



DEPARTMENT OF ENERGY
Environmental Management Los Alamos Field Office (EM-LA)
Los Alamos, New Mexico 87544

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



JUN 25 2019

Dear Mr. Kieling:

Subject: Monthly Notification of Groundwater Data Reviewed in June 2019

This letter is the U.S. Department of Energy (DOE) Environmental Management Los Alamos Field Office (EM-LA) and Newport News Nuclear BWXT-Los Alamos, LLC (N3B) written submission in accordance with Section XXVI.D of the 2016 Compliance Order on Consent (Consent Order). Members of EM-LA and N3B met on June 13, 2019, to review groundwater data received in May 2019 in accordance with Section XXVI.C of the 2016 Consent Order. The enclosed 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.

The enclosed report was prepared using the November 2018 EPA regional screening levels for tap water; the NMWQCC groundwater standards, published December 21, 2018; and the February 2019 Table A-1 of "Risk Assessment Guidance for Site Investigations and Remediation" for NMED tap water screening levels.

1-Day Notification

There were seven instances of a contaminant detected at a concentration that exceeded the NMWQCC groundwater standard or federal MCL at locations where contaminants have not previously been detected above the respective standard as defined in the Consent Order (based on samples collected since June 14, 2007).

A filtered sample collected on April 17, 2019, from alluvial well 18-MW-18 was measured at 10.90 mg/L for nitrate-nitrite as nitrogen, above the 10-mg/L EPA MCL.

A filtered sample collected on March 15, 2019, from alluvial well WCO-1r was measured at 1560 µg/L for iron, above the 1000-µg/L NMWQCC groundwater standard.

A filtered sample collected on March 18, 2019, from intermediate perched well R-25b was measured at 1120 µg/L for iron, above the 1000-µg/L NMWQCC groundwater standard.

A filtered sample collected on March 16, 2019, from intermediate spring Burning Ground Spring was measured at 1390 µg/L for iron, above the 1000-µg/L NMWQCC groundwater standard.

A filtered sample collected on March 16, 2019, from alluvial well CdV-16-02657r was measured at 1430 µg/L and 2160 µg/L for iron and barium, above the 1000-µg/L and 2000-µg/L NMWQCC groundwater standards, respectively.

An unfiltered sample collected on March 16, 2019, from alluvial well CdV-16-02657r was measured at 148 µg/L for hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX), above the 9.66-µg/L NMED tap water screening level specified in Table A-1 of "Risk Assessment Guidance for Site Investigations and Remediation" for NMED.

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 Steve Veenis at (505) 309-1362 (steve.veenis@em-la.doe.gov) or Hai Shen at (505) 665-5046 (hai.shen@em.doe.gov).

Sincerely,



Arturo Q. Duran
Compliance and Permitting Manager
Environmental Management
Los Alamos Field Office

Enclosure:

1. Two hard copies with electronic files - Summary of Groundwater Data Reviewed in June 2019 That Meet Notification Requirements (EM2019-0218)

cc (letter with CD/DVD enclosure[s]):

H. Burgess, Los Alamos County, Los Alamos, NM (2 copies)

cc (letter and enclosure[s] emailed):

L. King, EPA Region 6, Dallas, TX

R. Martinez, San Ildefonso Pueblo, NM

D. Chavarria, Santa Clara Pueblo, NM

D. Gomez, Los Alamos County, Los Alamos, NM

M. Hunter, NMED
S. Pullen, NMED
A.C. Romero, NMED
M. Sandoval, NMED
S. Yanicak, NMED
J. Buckley, LANL
L. Dale, LANL
B. Iacona, LANL
W. Mairson, LANL
J. Meadows, LANL
E. Torres, LANL
E. Day, N3B
M. Ding, N3B
E. Evered, N3B
L. Huntoon, N3B
D. Katzman, N3B
J. Legare, N3B
F. Lockhart, N3B
G. Morgan, N3B
B. Robinson, N3B
S. Veenis, N3B
K. Armijo, NA-LA
P. Maggiore, NA-LA
A. Duran, EM-LA
D. Nickless, EM-LA
D. Rhodes, EM-LA
C. Rodriguez, EM-LA
H. Shen, EM-LA
emla.docs@em.doe.gov
N3B Records
Public Reading Room (EPRR)
PRS Website

EM-LA-40AD-00465

SUMMARY OF GROUNDWATER DATA REVIEWED IN JUNE 2019 THAT MEET NOTIFICATION REQUIREMENTS

INTRODUCTION

This report provides information to the New Mexico Environment Department (NMED) concerning recent groundwater monitoring data obtained by Newport News Nuclear BWXT-Los Alamos, LLC (N3B) under the annual “Interim Facility-Wide Groundwater Monitoring Plan” for the 2019 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 at Los Alamos National Laboratory as indicated in the tables.

The report includes two tables. Table 1, NMED 05-19 Groundwater Report, presents results since June 14, 2007, that met the five reporting criteria as specified in the 2016 Consent Order. Table 2, NMED 05-19 Groundwater Report Addendum, presents results that exceed the 95th percentile of those results in the data set defined in the “Groundwater Background Investigation Report, Revision 5.” Only the contaminants and other chemical constituents that lack 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 N3B to NMED to identify the potential risk resulting from contaminants and other chemical constituents which are 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 2016 Consent Order. This report was prepared using the November 2018 EPA regional screening levels for tap water, the NMWQCC groundwater standards published December 21, 2018, and the NMED tap water screening levels specified in the February 2019 Table A-1 of “Risk Assessment Guidance for Site Investigations and Remediation.”

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 date that shows detection of a contaminant in a well screen interval or spring at a concentration that exceeds either the NMWQCC water quality standard or the EPA MCL if that contaminant has not previously exceeded such water quality standard or MCL in the well screen interval or spring. N3B, under the U.S. Department of Energy Office of Environmental Management, 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. In several cases, data met more than one of the notification criteria and therefore appear in the table multiple times.

The criteria codes (the “C” stands for criterion) and their definitions 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” (February 2019), 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 2 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 organic/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:

Canyon—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—date the sample was collected

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 Qualifier—analytical laboratory qualifiers indicating analytical quality of the sample data

Validation Qualifier—the qualifier that indicates the effects of all processes associated with the sample (i.e., sample collection, additional quality control samples such as field duplicates, etc.) on the quality of the sample data

Validation Reason Code—an explanation of the reason for validation of the qualifiers

Anyl Meth Code—analytical method number

Lab Code—analytical laboratory name

Comment—N3B comment regarding the analytical result

The tables may include the following acronyms, abbreviations, and analytical laboratory codes and qualifiers.

Acronyms and Abbreviations

DNX—hexahydro-1,3-dinitro-5-nitro-1,3,5-triazine

EPA MCL—U.S. Environmental Protection Agency maximum contaminant level

HMX—octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine

HEXP—high explosive

LANL Int BG LV—Los Alamos National Laboratory intermediate background level

LANL Reg BG LV—Los Alamos National Laboratory regional background level

LCMS/MS—liquid chromatography mass spectrometry/mass spectrometry

MNX—hexahydro-1-nitroso-3,5-dinitro-1,3,5-triazine

NM GW STD—New Mexico Water Quality Control Commission groundwater standard

NMED A1 TAP SCRNLVL—New Mexico Environment Department screen level for tap water

NTU—nephelometric turbidity unit

RDX—Royal Demolition Explosive (hexahydro-1,3,5-trinitro-1,3,5-triazine)

SVOC—semivolatile organic compound

TDS—total dissolved solids

TNX—2,4,6-trinitroxylyene

UOM—units of measurement

VOC—Volatile organic compound

Analytical Laboratory Codes and Qualifiers

I4a (Validation reason code)—The affected analyte is considered estimated and biased high because this analyte was identified in the method blank but was greater than 5 times the concentration of the affected analyte in the sample.

BJ (Lab qualifier)—Analyte is present in the blank, and the associated numerical value is an estimated quantity.

F—filtered

FD—field duplicate

GELC—General Engineering Laboratories, Inc., Charleston, SC.

GENINORG—general inorganic

INIT—primary sample

J (Lab qualifier)—The associated numerical value is an estimated quantity.

J (Validation qualifier)—The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual.

J- (Validation qualifier)—The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual with a potential positive bias.

J_LAB (Validation reason code)—The analytical laboratory qualified the detected result as estimated (J) because the result was less than the PQL but greater than the MDL.

MDL—Method detection limit

N (Lab qualifier)—Spiked sample recovery is not within control limits.

NQ (Validation qualifier)—No validation qualifier flag is associated with this result, and the analyte is classified as detected.

NQ (Validation reason code)—The analytical laboratory did not qualify the analyte as not detected and/or with any other standard qualifier. The analyte is detected in the sample.

PQL—Practical quantitation limit

RE—reanalysis

REG—regular sample

UF—Unfiltered

V9b—The preserved sample was analyzed outside the 14-day holding time or the unpreserved sample was analyzed outside the 7-day holding time.

Table 1: NMED 05-19 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fid QC Type Code	Fid Prep Code	Lab Sample Type Code	AnyI Suite Code	Analyte Desc	Analyte	Std Result	Result/Median	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std MDL	Std UOM	Dilution Factor	Lab Qualifier	Validation Qualifier	Validation Reason Code	AnyI Meth Code	Lab Code	Comment
C1	46	50	3/23/2000	0.36	0.36	0.36	1	Water Canyon	Alluvial	CDV-16-02656	3	3/16/2019	REG	UF	INIT	VOC	Dichlorobenzene[1,3-]	541-73-1	0.36	1				0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	31	32	7/23/2001	0.24	0.33	0.2855	2	Water Canyon	Alluvial	CDV-16-02656	3	3/16/2019	REG	UF	INIT	LCMS/MS High Explosives	MNX	MNX	0.24	0.8				0.09	µg/L	2	J	J	J_LAB	SW-846:8330B	GELC	
C1	23	23	11/14/2000	0.35	0.35	0.35	1	Water Canyon	Alluvial	MSC-16-06294	3	3/15/2019	REG	UF	INIT	VOC	Dichlorobenzene[1,3-]	541-73-1	0.35	1				0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	1	1	3/15/2019	1.08	1.08	1.08	1	Water Canyon	Alluvial	WCO-1r	6	3/15/2019	REG	UF	INIT	HEXP	HMX	2691-41-0	1.08	1	NMED A1 TAP SCRNLVL	1000	0	0.09	µg/L	2		NQ	NQ	SW-846:8330B	GELC	
C1	1	1	3/15/2019	0.30	0.301	0.301	1	Water Canyon	Alluvial	WCO-1r	6	3/15/2019	REG	UF	INIT	HEXP	Nitrotoluene[4-]	99-99-0	0.30	1	NMED A1 TAP SCRNLVL	42.7	0	0.17	µg/L	2	J	J	J_LAB	SW-846:8330B	GELC	
C1	1	1	3/15/2019	0.20	0.2	0.2	1	Water Canyon	Alluvial	WCO-1r	6	3/15/2019	REG	UF	INIT	HEXP	RDX	121-82-4	0.20	1	NMED A1 TAP SCRNLVL	9.66	0	0.09	µg/L	2	J	J	J_LAB	SW-846:8330B	GELC	
C1	38	49	6/23/2006	0.32	0.32	0.32	1	Pajarito Canyon	Intermediate Perched	03-B-13	22	4/16/2019	REG	UF	INIT	VOC	Toluene	108-88-3	0.32	1	NM GW STD	750	0	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	25	27	9/6/2007	2.55	2.55	2.55	1	Pajarito Canyon	Intermediate Perched	R-23i S1	400	4/11/2019	REG	UF	INIT	VOC	Acetone	67-64-1	2.55	1	NMED A1 TAP SCRNLVL	14100	0	1.5	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	16	16	1/5/2009	3.24	3.24	3.24	1	Water Canyon	Intermediate Perched	R-25b	750	3/18/2019	REG	UF	INIT	VOC	Acetone	67-64-1	3.24	1	NMED A1 TAP SCRNLVL	14100	0	1.5	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	48	61	3/21/2000	0.41	0.41	0.41	1	Water Canyon	Intermediate Spring	Burning Ground Spring	0	3/16/2019	REG	UF	INIT	VOC	Dichlorobenzene[1,3-]	541-73-1	0.41	1				0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	20	20	3/21/2000	0.51	0.51	0.51	1	Water Canyon	Intermediate Spring	SWSC Spring	0	3/16/2019	REG	UF	INIT	VOC	Dichlorobenzene[1,3-]	541-73-1	0.51	1				0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	29	37	3/10/2004	2.14	2.14	2.14	1	Pajarito Canyon	Regional Deep	R-20 S2	1147	4/10/2019	REG	UF	INIT	VOC	Butanone[2-]	78-93-3	2.14	1	NMED A1 TAP SCRNLVL	5560	0	1.5	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	29	37	3/10/2004	3.56	3.56	3.56	1	Pajarito Canyon	Regional Deep	R-20 S2	1147	4/10/2019	REG	UF	INIT	VOC	Methylene Chloride	75-09-2	3.56	1	NM GW STD	5	0.7	1	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C1	1	1	3/16/2019	4.31	4.31	4.31	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	UF	INIT	HEXP	Amino-2,6-dinitrotoluene[4-]	19406-51-0	4.31	1	EPA TAP SCRNLVL	39	0.1	0.09	µg/L	2		NQ	NQ	SW-846:8330B	GELC	new well
C1	1	1	3/16/2019	4.64	4.64	4.64	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	UF	INIT	HEXP	Amino-4,6-dinitrotoluene[2-]	35572-78-2	4.64	1	EPA TAP SCRNLVL	39	0.1	0.09	µg/L	2		NQ	NQ	SW-846:8330B	GELC	new well
C1	1	1	3/16/2019	0.40	0.4	0.4	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	UF	INIT	VOC	Dichlorobenzene[1,3-]	541-73-1	0.40	1				0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	new well
C1	1	1	3/16/2019	1.47	1.47	1.47	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	UF	INIT	LCMS/MS High Explosives	DNX	DNX	1.47	1				0.09	µg/L	2		NQ	NQ	SW-846:8330B	GELC	new well
C1	1	1	3/16/2019	403.00	403	403	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	UF	INIT	HEXP	HMX	2691-41-0	403.00	1	NMED A1 TAP SCRNLVL	1000	0.4	8.7	µg/L	200		NQ	NQ	SW-846:8330B	GELC	new well
C1	1	1	3/16/2019	9.02	9.02	9.02	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	UF	DL	LCMS/MS High Explosives	MNX	MNX	9.02	1				1.09	µg/L	25		NQ	NQ	SW-846:8330B	GELC	new well
C1	1	1	3/16/2019	148.00	148	148	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	UF	INIT	HEXP	RDX	121-82-4	148.00	1	NMED A1 TAP SCRNLVL	9.66	21.1	8.7	µg/L	200		NQ	NQ	SW-846:8330B	GELC	new well
C1	1	1	3/16/2019	0.20	0.195	0.195	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	UF	INIT	LCMS/MS High Explosives	TNX	TNX	0.20	1				0.09	µg/L	2	J	J	J_LAB	SW-846:8330B	GELC	new well
C1	1	1	3/16/2019	0.23	0.23	0.23	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	UF	INIT	HEXP	Trinitrotoluene[2,4,6-]	118-96-7	0.23	1	NMED A1 TAP SCRNLVL	9.8	0	0.09	µg/L	2	J	J	J_LAB	SW-846:8330B	GELC	new well
C3	23	30	8/28/2006	103.00	1140	355.5	30	Pajarito Canyon	Alluvial	18-MW-18	13	4/17/2019	FD	F	INIT	METALS	Barium	Ba	1120.00	3.2	NM GW STD	2000	1.1	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C3	23	30	8/28/2006	103.00	1140	355.5	30	Pajarito Canyon	Alluvial	18-MW-18	13	4/17/2019	REG	F	INIT	METALS	Barium	Ba	1140.00	3.2	NM GW STD	2000	1.1	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	

Table 1: NMED 05-19 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fld OC 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 Qualifier	Validation Qualifier	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C3	22	29	8/28/2006	0.58	10.9	1.17	29	Pajarito Canyon	Alluvial	18-MW-18	13	4/17/2019	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	9.70	8.3	EPA MCL	10	1	0.85	mg/L	50		NQ	NQ	EPA:353.2	GELC	
C3	22	29	8/28/2006	0.58	10.9	1.17	29	Pajarito Canyon	Alluvial	18-MW-18	13	4/17/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	10.90	9.3	EPA MCL	10	1.1	0.85	mg/L	50		NQ	NQ	EPA:353.2	GELC	
C3	52	57	3/23/2000	1.86	5.94	2.75	6	Water Canyon	Alluvial	CDV-16-02656	3	3/16/2019	REG	F	INIT	METALS	Arsenic	As	5.94	2.2	NM GW STD	10	0.6	2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C3	2	2	9/20/2010	346.00	3060	1703	2	Water Canyon	Alluvial	WCO-1r	6	3/15/2019	REG	F	INIT	METALS	Aluminum	Al	3060.00	1.8	NM GW STD	5000	0.6	68	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C3	2	2	9/20/2010	137.00	1560	848.5	2	Water Canyon	Alluvial	WCO-1r	6	3/15/2019	REG	F	INIT	METALS	Iron	Fe	1560.00	1.8	NM GW STD	1000	1.6	30	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C3	74	89	1/10/2000	16.20	2700	338	63	Water Canyon	Intermediate Spring	Burning Ground Spring	0	3/16/2019	REG	F	INIT	METALS	Aluminum	Al	2700.00	8	NM GW STD	5000	0.5	68	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C3	73	88	1/10/2000	1.79	5.4	2.52	6	Water Canyon	Intermediate Spring	Burning Ground Spring	0	3/16/2019	REG	F	INIT	METALS	Arsenic	As	5.40	2.1	NM GW STD	10	0.5	2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C3	35	35	1/10/2000	1.80	5.08	3.44	2	Water Canyon	Intermediate Spring	SWSC Spring	0	3/16/2019	REG	F	INIT	METALS	Arsenic	As	5.08	1.5	NM GW STD	10	0.5	2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C3	29	37	3/10/2004	3.56	3.56	3.56	1	Pajarito Canyon	Regional Deep	R-20 S2	1147	4/10/2019	REG	UF	INIT	VOC	Methylene Chloride	75-09-2	3.56	1	NM GW STD	5	0.7	1	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	
C3	1	1	3/16/2019	2670.00	2670	2670	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	F	INIT	METALS	Aluminum	Al	2670.00	1	NM GW STD	5000	0.5	68	µg/L	1		NQ	NQ	SW-846:6010C	GELC	new well
C3	1	1	3/16/2019	5.64	5.64	5.64	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	F	INIT	METALS	Arsenic	As	5.64	1	NM GW STD	10	0.6	2	µg/L	1		NQ	NQ	SW-846:6020	GELC	new well
C3	1	1	3/16/2019	2160.00	2160	2160	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	F	INIT	METALS	Barium	Ba	2160.00	1	NM GW STD	2000	2.2	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	new well
C3	1	1	3/16/2019	1430.00	1430	1430	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	F	INIT	METALS	Iron	Fe	1430.00	1	NM GW STD	1000	1.4	30	µg/L	1		NQ	NQ	SW-846:6010C	GELC	new well
C3	1	1	3/16/2019	148.00	148	148	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	UF	INIT	HEXP	RDX	121-82-4	148.00	1	NMED A1 TAP SCRNLVL	9.66	21.1	8.7	µg/L	200		NQ	NQ	SW-846:8330B	GELC	new well
C4	38	50	6/23/2006	25.90	414	96.9	50	Pajarito Canyon	Intermediate Perched	03-B-13	22	4/16/2019	REG	F	INIT	METALS	Barium	Ba	169.00	1.7	LANL Int BG LVL	13.5	12.5	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	38	50	6/23/2006	2.62	62.3	13.75	50	Pajarito Canyon	Intermediate Perched	03-B-13	22	4/16/2019	REG	F	INIT	GENINORG	Calcium	Ca	44.90	3.3	LANL Int BG LVL	10.7	4.2	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	38	50	6/23/2006	13.80	610	94.85	50	Pajarito Canyon	Intermediate Perched	03-B-13	22	4/16/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	215.00	2.3	LANL Int BG LVL	3.11	69.1	3.35	mg/L	50		NQ	NQ	EPA:300.0	GELC	
C4	38	50	6/23/2006	10.50	216	49.8	50	Pajarito Canyon	Intermediate Perched	03-B-13	22	4/16/2019	REG	F	INIT	GENINORG	Hardness	HARDNESS	154.00	3.1	LANL Int BG LVL	37.8	4.1	0.45	mg/L	1		NQ	NQ	SM:A2340B	GELC	
C4	38	50	6/23/2006	0.02	3.96	0.305	42	Pajarito Canyon	Intermediate Perched	03-B-13	22	4/16/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.09	6.9	LANL Int BG LVL	0.459	4.6	0.09	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	38	50	6/23/2006	2.08	18.2	7.34	50	Pajarito Canyon	Intermediate Perched	03-B-13	22	4/16/2019	REG	F	INIT	GENINORG	Potassium	K	6.65	0.9	LANL Int BG LVL	2.35	2.8	0.05	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	38	50	6/23/2006	23.60	347	67.65	50	Pajarito Canyon	Intermediate Perched	03-B-13	22	4/16/2019	REG	F	INIT	GENINORG	Sodium	Na	87.30	1.3	LANL Int BG LVL	18.2	4.8	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	38	50	6/23/2006	15.60	375	79.9	50	Pajarito Canyon	Intermediate Perched	03-B-13	22	4/16/2019	REG	F	INIT	METALS	Strontium	Sr	264.00	3.3	LANL Int BG LVL	59.6	4.4	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	20	21	1/5/2009	8.71	246	17.2	21	Water Canyon	Intermediate Perched	R-25b	750	3/18/2019	REG	F	INIT	GENINORG	Sodium	Na	74.90	4.4	LANL Int BG LVL	18.2	4.1	0.1	mg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	74	89	1/10/2000	145.00	1030	189	83	Water Canyon	Intermediate Spring	Burning Ground Spring	0	3/16/2019	REG	F	INIT	METALS	Barium	Ba	248.00	1.3	LANL Int BG LVL	13.5	18.4	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	26	31	1/29/2007	13.80	42	19.5	31	Water Canyon	Intermediate Spring	Burning Ground Spring	0	3/16/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	37.20	1.9	LANL Int BG LVL	3.11	12	0.34	mg/L	5		NQ	NQ	EPA:300.0	GELC	
C4	26	31	1/29/2007	0.32	2.12	1.055	30	Water Canyon	Intermediate Spring	Burning Ground Spring	0	3/16/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.19	1.1	LANL Int BG LVL	0.459	2.6	0.09	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C4	25	30	1/29/2007	0.45	0.717	0.5865	30	Water Canyon	Intermediate Spring	Burning Ground Spring	0	3/16/2019	REG	F	INIT	GENINORG	Perchlorate	ClO4	0.54	0.9	LANL Int BG LVL	0.27	2	0.05	µg/L	1		NQ	NQ	SW-846:6850	GELC	

Table 1: NMED 05-19 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	Zone	Location	Screen Depth	Start Date	Fld OC 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 Qualifier	Validation Qualifier	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
C4	17	29	9/9/2004	30.70	64.4	41.8	29	Pajarito Canyon	Intermediate Spring	Homestead Spring	0	4/26/2019	REG	F	INIT	METALS	Barium	Ba	38.20	0.9	LANL Int BG LVL	13.5	2.8	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	17	29	9/9/2004	3.72	24.5	9.71	29	Pajarito Canyon	Intermediate Spring	Homestead Spring	0	4/26/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	11.30	1.2	LANL Int BG LVL	3.11	3.6	0.13	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C4	17	18	9/10/2004	33.70	70.2	46.85	18	Pajarito Canyon	Intermediate Spring	Starmer Spring	0	4/26/2019	REG	F	INIT	METALS	Barium	Ba	38.40	0.8	LANL Int BG LVL	13.5	2.8	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	17	18	9/10/2004	3.57	25.1	14.95	18	Pajarito Canyon	Intermediate Spring	Starmer Spring	0	4/26/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	11.20	0.7	LANL Int BG LVL	3.11	3.6	0.13	mg/L	2		NQ	NQ	EPA:300.0	GELC	
C4	34	34	1/10/2000	209.00	381	270.5	34	Water Canyon	Intermediate Spring	SWSC Spring	0	3/16/2019	REG	F	INIT	METALS	Barium	Ba	381.00	1.4	LANL Int BG LVL	13.5	28.2	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	12	12	5/10/2007	13.40	33.9	18.6	12	Water Canyon	Intermediate Spring	SWSC Spring	0	3/16/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	31.20	1.7	LANL Int BG LVL	3.11	10	0.34	mg/L	5		NQ	NQ	EPA:300.0	GELC	
C4	48	50	8/30/2007	68.00	389	346.5	50	Sandia Canyon	Regional Deep	R-35a	1013	4/16/2019	REG	F	INIT	METALS	Barium	Ba	332.00	1	LANL Reg BG LVL	38.1	8.7	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
C4	47	49	8/30/2007	5.97	7.31	6.42	49	Sandia Canyon	Regional Deep	R-35a	1013	4/16/2019	REG	F	INIT	GENINORG	Chloride	Cl(-1)	6.34	1	LANL Reg BG LVL	2.7	2.3	0.07	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	60	71	5/17/2005	2.27	7.43	5.26	71	Sandia Canyon	Regional Top	R-11	855	4/17/2019	FD	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6.06	1.2	LANL Reg BG LVL	0.769	7.9	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	60	71	5/17/2005	2.27	7.43	5.26	71	Sandia Canyon	Regional Top	R-11	855	4/17/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6.41	1.2	LANL Reg BG LVL	0.769	8.3	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	60	71	5/17/2005	5.95	15.4	10.2	71	Sandia Canyon	Regional Top	R-11	855	4/17/2019	FD	F	INIT	GENINORG	Sulfate	SO4(-2)	10.30	1	LANL Reg BG LVL	4.59	2.2	0.13	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	60	71	5/17/2005	5.95	15.4	10.2	71	Sandia Canyon	Regional Top	R-11	855	4/17/2019	REG	F	INIT	GENINORG	Sulfate	SO4(-2)	10.30	1	LANL Reg BG LVL	4.59	2.2	0.13	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C4	34	40	5/20/2011	2.03	23.3	19.7	39	Mortandad Canyon	Regional Top	R-61 S1	1125	4/19/2019	REG	F	INIT	METALS	Chromium	Cr	21.70	1.1	LANL Reg BG LVL	7.48	2.9	3	µg/L	1		NQ	NQ	SW-846:6020	GELC	
C4	34	40	5/20/2011	0.43	2.64	1.955	40	Mortandad Canyon	Regional Top	R-61 S1	1125	4/19/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.34	1.2	LANL Reg BG LVL	0.769	3	0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C4	33	39	5/20/2011	2.96	16.2	10.8	39	Mortandad Canyon	Regional Top	R-61 S1	1125	4/19/2019	REG	F	INIT	GENINORG	Perchlorate	ClO4	13.70	1.3	LANL Reg BG LVL	0.414	33.1	0.5	µg/L	10		NQ	NQ	SW-846:6850	GELC	
C5	38	52	6/23/2006	107.00	1230	309	52	Pajarito Canyon	Intermediate Perched	03-B-13	22	4/16/2019	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	513.00	1.7	NM GW STD	1000	0.5	3.4	mg/L	1		J+	l4a	EPA:160.1	GELC	
C5	37	48	12/4/2003	4.59	51.3	18.1	48	Water Canyon	Intermediate Spring	Burning Ground Spring	0	3/16/2019	REG	UF	DL	HEXP	RDX	121-82-4	45.40	2.5	NMED A1 TAP SCRNLVL	9.66	6.5	1.1	µg/L	25		NQ	NQ	SW-846:8330B	GELC	
CA	22	29	8/28/2006	0.58	10.9	1.17	29	Pajarito Canyon	Alluvial	18-MW-18	13	4/17/2019	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	10.90	9.3	EPA MCL	10	1.1	0.85	mg/L	50		NQ	NQ	EPA:353.2	GELC	
CA	2	2	9/20/2010	137.00	1560	848.5	2	Water Canyon	Alluvial	WCO-1r	6	3/15/2019	REG	F	INIT	METALS	Iron	Fe	1560.00	1.8	NM GW STD	1000	1.6	30	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
CA	20	21	1/5/2009	32.50	1120	142	12	Water Canyon	Intermediate Perched	R-25b	750	3/18/2019	REG	F	INIT	METALS	Iron	Fe	1120.00	7.9	NM GW STD	1000	1.1	30	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
CA	74	89	1/10/2000	14.60	1390	143	63	Water Canyon	Intermediate Spring	Burning Ground Spring	0	3/16/2019	REG	F	INIT	METALS	Iron	Fe	1390.00	9.7	NM GW STD	1000	1.4	30	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
CA	1	1	3/16/2019	2160.00	2160	2160	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	F	INIT	METALS	Barium	Ba	2160.00	1	NM GW STD	2000	2.2	1	µg/L	1		NQ	NQ	SW-846:6010C	GELC	new well
CA	1	1	3/16/2019	1430.00	1430	1430	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	F	INIT	METALS	Iron	Fe	1430.00	1	NM GW STD	1000	1.4	30	µg/L	1		NQ	NQ	SW-846:6010C	GELC	new well
CA	1	1	3/16/2019	148.00	148	148	1	Water Canyon	Alluvial	CdV-16-02657r	1	3/16/2019	REG	UF	INIT	HEXP	RDX	121-82-4	148.00	1	NMED A1 TAP SCRNLVL	9.66	21.1	8.7	µg/L	200		NQ	NQ	SW-846:8330B	GELC	new well

Table 2: NMED 05-19 Groundwater Report Addendum

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	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 Qualifier	Validation Qualifier	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
XC2scr	10	11	6/29/2006	0.104	0.104	0.104	1	Sandia Canyon	Regional Deep	R-10 S2	1042	11/14/2018	REG	UF	INIT	INORGANIC	Cyanide (Total)	CN (TOTAL)	0.104	1	Reg-Scr_95	0.0017	61	0.002	mg/L	1		NQ	NQ	EPA:335.4	GELC	FD was nondetect
XC2scr	24	30	8/31/2010	2	3	2.4	4	Water Canyon	Intermediate Perched	CDV-16-4ip S1	815.600	3/15/2019	REG	F	INIT	METALS	Arsenic	As	3	1.2	Int-Scr_95	2.8	1.0	2.00	µg/L	1.00	J	J	J_LAB	SW-846:6020	GELC	
XC2scr	24	30	8/31/2010	33.9	105.0	69.45	2	Water Canyon	Intermediate Perched	CDV-16-4ip S1	815.600	3/15/2019	REG	F	INIT	METALS	Iron	Fe	105.0	1.5	Int-Scr_95	54.10	1.9	30.00	µg/L	1.0		NQ	NQ	SW-846:6010C	GELC	
XC2scr	16	18	2/8/2010	84	157	121	18	Water Canyon	Intermediate Perched	CDV-37-1(i)	632.000	3/15/2019	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	157	1.3	Int-Scr_95	135	1.2	3.40	mg/L	1.00		NQ	NQ	EPA:160.1	GELC	
XC2scr	11	12	4/21/2009	0.018	0.115	0.0188	3	Pajarito Canyon	Intermediate Perched	R-40 S1	751.59	4/12/2019	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.115	6.1	Int-Scr_95	0.0606	1.9	0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
XC2scr	73	88	1/10/2000	1.79	5.4	2.52	6	Water Canyon	Intermediate Spring	Burning Ground Spring	0	3/16/2019	REG	F	INIT	METALS	Arsenic	As	5.4	2.1	Int-Scr_95	2.82	1.9	2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
XC2scr	35	35	1/10/2000	1.8	5.08	3.44	2	Water Canyon	Intermediate Spring	SWSC Spring	0	3/16/2019	REG	F	INIT	METALS	Arsenic	As	5.08	1.5	Int-Scr_95	2.82	1.8	2	µg/L	1		NQ	NQ	SW-846:6020	GELC	
XC2scr	29	34	10/17/2006	0.019	0.31	0.032	5	Pajarito Canyon	Regional Deep	R-17 S2	1124	4/18/2019	REG	F	INIT	GENINORG	Ammonia as Nitrogen	NH3-N	0.31	9.7	Reg-Scr_95	0.1	3.1	0.017	mg/L	1		J+	I4a	EPA:350.1	GELC	
XC2scr	8	9	3/20/2017	0.0689	0.0689	0.0689	1	Water Canyon	Regional Top	R-68	1340	3/19/2019	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.0689	1	Reg-Scr_95	0.067	1	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
XC4scr	16	18	8/8/2011	0.136	0.19	0.162	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	FD	F	INIT	GENINORG	Bromide	Br(-1)	0.183	1.1	Int-Scr_95	0.0716	2.6	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
XC4scr	16	18	8/8/2011	0.136	0.19	0.162	18	Lower Los Alamos Canyon	Intermediate Spring	Vine Tree Spring	0	12/13/2018	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.166	1	Int-Scr_95	0.0716	2.3	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
XC4scr	16	17	10/23/2001	49.4	61.9	52.7	17	White Rock Canyon and Rio Grande	Regional Spring	La Mesita Spring	0	10/10/2018	REG	F	INIT	METALS	Boron	B	61.9	1.2	Reg-Scr_95	18.7	3.3	15	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	14	15	7/12/2005	0.092	0.163	0.137	13	White Rock Canyon and Rio Grande	Regional Spring	La Mesita Spring	0	10/10/2018	REG	F	INIT	GENINORG	Bromide	Br(-1)	0.137	1	Reg-Scr_95	0.067	2	0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
XC4scr	16	23	10/23/2001	36.3	946	126	21	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/11/2018	REG	F	INIT	METALS	Iron	Fe	717	5.7	Reg-Scr_95	53.8	13	30	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	16	23	10/23/2001	32.8	994	197	21	White Rock Canyon and Rio Grande	Regional Spring	Sacred Spring	0	10/11/2018	REG	F	INIT	METALS	Manganese	Mn	482	2.4	Reg-Scr_95	12.1	40	2	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	38	52	6/23/2006	107	1230	309	52	Pajarito Canyon	Intermediate Perched	03-B-13	21.5	4/16/2019	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	513	1.7	Int-Scr_95	135	3.8	3.4	mg/L	1		J+	I4a	EPA:160.1	GELC	
XC4scr	20	21	1/5/2009	111	2140	281	9	Water Canyon	Intermediate Perched	R-25b	750	3/18/2019	REG	F	INIT	METALS	Aluminum	Al	2140	7.6	Int-Scr_95	68	32	68	µg/L	1	N	NQ	NQ	SW-846:6010C	GELC	
XC4scr	20	21	1/5/2009	3.99	15.9	7.385	8	Water Canyon	Intermediate Perched	R-25b	750	3/18/2019	REG	F	INIT	METALS	Copper	Cu	8.97	1.2	Int-Scr_95	3	3	3	µg/L	1	J	J	J_LAB	SW-846:6010C	GELC	

Table 2: NMED 05-19 Groundwater Report Addendum

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Canyon	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 Qualifier	Validation Qualifier	Validation Reason Code	Anyl Meth Code	Lab Code	Comment
XC4scr	20	21	1/5/2009	4.3	102	28.1	12	Water Canyon	Intermediate Perched	R-25b	750	3/18/2019	REG	F	INIT	METALS	Manganese	Mn	35	1.2	Int-Scr_95	8.39	4.2	2	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	19	20	1/5/2009	32.9	1880	130.5	20	Water Canyon	Intermediate Perched	R-25b	750	3/18/2019	REG	F	INIT	GENINORG	Total Dissolved Solids	TDS	453	3.5	Int-Scr_95	135	3.4	3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
XC4scr	17	29	9/9/2004	282	6630	773	29	Pajarito Canyon	Intermediate Spring	Homestead Spring	0	4/26/2019	REG	F	INIT	METALS	Aluminum	Al	1520	2	Int-Scr_95	68	22	68	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	17	29	9/9/2004	136	3400	365	29	Pajarito Canyon	Intermediate Spring	Homestead Spring	0	4/26/2019	REG	F	INIT	METALS	Iron	Fe	726	2	Int-Scr_95	54.1	13	30	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	17	18	9/10/2004	202	5730	738.5	18	Pajarito Canyon	Intermediate Spring	Starmer Spring	0	4/26/2019	REG	F	INIT	METALS	Aluminum	Al	1320	1.8	Int-Scr_95	68	19	68	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	35	35	1/10/2000	168	3150	690	23	Water Canyon	Intermediate Spring	SWSC Spring	0	3/16/2019	REG	F	INIT	METALS	Aluminum	Al	2440	3.5	Int-Scr_95	68	36	68	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	35	35	1/10/2000	41.6	1600	229	27	Water Canyon	Intermediate Spring	SWSC Spring	0	3/16/2019	REG	F	INIT	METALS	Iron	Fe	1340	5.9	Int-Scr_95	54.1	25	30	µg/L	1		NQ	NQ	SW-846:6010C	GELC	
XC4scr	34	40	5/20/2011	0.0531	11.8	0.706	37	Mortandad Canyon	Regional Top	R-61 S1	1125	4/19/2019	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	PO4-P	0.39	0.6	Reg-Scr_95	0.0822	4.7	0.02	mg/L	1		NQ	NQ	EPA:365.4	GELC	