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

EMLA-2022-BF032-02-001

December 21, 2021

Mr. Rick Shean
Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6313

Subject: Monthly Notification of Groundwater Data Reviewed in December 2021

Dear Mr. Shean:

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 (2016 Consent Order). Members of EM-LA and N3B met on December 9, 2021, to review groundwater data loaded or released in the Environmental Information Management (EIM) system during the previous calendar month. 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." The EPA tap water standard's carcinogenic risk values were adjusted to 1×10^{-5}, as specified in the 2016 Consent Order.

The enclosed report was prepared using the May 2021 EPA regional screening levels for tap water; the NMWQCC groundwater standards published December 21, 2018; and the June 2019 Table A-1 of "Risk Assessment Guidance for Site Investigations and Remediation" for NMED tap water screening levels.

1-Day Notification

There were two instances of a constituent detected at a concentration that exceeded the NMWQCC groundwater standard or EPA MCL at a location where that constituent has not previously been detected above the respective standard as defined in the 2016 Consent Order (based on samples collected since June 14, 2007).

EM-LA notified NMED orally within one business day of the review of the analytical data, which showed detection of these contaminants, on December 9, 2021 (per Section XXVI.C of the Consent Order).

An unfiltered sample collected on September 21, 2021, from R-69 screen 2 resulted in the measurement of a contaminant that exceeded its corresponding screening level. Nitrosodiethylamine[N-] was measured at 0.0341 µg/L, exceeding the 0.00167-µg/L Table A-1 NMED tap water screening level.

An unfiltered sample collected on October 15, 2021, from R-55 screen 1 resulted in the measurement of a contaminant that exceeded its corresponding screening level. Benzo(a)anthracene was measured at 0.314 µg/L, exceeding the 0.12-µg/L Table A-1 NMED tap water screening level.

15-Day Notification

The information required for constituents that meet the five reporting criteria requiring written notification within 15 days is provided in the enclosed 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) 709-7600 (hai.shen@em.doe.gov).

Sincerely,

M Lee Bishop

Digitally signed by M Lee Bishop
Date: 2021.12.15 11:31:18 -07'00'

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

Enclosure(s):

1. Summary of Groundwater Data Reviewed in December 2021 that Meet Notification Requirements (EM2021-0843)

cc (letter with CD/DVD enclosure[s]):
Steven Lynne, Los Alamos County, Los Alamos, NM (2 copies)

cc (letter and enclosure[s] emailed):
Laurie King, EPA Region 6, Dallas, TX
Raymond Martinez, San Ildefonso Pueblo, NM
Dino Chavarria, Santa Clara Pueblo, NM
David Gomez, Los Alamos County, Los Alamos, NM
Chris Catechis, NMED-DOE-OB/-RPD
Steve Yanicak, NMED-DOE-OB
Justin Ball, NMED-GWQB
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SUMMARY OF GROUNDWATER DATA REVIEWED IN DECEMBER 2021 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 2021 and 2022 monitoring years 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 11-21 Groundwater Report, presents categorical results since June 14, 2007, that met the five reporting criteria as specified in the 2016 Consent Order. Table 2, NMED 11-21 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 that identifies the potential risk resulting from contaminants and other chemical constituents that 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; and
- 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." The EPA tap water standard's carcinogenic risk values were adjusted to 1×10^{-5}, as specified in the 2016 Consent Order. This report was prepared using the May 2021 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 June 2019 Table A-1 of "Risk Assessment Guidance for Site Investigations and Remediation."

Background values applied in Table 1 notification criterion 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 indicates 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 a water quality standard at that location. N3B, under the U.S. Department of Energy Environmental Management Los Alamos Field Office, 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" (June 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 2 through 8 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 as follows:

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 (F) or unfiltered (UF)

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

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

Analyte Description—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 qualifier 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

Analy Meth Code—analytical method number

Lab Code—analytical laboratory name

Comment—N3B comment regarding the analytical result

Acronyms and Abbreviations

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

DOECAP—Department of Energy Consolidated Audit Program

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

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

GENINORG—General inorganic

HEXP—high explosive

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

HRGC/HRMS—High-resolution gas chromatography/High-resolution mass spectrometry

ICP-AES—inductively coupled plasma atomic emission spectroscopy

ICP-MS—inductively coupled plasma mass spectrometry

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

LCS—laboratory control sample

MDL—method detection limit

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

MS—matrix spike

MSD—matrix spike duplicate

n/a—not applicable

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

NMED A1 TAP SCRN LVL—New Mexico Environment Department screening level for tap water

NTU—nephelometric turbidity unit

PETN—pentaerythritol tetranitrate

PFAS—per- and polyfluoroalkyl substances

PQL—practical quantitation limit

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

SIM—selected ion monitoring

SVOC—semivolatile organic compound

TDS—total dissolved solids

TNX—2,4,6-trinitroxylene

UAL—upper acceptance limit

UOM—unit of measurement

VOC—volatile organic compound

Analytical Laboratory Codes and Qualifiers

∗ (lab qualifier) - (inorganic)—Duplicate analysis (relative percent difference) is not within control limits.

CFA—Cape Fear Analytical, LLC

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

F—filtered

FD—field duplicate

GELC—GEL Laboratories, LLC, Division of the GEL Group, Charleston, SC

GENINORG—general inorganic

H (lab qualifier)—The required extraction or analysis holding time for this result was exceeded.

HE1a (validation reason code)—The quantitating internal standard area count was below the lower acceptance limit.

HE12a (validation reason code)—The LCS %recovery was less than the lower acceptance limit but greater than 10%.

HJ (lab qualifier)—The required extraction or analysis holding time for this result was exceeded. The associated numerical value is an estimated quantity.

HR4g—The detected sample result is ≥5 times and <100 times the detected concentration of the same analyte in the associated blank.

HR12a—The laboratory control sample or ongoing precision and recovery sample percent recovery was < the lower acceptance limit and ≥ the rejection limit.

HR12e—The matrix spike percent recovery was < the lower control limit.

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.

I4g (validation reason code)—Result less than a multiple of some secondary higher value found in field, trip, or rinsate blank.

I6a (validation reason code)— MS/MSD recovery below lower limit.

I6b (validation reason code)— The associated matrix spike percent recovery is > the upper acceptance limit.

I9b (validation reason code)—The affected analytes are regarded as rejected because the analytical holding time was exceeded.

I9c—The non-aqueous mercury, chromium(VI), or general chemistry sample temperature was greater than 10°C upon receipt at the laboratory.

I10a—The sample and the duplicate sample results are greater than or equal to 5 times the reporting limit and the duplicate sample relative percent difference is greater than 20% for water samples and greater than 35% for soil samples, or outside of the laboratory's limits.

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 negative bias.

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.

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.

PE9c—The sample temperature was >6°C, or the sample preservation criteria was not met, upon receipt at the laboratory.

PE12e (validation reason code)—The MS/MSD percent recovery was greater than 10% but less than 75%.

RE—reanalysis

RL—reporting limit

RPD—relative percent difference

REG—regular sample

SV7c (validation reason code)—The percent drift was above acceptance limits in the initial calibration verification (ICV) or continuing calibration verification (CCV).

SV9—The holding time was greater 1x and less than 2x the applicable holding time requirement.

SV7b—The initial or continuing calibration verification relative response factor < the laboratory's lower limit.

SwRI—Southwest Research Institute

UF—unfiltered

V7b (validation reason code)—The initial or CCV relative response factor was less than the laboratory's lower limit.

V7k (validation reason code)—Level 3 data validation identified calibration issues affecting data usability.

V9b (validation reason code)—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 11-21 Groundwater Report

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	Analy Suite Code	Analyte Description	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	Analy Meth Code	Lab Code	Comment
C1	21	25	03/10/2004	0.352	1.9	1.126	2	Pajarito Canyon	Regional Deep	R-20 S2	1147.1	10/18/2021	REG	UF	INIT	SVOC	Bis(2-ethylhexyl)phthalate	117-81-7	0.352	0.3	EPA MCL	6	0.1	0.294	µg/L	1.00	J	J	J_LAB	SW-846:8270E	GELC	
C1	11	12	02/01/2011	10.6	10.6	10.6	1	Mortandad Canyon	Regional Deep	R-55 S2	994.4	10/15/2021	REG	UF	INIT	SVOC	Benzoic Acid	65-85-0	10.6	1.0	EPA TAP SCRN LVL	75000	0.0	6.25	µg/L	1.00	J	J	SV7b	SW-846:8270E	GELC	
C1	3	3	07/23/2020	0.0341	0.0341	0.0341	1	Water Canyon	Regional Deep	R-69 S2	1375.5	09/21/2021	REG	UF	INIT	HRGC/ HRMS	Nitrosodiethylamine[N-]	55-18-5	0.0341	1.0	NMED A1 TAP SCRN LVL	0.00167	20.4	0.00035	µg/L	1		J+	HR4g	Nitrosamines: HRMS	SwRI	
C1	13	13	10/06/2003	3.78	3.78	3.78	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 3AA	0	10/04/2021	REG	UF	INIT	VOC	Acetone	67-64-1	3.78	1.0	NMED A1 TAP SCRN LVL	14100	0.0	1.74	µg/L	1.00	J	J	J_LAB	SW-846:8260D	GELC	
C1	22	26	09/24/2001	2.19	2.19	2.19	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	10/04/2021	REG	UF	INIT	VOC	Acetone	67-64-1	2.19	1.0	NMED A1 TAP SCRN LVL	14100	0.0	1.74	µg/L	1.00	J	J	J_LAB	SW-846:8260D	GELC	
C1	14	14	09/18/2006	2.44	3.82	3.13	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 4AA	0	10/04/2021	REG	UF	INIT	VOC	Acetone	67-64-1	3.82	1.2	NMED A1 TAP SCRN LVL	14100	0.0	1.74	µg/L	1.00	J	J	J_LAB	SW-846:8260D	GELC	
C1	9	10	10/07/2003	3.05	3.2	3.125	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 5B	0	10/05/2021	FD	UF	INIT	VOC	Acetone	67-64-1	3.20	1.0	NMED A1 TAP SCRN LVL	14100	0.0	1.74	µg/L	1.00	J	J	J_LAB	SW-846:8260D	GELC	
C1	9	10	10/07/2003	3.05	3.2	3.125	2	White Rock Canyon and Rio Grande	Regional Spring	Spring 5B	0	10/05/2021	REG	UF	INIT	VOC	Acetone	67-64-1	3.05	1.0	NMED A1 TAP SCRN LVL	14100	0.0	1.74	µg/L	1.00	J	J	J_LAB	SW-846:8260D	GELC	
C1	16	17	09/24/2002	3.23	3.23	3.23	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 6	0	10/05/2021	REG	UF	INIT	VOC	Acetone	67-64-1	3.23	1.0	NMED A1 TAP SCRN LVL	14100	0.0	1.74	µg/L	1.00	J	J	J_LAB	SW-846:8260D	GELC	
C1	8	9	09/25/2001	4.07	4.07	4.07	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 6A	0	10/05/2021	REG	UF	INIT	VOC	Acetone	67-64-1	4.07	1.0	NMED A1 TAP SCRN LVL	14100	0.0	1.74	µg/L	1.00	J	J	J_LAB	SW-846:8260D	GELC	
C1	7	7	10/07/2003	3.63	3.63	3.63	1	White Rock Canyon and Rio Grande	Regional Spring	Spring 8A	0	10/05/2021	REG	UF	INIT	VOC	Acetone	67-64-1	3.63	1.0	NMED A1 TAP SCRN LVL	14100	0.0	1.74	µg/L	1.00	J	J	J_LAB	SW-846:8260D	GELC	
C1	14	14	11/18/2009	0.273	0.273	0.273	1	Mortandad Canyon	Regional Top	R-37 S2	1026.0	10/18/2021	REG	UF	INIT	SVOC	Di-n-butylphthalate	84-74-2	0.273	1.0	NMED A1 TAP SCRN LVL	885	0.0	0.273	µg/L	1.00	J	J	J_LAB	SW-846:8270E	GELC	
C1	19	25	02/06/2009	8.96	8.96	8.96	1	Mortandad Canyon	Regional Top	R-38	821.2	10/14/2021	REG	UF	INIT	SVOC	Benzoic Acid	65-85-0	8.96	1.0	EPA TAP SCRN LVL	75000	0.0	6.00	µg/L	1.00	J	J	SV7b	SW-846:8270E	GELC	
C1	34	38	04/02/2009	2.76	2.76	2.76	1	Mortandad Canyon	Regional Top	R-41 S2	965.3	10/18/2021	REG	UF	INIT	VOC	Acetone	67-64-1	2.76	1.0	NMED A1 TAP SCRN LVL	14100	0.0	1.74	µg/L	1.00	J	J	J_LAB	SW-846:8260D	GELC	
C1	11	14	02/07/2011	0.314	0.314	0.314	1	Mortandad Canyon	Regional Top	R-55 S1	860.0	10/15/2021	REG	UF	INIT	SVOC	Benzo(a)anthracene	56-55-3	0.314	1.0	NMED A1 TAP SCRN LVL	0.12	2.6	0.304	µg/L	1.00	J	J	J_LAB	SW-846:8270E	GELC	
C1	11	13	02/07/2011	9.89	9.89	9.89	1	Mortandad Canyon	Regional Top	R-55 S1	860.0	10/15/2021	REG	UF	INIT	SVOC	Benzoic Acid	65-85-0	9.89	1.0	EPA TAP SCRN LVL	75000	0.0	6.08	µg/L	1.00	J	J	SV7b	SW-846:8270E	GELC	
C1	11	13	02/07/2011	0.486	0.486	0.486	1	Mortandad Canyon	Regional Top	R-55 S1	860.0	10/15/2021	REG	UF	INIT	SVOC	Bis(2-ethylhexyl)phthalate	117-81-7	0.486	1.0	EPA MCL	6	0.1	0.304	µg/L	1.00	J	J	J_LAB	SW-846:8270E	GELC	
C2	16	16	12/11/2009	0.141	0.472	0.169	16	Water Canyon	Intermediate	R-27i	619.0	09/24/2021	REG	F	INIT	Geninorg	Fluoride	F(-1)	0.472	2.8	LANL Int BG LVL	0.234	2.0	0.0330	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C2	22	32	07/01/2006	0.165	0.498	0.2285	32	Water Canyon	Regional	R-27	852.0	09/24/2021	REG	F	INIT	Geninorg	Fluoride	F(-1)	0.498	2.2	LANL Reg BG LVL	0.377	1.3	0.0330	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C2	14	15	06/25/2010	1.24	2.87	1.35	15	Pajarito Canyon	Regional Deep	R-57 S2	971.5	10/19/2021	REG	F	INIT	Metals	Molybdenum	Mo	2.87	2.1	LANL Reg BG LVL	2.5	1.1	0.200	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C2	15	15	10/06/2003	1	3.05	1.09	12	White Rock Canyon and Rio Grande	Regional Spring	Spring 3AA	0	10/04/2021	REG	F	INIT	Metals	Molybdenum	Mo	3.05	2.8	LANL Reg BG LVL	2.5	1.2	0.200	µg/L	1.00		J+	I4a	SW-846:6020B	GELC	
C3	3	3	07/23/2020	0.0341	0.0341	0.0341	1	Water Canyon	Regional Deep	R-69 S2	1375.5	09/21/2021	REG	UF	INIT	HRGC/ HRMS	Nitrosodiethylamine[N-]	55-18-5	0.0341	1.0	NMED A1 TAP SCRN LVL	0.00167	20.4	0.00035	µg/L	1		J+	HR4g	Nitrosamines: HRMS	SwRI	
C3	11	14	02/07/2011	0.314	0.314	0.314	1	Mortandad Canyon	Regional Top	R-55 S1	860.0	10/15/2021	REG	UF	INIT	SVOC	Benzo(a)anthracene	56-55-3	0.314	1.0	NMED A1 TAP SCRN LVL	0.12	2.6	0.304	µg/L	1.00	J	J	J_LAB	SW-846:8270E	GELC	

Table 1: NMED 11-21 Groundwater Report

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	Analy Suite Code	Analyte Description	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	Analy Meth Code	Lab Code	Comment
C4	26	29	09/06/2007	8.2	77.6	55.6	29	Pajarito Canyon	Intermediate Perched	R-23i S1	400.3	10/26/2021	REG	F	INIT	Metals	Barium	Ba	57.6	1.0	LANL Int BG LVL	13.5	4.3	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	26	29	09/06/2007	21	39.9	28.2	29	Pajarito Canyon	Intermediate Perched	R-23i S1	400.3	10/26/2021	REG	F	INIT	Metals	Calcium	Ca	31.8	1.1	LANL Int BG LVL	10.7	3.0	0.05	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	26	29	09/06/2007	3.66	39.2	22.3	29	Pajarito Canyon	Intermediate Perched	R-23i S1	400.3	10/26/2021	REG	F	INIT	Geninorg	Chloride	Cl(-1)	32.6	1.5	LANL Int BG LVL	3.11	10.5	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	26	29	09/06/2007	76.4	156	111	29	Pajarito Canyon	Intermediate Perched	R-23i S1	400.3	10/26/2021	REG	F	INIT	Geninorg	Hardness	Hardness	127	1.1	LANL Int BG LVL	37.8	3.4	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	26	29	09/06/2007	5.8	13.7	9.9	29	Pajarito Canyon	Intermediate Perched	R-23i S1	400.3	10/26/2021	REG	F	INIT	Metals	Magnesium	Mg	11.5	1.2	LANL Int BG LVL	3.14	3.7	0.11	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	26	29	09/06/2007	95.5	254	168	29	Pajarito Canyon	Intermediate Perched	R-23i S1	400.3	10/26/2021	REG	F	INIT	Metals	Strontium	Sr	179	1.1	LANL Int BG LVL	59.6	3.0	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	26	29	09/06/2007	4.82	27.5	14.8	29	Pajarito Canyon	Intermediate Perched	R-23i S1	400.3	10/26/2021	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	15.6	1.1	LANL Int BG LVL	7.1	2.2	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	31	34	10/03/2006	6.44	9.16	7.985	34	Pajarito Canyon	Intermediate Perched	R-23i S2	470.2	10/26/2021	REG	F	INIT	Geninorg	Chloride	Cl(-1)	8.60	1.1	LANL Int BG LVL	3.11	2.8	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	22	26	07/13/2009	21.2	26.2	24.6	26	Mortandad Canyon	Intermediate Perched	R-37 S1	929.3	10/20/2021	REG	F	INIT	Metals	Calcium	Ca	24.2	1.0	LANL Int BG LVL	10.7	2.3	0.05	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	22	26	07/13/2009	0.232	0.735	0.5375	26	Mortandad Canyon	Intermediate Perched	R-37 S1	929.3	10/20/2021	REG	F	INIT	Geninorg	Fluoride	F(-1)	0.530	1.0	LANL Int BG LVL	0.234	2.3	0.0330	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	22	26	07/13/2009	73.1	89.4	84.75	26	Mortandad Canyon	Intermediate Perched	R-37 S1	929.3	10/20/2021	REG	F	INIT	Geninorg	Hardness	Hardness	83.8	1.0	LANL Int BG LVL	37.8	2.2	0.453	mg/L	1.00		NQ	NQ	SM:A2340B	GELC	
C4	15	16	04/21/2009	5.49	7.21	6.4	16	Pajarito Canyon	Intermediate Perched	R-40 S1	751.6	10/29/2021	REG	F	INIT	Metals	Magnesium	Mg	7.09	1.1	LANL Int BG LVL	3.14	2.3	0.11	mg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	30	33	03/10/2004	113	253	187	33	Pajarito Canyon	Regional Deep	R-20 S2	1147.1	10/18/2021	REG	F	INIT	Metals	Barium	Ba	197	1.1	LANL Reg BG LVL	38.1	5.2	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	76	87	08/30/2007	68	408	347	87	Sandia Canyon	Regional Deep	R-35a	1013.1	10/26/2021	FD	F	INIT	Metals	Barium	Ba	345	1.0	LANL Reg BG LVL	38.1	9.1	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	76	87	08/30/2007	68	408	347	87	Sandia Canyon	Regional Deep	R-35a	1013.1	10/26/2021	REG	F	INIT	Metals	Barium	Ba	348	1.0	LANL Reg BG LVL	38.1	9.1	1.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
C4	75	87	08/30/2007	5.97	7.31	6.56	87	Sandia Canyon	Regional Deep	R-35a	1013.1	10/26/2021	FD	F	INIT	Geninorg	Chloride	Cl(-1)	6.58	1.0	LANL Reg BG LVL	2.7	2.4	0.0670	mg/L	1.00		J+	I4g	EPA:300.0	GELC	
C4	75	87	08/30/2007	5.97	7.31	6.56	87	Sandia Canyon	Regional Deep	R-35a	1013.1	10/26/2021	REG	F	INIT	Geninorg	Chloride	Cl(-1)	6.61	1.0	LANL Reg BG LVL	2.7	2.4	0.0670	mg/L	1.00		J+	I4g	EPA:300.0	GELC	
C4	76	87	08/30/2007	1.2	22.2	7.935	86	Sandia Canyon	Regional Deep	R-35a	1013.1	10/26/2021	FD	F	INIT	Metals	Nickel	Ni	11.9	1.5	LANL Reg BG LVL	2.9	4.1	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	76	87	08/30/2007	1.2	22.2	7.935	86	Sandia Canyon	Regional Deep	R-35a	1013.1	10/26/2021	REG	F	INIT	Metals	Nickel	Ni	12.2	1.5	LANL Reg BG LVL	2.9	4.2	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	75	80	03/05/2009	2.74	7.11	4.67	80	Mortandad Canyon	Regional Deep	R-45 S2	974.9	10/20/2021	FD	F	INIT	Geninorg	Chloride	Cl(-1)	7.05	1.5	LANL Reg BG LVL	2.7	2.6	0.0670	mg/L	1.00		J+	I4g	EPA:300.0	GELC	
C4	75	80	03/05/2009	2.74	7.11	4.67	80	Mortandad Canyon	Regional Deep	R-45 S2	974.9	10/20/2021	REG	F	INIT	Geninorg	Chloride	Cl(-1)	6.93	1.5	LANL Reg BG LVL	2.7	2.6	0.0670	mg/L	1.00		J+	I4g	EPA:300.0	GELC	
C4	75	85	03/05/2009	6.1	62	27.8	84	Mortandad Canyon	Regional Deep	R-45 S2	974.9	10/20/2021	FD	F	INIT	Metals	Chromium	Cr	62.0	2.2	LANL Reg BG LVL	7.48	8.3	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	

Table 1: NMED 11-21 Groundwater Report

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	Analy Suite Code	Analyte Description	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	Analy Meth Code	Lab Code	Comment
C4	75	85	03/05/2009	6.1	62	27.8	84	Mortandad Canyon	Regional Deep	R-45 S2	974.9	10/20/2021	REG	F	INIT	Metals	Chromium	Cr	58.1	2.1	LANL Reg BG LVL	7.48	7.8	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	15	16	08/04/2020	14.8	19.3	17	16	Mortandad Canyon	Regional Deep	R-70 S2	1048.0	10/15/2021	REG	F	INIT	Geninorg	Chloride	Cl(-1)	15.2	0.9	LANL Reg BG LVL	2.7	5.6	0.134	mg/L	2.00		J+	I6b	EPA:300.0	GELC	
C4	15	16	08/04/2020	178	272	227	16	Mortandad Canyon	Regional Deep	R-70 S2	1048.0	10/15/2021	REG	F	INIT	Metals	Chromium	Cr	205	0.9	LANL Reg BG LVL	7.48	27.4	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	15	16	08/04/2020	3.57	4.06	3.755	16	Mortandad Canyon	Regional Deep	R-70 S2	1048.0	10/15/2021	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.66	1.0	LANL Reg BG LVL	0.769	4.8	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	15	16	08/04/2020	23.5	32.6	30.15	16	Mortandad Canyon	Regional Deep	R-70 S2	1048.0	10/15/2021	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	24.2	0.8	LANL Reg BG LVL	4.59	5.3	0.266	mg/L	2.00		NQ	NQ	EPA:300.0	GELC	
C4	20	22	09/24/2001	4.35	6.18	5.035	22	White Rock Canyon and Rio Grande	Regional Spring	Spring 3	0	10/04/2021	REG	F	INIT	Geninorg	Chloride	Cl(-1)	5.94	1.2	LANL Reg BG LVL	2.7	2.2	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	22	24	09/25/2000	6.17	7.74	6.68	24	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	10/04/2021	REG	F	INIT	Geninorg	Chloride	Cl(-1)	6.97	1.0	LANL Reg BG LVL	2.7	2.6	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	22	24	09/25/2000	9.24	10.6	9.59	24	White Rock Canyon and Rio Grande	Regional Spring	Spring 4	0	10/04/2021	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	9.83	1.0	LANL Reg BG LVL	4.59	2.1	0.133	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
C4	25	26	09/25/2000	4.37	6	5.165	26	White Rock Canyon and Rio Grande	Regional Spring	Spring 4A	0	10/04/2021	REG	F	INIT	Geninorg	Chloride	Cl(-1)	5.89	1.1	LANL Reg BG LVL	2.7	2.2	0.0670	mg/L	1.00		J+	I6b	EPA:300.0	GELC	
C4	19	20	09/27/2005	5.52	7.45	6.015	20	White Rock Canyon and Rio Grande	Regional Spring	Spring 4AA	0	10/04/2021	REG	F	INIT	Geninorg	Chloride	Cl(-1)	7.26	1.2	LANL Reg BG LVL	2.7	2.7	0.0670	mg/L	1.00		J+	I6b	EPA:300.0	GELC	
C4	88	106	05/17/2005	2.27	7.43	5.45	106	Sandia Canyon	Regional Top	R-11	855.0	10/12/2021	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	6.08	1.1	LANL Reg BG LVL	0.769	7.9	0.425	mg/L	25.0		NQ	NQ	EPA:353.2	GELC	
C4	78	82	02/17/2009	1.99	21	2.66	82	Mortandad Canyon	Regional Top	R-44 S1	895.0	10/19/2021	REG	F	INIT	Geninorg	Chloride	Cl(-1)	20.4	7.7	LANL Reg BG LVL	2.7	7.6	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	78	82	02/17/2009	0.536	109	27.8	55	Mortandad Canyon	Regional Top	R-44 S1	895.0	10/19/2021	REG	F	INIT	Metals	Nickel	Ni	54.0	1.9	LANL Reg BG LVL	2.9	18.6	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	78	82	02/17/2009	0.123	3.86	1.28	81	Mortandad Canyon	Regional Top	R-44 S1	895.0	10/19/2021	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.87	2.2	LANL Reg BG LVL	0.769	3.7	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	78	82	02/17/2009	2.76	21.1	4.135	82	Mortandad Canyon	Regional Top	R-44 S1	895.0	10/19/2021	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	20.7	5.0	LANL Reg BG LVL	4.59	4.5	0.665	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	76	82	02/28/2009	3	19.6	5.3	82	Mortandad Canyon	Regional Top	R-45 S1	880.0	10/20/2021	REG	F	INIT	Geninorg	Chloride	Cl(-1)	18.5	3.5	LANL Reg BG LVL	2.7	6.9	0.335	mg/L	5.00		J+	I4g	EPA:300.0	GELC	
C4	76	82	02/28/2009	0.535	8.31	1.11	67	Mortandad Canyon	Regional Top	R-45 S1	880.0	10/20/2021	REG	F	INIT	Metals	Nickel	Ni	8.31	7.5	LANL Reg BG LVL	2.9	2.9	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	76	82	02/28/2009	0.256	3.47	2.805	82	Mortandad Canyon	Regional Top	R-45 S1	880.0	10/20/2021	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.23	1.2	LANL Reg BG LVL	0.769	4.2	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
C4	76	82	02/28/2009	4.1	20	8.115	82	Mortandad Canyon	Regional Top	R-45 S1	880.0	10/20/2021	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	19.6	2.4	LANL Reg BG LVL	4.59	4.3	0.665	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	77	85	03/06/2010	4.68	21.9	9.8	85	Mortandad Canyon	Regional Top	R-50 S1	1077.0	10/18/2021	REG	F	INIT	Geninorg	Chloride	Cl(-1)	21.4	2.2	LANL Reg BG LVL	2.7	7.9	0.335	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	78	86	03/06/2010	1.51	14.6	5.465	86	Mortandad Canyon	Regional Top	R-50 S1	1077.0	10/18/2021	REG	F	INIT	Metals	Nickel	Ni	8.81	1.6	LANL Reg BG LVL	2.9	3.0	0.600	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	78	87	03/06/2010	0.398	3.01	2.1	87	Mortandad Canyon	Regional Top	R-50 S1	1077.0	10/18/2021	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.01	1.4	LANL Reg BG LVL	0.769	3.9	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	

Table 1: NMED 11-21 Groundwater Report

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	Analy Suite Code	Analyte Description	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	Analy Meth Code	Lab Code	Comment
C4	77	85	03/06/2010	7.22	21.1	14.5	85	Mortandad Canyon	Regional Top	R-50 S1	1077.0	10/18/2021	REG	F	INIT	Geninorg	Sulfate	SO4(-2)	20.6	1.4	LANL Reg BG LVL	4.59	4.5	0.665	mg/L	5.00		NQ	NQ	EPA:300.0	GELC	
C4	62	71	05/20/2011	2.03	43.9	21.75	70	Mortandad Canyon	Regional Top	R-61 S1	1125.0	10/21/2021	REG	F	INIT	Metals	Chromium	Cr	30.3	1.4	LANL Reg BG LVL	7.48	4.1	3.00	µg/L	1.00		NQ	NQ	SW-846:6020B	GELC	
C4	62	71	05/20/2011	0.427	2.95	2.22	71	Mortandad Canyon	Regional Top	R-61 S1	1125.0	10/21/2021	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.54	1.1	LANL Reg BG LVL	0.769	3.3	0.0850	mg/L	5.00		J-	I9c	EPA:353.2	GELC	
C4	61	70	05/20/2011	2.96	16.2	12.05	70	Mortandad Canyon	Regional Top	R-61 S1	1125.0	10/21/2021	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	12.0	1.0	LANL Reg BG LVL	0.414	29.0	0.250	µg/L	5.00		J-	PE9c	SW-846:6850	GELC	
C4	15	16	08/04/2020	2.39	2.92	2.56	16	Mortandad Canyon	Regional Top	R-70 S1	963.0	10/14/2021	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.47	1.0	LANL Reg BG LVL	0.769	3.2	0.170	mg/L	10.0		NQ	NQ	EPA:353.2	GELC	
CA	3	3	07/23/2020	0.0341	0.0341	0.0341	1	Water Canyon	Regional Deep	R-69 S2	1375.5	09/21/2021	REG	UF	INIT	HRGC/ HRMS	Nitrosodiethylamine[N-]	55-18-5	0.0341	1.0	NMED A1 TAP SCRN LVL	0.00167	20.4	0.00035	µg/L	1		J+	HR4g	Nitrosamines: HRMS	SwRI	
CA	11	14	02/07/2011	0.314	0.314	0.314	1	Mortandad Canyon	Regional Top	R-55 S1	860.0	10/15/2021	REG	UF	INIT	SVOC	Benzo(a)anthracene	56-55-3	0.314	1.0	NMED A1 TAP SCRN LVL	0.12	2.6	0.304	µg/L	1.00	J	J	J_LAB	SW-846:8270E	GELC	

Table 2: NMED 11-21 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	Analy Suite Code	Analyte Description	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	Analy Meth Code	Lab Code	Comment
XC2scr	19	22	02/21/2010	5.1	5.1	5.1	1	Pajarito Canyon	Regional Deep	R-54 S2	915.0	10/20/2021	REG	F	INIT	Metals	Copper	Cu	5.10	1.0	Reg-Scr_95	3	1.7	3.00	µg/L	1.00	J	J	J_LAB	SW-846:6010D	GELC	
XC2scr	22	30	02/06/2009	0.12	0.12	0.12	1	Mortandad Canyon	Regional Top	R-38	821.2	10/14/2021	REG	F	INIT	Metals	Mercury	Hg	0.120	1.0	Reg-Scr_95	0.067	1.8	0.0670	µg/L	1.00	J	J+	I6b	SW-846:7470A	GELC	
XC2scr	23	26	02/19/2009	2	21.6	2.93	10	Pajarito Canyon	Regional Top	R-39	859.0	10/22/2021	REG	F	INIT	Metals	Manganese	Mn	21.6	7.4	Reg-Scr_95	12.1	1.8	2.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC2scr	21	26	01/15/2009	0.738	0.738	0.738	1	Pajarito Canyon	Regional Top	R-40 S2	849.3	10/29/2021	REG	F	INIT	Metals	Silver	Ag	0.738	1.0	Reg-Scr_95	0.2	3.7	0.300	µg/L	1.00	J	J	J_LAB	SW-846:6020B	GELC	
XC2scr	15	16	08/04/2020	0.078	0.078	0.078	1	Mortandad Canyon	Regional Top	R-70 S1	963.0	10/14/2021	REG	F	INIT	Metals	Mercury	Hg	0.0780	1.0	Reg-Scr_95	0.067	1.2	0.0670	µg/L	1.00	JN	J+	I6b	SW-846:7470A	GELC	
XC4scr	30	33	03/10/2004	38.5	382	72.2	33	Pajarito Canyon	Regional Deep	R-20 S2	1147.1	10/18/2021	REG	F	INIT	Metals	Manganese	Mn	62.0	0.9	Reg-Scr_95	12.1	5.1	2.00	µg/L	1.00		NQ	NQ	SW-846:6010D	GELC	
XC4scr	76	87	08/30/2007	20.6	54.5	39.7	81	Sandia Canyon	Regional Deep	R-35a	1013.1	10/26/2021	FD	F	INIT	Metals	Boron	B	40.1	1.0	Reg-Scr_95	18.7	2.1	15.0	µg/L	1.00	J	J	J_LAB	SW-846:6010D	GELC	
XC4scr	76	87	08/30/2007	20.6	54.5	39.7	81	Sandia Canyon	Regional Deep	R-35a	1013.1	10/26/2021	REG	F	INIT	Metals	Boron	B	41.0	1.0	Reg-Scr_95	18.7	2.2	15.0	µg/L	1.00	J	J	J_LAB	SW-846:6010D	GELC	
XC4scr	78	82	02/17/2009	0.0757	0.165	0.145	37	Mortandad Canyon	Regional Top	R-44 S1	895.0	10/19/2021	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.144	1.0	Reg-Scr_95	0.067	2.1	0.0670	mg/L	1.00	J	J	J_LAB	EPA:300.0	GELC	
XC4scr	76	82	02/28/2009	0.0667	0.637	0.0863	41	Mortandad Canyon	Regional Top	R-45 S1	880.0	10/20/2021	REG	F	INIT	Geninorg	Bromide	Br(-1)	0.220	2.5	Reg-Scr_95	0.067	3.3	0.0670	mg/L	1.00		NQ	NQ	EPA:300.0	GELC	
XC4scr	62	71	05/20/2011	0.0531	11.8	0.44	67	Mortandad Canyon	Regional Top	R-61 S1	1125.0	10/21/2021	REG	F	INIT	Geninorg	Total Phosphate as Phosphorus	PO4-P	0.220	0.5	Reg-Scr_95	0.0822	2.7	0.0200	mg/L	1.00		J+	I4a	EPA:365.4	GELC	
XC2scr	19	22	02/21/2010	5.1	5.1	5.1	1	Pajarito Canyon	Regional Deep	R-54 S2	915.0	10/20/2021	REG	F	INIT	Metals	Copper	Cu	5.10	1.0	Reg-Scr_95	3	1.7	3.00	µg/L	1.00	J	J	J_LAB	SW-846:6010D	GELC	