	source of constituent is under evaluated
C1	27	32	06/09/05	0.0619	0.0619	0.0619	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/16/15	REG	UF	INIT	SVOC	Bis(2-chloroethyl)ether	111-44-4	0.0619	1	EPA TAP SCRN LVL	0.14	0.4	0.0309	ug/L	1	J	J	J_LAB	SW-846:8270DGCMS_SIM	GELC	source of constituent is under evaluated
C1	27	45	06/15/05	0.0412	0.0412	0.0412	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	UF	INIT	SVOC	Bis(2-chloroethyl)ether	111-44-4	0.0412	1	EPA TAP SCRN LVL	0.14	0.3	0.0309	ug/L	1	J	J	J_LAB	SW-846:8270DGCMS_SIM	GELC	source of constituent is under evaluated
C2	26	28	05/11/05	106	196	140	27	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-14 S1	1200.6	11/19/15	FD	F	INIT	GENINORG	Total Dissolved Solids	TDS	196	1.4	LANL Reg BG LVL	191.7	1	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C2	24	29	03/06/10	54.1	158	59.9	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/09/15	FD	F	INIT	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	158	2.6	LANL Reg BG LVL	156.6	1	0.725	mg/L	1		NQ	NQ	EPA:310.1	GELC	
C2	24	29	03/06/10	54.1	158	59.9	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/09/15	REG	F	INIT	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	158	2.6	LANL Reg BG LVL	156.6	1	0.725	mg/L	1		NQ	NQ	EPA:310.1	GELC	
C2	24	25	03/11/10	55.1	160	61.95	24	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S2	1185	11/09/15	REG	F	INIT	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	160	2.6	LANL Reg BG LVL	156.6	1	0.725	mg/L	1		NQ	NQ	EPA:310.1	GELC	
C2	28	39	10/21/08	56.1	72.1	65.1	39	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	REG	F	INIT	METALS	Barium	Ba	72.1	1.1	LANL Int BG LVL	71.83	1	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	14	20	03/26/12	9.87	9.87	9.87	1	Sandia Canyon	Regional	R-62	1158.4	11/19/15	REG	F	INIT	METALS	Manganese	Mn	9.87	1	LANL Reg BG LVL	2.94	3.4	2	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	30	38	08/29/07	109	206	159.5	38	Sandia Canyon	Regional	R-35b	825.4	11/06/15	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	206	1.3	LANL Reg BG LVL	191.7	1.1	3.4	mg/L	1		NQ	NQ	EPA:160.1	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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C2	22	26	10/11/06	3.8	3.8	3.8	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i S3	524	11/02/15	REG	F	INIT	METALS	Tin	Sn	3.8	1	LANL Int BG LVL	3.26	1.2	2.5	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C2	15	18	01/15/09	0.0169	0.0752	0.046	3	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-40 S2	849.27	10/30/15	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.0752	1.6	LANL Reg BG LVL	0.05	1.5	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C2	8	9	06/25/10	233	233	233	1	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-57 S2	971.5	10/30/15	REG	F	INIT	METALS	Aluminum	Al	233	1	LANL Reg BG LVL	68	3.4	68	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	41	59	06/15/05	3.24	4.35	3.795	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	F	INIT	METALS	Tin	Sn	4.35	1.1	LANL Int BG LVL	3.26	1.3	2.5	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C3	18	21	06/24/05	0.0968	0.0968	0.0968	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-33 S2	1112.4	11/12/15	REG	UF	INIT	SVOC	Dibenz(a,h)anthracene	53-70-3	0.0968	1	EPA TAP SCRN LVL	0.034	2.8	0.0323	ug/L	1	J	J	J_LAB	SW-846:8270DGCMS_SIM	GELC	
C5	18	20	03/11/09	2.41	5.29	3.595	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	11/18/15	REG	F	INIT	METALS	Antimony	Sb	3.42	1	LANL Reg BG LVL	1	3.4	1	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	21	23	03/11/09	0.712	7.67	1.53	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-46	1340	11/18/15	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	0.776	0.5	LANL Reg BG LVL	0.33	2.4	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	35	41	05/25/05	5.34	9.05	7.02	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/20/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	9.05	1.3	LANL Reg BG LVL	0.46	19.7	1	ug/L	20		NQ	NQ	SW-846:6850	GELC	highest result so far, continue to increase.
C5	27	29	10/09/08	0.102	0.364	0.216	28	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/16/15	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.27	1.3	LANL Reg BG LVL	0.1	2.7	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	27	29	10/09/08	40.6	56.9	51.1	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/16/15	REG	F	INIT	GENINORG	Calcium	Ca	55.1	1.1	LANL Reg BG LVL	24.88	2.2	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	27	29	10/09/08	28.7	48.3	38.4	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/16/15	REG	F	INIT	GENINORG	Chloride	Cl(-1)	45.7	1.2	LANL Reg BG LVL	3.57	12.8	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	27	38	10/09/08	744	1240	894	38	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/16/15	REG	F	INIT	METALS	Chromium	Cr	821	0.9	LANL Reg BG LVL	5.75	142.8	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	27	29	10/09/08	11.1	16.1	14.3	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/16/15	REG	F	INIT	GENINORG	Magnesium	Mg	15.5	1.1	LANL Reg BG LVL	4.15	3.7	0.11	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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	27	29	10/09/08	8.8	34	23.8	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/16/15	REG	F	INIT	METALS	Nickel	Ni	26	1.1	LANL Reg BG LVL	3.09	8.4	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	27	29	10/09/08	0.057	7.03	5.9	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/16/15	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.37	0.9	LANL Reg BG LVL	0.89	6	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	27	29	10/09/08	1.08	1.46	1.28	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/16/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.28	1	LANL Reg BG LVL	0.46	2.8	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	27	29	10/09/08	60.6	83.2	74.5	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/16/15	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	77.1	1	LANL Reg BG LVL	7.2	10.7	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	27	29	10/09/08	0.631	2.84	1.085	28	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-42	931.8	11/16/15	REG	UF	INIT	GENINORG	Total Organic Carbon	TOC	0.9	0.8	LANL Reg BG LVL	0.33	2.7	0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	40	43	05/20/05	0.113	0.33	0.2265	40	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/16/15	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.287	1.3	LANL Reg BG LVL	0.1	2.9	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	40	43	05/20/05	21.1	39.3	29.9	43	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/16/15	REG	F	INIT	GENINORG	Chloride	Cl(-1)	36.3	1.2	LANL Reg BG LVL	3.57	10.2	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	41	45	05/20/05	310	472	402	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/16/15	REG	F	INIT	METALS	Chromium	Cr	407	1	LANL Reg BG LVL	5.75	70.8	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	40	43	05/20/05	8.68	12.5	10.8	43	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/16/15	REG	F	INIT	GENINORG	Magnesium	Mg	11.7	1.1	LANL Reg BG LVL	4.15	2.8	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	40	43	05/20/05	6.1	34	14.6	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/16/15	REG	F	INIT	METALS	Nickel	Ni	16.2	1.1	LANL Reg BG LVL	3.09	5.2	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	38	40	05/20/05	3.1	5.39	4.01	40	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/16/15	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.97	1	LANL Reg BG LVL	0.89	4.5	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	38	40	09/01/05	0.802	1.13	0.9785	40	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/16/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.09	1.1	LANL Reg BG LVL	0.46	2.4	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	40	43	05/20/05	38.1	56.4	45.1	43	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-28	934.3	11/16/15	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	51.6	1.1	LANL Reg BG LVL	7.2	7.2	1.33	mg/L	10		NQ	NQ	EPA:300.0	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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	22	26	02/28/09	8.4	37.8	17.75	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	11/11/15	REG	F	INIT	METALS	Chromium	Cr	37.8	2.1	LANL Reg BG LVL	5.75	6.6	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	highest result so far, continue to increase.
C5	22	22	02/28/09	0.256	3.47	2.35	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	11/11/15	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.86	1.2	LANL Reg BG LVL	0.89	3.2	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	22	27	03/05/09	6.1	18.4	9.9	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S2	974.9	11/11/15	REG	F	INIT	METALS	Chromium	Cr	18.1	1.8	LANL Reg BG LVL	5.75	3.1	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	24	29	03/06/10	4.68	9.46	7.26	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/09/15	FD	F	INIT	GENINORG	Chloride	Cl(-1)	7.33	1	LANL Reg BG LVL	3.57	2.1	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	24	29	03/06/10	4.68	9.46	7.26	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/09/15	REG	F	INIT	GENINORG	Chloride	Cl(-1)	7.26	1	LANL Reg BG LVL	3.57	2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	24	31	03/06/10	49.8	126	89.4	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/09/15	FD	F	INIT	METALS	Chromium	Cr	93.9	1.1	LANL Reg BG LVL	5.75	16.3	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	24	31	03/06/10	49.8	126	89.4	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/09/15	REG	F	INIT	METALS	Chromium	Cr	95.7	1.1	LANL Reg BG LVL	5.75	16.6	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	24	29	03/06/10	1.51	9.85	5.41	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/09/15	FD	F	INIT	METALS	Nickel	Ni	7.3	1.3	LANL Reg BG LVL	3.09	2.4	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	24	29	03/06/10	1.51	9.85	5.41	29	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/09/15	REG	F	INIT	METALS	Nickel	Ni	7.63	1.4	LANL Reg BG LVL	3.09	2.5	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	24	28	02/17/09	7.34	18.7	14.15	28	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-44 S1	895	11/12/15	REG	F	INIT	METALS	Chromium	Cr	16	1.1	LANL Reg BG LVL	5.75	2.8	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	34	41	05/24/01	0.02	0.413	0.12	15	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-4B	8.9	11/18/15	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.262	2.2	LANL Avl BG LVL	0.04	6.5	0.017	mg/L	1		J	I4a	EPA:350.1	GELC	
C5	30	37	04/21/05	3.3	44.3	15.9	37	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-4B	8.9	11/18/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	4.2	0.3	LANL Avl BG LVL	0.05	84	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	39	46	05/24/01	248	736	308.5	46	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-4B	8.9	11/18/15	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	340	1.1	LANL Avl BG LVL	139	2.4	3.4	mg/L	1		NQ	NQ	EPA:160.1	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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	25	29	05/24/01	0.136	0.542	0.254	22	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-4B	8.9	11/18/15	REG	F	INIT	GENINORG	Total Kjeldahl Nitrogen	TKN	0.2	0.8	LANL Avl BG LVL	0.04	5	0.033	mg/L	1		NQ	NQ	EPA:351.2	GELC	
C5	54	62	03/12/01	0.11	1.51	1.03	62	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/18/15	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.915	0.9	LANL Avl BG LVL	0.27	3.4	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	38	44	04/27/05	3.23	31.7	12.45	44	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/18/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	7.7	0.6	LANL Avl BG LVL	0.05	154	0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	
C5	55	63	03/12/01	241	601	313	63	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/18/15	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	361	1.2	LANL Avl BG LVL	139	2.6	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	56	63	01/10/00	570	2840	1540	63	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	12/01/15	REG	F	INIT	METALS	Boron	B	936	0.6	LANL Int BG LVL	15.12	61.9	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	16	21	01/30/07	0.0773	0.234	0.1245	16	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	12/01/15	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.0912	0.7	LANL Int BG LVL	0.03	3	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	16	21	01/30/07	18	44.2	22.2	21	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	12/01/15	REG	F	INIT	GENINORG	Chloride	Cl(-1)	20.2	0.9	LANL Int BG LVL	7.78	2.6	0.268	mg/L	4		NQ	NQ	EPA:300.0	GELC	
C5	14	18	01/30/07	0.459	0.707	0.558	18	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	12/01/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.558	1	LANL Int BG LVL	0.05	11.2	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	60	67	01/10/00	17	50.2	34	67	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate Spring	Martin Spring	0	12/01/15	REG	F	INIT	GENINORG	Sodium	Na	30.7	0.9	LANL Int BG LVL	12.19	2.5	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	60	67	03/12/01	0.726	1.79	1.26	66	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/17/15	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.999	0.8	LANL Avl BG LVL	0.27	3.7	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	42	47	04/28/05	6.23	47.5	11.9	47	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/17/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	10.1	0.8	LANL Avl BG LVL	0.05	202	1	ug/L	20		NQ	NQ	SW-846:6850	GELC	
C5	60	67	03/12/01	220	556	308	67	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-7	39	11/17/15	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	333	1.1	LANL Avl BG LVL	139	2.4	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	10	13	04/20/10	15.2	21.6	19.8	13	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	16-26644	130	12/02/15	REG	F	INIT	GENINORG	Chloride	Cl(-1)	21.6	1.1	LANL Int BG LVL	7.78	2.8	0.268	mg/L	4		NQ	NQ	EPA:300.0	GELC	
C5	9	12	04/20/10	0.431	0.762	0.4905	12	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	16-26644	130	12/02/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.453	0.9	LANL Int BG LVL	0.05	9.1	0.05	ug/L	1		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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	28	37	10/21/08	0.194	0.683	0.533	36	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	FD	F	INIT	GENINORG	Bromide	Br(-1)	0.661	1.2	LANL Int BG LVL	0.03	22	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	28	37	10/21/08	0.194	0.683	0.533	36	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.667	1.3	LANL Int BG LVL	0.03	22.2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	28	39	10/21/08	59.5	73.6	67	39	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	FD	F	INIT	GENINORG	Calcium	Ca	69.2	1	LANL Int BG LVL	17.31	4	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	28	39	10/21/08	59.5	73.6	67	39	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	REG	F	INIT	GENINORG	Calcium	Ca	69.3	1	LANL Int BG LVL	17.31	4	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	28	37	10/21/08	53.4	71.9	60.9	37	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	FD	F	INIT	GENINORG	Chloride	Cl(-1)	70.2	1.2	LANL Int BG LVL	7.78	9	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	28	37	10/21/08	53.4	71.9	60.9	37	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	REG	F	INIT	GENINORG	Chloride	Cl(-1)	70.4	1.2	LANL Int BG LVL	7.78	9	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	28	44	10/21/08	368	658	496	44	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	FD	F	INIT	METALS	Chromium	Cr	415	0.8	LANL Int BG LVL	1	415	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	44	10/21/08	368	658	496	44	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	REG	F	INIT	METALS	Chromium	Cr	418	0.8	LANL Int BG LVL	1	418	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	27	37	10/21/08	13.1	17.3	15.6	37	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	FD	F	INIT	GENINORG	Magnesium	Mg	16.3	1	LANL Int BG LVL	6.12	2.7	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	27	37	10/21/08	13.1	17.3	15.6	37	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	REG	F	INIT	GENINORG	Magnesium	Mg	16.5	1.1	LANL Int BG LVL	6.12	2.7	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	28	39	10/21/08	14.5	19.6	17	39	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	FD	F	INIT	METALS	Nickel	Ni	19.1	1.1	LANL Int BG LVL	1	19.1	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	39	10/21/08	14.5	19.6	17	39	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	REG	F	INIT	METALS	Nickel	Ni	19.6	1.2	LANL Int BG LVL	1	19.6	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	37	10/21/08	0.899	1.12	0.985	37	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	FD	F	INIT	GENINORG	Perchlorate	ClO4	0.945	1	LANL Int BG LVL	0.05	18.9	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	28	37	10/21/08	0.899	1.12	0.985	37	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.972	1	LANL Int BG LVL	0.05	19.4	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	28	39	10/21/08	264	350	322	39	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	FD	F	INIT	METALS	Strontium	Sr	264	0.8	LANL Int BG LVL	154.8	1.7	1	ug/L	1	E	NQ	NQ	SW-846:6010C	GELC	
C5	28	39	10/21/08	264	350	322	39	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	REG	F	INIT	METALS	Strontium	Sr	320	1	LANL Int BG LVL	154.8	2.1	1	ug/L	1	E	NQ	NQ	SW-846:6010C	GELC	
C5	28	37	10/21/08	77.9	103	90.3	37	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	FD	F	INIT	GENINORG	Sulfate	SO4(-2)	91.2	1	LANL Int BG LVL	40.03	2.3	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	28	37	10/21/08	77.9	103	90.3	37	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	91.8	1	LANL Int BG LVL	40.03	2.3	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	28	37	10/21/08	354	483	419	37	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	FD	F	INIT	GENINORG	Total Dissolved Solids	TDS	454	1.1	LANL Int BG LVL	127	3.6	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	28	37	10/21/08	354	483	419	37	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	483	1.2	LANL Int BG LVL	127	3.8	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	28	39	10/21/08	1.2	2.15	1.6	39	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	FD	F	INIT	GENINORG	Uranium	U	1.74	1.1	LANL Int BG LVL	0.72	2.4	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	39	10/21/08	1.2	2.15	1.6	39	Sandia Canyon	Intermediate	SCI-2	548	11/13/15	REG	F	INIT	GENINORG	Uranium	U	1.75	1.1	LANL Int BG LVL	0.72	2.4	0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	21	26	06/01/05	51	75.9	60.2	26	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	11/13/15	REG	F	INIT	METALS	Boron	B	75.9	1.3	LANL Int BG LVL	15.12	5	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	21	26	06/01/05	3.4	24.8	8.15	24	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	11/13/15	REG	F	INIT	METALS	Copper	Cu	13.6	1.7	LANL Int BG LVL	5.32	2.6	3	ug/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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	21	26	06/01/05	2.36	12.2	4.7	26	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	11/13/15	REG	F	INIT	METALS	Nickel	Ni	2.36	0.5	LANL Int BG LVL	1	2.4	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	14	18	05/21/07	0.449	0.589	0.516	18	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	11/13/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.536	1	LANL Int BG LVL	0.05	10.7	0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	21	26	06/01/05	4.9	70.7	11	22	Water Canyon (includes Canyon del Valle, Potrillo, and Fence Canyons)	Intermediate	CdV-16-1(i)	624	11/13/15	REG	F	INIT	METALS	Zinc	Zn	35.5	3.2	LANL Int BG LVL	2	17.8	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	14	17	06/11/09	0.145	0.192	0.173	17	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	PCI-2	512	11/03/15	FD	F	INIT	GENINORG	Perchlorate	ClO4	0.178	1	LANL Int BG LVL	0.05	3.6	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C5	14	17	06/11/09	0.145	0.192	0.173	17	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	PCI-2	512	11/03/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.186	1.1	LANL Int BG LVL	0.05	3.7	0.05	ug/L	1	J	J	J_LAB	SW-846:6850	GELC	
C5	14	20	03/26/12	1.64	11.7	8.165	20	Sandia Canyon	Regional	R-62	1158.4	11/19/15	REG	F	INIT	GENINORG	Chloride	Cl(-1)	9.8	1.2	LANL Reg BG LVL	3.57	2.7	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	14	20	03/26/12	104	240	134.5	20	Sandia Canyon	Regional	R-62	1158.4	11/19/15	REG	F	INIT	METALS	Chromium	Cr	161	1.2	LANL Reg BG LVL	5.75	28	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	31	11/05/08	3.6	8.59	6.16	31	Sandia Canyon	Regional	R-43 S1	903.9	11/18/15	REG	F	INIT	GENINORG	Chloride	Cl(-1)	8.35	1.4	LANL Reg BG LVL	3.57	2.3	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	28	36	11/05/08	2.35	146	37.4	33	Sandia Canyon	Regional	R-43 S1	903.9	11/18/15	REG	F	INIT	METALS	Chromium	Cr	134	3.6	LANL Reg BG LVL	5.75	23.3	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	28	30	11/05/08	5.01	6.03	5.42	29	Sandia Canyon	Regional	R-43 S1	903.9	11/18/15	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.61	1	LANL Reg BG LVL	0.89	6.3	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	28	31	11/05/08	8.77	21	11.8	31	Sandia Canyon	Regional	R-43 S1	903.9	11/18/15	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	16.2	1.4	LANL Reg BG LVL	7.2	2.3	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	27	29	11/10/08	0.389	5.4	1.33	29	Sandia Canyon	Regional	R-43 S2	969.1	11/18/15	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.08	2.3	LANL Reg BG LVL	0.89	3.5	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	43	53	05/17/05	13.5	34.9	21.2	53	Sandia Canyon	Regional	R-11	855	11/11/15	REG	F	INIT	METALS	Chromium	Cr	20.9	1	LANL Reg BG LVL	5.75	3.6	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	42	50	05/17/05	2.27	7.43	5.16	50	Sandia Canyon	Regional	R-11	855	11/11/15	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.42	1.1	LANL Reg BG LVL	0.89	6.1	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	42	50	05/17/05	4.62	52.9	10.5	43	Sandia Canyon	Regional	R-11	855	11/11/15	REG	F	INIT	METALS	Zinc	Zn	9.36	0.9	LANL Reg BG LVL	3.89	2.4	3.3	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
C5	30	38	08/29/07	13.8	62.3	29.85	38	Sandia Canyon	Regional	R-35b	825.4	11/06/15	REG	F	INIT	METALS	Zinc	Zn	14.8	0.5	LANL Reg BG LVL	3.89	3.8	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	30	31	08/30/07	68	389	346	31	Sandia Canyon	Regional	R-35a	1013.1	11/09/15	REG	F	INIT	METALS	Barium	Ba	348	1	LANL Reg BG LVL	56.83	6.1	1	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	27	31	03/12/08	1.25	6.8	2.3	31	Sandia Canyon	Regional	R-36	766.9	11/17/15	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.29	1	LANL Reg BG LVL	0.89	2.6	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	26	29	03/12/08	0.845	1.74	1.58	29	Sandia Canyon	Regional	R-36	766.9	11/17/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.61	1	LANL Reg BG LVL	0.46	3.5	0.1	ug/L	2		NQ	NQ	SW-846:6850	GELC	
C5	27	30	03/12/08	36.5	91.1	56	30	Sandia Canyon	Regional	R-36	766.9	11/17/15	REG	F	INIT	METALS	Zinc	Zn	36.6	0.7	LANL Reg BG LVL	3.89	9.4	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	23	26	10/11/06	0.186	0.31	0.2585	26	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-23i S3	524	11/02/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.281	1.1	LANL Int BG LVL	0.05	5.6	0.05	ug/L	1		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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	30	36	03/01/04	3.1	103	37.6	32	Pajarito Canyon (includes Twomile and Threemile Canyons)	Regional	R-32 S1	867.5	11/02/15	REG	F	INIT	METALS	Zinc	Zn	14.9	0.4	LANL Reg BG LVL	3.89	3.8	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	35	38	06/09/05	0.083	0.157	0.1325	32	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/16/15	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.13	1	LANL Int BG LVL	0.03	4.3	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	35	43	06/09/05	1.1	8.06	4.03	37	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/16/15	REG	F	INIT	METALS	Chromium	Cr	5.21	1.3	LANL Int BG LVL	1	5.2	2	ug/L	1	J	J	J_LAB	SW-846:6020	GELC	
C5	35	38	06/09/05	3.17	5.9	4.39	38	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/16/15	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.61	1.3	LANL Int BG LVL	2.41	2.3	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	35	38	06/09/05	68.7	132	88.2	38	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/16/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	99.4	1.1	LANL Int BG LVL	0.05	1988	10	ug/L	200		NQ	NQ	SW-846:6850	GELC	
C5	41	59	06/15/05	25.4	56	42.3	59	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	F	INIT	METALS	Boron	B	55.9	1.3	LANL Int BG LVL	15.12	3.7	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	41	59	06/15/05	0.212	0.703	0.585	56	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.571	1	LANL Int BG LVL	0.03	19	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	41	59	06/15/05	42.8	75.5	64	59	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	F	INIT	GENINORG	Calcium	Ca	67.3	1.1	LANL Int BG LVL	17.31	3.9	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	41	59	06/15/05	21.2	64.8	53.3	59	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	F	INIT	GENINORG	Chloride	Cl(-1)	56.3	1.1	LANL Int BG LVL	7.78	7.2	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	41	62	06/15/05	29.4	81.3	52.6	62	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	F	INIT	METALS	Chromium	Cr	75.4	1.4	LANL Int BG LVL	1	75.4	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	41	59	06/15/05	0.412	0.635	0.5315	56	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.551	1	LANL Int BG LVL	0.23	2.4	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	41	59	06/15/05	8.49	15.7	13	59	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	F	INIT	GENINORG	Magnesium	Mg	13.8	1.1	LANL Int BG LVL	6.12	2.3	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	41	59	06/15/05	2.9	41.8	17.5	59	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	F	INIT	METALS	Nickel	Ni	29.3	1.7	LANL Int BG LVL	1	29.3	0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	41	59	06/15/05	7.62	20.4	10.7	59	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	9.21	0.9	LANL Int BG LVL	2.41	3.8	0.17	mg/L	10		NQ	NQ	EPA:353.2	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	Validation Flag	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C5	41	59	06/15/05	56.3	246	79.2	59	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	72.5	0.9	LANL Int BG LVL	0.05	1450	5	ug/L	100		NQ	NQ	SW-846:6850	GELC	
C5	41	59	06/15/05	19.5	29.4	25.6	59	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	F	INIT	GENINORG	Sodium	Na	26.5	1	LANL Int BG LVL	12.19	2.2	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	41	59	06/15/05	298	497	403	59	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	441	1.1	LANL Int BG LVL	127	3.5	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	41	59	06/15/05	15.9	288	30.4	59	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/06/15	REG	F	INIT	METALS	Zinc	Zn	21	0.7	LANL Int BG LVL	2	10.5	3.3	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
C6	35	41	05/25/05	5.34	9.05	7.02	41	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/20/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	9.05	1.3	Consent Order	4	2.3	1	ug/L	20		NQ	NQ	SW-846:6850	GELC	highest result so far, continue to incresease.
C6	22	26	02/28/09	8.4	37.8	17.75	26	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	11/11/15	REG	F	INIT	METALS	Chromium	Cr	37.8	2.1	NM GW STD	50	0.8	2	ug/L	1		NQ	NQ	SW-846:6020	GELC	highest result so far, continue to incresease.
C6	39	46	05/24/01	0.471	1.07	0.844	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-4B	8.9	11/18/15	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.844	1	NM GW STD	1.6	0.5	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C6	54	62	03/12/01	0.11	1.51	1.03	62	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-6	27	11/18/15	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.915	0.9	NM GW STD	1.6	0.6	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C6	35	38	06/09/05	68.7	132	88.2	38	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/16/15	REG	F	INIT	GENINORG	Perchlorate	ClO4	99.4	1.1	Consent Order	4	24.9	10	ug/L	200		NQ	NQ	SW-846:6850	GELC	