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Date: January 18, 2018
Refer To: ADEM-18-0011
LAUR: 18-20326
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 2018

This letter is Los Alamos National Laboratory's (LANL's) written submission in accordance with Section XXVI of the 2016 Compliance Order on Consent (Consent Order). Members of LANL's Associate Directorate for Environmental Management met on January 11, 2018, to review groundwater data received in December 2017. This report was prepared by comparing the data against groundwater notification criteria as defined in Section IX of the 2016 Consent Order. These criteria consider New Mexico Water Quality Control Commission (NMWQCC) groundwater standards, U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs), New Mexico Environment Department (NMED) screening levels for tap water, EPA regional screening levels for tap water, and NMED-approved background values for hydrogeological zones as set forth in the "Groundwater Background Investigation Report, Revision 5." For comparison with EPA tap water standards, the standard's carcinogenic risk value was adjusted to 1×10^{-5}, as specified in the Consent Order. This report was prepared using the November 2017 EPA regional screening levels for tap water.

This report also includes analytical data from samples collected at locations within the Pueblo de San Ildefonso, which are subject to reporting at this time. These data have been reviewed by the Pueblo. 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 San Ildefonso Pueblo.

1-Day Notification

There was one instance of a contaminant detected at a concentration that exceeded the NMWQCC groundwater 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).

In a filtered sample collected on October 10, 2017, from regional spring "Lower Sandia Spring," manganese was measured at 340 µg/L, above the 200 µg/L NMWQCC groundwater standard. One-day notification of this result by telephone occurred on January 11, 2018. Lower Sandia Spring is a new location within the Pueblo de San Ildefonso, which was added to the 2018 Interim Facility-Wide Groundwater Monitoring Plan (IFGMP).

15-Day Notification

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

If you have questions, please contact Nita Patel at (505) 665-9273 (npatel@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, Director
Office of Quality and Regulatory Compliance
Environmental Management
Los Alamos Field Office

BR/DR/NP:sm

Enclosure: Two hard copies with electronic files – Summary of Groundwater Data Reviewed in January 2018 That Meet Notification Requirements (EP2018-0012)

Cy: (date-stamped letter and attachment emailed)
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SUMMARY OF GROUNDWATER DATA REVIEWED IN JANUARY 2018
THAT MEET NOTIFICATION REQUIREMENTS

INTRODUCTION

This report provides information to the New Mexico Environment Department (NMED) concerning recent groundwater monitoring data obtained by Los Alamos National Laboratory (the Laboratory) under its annual "Interim Facility-Wide Groundwater Monitoring Plan" for the 2018 Monitoring Year and contains results for contaminants and other chemical constituents that meet the five screening criteria described in Section XXVI of the 2016 Compliance Order on Consent modified February 2017 (2016 Consent Order). The report covers groundwater samples collected from wells or springs (listed in the accompanying tables) that provide surveillance of the hydrogeological zones indicated in the tables.

The report includes two tables. Table 1, NMED 12-17 Groundwater Report, presents results since June 14, 2007, that met the five reporting criteria as specified in the 2016 Consent Order. Table 2, NMED 12-17 Groundwater Report Addendum, presents results that are exceeding the 95th percentile of those results in the data set defined in the "Groundwater Background Investigation Report, Revision 5." Only contaminants and other chemical constituents lacking a calculated groundwater background value (i.e., the frequency of detections was too low to calculate a background value at the 95% upper tolerance level) are listed in this table. Table 2 is a voluntary submission by the Laboratory to NMED to identify the potential risk resulting from contaminants and other chemical constituents without defined background values.

These tables include the following:

- Comments on results that appear to be exceptional based on consideration of monitoring data acquired from previous analyses (using statistics described below)
- Supplemental information summarizing monitoring results obtained from previous analyses
- 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.

This report was prepared by comparing the data against groundwater notification criteria as defined in Section IX of the 2016 Consent Order. These criteria consider New Mexico Water Quality Control Commission (NMWQCC) groundwater standards, U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs), NMED screening levels for tap water, EPA regional screening levels for tap water, and NMED-approved background values for hydrogeological zones as set forth in the "Groundwater Background Investigation Report, Revision 5." For comparison with EPA tap water standards, the standard's carcinogenic risk value was adjusted to 1×10^{-5}, as specified in the Consent Order. This report was prepared using the November 2017 EPA regional screening levels for tap water.

Background values applied in Table 1 notification criteria C2 and C4 are the background values for hydrogeological zones as set forth in the NMED-approved "Groundwater Background Investigation Report, Revision 5."

Screening values applied in Table 2 criteria XC2scr and XC4scr are the 95th percentile of the data set used to establish background as defined in the "Groundwater Background Investigation Report, Revision 5."

DESCRIPTION OF TABLES

1-Day Notification Requirement

The CA value is used in the Criteria Code column of Table 1. The CA value represents the data that 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 MCL in the well screen interval or spring. The Laboratory notifies NMED orally within 1 business day after review of such analytical data and also includes the data in the 15-day notification table.

15-Day Notification Requirement

Table 1 is divided into separate categories that correspond to the five screening criteria in Section XXVI of the 2016 Consent Order. Some data met more than one of the notification criteria and appear in the table multiple times.

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 (1) exceeds the lower of either one-half the NMWQCC water quality standard or one-half the federal MCL, or, if there is no such standard for the contaminant, (2) exceeds one-half the tap water screening levels in Table A-1 of NMED' s “Risk Assessment Guidance for Site Investigations and Remediation” (March 2017 or updates, as appropriate), or, if there is no NMED tap water screening level available for a contaminant, (3) exceeds one-half the EPA regional human health medium-specific screening level 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 a contaminant that is a metal or other inorganic compound in a spring or screened interval of a well at a concentration that exceeds two times the background level for the third consecutive sampling of the spring or screened interval.

C5. Detection of a contaminant in a spring or screened interval of a well at a concentration that exceeds either one-half the NMWQCC water quality standard or one-half the federal MCL, and which has increased for the third consecutive sampling of that spring or screened interval.

Table 2 is divided into two categories that correspond to two screening criteria. They mirror criteria C2 and C4 in Table 1, respectively.

The two criteria are as follows:

XC2scr. Detection of a contaminant that is a metal or other inorganic compound at a concentration above the 95th percentile in a spring or screened interval of a well if that contaminant has not previously exceeded the 95th percentile of the data set used to establish background in the spring or screened interval as defined in the “Groundwater Background Investigation Report, Revision 5.”

XC4scr. 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 for the third consecutive sampling exceeds 2 times the 95th percentile of the data set used to establish background as defined in the “Groundwater Background Investigation Report, Revision 5.”

Columns two through eight in both tables provide summary statistics for metals or inorganic compounds by field preparation code (e.g., filtered aluminum) for samples collected since January 1, 2000, including the currently reported data The statistics include the date of the first sampling event; the number 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—hydrogeological zone from which the groundwater sample was collected (e.g., 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 with 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 12-17 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
C2	35	46	6/23/2006	0.184	6.5	0.64	31	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	11/1/2017	REG	F	INIT	METALS	Molybdenum	Mo	3.86	6	LANL Int BG LVL	2.9	1.3	0.2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C2	8	8	4/21/2009	0.092	0.556	0.183	5	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	R-40 S1	751.59	11/2/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	0.556	3	LANL Int BG LVL	0.459	1.2	0.017	mg/L	1		NQ	NQ	EPA:353.2	GELC	
C2	46	54	4/18/2002	23.7	39.3	25.5	54	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-13	958.33	11/8/2017	REG	F	INIT	METALS	Barium	Ba	39.3	1.5	LANL Reg BG LVL	38.1	1	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	46	54	4/18/2002	11.4	22.3	13.8	54	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-13	958.33	11/8/2017	REG	F	INIT	GENINORG	Calcium	Ca	22.3	1.6	LANL Reg BG LVL	17.03	1.3	0.05	mg/L	1		J+	I6b	SW-846:6010C	GELC	
C2	41	49	2/2/2006	35.4	80.5	48.6	49	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-13	958.33	11/8/2017	REG	F	INIT	GENINORG	Hardness	HARDNESS	80.5	1.7	LANL Reg BG LVL	67.1	1.2	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C2	46	54	4/18/2002	1.7	6.01	3.44	54	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-13	958.33	11/8/2017	REG	F	INIT	GENINORG	Magnesium	Mg	6.01	1.7	LANL Reg BG LVL	4.18	1.4	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C2	1	1	10/3/2017	209	209	209	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	GENINORG	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	209	1	LANL Reg BG LVL	72.9	2.9	1.45	mg/L	1		NQ	NQ	EPA:310.1	GELC	New spring location that was added to the 2018 Interim Facility-Wide Groundwater Monitoring Plan (IFGMP).
C2	1	1	10/3/2017	203	203	203	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	METALS	Barium	Ba	203	1	LANL Reg BG LVL	38.1	5.3	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	New spring location that was added to the 2018 IFGMP.
C2	1	1	10/3/2017	58.6	58.6	58.6	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	GENINORG	Calcium	Ca	58.6	1	LANL Reg BG LVL	17.03	3.4	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	New spring location that was added to the 2018 IFGMP.
C2	1	1	10/3/2017	5.89	5.89	5.89	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	5.89	1	LANL Reg BG LVL	2.7	2.2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	New spring location that was added to the 2018 IFGMP.

Table 1: NMED 12-17 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
C2	1	1	10/3/2017	0.578	0.578	0.578	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.578	1	LANL Reg BG LVL	0.377	1.5	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	New spring location that was added to the 2018 IFGMP.
C2	1	1	10/3/2017	170	170	170	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	GENINORG	Hardness	HARDNESS	170	1	LANL Reg BG LVL	67.1	2.5	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	New spring location that was added to the 2018 IFGMP.
C2	1	1	10/3/2017	5.69	5.69	5.69	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	GENINORG	Magnesium	Mg	5.69	1	LANL Reg BG LVL	4.18	1.4	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	New spring location that was added to the 2018 IFGMP.
C2	1	1	10/3/2017	3.46	3.46	3.46	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	METALS	Nickel	Ni	3.46	1	LANL Reg BG LVL	2.9	1.2	0.6	µg/L	1		NQ	NQ	SW-846:6020	GELC	New spring location that was added to the 2018 IFGMP.
C2	1	1	10/3/2017	4.76	4.76	4.76	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	GENINORG	Potassium	K	4.76	1	LANL Reg BG LVL	2.39	2	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	New spring location that was added to the 2018 IFGMP.
C2	1	1	10/3/2017	19.8	19.8	19.8	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	GENINORG	Sodium	Na	19.8	1	LANL Reg BG LVL	16	1.2	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	New spring location that was added to the 2018 IFGMP.
C2	1	1	10/3/2017	430	430	430	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	METALS	Strontium	Sr	430	1	LANL Reg BG LVL	157	2.7	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	New spring location that was added to the 2018 IFGMP.
C2	1	1	10/3/2017	5.11	5.11	5.11	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	5.11	1	LANL Reg BG LVL	4.59	1.1	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	New spring location that was added to the 2018 IFGMP.
C2	1	1	10/3/2017	276	276	276	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	276	1	LANL Reg BG LVL	161	1.7	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	New spring location that was added to the 2018 IFGMP.
C2	1	1	10/3/2017	1.77	1.77	1.77	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	GENINORG	Uranium	U	1.77	1	LANL Reg BG LVL	1.19	1.5	0.067	µg/L	1		NQ	NQ	SW-846:6020	GELC	New spring location that was added to the 2018 IFGMP.
C3	30	37	3/5/2009	6.1	47.4	12.3	36	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S2	974.9	10/31/2017	FD	F	RE	METALS	Chromium	Cr	47.4	3.9	NM GW STD	50	0.9	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	Reanalysis result. Highest to date. Chromium concentration of screen 2 is a result of cross-flow that occurred from screen 1 when the Baski packer was removed for well maintanance.
C3	1	1	10/3/2017	340	340	340	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	METALS	Manganese	Mn	340	1	NM GW STD	200	1.7	2	µg/L	1		NQ	NQ	SW-846:6010C	GELC	New spring location that was added to the 2018 IFGMP.
C4	35	46	6/23/2006	25.9	414	93.6	46	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	11/1/2017	REG	F	INIT	METALS	Barium	Ba	127	1.4	LANL Int BG LVL	13.5	9.4	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	

Table 1: NMED 12-17 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
C4	35	46	6/23/2006	2.62	62.3	12.3	46	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	11/1/2017	REG	F	INIT	GENINORG	Calcium	Ca	33	2.7	LANL Int BG LVL	10.7	3.1	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	35	46	6/23/2006	13.8	610	96.75	46	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	11/1/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	89.5	0.9	LANL Int BG LVL	3.11	28.8	1.34	mg/L	20		NQ	NQ	EPA:300.0	GELC	
C4	35	46	6/23/2006	10.5	216	45.8	46	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	11/1/2017	REG	F	INIT	GENINORG	Hardness	HARDNESS	114	2.5	LANL Int BG LVL	37.8	3	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	35	46	6/23/2006	0.972	14.6	3.49	46	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	11/1/2017	REG	F	INIT	GENINORG	Magnesium	Mg	7.62	2.2	LANL Int BG LVL	3.14	2.4	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	35	46	6/23/2006	2.08	18.2	7.475	46	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	11/1/2017	REG	F	INIT	GENINORG	Potassium	K	7.38	1	LANL Int BG LVL	2.35	3.1	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	35	46	6/23/2006	23.6	347	73.15	46	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	11/1/2017	REG	F	INIT	GENINORG	Sodium	Na	61.3	0.8	LANL Int BG LVL	18.2	3.4	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	35	46	6/23/2006	15.6	375	72.75	46	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	11/1/2017	REG	F	INIT	METALS	Strontium	Sr	185	2.5	LANL Int BG LVL	59.6	3.1	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	43	48	6/9/2005	16.7	36	20.45	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/10/2017	REG	F	INIT	GENINORG	Calcium	Ca	36	1.8	LANL Int BG LVL	10.7	3.4	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	43	48	6/9/2005	4.89	14.6	6.845	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/10/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	14.6	2.1	LANL Int BG LVL	3.11	4.7	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C4	43	48	6/9/2005	54.4	118	66.95	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/10/2017	REG	F	INIT	GENINORG	Hardness	HARDNESS	118	1.8	LANL Int BG LVL	37.8	3.1	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	

Table 1: NMED 12-17 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
C4	43	48	6/9/2005	3.17	15	4.815	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/10/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	15	3.1	LANL Int BG LVL	0.459	32.7	0.85	mg/L	50		NQ	NQ	EPA:353.2	GELC	
C4	43	48	6/9/2005	68.7	202	94.3	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/10/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	202	2.1	LANL Int BG LVL	0.27	748.1	10	µg/L	200		NQ	NQ	SW-846:6850	GELC	
C4	43	48	6/9/2005	68.6	160	93.3	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/10/2017	REG	F	INIT	METALS	Strontium	Sr	160	1.7	LANL Int BG LVL	59.6	2.7	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	43	48	6/9/2005	10.1	31	14.05	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/10/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	31	2.2	LANL Int BG LVL	7.1	4.4	0.266	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C4	49	69	6/15/2005	30.1	48.2	40.5	69	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	METALS	Barium	Ba	40.9	1	LANL Int BG LVL	13.5	3	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	49	69	6/15/2005	42.8	75.5	63.9	69	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	GENINORG	Calcium	Ca	64.4	1	LANL Int BG LVL	10.7	6	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	49	69	6/15/2005	21.2	64.8	55.5	69	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	53.5	1	LANL Int BG LVL	3.11	17.2	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	49	69	6/15/2005	0.412	0.635	0.5265	66	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	GENINORG	Fluoride	F(-1)	0.473	0.9	LANL Int BG LVL	0.234	2	0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	49	69	6/15/2005	142	253	213	69	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	GENINORG	Hardness	HARDNESS	215	1	LANL Int BG LVL	37.8	5.7	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	

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C4	49	69	6/15/2005	8.49	15.7	13	69	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	GENINORG	Magnesium	Mg	13.2	1	LANL Int BG LVL	3.14	4.2	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	49	69	6/15/2005	2.9	41.8	21.9	69	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	METALS	Nickel	Ni	27.9	1.3	LANL Int BG LVL	3.65	7.6	0.6	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	49	69	6/15/2005	7.62	20.4	9.73	69	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	11.5	1.2	LANL Int BG LVL	0.459	25.1	0.85	mg/L	50		NQ	NQ	EPA:353.2	GELC	
C4	49	69	6/15/2005	56.3	246	78.6	69	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	87.5	1.1	LANL Int BG LVL	0.27	324.1	5	µg/L	100		J	PE 12d	SW-846:6850	GELC	
C4	49	69	6/15/2005	196	339	283	69	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	METALS	Strontium	Sr	283	1	LANL Int BG LVL	59.6	4.7	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	49	69	6/15/2005	34.7	77.6	59.6	69	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	53.4	0.9	LANL Int BG LVL	7.1	7.5	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	30	31	1/11/2007	30	51.3	37.6	31	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	METALS	Barium	Ba	30	0.8	LANL Int BG LVL	13.5	2.2	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	30	31	1/11/2007	54.5	87.6	69.4	31	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	GENINORG	Calcium	Ca	56.8	0.8	LANL Int BG LVL	10.7	5.3	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	30	31	1/11/2007	80.5	124	92	31	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	114	1.2	LANL Int BG LVL	3.11	36.7	1.34	mg/L	20		NQ	NQ	EPA:300.0	GELC	
C4	30	31	1/11/2007	170	270	216	31	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	GENINORG	Hardness	HARDNESS	177	0.8	LANL Int BG LVL	37.8	4.7	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	30	31	1/11/2007	8.3	13	10.4	31	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	GENINORG	Magnesium	Mg	8.51	0.8	LANL Int BG LVL	3.14	2.7	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	30	31	1/11/2007	44.9	97	76	31	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	METALS	Molybdenum	Mo	67.9	0.9	LANL Int BG LVL	2.9	23.4	0.2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	30	31	1/11/2007	0.247	4.99	2.28	31	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite	NO3+NO2-N	1.63	0.7	LANL Int	0.459	3.6	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	

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																	as Nitrogen				BG LVL											
C4	30	31	1/11/2007	0.613	1.58	0.947	31	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.826	0.9	LANL Int BG LVL	0.27	3.1	0.05	µg/L	1		NQ	NQ	SW-846:6850	GELC	
C4	30	31	1/11/2007	50.7	65.1	55.8	31	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	GENINORG	Sodium	Na	63.1	1.1	LANL Int BG LVL	18.2	3.5	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	30	31	1/11/2007	237	383	314	31	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	METALS	Strontium	Sr	250	0.8	LANL Int BG LVL	59.6	4.2	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	30	31	1/11/2007	42	112	89.9	31	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	46.9	0.5	LANL Int BG LVL	7.1	6.6	2.66	mg/L	20		NQ	NQ	EPA:300.0	GELC	
C4	36	49	10/21/2008	56.1	76.7	65.6	49	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	FD	F	INIT	METALS	Barium	Ba	75.1	1.1	LANL Int BG LVL	13.5	5.6	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	36	49	10/21/2008	56.1	76.7	65.6	49	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	REG	F	INIT	METALS	Barium	Ba	72.4	1.1	LANL Int BG LVL	13.5	5.4	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	36	49	10/21/2008	59.5	73.6	67.6	49	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	FD	F	INIT	GENINORG	Calcium	Ca	71.4	1.1	LANL Int BG LVL	10.7	6.7	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	36	49	10/21/2008	59.5	73.6	67.6	49	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	REG	F	INIT	GENINORG	Calcium	Ca	69.8	1	LANL Int BG LVL	10.7	6.5	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	36	47	10/21/2008	53.4	93	63.7	47	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	FD	F	INIT	GENINORG	Chloride	Cl(-1)	73.5	1.2	LANL Int BG LVL	3.11	23.6	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	36	47	10/21/2008	53.4	93	63.7	47	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	72.9	1.1	LANL Int BG LVL	3.11	23.4	0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	36	49	10/21/2008	204	255	232	49	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	FD	F	INIT	GENINORG	Hardness	HARDNESS	247	1.1	LANL Int BG LVL	37.8	6.5	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	36	49	10/21/2008	204	255	232	49	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	REG	F	INIT	GENINORG	Hardness	HARDNESS	241	1	LANL Int BG LVL	37.8	6.4	0.453	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	35	47	10/21/2008	13.1	17.3	15.6	47	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	FD	F	INIT	GENINORG	Magnesium	Mg	16.6	1.1	LANL Int BG LVL	3.14	5.3	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	35	47	10/21/2008	13.1	17.3	15.6	47	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	REG	F	INIT	GENINORG	Magnesium	Mg	16.1	1	LANL Int BG LVL	3.14	5.1	0.11	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	36	49	10/21/2008	14.5	19.6	16.9	49	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	FD	F	INIT	METALS	Nickel	Ni	15.9	0.9	LANL Int BG LVL	3.65	4.4	0.6	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	36	49	10/21/2008	14.5	19.6	16.9	49	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	REG	F	INIT	METALS	Nickel	Ni	17.7	1	LANL Int BG LVL	3.65	4.8	0.6	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	36	47	10/21/2008	2.89	5.1	4.25	47	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.64	0.9	LANL Int BG LVL	0.459	7.9	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	36	47	10/21/2008	2.89	5.1	4.25	47	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.08	1	LANL Int BG LVL	0.459	8.9	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	

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C4	36	47	10/21/2008	0.899	1.12	0.972	47	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	FD	F	INIT	GENINORG	Perchlorate	ClO4	0.917	0.9	LANL Int BG LVL	0.27	3.4	0.05	µg/L	1		NQ	NQ	SW-846:6850	GELC	
C4	36	47	10/21/2008	0.899	1.12	0.972	47	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.937	1	LANL Int BG LVL	0.27	3.5	0.05	µg/L	1		NQ	NQ	SW-846:6850	GELC	
C4	36	49	10/21/2008	264	353	325	49	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	FD	F	INIT	METALS	Strontium	Sr	344	1.1	LANL Int BG LVL	59.6	5.8	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	36	49	10/21/2008	264	353	325	49	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	REG	F	INIT	METALS	Strontium	Sr	336	1	LANL Int BG LVL	59.6	5.6	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	36	47	10/21/2008	77.9	103	88.7	47	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	FD	F	INIT	GENINORG	Sulfate	SO4(-2)	90.1	1	LANL Int BG LVL	7.1	12.7	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	36	47	10/21/2008	77.9	103	88.7	47	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	89.6	1	LANL Int BG LVL	7.1	12.6	1.33	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C4	50	59	5/17/2005	2.27	7.43	5.2	59	Sandia Canyon	Regional	R-11	855	11/8/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.35	1	LANL Reg BG LVL	0.769	7	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	50	59	5/17/2005	5.95	15.4	9.45	59	Sandia Canyon	Regional	R-11	855	11/8/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	9.75	1	LANL Reg BG LVL	4.59	2.1	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	47	55	2/24/2000	1.35	3.31	2.2	55	Mortandad	Regional	R-15	958.6	11/8/2017	FD	F	INIT	GENINORG	Nitrate-Nitrite	NO3+NO2-N	2.14	1	LANL Reg BG LVL	0.769	2.8	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	47	55	2/24/2000	1.35	3.31	2.2	55	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/8/2017	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.14	1	LANL Reg BG LVL	0.769	2.8	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	47	55	2/24/2000	1.35	3.31	2.2	55	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/8/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.3	1	LANL Reg BG LVL	0.769	3	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	43	50	5/25/2005	5.34	10.8	7.205	50	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/8/2017	FD	F	INIT	GENINORG	Perchlorate	ClO4	9.94	1.4	LANL Reg BG LVL	0.414	24	0.5	µg/L	10		NQ	NQ	SW-846:6850	GELC	
C4	43	50	5/25/2005	5.34	10.8	7.205	50	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-15	958.6	11/8/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	9.88	1.4	LANL Reg BG LVL	0.414	23.9	0.5	µg/L	10		NQ	NQ	SW-846:6850	GELC	
C4	38	39	8/30/2007	68	389	346	39	Sandia Canyon	Regional	R-35a	1013.1	11/6/2017	REG	F	INIT	METALS	Barium	Ba	351	1	LANL Reg BG LVL	38.1	9.2	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	37	38	8/30/2007	5.97	6.92	6.395	38	Sandia Canyon	Regional	R-35a	1013.1	11/6/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	6.26	1	LANL Reg BG LVL	2.7	2.3	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	

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C4	35	40	3/12/2008	4.05	6.63	5.96	40	Sandia Canyon	Regional	R-36	766.9	11/6/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	5.97	1	LANL Reg BG LVL	2.7	2.2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	35	41	3/12/2008	1.25	6.8	2.38	41	Sandia Canyon	Regional	R-36	766.9	11/6/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.55	1.1	LANL Reg BG LVL	0.769	3.3	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	34	39	3/12/2008	0.845	1.74	1.55	39	Sandia Canyon	Regional	R-36	766.9	11/6/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	1.35	0.9	LANL Reg BG LVL	0.414	3.3	0.05	µg/L	1		NQ	NQ	SW-846:6850	GELC	
C4	36	40	11/5/2008	3.6	9.39	6.88	40	Sandia Canyon	Regional	R-43 S1	903.9	11/9/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	8.28	1.2	LANL Reg BG LVL	2.7	3.1	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	36	45	11/5/2008	2.35	178	53.1	42	Sandia Canyon	Regional	R-43 S1	903.9	11/9/2017	REG	F	INIT	METALS	Chromium	Cr	178	3.4	LANL Reg BG LVL	7.48	23.8	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	Highest to date; increasing trend.
C4	36	41	11/5/2008	0.651	9.97	2.21	40	Sandia Canyon	Regional	R-43 S1	903.9	11/9/2017	REG	F	INIT	METALS	Nickel	Ni	5.83	2.6	LANL Reg BG LVL	2.9	2	0.6	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	36	39	11/5/2008	4.9	6.15	5.42	38	Sandia Canyon	Regional	R-43 S1	903.9	11/9/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.43	1	LANL Reg BG LVL	0.769	7.1	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	36	40	11/5/2008	0.678	1.03	0.9385	40	Sandia Canyon	Regional	R-43 S1	903.9	11/9/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.847	0.9	LANL Reg BG LVL	0.414	2	0.05	µg/L	1		NQ	NQ	SW-846:6850	GELC	
C4	36	40	11/5/2008	8.77	21	13.15	40	Sandia Canyon	Regional	R-43 S1	903.9	11/9/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	17.1	1.3	LANL Reg BG LVL	4.59	3.7	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	35	38	11/10/2008	3.37	6.3	4.115	38	Sandia Canyon	Regional	R-43 S2	969.1	11/9/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	5.88	1.4	LANL Reg BG LVL	2.7	2.2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	35	37	11/10/2008	0.389	5.4	1.89	37	Sandia Canyon	Regional	R-43 S2	969.1	11/9/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.86	2	LANL Reg BG LVL	0.769	5	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	35	38	11/10/2008	0.411	0.892	0.572	38	Sandia Canyon	Regional	R-43 S2	969.1	11/9/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.875	1.5	LANL Reg BG LVL	0.414	2.1	0.05	µg/L	1		NQ	NQ	SW-846:6850	GELC	
C4	31	37	2/28/2009	8.4	43.4	24.1	37	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	11/20/2017	REG	F	INIT	METALS	Chromium	Cr	41.7	1.7	LANL Reg BG LVL	7.48	5.6	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	31	33	2/28/2009	0.256	3.47	2.75	33	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	11/20/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.99	1.1	LANL Reg BG LVL	0.769	3.9	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	30	37	3/5/2009	6.1	47.4	12.3	36	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S2	974.9	10/31/2017	FD	F	RE	METALS	Chromium	Cr	47.4	3.9	LANL Reg BG LVL	7.48	6.3	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	Reanalysis result. Highest to date. Chromium concentration of screen 2 is a result of cross-flow that occurred from screen 1 when the Baski packer was removed for well maintanance.

Table 1: NMED 12-17 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
C4	33	38	3/6/2010	4.68	10.1	7.66	38	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/16/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	9.46	1.2	LANL Reg BG LVL	2.7	3.5	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	33	40	3/6/2010	49.8	150	97.2	40	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/16/2017	REG	F	INIT	METALS	Chromium	Cr	125	1.3	LANL Reg BG LVL	7.48	16.7	3	µg/L	1	N	J-	I6a	SW-846:6020	GELC	
C4	33	39	3/6/2010	0.398	2.72	1.65	39	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/16/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.02	1.2	LANL Reg BG LVL	0.769	2.6	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	33	38	3/6/2010	7.22	14.9	11.5	38	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	11/16/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	13.5	1.2	LANL Reg BG LVL	4.59	2.9	0.133	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	17	20	5/20/2011	2.03	23.3	19.1	19	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/17/2017	REG	F	INIT	METALS	Chromium	Cr	21.6	1.1	LANL Reg BG LVL	7.48	2.9	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	17	20	5/20/2011	0.427	2.31	1.885	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/17/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.97	1	LANL Reg BG LVL	0.769	2.6	0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	17	20	5/20/2011	2.96	11.9	7.395	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/17/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	11.9	1.6	LANL Reg BG LVL	0.414	28.7	0.5	µg/L	10		J	PE 12d	SW-846:6850	GELC	Highest to date.
C4	22	28	3/26/2012	1.64	14.7	8.63	28	Sandia Canyon	Regional	R-62	1158.4	11/17/2017	REG	F	INIT	GENINORG	Chloride	Cl(-1)	14.7	1.7	LANL Reg BG LVL	2.7	5.4	0.134	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C4	22	28	3/26/2012	104	260	143	28	Sandia Canyon	Regional	R-62	1158.4	11/17/2017	REG	F	INIT	METALS	Chromium	Cr	260	1.8	LANL Reg BG LVL	7.48	34.8	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	Highest to date; chromium concentration has increased for the third consecutive sampling.
C4	22	28	3/26/2012	2.56	26.4	14.8	28	Sandia Canyon	Regional	R-62	1158.4	11/17/2017	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	26.4	1.8	LANL Reg BG LVL	4.59	5.8	0.266	mg/L	2		NQ	NQ	EPA:300.0	GELC	Highest to date.

Table 1: NMED 12-17 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
C4	15	22	10/23/2001	81.1	239	92.35	22	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/3/2017	REG	F	INIT	METALS	Barium	Ba	120	1.3	LANL Reg BG LVL	38.1	3.1	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	18	27	10/19/2000	30	68.8	35.7	27	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/3/2017	REG	F	INIT	GENINORG	Calcium	Ca	46.1	1.3	LANL Reg BG LVL	17.03	2.7	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	15	22	10/23/2001	402	665	448	22	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/3/2017	REG	F	INIT	METALS	Strontium	Sr	512	1.1	LANL Reg BG LVL	157	3.3	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C5	43	48	6/9/2005	68.7	202	94.3	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/10/2017	REG	F	INIT	GENINORG	Perchlorate	ClO4	202	2.1	NMED A1 TAP SCRN LVL	13.8	14.6	10	µg/L	200		NQ	NQ	SW-846:6850	GELC	The result is the highest value to date. Perchlorate concentration has increased for the third consecutive times.
C5	49	69	6/15/2005	7.62	20.4	9.73	69	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	11.5	1.2	EPA MCL	10	1.1	0.85	mg/L	50		NQ	NQ	EPA:353.2	GELC	
C5	30	37	3/5/2009	6.1	47.4	12.3	36	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S2	974.9	10/31/2017	FD	F	RE	METALS	Chromium	Cr	47.4	3.9	NM GW STD	50	0.9	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	Reanalysis result. Highest to date. Chromium concentration of screen 2 is a result of cross-flow that occurred from screen 1 when the Baski packer was removed for well maintanance.
C5	22	28	3/26/2012	104	260	143	28	Sandia Canyon	Regional	R-62	1158.4	11/17/2017	REG	F	INIT	METALS	Chromium	Cr	260	1.8	NM GW STD	50	5.2	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	Highest to date; has increased for the third consecutive sampling.
C5	15	22	10/23/2001	36.3	946	122	20	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/3/2017	REG	F	INIT	METALS	Iron	Fe	946	7.8	NM GW STD	1000	0.9	30	µg/L	1		NQ	NQ	SW-846:6010C	GELC	The result is the highest to date. Iron concentration has increased for the third consecutive time.
CA	1	1	10/3/2017	340	340	340	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	METALS	Manganese	Mn	340	1	NM GW STD	200	1.7	2	µg/L	1		NQ	NQ	SW-846:6010C	GELC	New spring location that was added to the 2018 IFGMP.

Table 2: NMED 12-17 Groundwater Report Addendum

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
XC2scr	25	27	2/9/2004	0.0025	0.0025	0.0025	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-14 S1	1200.6	11/8/2017	REG	UF	INIT	GENINORG	Cyanide (Total)	CN (Total)	0.0025	1	Reg-Scr_95	0.0017	1.5	0.0017	mg/L	1	J	J	J_LAB	EPA:335.4	GELC	
XC2scr	31	33	2/28/2009	1.52	1.52	1.52	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	11/20/2017	REG	F	INIT	METALS	Lead	Pb	1.52	1	Reg-Scr_95	0.5	3	0.5	µg/L	1	J	J	J_LAB	SW-846:6020	GELC	
XC2scr	31	33	2/28/2009	1.08	2.05	1.565	2	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-45 S1	880	11/20/2017	REG	F	INIT	METALS	Selenium	Se	2.05	1.3	Reg-Scr_95	1.5	1.4	2	µg/L	1	J	J	J_LAB	SW-846:6020	GELC	
XC2scr	17	20	5/20/2011	2.78	2.78	2.78	1	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/17/2017	REG	F	INIT	METALS	Arsenic	As	2.78	1	Reg-Scr_95	2.7	1	2	µg/L	1	J	J	J_LAB	SW-846:6020	GELC	
XC2scr	22	28	3/26/2012	355	355	355	1	Sandia Canyon	Regional	R-62	1158.4	11/17/2017	REG	F	INIT	METALS	Aluminum	Al	355	1	Reg-Scr_95	68	5.2	68	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC2scr	22	28	3/26/2012	232	232	232	1	Sandia Canyon	Regional	R-62	1158.4	11/17/2017	REG	F	INIT	METALS	Iron	Fe	232	1	Reg-Scr_95	53.8	4.3	30	µg/L	1		NQ	NQ	SW-846:6010C	GELC	Potential reducing conditions - Evidence evaluated during manual review for reducing conditions is inconclusive.
XC2scr	22	28	3/26/2012	9.87	12.6	11.235	2	Sandia Canyon	Regional	R-62	1158.4	11/17/2017	REG	F	INIT	METALS	Manganese	Mn	12.6	1.1	Reg-Scr_95	12.1	1	2	µg/L	1		NQ	NQ	SW-846:6010C	GELC	Potential reducing conditions - Evidence evaluated during manual review for reducing conditions is inconclusive.
XC2scr	1	1	10/3/2017	0.151	0.151	0.151	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.151	1	Reg-Scr_95	0.1	1.5	0.017	mg/L	1		J+	I4a	EPA:350.1	GELC	New spring location that was added to the 2018 IFGMP.

Table 2: NMED 12-17 Groundwater Report Addendum

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
XC2scr	1	1	10/3/2017	3.24	3.24	3.24	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	METALS	Arsenic	As	3.24	1	Reg-Scr_95	2.7	1.2	2	µg/L	1	J	J	J_LAB	SW-846:6020	GELC	New spring location that was added to the 2018 IFGMP.
XC2scr	1	1	10/3/2017	22.6	22.6	22.6	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	METALS	Boron	B	22.6	1	Reg-Scr_95	18.7	1.2	15	µg/L	1	J	J	J_LAB	SW-846:6010C	GELC	New spring location that was added to the 2018 IFGMP.
XC2scr	1	1	10/3/2017	0.0697	0.0697	0.0697	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.0697	1	Reg-Scr_95	0.067	1	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	New spring location that was added to the 2018 IFGMP.
XC2scr	1	1	10/3/2017	1.67	1.67	1.67	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	METALS	Cobalt	Co	1.67	1	Reg-Scr_95	1	1.7	1	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	New spring location that was added to the 2018 IFGMP.
XC2scr	1	1	10/3/2017	340	340	340	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	METALS	Manganese	Mn	340	1	Reg-Scr_95	12.1	28.1	2	ug/L	1		NQ	NQ	SW-846:6010C	GELC	New spring location that was added to the 2018 IFGMP.
XC2scr	1	1	10/3/2017	0.141	0.141	0.141	1	White Rock Canyon and Rio Grande	Regional Spring	Lower Sandia Spring	0	10/3/2017	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.141	1	Reg-Scr_95	0.0822	1.7	0.02	mg/L	1		NQ	NQ	EPA:365.4	GELC	New spring location that was added to the 2018 IFGMP.
XC2scr	18	27	10/19/2000	0.022	3.82	0.041	7	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/3/2017	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	3.82	93.2	Reg-Scr_95	0.0822	46.5	0.1	mg/L	5		NQ	NQ	EPA:365.4	GELC	
XC4scr	35	46	6/23/2006	81.1	35600	2220	45	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	11/1/2017	REG	F	INIT	METALS	Aluminum	Al	226	0.1	Int-Scr_95	68	3.3	68	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	35	46	6/23/2006	94.7	21300	1500	43	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	11/1/2017	REG	F	INIT	METALS	Iron	Fe	142	0.1	Int-Scr_95	54.1	2.6	30	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	35	48	6/23/2006	107	1230	303	48	Pajarito Canyon (includes Twomile and Threemile Canyons)	Intermediate	03-B-13	21.5	11/1/2017	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	316	1	Int-Scr_95	135	2.3	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	

Table 2: NMED 12-17 Groundwater Report Addendum

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
XC4scr	43	48	6/9/2005	0.083	0.234	0.137	42	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-5	689.04	11/10/2017	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.234	1.7	Int-Scr_95	0.0716	3.3	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
XC4scr	49	69	6/15/2005	25.4	56	45.3	69	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	METALS	Boron	B	52.3	1.2	Int-Scr_95	16.2	3.2	15	ug/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	49	69	6/15/2005	0.212	0.703	0.5745	66	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.516	0.9	Int-Scr_95	0.0716	7.2	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
XC4scr	49	72	6/15/2005	29.4	86.6	57.7	72	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	METALS	Chromium	Cr	69.4	1.2	Int-Scr_95	2.72	25.5	3	ug/L	1		NQ	NQ	SW-846:6020	GELC	
XC4scr	49	69	6/15/2005	298	497	404	69	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	11/9/2017	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	391	1	Int-Scr_95	135	2.9	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
XC4scr	30	31	1/11/2007	40.8	99.4	84.75	30	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	METALS	Boron	B	40.8	0.5	Int-Scr_95	16.2	2.5	15	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
XC4scr	30	31	1/11/2007	0.592	1.53	0.9885	30	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.609	0.6	Int-Scr_95	0.0716	8.5	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
XC4scr	30	31	1/11/2007	357	536	485	31	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	431	0.9	Int-Scr_95	135	3.2	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
XC4scr	30	31	1/11/2007	0.404	1.45	0.884	30	Sandia Canyon	Intermediate	SCI-1	358.4	11/13/2017	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	1.31	1.5	Int-Scr_95	0.178	7.4	0.02	mg/L	1		NQ	NQ	EPA:365.4	GELC	
XC4scr	36	47	10/21/2008	0.194	0.695	0.582	46	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	FD	F	INIT	GENINORG	Bromide	Br(-1)	0.695	1.2	Int-Scr_95	0.0716	9.7	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
XC4scr	36	47	10/21/2008	0.194	0.695	0.582	46	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.688	1.2	Int-Scr_95	0.0716	9.6	0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
XC4scr	36	54	10/21/2008	331	658	449.5	54	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	FD	F	INIT	METALS	Chromium	Cr	331	0.7	Int-Scr_95	2.72	121.7	30	ug/L	10		NQ	NQ	SW-846:6020	GELC	
XC4scr	36	54	10/21/2008	331	658	449.5	54	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	REG	F	INIT	METALS	Chromium	Cr	387	0.9	Int-Scr_95	2.72	142.3	30	ug/L	10		NQ	NQ	SW-846:6020	GELC	
XC4scr	26	33	10/21/2008	0.00449	0.304	0.00694	33	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	FD	UF	INIT	GENINORG	Cyanide (Total)	CN (Total)	0.00627	0.9	Int-Scr_95	0.0017	3.7	0.0017	mg/L	1		NQ	NQ	EPA:335.4	GELC	
XC4scr	26	33	10/21/2008	0.00449	0.304	0.00694	33	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	REG	UF	INIT	GENINORG	Cyanide (Total)	CN (Total)	0.00659	0.9	Int-Scr_95	0.0017	3.9	0.0017	mg/L	1		NQ	NQ	EPA:335.4	GELC	
XC4scr	36	48	10/21/2008	354	796	424	48	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	FD	F	INIT	GENINORG	Total Dissolved Solids	TDS	423	1	Int-Scr_95	135	3.1	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	

Table 2: NMED 12-17 Groundwater Report Addendum

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
XC4scr	36	48	10/21/2008	354	796	424	48	Sandia Canyon	Intermediate	SCI-2	548	11/13/2017	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	473	1.1	Int-Scr_95	135	3.5	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
XC4scr	38	39	8/30/2007	20.6	47.8	39	39	Sandia Canyon	Regional	R-35a	1013.1	11/6/2017	REG	F	INIT	METALS	Boron	B	38.8	1	Reg-Scr_95	18.7	2.1	15	ug/L	1	J	J	J_LAB	SW-846:6010C	GELC	
XC4scr	17	20	5/20/2011	0.0531	11.8	1.74	17	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	11/17/2017	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.614	0.4	Reg-Scr_95	0.0822	7.5	0.02	mg/L	1		NQ	NQ	EPA:365.4	GELC	
XC4scr	15	22	10/23/2001	36.3	946	122	20	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/3/2017	REG	F	INIT	METALS	Iron	Fe	946	7.8	Reg-Scr_95	53.8	17.6	30	ug/L	1		NQ	NQ	SW-846:6010C	GELC	The result is the highest to date. Iron concentration has increased for the third consecutive times.
XC4scr	15	22	10/23/2001	32.8	994	197	20	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/3/2017	REG	F	INIT	METALS	Manganese	Mn	302	1.5	Reg-Scr_95	12.1	25	2	ug/L	1		NQ	NQ	SW-846:6010C	GELC	