



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

EMLA-24-BF106-2-1

December 29, 2024

Mr. Rick Shean
Designated Agency Manager
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 2023

Dear Mr. Shean:

This letter is the written submission of the U.S. Department of Energy (DOE) Environmental Management Los Alamos Field Office (EM-LA) and Newport News Nuclear BWXT-Los Alamos, LLC (N3B) in accordance with Section XXVI.D of the 2016 Compliance Order on Consent, modified February 2017 (Consent Order). Members of EM-LA and N3B met on December 14, 2023, to review groundwater data loaded or released in the EIM (Environmental Information Management) 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 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's tap water standard for carcinogenic risk values was adjusted to 1×10^{-5} , as specified in the Consent Order.

The enclosed report was prepared using the November 2023 EPA regional screening levels for tap water; the NMWQCC groundwater standards published December 21, 2018; and the June 2022 Table A-1 of "Risk Assessment Guidance for Site Investigations and Remediation" for NMED tap water screening levels.

This report does not include analytical data from samples collected at a location within the Pueblo de San Ildefonso, which are subject to reporting at this time. Data would have been reviewed by the Pueblo, as required under the 2014 Memorandum of Agreement (as amended in 2015) between the DOE National Nuclear Security Administration Los Alamos Field Office, EM-LA, and the Pueblo de San Ildefonso.

1-Day Notification

One constituent was detected at a concentration that exceeded an NMWQCC groundwater standard or EPA MCL, at a location where the constituent had not previously been detected above the respective standard as defined in the 2016 Consent Order (based on samples collected since June 14, 2007).

Analysis of a filtered water sample collected from Ancho Spring on October 3, 2023, resulted in the measurement of one constituent at a value exceeding its screening level value. Iron was measured at 1100 µg/L, exceeding the NMWQCC groundwater standard of 1000 µg/L. This iron exceedance is likely an artifact of sampling a pool of water beneath the spring outlet which can create an iron-rich REDOX biomat. This scenario would result in elevated iron and manganese, coupled with decreased sulfate.

EM-LA notified NMED orally within one business day of the review of the analytical data that showed detection of this contaminant, on December 15, 2023 (per Section XXVI.C of the Consent Order).

15-Day Notification

The information required for constituents that meet at least one of the five reporting criteria requiring written notification within 15 days is provided in the enclosed report and tables.

If you have questions, please contact Amanda White at (505) 309-1366 (amanda.white@em-la.doe.gov) or Hai Shen at (505) 709-7600 (hai.shen@em.doe.gov).

Sincerely,



Digitally signed by Brian
G. Harcek
Date: 2023.12.28
17:04:52 -07'00'

Arturo Q. Duran For
Compliance and Permitting Manager
U.S. Department of Energy
Environmental Management
Los Alamos Field Office

Enclosure(s):

1. Summary of Groundwater Data Reviewed in December 2023 that Meet Notification Requirements (EM2023-0884)

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

Steve Yanicak, NMED-DOE-OB

Justin Ball, NMED-GWQB

Andrew Romero, NMED-GWQB

Melanie Sandoval, NMED-GWQB

Neelam Dhawan, NMED-HWB

Ricardo Maestas, NMED-HWB

Kylian Robinson, NMED-HWB

Jocelyn Buckley, LANL

Leslie Dale, LANL

Jeannette Hyatt, LANL

Brian Iacona, LANL

William Mairson, LANL

Karen Armijo, NA-LA

Stephen Hoffman, NA-LA

William Alexander, N3B

Tanner Bonham, N3B

Cassie Brown, N3B

Mei Ding, N3B

Michael Erickson, N3B

Vicky Freedman, N3B

Christian Maupin, N3B

Steve Maze, N3B

Nancy McDuffie, N3B

Keith McIntyre, N3B

Bruce Robinson, N3B

Vince Rodriguez, N3B

Bradley Smith, N3B

Jeffrey Stevens, N3B

Troy Thomson, N3B

Amanda White, N3B

Brian Harcek, EM-LA

Michael Mikolanis, EM-LA

Kent Rich, EM-LA

Cheryl Rodriguez, EM-LA

Hai Shen, EM-LA

Susan Wacaster, EM-LA

emla.docs@em.doe.gov
n3brecords@em-la.doe.gov
Public Reading Room (EPRR)
PRS website

SUMMARY OF GROUNDWATER DATA REVIEWED IN DECEMBER 2023 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, Revision 1” (IFGMP) for the 2024 monitoring year (N3B 2022, 702346). The report contains results for contaminants and other chemical constituents that meet at least one of the five screening criteria described in Section XXVI.D of the 2016 Compliance Order on Consent, modified February 2017 (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 (LANL or the Laboratory), as indicated in the tables.

The report includes two tables. Table 1, NMED 11-23 Groundwater Report, presents categorical results since June 14, 2007, that meet one or more of the five reporting criteria as specified in the Consent Order. Table 2, NMED 11-23 Groundwater Report Addendum, presents results that exceed the 95th percentile of the results in the data set defined in the “Groundwater Background Investigation Report, Revision 5” (GBIR) (LANL 2016, 601920). 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 and 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 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 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 GBIR. The EPA’s tap water standard carcinogenic risk values were adjusted to 1×10^{-5} , as specified in the Consent Order. This report uses the November 2023 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 2022 Table A-1 of “Risk Assessment Guidance for Site Investigations and Remediation” (Risk Assessment Guidance) (NMED 2022, 702141, Table A-1).

Background values applied in Table 1 notification criterion C4 are the background values for hydrogeological zones as set forth in the GBIR.

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 GBIR.

DESCRIPTION OF TABLES

1-Day Notification Requirement

One-day notification is required upon the 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 either of these standards at that location. N3B, under the direction of the U.S. Department of Energy Environmental Management Los Alamos Field Office, notifies NMED of any such data orally within 1 business day following the review of monthly analytical data. Data in the 1-day notification is also included in the 15-day notification table. Such exceedance data are identified under the Criterion Code A (CA) in notifications.

15-Day Notification Requirement

The data in Table 1 is sorted by the five screening criteria in Section XXVI.D of the Consent Order. In several cases, data met more than one of the notification criteria and, therefore, appear in the table multiple times. Some criteria may not appear in Table 1, if no samples in the current reporting period exceed the requirements of those criteria.

The criterion (C) codes 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, at a concentration above the background level, 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; 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

The data in Table 2 is sorted by two screening criteria that mirror 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 in a spring or screened interval of a well, 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 GBIR

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 GBIR

Columns 2 through 8 in both tables provide summary statistics for metals or organic/inorganic compounds by field preparation code (e.g., filtered [F] 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)

Analytical 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 (e.g., sample collection, additional quality control samples such as field duplicates) on the quality of the sample data

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

Analytical Method 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:

CA—Criterion Code A

CFA—Cape Fear Analytical, LLC

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

F—filtered

FD—field duplicate

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

GENINORG—General inorganic

IFGMP—Interim Facility-Wide Groundwater Monitoring Plan

INIT—primary sample

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

MDL—method detection limit

n/a—not applicable

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

NMED A1 TAP SCRNLVL—New Mexico Environment Department Table A-1 screening level for tap water

REG—regular sample

UF—unfiltered

UOM—unit of measurement

Analytical Laboratory Codes and Qualifiers

I4a (validation reason code)—The detected sample result is ≥ 5 times and < 100 times the detected concentration of the same analyte in the method blank.

I4g (validation reason code)—The detected sample result is ≥ 5 times and < 100 times the detected concentration of the same analyte in the associated blank.

16a (validation reason code)—The associated matrix spike percent recovery is less than the lower acceptance limit.

16b (validation reason code)—The associated matrix spike percent recovery is greater than the upper acceptance limit.

I10er (validation reason code)—The sample and laboratory duplicate results are ≥ 5 times the reporting limit and the relative percent difference exceeds the limits.

PE9—The holding time was greater than the applicable holding time requirement and was ≤ 2 times the applicable holding time requirement.

PE4g—The detected sample result is ≥ 5 times and < 100 times the detected concentration of the same analyte in the associated blank.

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- (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_LAB (validation reason code)—The analytical laboratory qualified the detected result as estimated (J) because the result was less the practical quantitation limit but greater than the method detection limit.

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 any other standard qualifier. The analyte is detected in the sample.

REFERENCES

The following reference list includes documents cited in this report. Parenthetical information following each reference provides the author(s), publication date, and ERID, ESHID, or EMID. ERIDs were assigned by the Laboratory's Associate Directorate for Environmental Management (IDs through 599999); ESHIDs were assigned by the Laboratory's Associate Directorate for Environment, Safety, and Health (IDs 600000 through 699999); and EMIDs are assigned by N3B (IDs 700000 and above).

LANL (Los Alamos National Laboratory), October 27, 2016. "Groundwater Background Investigation Report, Revision 5," Los Alamos National Laboratory document LA-UR-16-27907, Los Alamos, New Mexico. (LANL 2016, 601920)

N3B (Newport News Nuclear BWXT-Los Alamos, LLC), October 2023. "Interim Facility-Wide Groundwater Monitoring Plan for the 2024 Monitoring Year, October 2023–September 2024, Revision 1," Newport News Nuclear BWXT-Los Alamos, LLC, document EM2023-0634, Los Alamos, New Mexico. (N3B 2022, 702924)

NMED (New Mexico Environment Department), June 2022. "Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Soil Screening Guidance for Human Health Risk Assessments," Hazardous Waste Bureau and Ground Water Quality Bureau, Santa Fe, New Mexico. (NMED 2022, 702141)

Table 1: NMED 11-23 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	Analy 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	Analy Meth Code	Lab Code	Comment
CA	18	18	9/26/2000	133	1100	174.5	6	White Rock Canyon and Rio Grande	Regional	Ancho Spring	0	10/3/2023	REG	F	INIT	Metals	Iron	Fe	1100	6	NM GW STD	1000	1.1	30.0	µg/L	1.00	— ^a	NQ	NQ	SW-846:6010D	GELC	Iron exceedance likely an artifact of sampling a pool of water beneath spring outlet that can create an iron-rich oxidation reduction (REDOX) bio-mat. This scenario would result in elevated iron and manganese coupled with decreased sulfate.
C1	3	3	11/6/2019	0.162	0.162	0.162	1	Sandia Canyon	Regional	R-36	766.9	10/30/2023	REG	UF	INIT	Low-level 1,4-dioxane	Dioxane[1,4-]	123-91-1	0.162	1	NMED A1 TAP SCRNLVL	4.59	0	0.0400	µg/L	1.00	J	J	J Lab	SW-846:8270E_SIM	GELC	
C2	1	1	10/10/2023	10.9	10.9	10.9	1	Mortandad Canyon	Regional	CRPZ-1	1122.9	10/10/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	10.9	1	LANL Reg BG LVL	2.7	4	0.134	mg/L	2.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/10/2023	17	17	17	1	Mortandad Canyon	Regional	CRPZ-1	1122.9	10/10/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	17.0	1	LANL Reg BG LVL	4.59	3.7	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	2	2	10/12/2023	56.3	56.9	56.9	2	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/12/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	56.9	1	LANL Reg BG LVL	2.7	21	0.670	mg/L	10.0	—	NQ	NQ	SW-846:9056A	GELC	
C2	2	2	10/12/2023	66.1	68.1	68.1	2	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/12/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	68.1	1	LANL Reg BG LVL	4.59	15	1.33	mg/L	10.0	—	NQ	NQ	SW-846:9056A	GELC	
C2	2	2	10/12/2023	56.3	56.9	56.9	2	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	56.3	1	LANL Reg BG LVL	2.7	21	0.670	mg/L	10.0	—	J+	I6b	SW-846:9056A	GELC	
C2	2	2	10/12/2023	66.1	68.1	68.1	2	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	66.1	1	LANL Reg BG LVL	4.59	14	1.33	mg/L	10.0	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/19/2023	22.4	22.4	22.4	1	Mortandad Canyon	Regional	CRPZ-3	939.4	10/19/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	22.4	1	LANL Reg BG LVL	2.7	8.3	0.335	mg/L	5.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/19/2023	38.3	38.3	38.3	1	Mortandad Canyon	Regional	CRPZ-3	939.4	10/19/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	38.3	1	LANL Reg BG LVL	4.59	8.3	0.665	mg/L	5.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/24/2023	11.5	11.5	11.5	1	Mortandad Canyon	Regional	CRPZ-4	957	10/24/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	11.5	1	LANL Reg BG LVL	2.7	4.3	0.134	mg/L	2.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/24/2023	19.5	19.5	19.5	1	Mortandad Canyon	Regional	CRPZ-4	957	10/24/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	19.5	1	LANL Reg BG LVL	4.59	4.2	0.266	mg/L	2.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/17/2023	16.4	16.4	16.4	1	Mortandad Canyon	Regional	CRPZ-5	976	10/17/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	16.4	1	LANL Reg BG LVL	2.7	6.1	0.335	mg/L	5.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/17/2023	29.4	29.4	29.4	1	Mortandad Canyon	Regional	CRPZ-5	976	10/17/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	29.4	1	LANL Reg BG LVL	4.59	6.4	0.665	mg/L	5.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	2	10/13/2023	3.34	3.47	3.405	2	Sandia Canyon	Regional	R-11	855.0	10/13/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	3.47	1	LANL Reg BG LVL	2.7	1.3	0.0670	mg/L	1.00	—	J+	I4g	SW-846:9056A	GELC	
C2	1	2	10/13/2023	3.34	3.47	3.405	2	Sandia Canyon	Regional	R-11	855.0	10/13/2023	FD	F	INIT	General Chemistry	Chloride	Cl(-1)	3.34	1	LANL Reg BG LVL	2.7	1.2	0.0670	mg/L	1.00	—	J+	I4g	SW-846:9056A	GELC	
C2	1	2	10/13/2023	0.399	0.409	0.404	2	Sandia Canyon	Regional	R-11	855.0	10/13/2023	REG	F	INIT	General Chemistry	Fluoride	F(-1)	0.409	1	LANL Reg BG LVL	0.377	1.1	0.0330	mg/L	1.00	—	J+	I4g	SW-846:9056A	GELC	
C2	1	2	10/13/2023	0.399	0.409	0.404	2	Sandia Canyon	Regional	R-11	855.0	10/13/2023	FD	F	INIT	General Chemistry	Fluoride	F(-1)	0.399	1	LANL Reg BG LVL	0.377	1.1	0.0330	mg/L	1.00	—	J+	I4g	SW-846:9056A	GELC	
C2	1	2	10/13/2023	11.4	11.4	11.4	2	Sandia Canyon	Regional	R-11	855.0	10/13/2023	FD	F	INIT	General Chemistry	Sulfate	SO4(-2)	11.4	1	LANL Reg BG LVL	4.59	2.5	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	2	10/13/2023	11.4	11.4	11.4	2	Sandia Canyon	Regional	R-11	855.0	10/13/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	11.4	1	LANL Reg BG LVL	4.59	2.5	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/30/2023	3.84	3.84	3.84	1	Mortandad Canyon	Regional	R-15	958.6	10/30/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	3.84	1	LANL Reg BG LVL	2.7	1.4	0.0670	mg/L	1.00	—	J+	I4a	SW-846:9056A	GELC	

Table 1: NMED 11-23 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	Analy 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	Analy Meth Code	Lab Code	Comment
C2	1	1	10/30/2023	6.08	6.08	6.08	1	Mortandad Canyon	Regional	R-15	958.6	10/30/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	6.08	1	LANL Reg BG LVL	4.59	1.3	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/20/2023	6.5	6.5	6.5	1	Sandia Canyon	Regional	R-35a	1013.1	10/20/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	6.50	1	LANL Reg BG LVL	2.7	2.4	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/20/2023	5.56	5.56	5.56	1	Sandia Canyon	Regional	R-35a	1013.1	10/20/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	5.56	1	LANL Reg BG LVL	4.59	1.2	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/20/2023	2.86	2.86	2.86	1	Sandia Canyon	Regional	R-35b	825.4	10/20/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	2.86	1	LANL Reg BG LVL	2.7	1.1	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/20/2023	0.553	0.553	0.553	1	Sandia Canyon	Regional	R-35b	825.4	10/20/2023	REG	F	INIT	General Chemistry	Fluoride	F(-1)	0.553	1	LANL Reg BG LVL	0.377	1.5	0.0330	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/30/2023	6.23	6.23	6.23	1	Sandia Canyon	Regional	R-36	766.9	10/30/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	6.23	1	LANL Reg BG LVL	2.7	2.3	0.0670	mg/L	1.00	—	J+	I6b	SW-846:9056A	GELC	
C2	1	1	10/30/2023	0.791	0.791	0.791	1	Sandia Canyon	Regional	R-36	766.9	10/30/2023	REG	F	INIT	General Chemistry	Fluoride	F(-1)	0.791	1	LANL Reg BG LVL	0.377	2.1	0.0330	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/30/2023	7.79	7.79	7.79	1	Sandia Canyon	Regional	R-36	766.9	10/30/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	7.79	1	LANL Reg BG LVL	4.59	1.7	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/19/2023	52.8	52.8	52.8	1	Mortandad Canyon	Regional	R-42	931.8	10/19/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	52.8	1	LANL Reg BG LVL	2.7	20	0.670	mg/L	10.0	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/19/2023	89.3	89.3	89.3	1	Mortandad Canyon	Regional	R-42	931.8	10/19/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	89.3	1	LANL Reg BG LVL	4.59	20	1.33	mg/L	10.0	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/31/2023	5.58	5.58	5.58	1	Sandia Canyon	Regional	R-43 S1 ^b	903.9	10/31/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	5.58	1	LANL Reg BG LVL	2.7	2.1	0.0670	mg/L	1.00	—	J+	I6b	SW-846:9056A	GELC	
C2	1	1	10/31/2023	0.569	0.569	0.569	1	Sandia Canyon	Regional	R-43 S1	903.9	10/31/2023	REG	F	INIT	General Chemistry	Fluoride	F(-1)	0.569	1	LANL Reg BG LVL	0.377	1.5	0.0330	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/31/2023	12	12	12	1	Sandia Canyon	Regional	R-43 S1	903.9	10/31/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	12.0	1	LANL Reg BG LVL	4.59	2.6	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/11/2023	20.4	20.4	20.4	1	Mortandad Canyon	Regional	R-44 S1	895.0	10/11/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	20.4	1	LANL Reg BG LVL	2.7	7.6	0.335	mg/L	5.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/11/2023	19.5	19.5	19.5	1	Mortandad Canyon	Regional	R-44 S1	895.0	10/11/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	19.5	1	LANL Reg BG LVL	4.59	4.2	0.665	mg/L	5.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	2	10/12/2023	0.399	0.4	0.3995	2	Mortandad Canyon	Regional	R-44 S2 ^c	985.3	10/12/2023	REG	F	INIT	General Chemistry	Fluoride	F(-1)	0.400	1	LANL Reg BG LVL	0.377	1.1	0.0330	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	2	10/12/2023	0.399	0.4	0.3995	2	Mortandad Canyon	Regional	R-44 S2	985.3	10/12/2023	FD	F	INIT	General Chemistry	Fluoride	F(-1)	0.399	1	LANL Reg BG LVL	0.377	1.1	0.0330	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/11/2023	21	21	21	1	Mortandad Canyon	Regional	R-45 S1	880.0	10/11/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	21.0	1	LANL Reg BG LVL	2.7	7.8	0.335	mg/L	5.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/11/2023	20.7	20.7	20.7	1	Mortandad Canyon	Regional	R-45 S1	880.0	10/11/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	20.7	1	LANL Reg BG LVL	4.59	4.5	0.665	mg/L	5.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/11/2023	7.1	7.1	7.1	1	Mortandad Canyon	Regional	R-45 S2	974.9	10/11/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	7.10	1	LANL Reg BG LVL	2.7	2.6	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/11/2023	0.396	0.396	0.396	1	Mortandad Canyon	Regional	R-45 S2	974.9	10/11/2023	REG	F	INIT	General Chemistry	Fluoride	F(-1)	0.396	1	LANL Reg BG LVL	0.377	1.1	0.0330	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/11/2023	8.85	8.85	8.85	1	Mortandad Canyon	Regional	R-45 S2	974.9	10/11/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	8.85	1	LANL Reg BG LVL	4.59	1.9	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/12/2023	20.9	20.9	20.9	1	Mortandad Canyon	Regional	R-50 S1	1077.0	10/12/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	20.9	1	LANL Reg BG LVL	2.7	7.7	0.335	mg/L	5.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/12/2023	20.2	20.2	20.2	1	Mortandad Canyon	Regional	R-50 S1	1077.0	10/12/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	20.2	1	LANL Reg BG LVL	4.59	4.4	0.665	mg/L	5.00	—	NQ	NQ	SW-846:9056A	GELC	

Table 1: NMED 11-23 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	Analy 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	Analy Meth Code	Lab Code	Comment
C2	1	1	10/18/2023	0.454	0.454	0.454	1	Mortandad Canyon	Regional	R-50 S2	1185.0	10/18/2023	REG	F	INIT	General Chemistry	Fluoride	F(-1)	0.454	1	LANL Reg BG LVL	0.377	1.2	0.0330	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/13/2023	5.14	5.14	5.14	1	Mortandad Canyon	Regional	R-61 S1	1125.0	10/13/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	5.14	1	LANL Reg BG LVL	2.7	1.9	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/13/2023	8.96	8.96	8.96	1	Mortandad Canyon	Regional	R-61 S1	1125.0	10/13/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	8.96	1	LANL Reg BG LVL	4.59	2	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/30/2023	16.6	16.6	16.6	1	Sandia Canyon	Regional	R-62	1158.4	10/30/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	16.6	1	LANL Reg BG LVL	2.7	6.1	0.134	mg/L	2.00	—	J+	I6b	SW-846:9056A	GELC	
C2	1	1	10/30/2023	27.5	27.5	27.5	1	Sandia Canyon	Regional	R-62	1158.4	10/30/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	27.5	1	LANL Reg BG LVL	4.59	6	0.266	mg/L	2.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/25/2023	5.85	5.85	5.85	1	Mortandad Canyon	Regional	R-70 S1 ^d	963.0	10/25/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	5.85	1	LANL Reg BG LVL	2.7	2.2	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/25/2023	0.446	0.446	0.446	1	Mortandad Canyon	Regional	R-70 S1 ^d	963.0	10/25/2023	REG	F	INIT	General Chemistry	Fluoride	F(-1)	0.446	1	LANL Reg BG LVL	0.377	1.2	0.0330	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/25/2023	7.54	7.54	7.54	1	Mortandad Canyon	Regional	R-70 S1 ^d	963.0	10/25/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	7.54	1	LANL Reg BG LVL	4.59	1.6	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/25/2023	16	16	16	1	Mortandad Canyon	Regional	R-70 S2 ^d	1048.0	10/25/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	16.0	1	LANL Reg BG LVL	2.7	5.9	0.335	mg/L	5.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/25/2023	0.388	0.388	0.388	1	Mortandad Canyon	Regional	R-70 S2 ^d	1048.0	10/25/2023	REG	F	INIT	General Chemistry	Fluoride	F(-1)	0.388	1	LANL Reg BG LVL	0.377	1	0.0330	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/25/2023	26.6	26.6	26.6	1	Mortandad Canyon	Regional	R-70 S2 ^d	1048.0	10/25/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	26.6	1	LANL Reg BG LVL	4.59	5.8	0.665	mg/L	5.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/16/2023	3.23	3.23	3.23	1	Sandia Canyon	Regional	R-70 S1 ^d	1285.0	10/16/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	3.23	1	LANL Reg BG LVL	2.7	1.2	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/16/2023	8.04	8.04	8.04	1	Sandia Canyon	Regional	R-71 S1 ^d	1285.0	10/16/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	8.04	1	LANL Reg BG LVL	4.59	1.8	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	2	10/16/2023	3.1	3.26	3.18	2	Sandia Canyon	Regional	R-71 S2 ^d	1349.7	10/16/2023	FD	F	INIT	General Chemistry	Chloride	Cl(-1)	3.26	1	LANL Reg BG LVL	2.7	1.2	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	2	10/16/2023	3.1	3.26	3.18	2	Sandia Canyon	Regional	R-71 S2 ^d	1349.7	10/16/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	3.10	1	LANL Reg BG LVL	2.7	1.1	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	2	10/16/2023	5.37	5.45	5.41	2	Sandia Canyon	Regional	R-71 S2 ^d	1349.7	10/16/2023	FD	F	INIT	General Chemistry	Sulfate	SO4(-2)	5.45	1	LANL Reg BG LVL	4.59	1.2	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	2	10/16/2023	5.37	5.45	5.41	2	Sandia Canyon	Regional	R-71 S2 ^d	1349.7	10/16/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	5.37	1	LANL Reg BG LVL	4.59	1.2	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/2/2023	5.73	5.73	5.73	1	White Rock Canyon and Rio Grande	Regional	Spring 3	0	10/2/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	5.73	1	LANL Reg BG LVL	2.7	2.1	0.0670	mg/L	1.00	—	J+	I6b	SW-846:9056A	GELC	
C2	1	1	10/2/2023	6.87	6.87	6.87	1	White Rock Canyon and Rio Grande	Regional	Spring 3	0	10/2/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	6.87	1	LANL Reg BG LVL	4.59	1.5	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/2/2023	4.81	4.81	4.81	1	White Rock Canyon and Rio Grande	Regional	Spring 3A	0	10/2/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	4.81	1	LANL Reg BG LVL	2.7	1.8	0.0670	mg/L	1.00	—	J+	I6b	SW-846:9056A	GELC	
C2	1	1	10/2/2023	6.09	6.09	6.09	1	White Rock Canyon and Rio Grande	Regional	Spring 3A	0	10/2/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	6.09	1	LANL Reg BG LVL	4.59	1.3	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/2/2023	5.86	5.86	5.86	1	White Rock Canyon and Rio Grande	Regional	Spring 4A	0	10/02/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	5.86	1	LANL Reg BG LVL	2.7	2.2	0.0670	mg/L	1.00	—	J+	I6b	SW-846:9056A	GELC	

Table 1: NMED 11-23 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	Analy 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	Analy Meth Code	Lab Code	Comment
C2	1	1	10/2/2023	0.437	0.437	0.437	1	White Rock Canyon and Rio Grande	Regional	Spring 4A	0	10/2/2023	REG	F	INIT	General Chemistry	Fluoride	F(-1)	0.437	1	LANL Reg BG LVL	0.377	1.2	0.0330	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/2/2023	7.36	7.36	7.36	1	White Rock Canyon and Rio Grande	Regional	Spring 4A	0	10/2/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	7.36	1	LANL Reg BG LVL	4.59	1.6	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/2/2023	7.53	7.53	7.53	1	White Rock Canyon and Rio Grande	Regional	Spring 4AA	0	10/2/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	7.53	1	LANL Reg BG LVL	2.7	2.8	0.0670	mg/L	1.00	—	J+	I6b	SW-846:9056A	GELC	
C2	1	1	10/2/2023	0.459	0.459	0.459	1	White Rock Canyon and Rio Grande	Regional	Spring 4AA	0	10/2/2023	REG	F	INIT	General Chemistry	Fluoride	F(-1)	0.459	1	LANL Reg BG LVL	0.377	1.2	0.0330	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/2/2023	9.63	9.63	9.63	1	White Rock Canyon and Rio Grande	Regional	Spring 4AA	0	10/2/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	9.63	1	LANL Reg BG LVL	4.59	2.1	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/3/2023	8.41	8.41	8.41	1	White Rock Canyon and Rio Grande	Regional	Spring 4B	0	10/3/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	8.41	1	LANL Reg BG LVL	2.7	3.1	0.0670	mg/L	1.00	—	J+	I6b	SW-846:9056A	GELC	
C2	1	1	10/3/2023	0.384	0.384	0.384	1	White Rock Canyon and Rio Grande	Regional	Spring 4B	0	10/3/2023	REG	F	INIT	General Chemistry	Fluoride	F(-1)	0.384	1	LANL Reg BG LVL	0.377	1	0.0330	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/3/2023	9.72	9.72	9.72	1	White Rock Canyon and Rio Grande	Regional	Spring 4B	0	10/3/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	9.72	1	LANL Reg BG LVL	4.59	2.1	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/3/2023	4.11	4.11	4.11	1	White Rock Canyon and Rio Grande	Regional	Spring 5	0	10/3/2023	REG	F	INIT	General Chemistry	Chloride	Cl(-1)	4.11	1	LANL Reg BG LVL	2.7	1.5	0.0670	mg/L	1.00	—	J+	I6b	SW-846:9056A	GELC	
C2	1	1	10/3/2023	4.89	4.89	4.89	1	White Rock Canyon and Rio Grande	Regional	Spring 5	0	10/3/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	4.89	1	LANL Reg BG LVL	4.59	1.1	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C2	1	1	10/4/2023	0.421	0.421	0.421	1	White Rock Canyon and Rio Grande	Regional	Spring 9A	0	10/4/2023	REG	F	INIT	General Chemistry	Fluoride	F(-1)	0.421	1	LANL Reg BG LVL	0.377	1.1	0.0330	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
C3	18	18	9/26/2000	133	1100	174.5	6	White Rock Canyon and Rio Grande	Regional	Ancho Spring	0	10/3/2023	REG	F	INIT	Metals	Iron	Fe	1100	6	NM GW STD	1000	1.1	30.0	µg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C3	18	18	9/26/2000	3.46	169	37.7	8	White Rock Canyon and Rio Grande	Regional	Ancho Spring	0	10/3/2023	REG	F	INIT	Metals	Manganese	Mn	169	5	NM GW STD	200	0.8	2.00	µg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	9	9	11/4/2021	68.8	128	82.3	9	Mortandad Canyon	Regional	CRPZ-1	1122.9	10/10/2023	REG	F	INIT	Metals	Chromium	Cr	124	2	LANL Reg BG LVL	7.48	17	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	9	9	11/4/2021	2.49	3.15	2.79	9	Mortandad Canyon	Regional	CRPZ-1	1122.9	10/10/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.74	1	LANL Reg BG LVL	0.769	3.6	0.0850	mg/L	5.00	—	NQ	NQ	EPA:353.2	GELC	
C4	9	9	11/4/2021	10.5	24.1	13.6	9	Mortandad Canyon	Regional	CRPZ-1	1122.9	10/10/2023	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	24.1	2	LANL Reg BG LVL	0.414	58	0.500	µg/L	10.0	—	NQ	NQ	SW-846:6850	GELC	
C4	10	11	11/10/2021	65.6	90.1	75.1	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/12/2023	REG	F	INIT	Metals	Barium	Ba	82.2	1	LANL Reg BG LVL	38.1	2.2	1.00	µg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	10	11	11/10/2021	48.1	63.5	57.95	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/12/2023	REG	F	INIT	Metals	Calcium	Ca	59.6	1	LANL Reg BG LVL	17.03	3.5	0.0500	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	10	11	11/10/2021	179	269	202.5	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/12/2023	REG	F	INIT	Metals	Chromium	Cr	196	1	LANL Reg BG LVL	7.48	26	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	

Table 1: NMED 11-23 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	Analy 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	Analy Meth Code	Lab Code	Comment
C4	10	11	11/10/2021	168	225	202	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/12/2023	REG	F	INIT	Geninorg	Hardness	Hardness	211	1	LANL Reg BG LVL	67.1	3.1	0.453	mg/L	1.00	—	NQ	NQ	SM:A2340B	GELC	
C4	10	11	11/10/2021	11.7	16.2	13.85	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/12/2023	REG	F	INIT	Metals	Magnesium	Mg	15.1	1	LANL Reg BG LVL	4.18	3.6	0.11	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	10	11	11/10/2021	5.98	8.24	6.825	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/12/2023	REG	F	INIT	Metals	Nickel	Ni	6.64	1	LANL Reg BG LVL	2.9	2.3	0.600	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	10	11	11/10/2021	3.56	5.2	4.405	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/12/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.56	1	LANL Reg BG LVL	0.769	4.6	0.0850	mg/L	5.00	—	J-	I6a	EPA:353.2	GELC	
C4	10	11	11/10/2021	0.854	1.08	0.966	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/12/2023	REG	F	INIT	LCMS/MS	Perchlorate	CIO4	0.940	1	LANL Reg BG LVL	0.414	2.3	0.0500	µg/L	1.00	—	NQ	NQ	SW-846:6850	GELC	
C4	10	11	11/10/2021	309	393	350	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/12/2023	REG	F	INIT	Geninorg	Total Dissolved Solids	TDS	354	1	LANL Reg BG LVL	161	2.2	2.38	mg/L	1.00	—	J	I10er	EPA:160.1	GELC	
C4	10	11	11/10/2021	2.68	3.9	3.62	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/12/2023	REG	F	INIT	Metals	Uranium	U	3.75	1	LANL Reg BG LVL	1.19	3.2	0.0670	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	10	11	11/10/2021	65.6	90.1	75.1	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	Metals	Barium	Ba	90.1	1	LANL Reg BG LVL	38.1	2.4	1.00	µg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	10	11	11/10/2021	48.1	63.5	57.95	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	Metals	Calcium	Ca	63.5	1	LANL Reg BG LVL	17.03	3.7	0.0500	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	10	11	11/10/2021	179	269	202.5	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	Metals	Chromium	Cr	216	1	LANL Reg BG LVL	7.48	29	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	10	11	11/10/2021	168	225	202	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	Geninorg	Hardness	Hardness	225	1	LANL Reg BG LVL	67.1	3.4	0.453	mg/L	1.00	—	NQ	NQ	SM:A2340B	GELC	
C4	10	11	11/10/2021	11.7	16.2	13.85	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	Metals	Magnesium	Mg	16.2	1	LANL Reg BG LVL	4.18	3.9	0.11	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	10	11	11/10/2021	5.98	8.24	6.825	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	Metals	Nickel	Ni	7.13	1	LANL Reg BG LVL	2.9	2.5	0.600	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	10	11	11/10/2021	3.56	5.2	4.405	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.70	1	LANL Reg BG LVL	0.769	4.8	0.0850	mg/L	5.00	—	NQ	NQ	EPA:353.2	GELC	
C4	10	11	11/10/2021	0.854	1.08	0.966	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	LCMS/MS	Perchlorate	CIO4	0.908	1	LANL Reg BG LVL	0.414	2.2	0.0500	µg/L	1.00	—	NQ	NQ	SW-846:6850	GELC	
C4	10	11	11/10/2021	309	393	350	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	Geninorg	Total Dissolved Solids	TDS	344	1	LANL Reg BG LVL	161	2.1	2.38	mg/L	1.00	—	NQ	NQ	EPA:160.1	GELC	
C4	10	11	11/10/2021	2.68	3.9	3.62	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	Metals	Uranium	U	3.90	1	LANL Reg BG LVL	1.19	3.3	0.0670	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	9	9	11/9/2021	28.5	35.6	31.5	9	Mortandad Canyon	Regional	CRPZ-3	939.4	10/19/2023	REG	F	INIT	Metals	Calcium	Ca	34.3	1	LANL Reg BG LVL	17.03	2	0.0500	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	9	9	11/9/2021	297	494	377	9	Mortandad Canyon	Regional	CRPZ-3	939.4	10/19/2023	REG	F	INIT	Metals	Chromium	Cr	494	1	LANL Reg BG LVL	7.48	66	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	9	9	11/9/2021	7.24	9.63	8.46	9	Mortandad Canyon	Regional	CRPZ-3	939.4	10/19/2023	REG	F	INIT	Metals	Magnesium	Mg	8.99	1	LANL Reg BG LVL	4.18	2.2	0.11	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	9	9	11/9/2021	5.2	5.85	5.47	9	Mortandad Canyon	Regional	CRPZ-3	939.4	10/19/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.85	1	LANL Reg BG LVL	0.769	7.6	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	9	9	11/9/2021	0.958	1.18	1.13	9	Mortandad Canyon	Regional	CRPZ-3	939.4	10/19/2023	REG	F	INIT	LCMS/MS	Perchlorate	CIO4	1.08	1	LANL Reg BG LVL	0.414	2.6	0.0500	µg/L	1.00	—	NQ	NQ	SW-846:6850	GELC	
C4	9	10	11/10/2021	88.4	171	92.65	10	Mortandad Canyon	Regional	CRPZ-4	957	10/24/2023	REG	F	INIT	Metals	Chromium	Cr	171	2	LANL Reg BG LVL	7.48	23	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	

Table 1: NMED 11-23 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	Analy 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	Analy Meth Code	Lab Code	Comment
C4	9	9	11/10/2021	4.77	5.3	5	9	Mortandad Canyon	Regional	CRPZ-4	957	10/24/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.10	1	LANL Reg BG LVL	0.769	6.6	0.0850	mg/L	5.00	—	NQ	NQ	EPA:353.2	GELC	
C4	9	10	11/10/2021	2.78	40.3	3.285	10	Mortandad Canyon	Regional	CRPZ-4	957	10/24/2023	REG	F	INIT	LCMS/MS	Perchlorate	CIO4	17.4	5	LANL Reg BG LVL	0.414	42	0.100	µg/L	2.00	H	J-	PE9	SW-846:6850	GELC	
C4	9	9	11/22/2021	411	479	469	9	Mortandad Canyon	Regional	CRPZ-5	976	10/17/2023	REG	F	INIT	Metals	Chromium	Cr	475	1	LANL Reg BG LVL	7.48	64	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	9	9	11/22/2021	3.19	10.4	7.11	9	Mortandad Canyon	Regional	CRPZ-5	976	10/17/2023	REG	F	INIT	Metals	Nickel	Ni	10.4	2	LANL Reg BG LVL	2.9	3.6	0.600	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	9	9	11/22/2021	2.88	3.62	3.19	9	Mortandad Canyon	Regional	CRPZ-5	976	10/17/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.56	1	LANL Reg BG LVL	0.769	4.6	0.0850	mg/L	5.00	—	NQ	NQ	EPA:353.2	GELC	
C4	112	136	05/17/2005	2.27	9.25	5.64	136	Sandia Canyon	Regional	R-11	855.0	10/13/2023	FD	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	8.33	2	LANL Reg BG LVL	0.769	11	0.425	mg/L	25.0	—	J-	I6a	EPA:353.2	GELC	
C4	112	136	05/17/2005	2.27	9.25	5.64	136	Sandia Canyon	Regional	R-11	855.0	10/13/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	8.40	2	LANL Reg BG LVL	0.769	11	0.425	mg/L	25.0	—	J-	I6a	EPA:353.2	GELC	
C4	105	124	6/13/2007	0.664	1.55	0.7885	124	Sandia Canyon	Regional	R-11	855.0	10/13/2023	FD	F	INIT	LCMS/MS	Perchlorate	CIO4	0.863	1	LANL Reg BG LVL	0.414	2.1	0.0500	µg/L	1.00	—	J+	PE4g	SW-846:6850	GELC	
C4	105	124	6/13/2007	0.664	1.55	0.7885	124	Sandia Canyon	Regional	R-11	855.0	10/13/2023	REG	F	INIT	LCMS/MS	Perchlorate	CIO4	0.887	1	LANL Reg BG LVL	0.414	2.1	0.0500	µg/L	1.00	—	J+	PE4g	SW-846:6850	GELC	
C4	70	86	02/24/2000	2.6	18.2	11.7	83	Mortandad Canyon	Regional	R-15	958.6	10/30/2023	REG	F	INIT	Metals	Chromium	Cr	16.9	1	LANL Reg BG LVL	7.48	2.3	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	70	85	2/24/2000	1.35	3.31	2.11	85	Mortandad Canyon	Regional	R-15	958.6	10/30/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.10	1	LANL Reg BG LVL	0.769	2.7	0.0850	mg/L	5.00	—	NQ	NQ	EPA:353.2	GELC	
C4	61	73	2/28/2007	5.34	13.2	8.93	71	Mortandad Canyon	Regional	R-15	958.6	10/30/2023	REG	F	INIT	LCMS/MS	Perchlorate	CIO4	12.9	1	LANL Reg BG LVL	0.414	31	0.100	µg/L	2.00	H	J-	PE9	SW-846:6850	GELC	
C4	100	117	8/30/2007	68	408	348	117	Sandia Canyon	Regional	R-35a	1013.1	10/20/2023	REG	F	INIT	Metals	Barium	Ba	351	1	LANL Reg BG LVL	38.1	9.2	1.00	µg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	58	67	3/12/2008	1.25	6.8	2.46	67	Sandia Canyon	Regional	R-36	766.9	10/30/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.79	1	LANL Reg BG LVL	0.769	3.6	0.0850	mg/L	5.00	—	NQ	NQ	EPA:353.2	GELC	
C4	57	65	3/12/2008	0.845	1.74	1.46	65	Sandia Canyon	Regional	R-36	766.9	10/30/2023	REG	F	INIT	LCMS/MS	Perchlorate	CIO4	1.33	1	LANL Reg BG LVL	0.414	3.2	0.0500	µg/L	1.00	—	NQ	NQ	SW-846:6850	GELC	
C4	33	44	10/9/2008	622	1240	888	44	Mortandad Canyon	Regional	R-42	931.8	10/19/2023	REG	F	INIT	Metals	Chromium	Cr	622	1	LANL Reg BG LVL	7.48	83	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	33	35	10/9/2008	9.45	16.8	14.3	35	Mortandad Canyon	Regional	R-42	931.8	10/19/2023	REG	F	INIT	Metals	Magnesium	Mg	16.8	1	LANL Reg BG LVL	4.18	4	0.11	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
C4	33	35	10/9/2008	8.8	34	23.4	35	Mortandad Canyon	Regional	R-42	931.8	10/19/2023	REG	F	INIT	Metals	Nickel	Ni	22.0	1	LANL Reg BG LVL	2.9	7.6	0.600	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	33	35	10/9/2008	0.057	7.03	5.75	35	Mortandad Canyon	Regional	R-42	931.8	10/19/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.06	1	LANL Reg BG LVL	0.769	6.6	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	33	35	10/9/2008	0.873	1.46	1.25	35	Mortandad Canyon	Regional	R-42	931.8	10/19/2023	REG	F	INIT	LCMS/MS	Perchlorate	CIO4	0.873	1	LANL Reg BG LVL	0.414	2.1	0.0500	µg/L	1.00	—	NQ	NQ	SW-846:6850	GELC	
C4	33	35	10/9/2008	180	394	340	35	Mortandad Canyon	Regional	R-42	931.8	10/19/2023	REG	F	INIT	Geninorg	Total Dissolved Solids	TDS	346	1	LANL Reg BG LVL	161	2.1	2.38	mg/L	1.00	—	NQ	NQ	EPA:160.1	GELC	
C4	59	74	11/5/2008	2.35	223	146	71	Sandia Canyon	Regional	R-43 S1	903.9	10/31/2023	REG	F	INIT	Metals	Chromium	Cr	131	1	LANL Reg BG LVL	7.48	18	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	59	68	11/5/2008	4.63	6.15	5.31	67	Sandia Canyon	Regional	R-43 S1	903.9	10/31/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.95	1	LANL Reg BG LVL	0.769	6.4	0.0850	mg/L	5.00	—	NQ	NQ	EPA:353.2	GELC	

Table 1: NMED 11-23 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	Analy 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	Analy Meth Code	Lab Code	Comment
C4	97	102	2/17/2009	0.536	109	32	75	Mortandad Canyon	Regional	R-44 S1	895.0	10/11/2023	REG	F	INIT	Metals	Nickel	Ni	34.0	1	LANL Reg BG LVL	2.9	12	0.600	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	97	102	2/17/2009	0.123	3.86	2.3	101	Mortandad Canyon	Regional	R-44 S1	895.0	10/11/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.85	1	LANL Reg BG LVL	0.769	3.7	0.0850	mg/L	5.00	—	NQ	NQ	EPA:353.2	GELC	
C4	100	107	2/28/2009	0.535	13.8	1.61	92	Mortandad Canyon	Regional	R-45 S1	880.0	10/11/2023	REG	F	INIT	Metals	Nickel	Ni	12.3	8	LANL Reg BG LVL	2.9	4.2	0.600	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	100	107	2/28/2009	0.256	4.1	2.89	107	Mortandad Canyon	Regional	R-45 S1	880.0	10/11/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	3.10	1	LANL Reg BG LVL	0.769	4	0.0850	mg/L	5.00	—	NQ	NQ	EPA:353.2	GELC	
C4	99	112	3/5/2009	6.1	69.1	34.8	111	Mortandad Canyon	Regional	R-45 S2	974.9	10/11/2023	REG	F	INIT	Metals	Chromium	Cr	60.8	2	LANL Reg BG LVL	7.48	8.1	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	102	111	3/6/2010	1.51	39.3	6.77	111	Mortandad Canyon	Regional	R-50 S1	1077.0	10/12/2023	REG	F	INIT	Metals	Nickel	Ni	39.3	6	LANL Reg BG LVL	2.9	14	0.600	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	102	112	3/6/2010	0.398	3.21	2.41	112	Mortandad Canyon	Regional	R-50 S1	1077.0	10/12/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.95	1	LANL Reg BG LVL	0.769	3.8	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	86	98	5/20/2011	2.03	69.4	31.2	97	Mortandad Canyon	Regional	R-61 S1	1125.0	10/13/2023	REG	F	INIT	Metals	Chromium	Cr	65.9	2	LANL Reg BG LVL	7.48	8.8	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	86	98	5/20/2011	0.427	3.3	2.355	98	Mortandad Canyon	Regional	R-61 S1	1125.0	10/13/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.38	1	LANL Reg BG LVL	0.769	3.1	0.0850	mg/L	5.00	—	J-	I6a	EPA:353.2	GELC	
C4	85	97	5/20/2011	2.96	17	12.1	97	Mortandad Canyon	Regional	R-61 S1	1125.0	10/13/2023	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	13.5	1	LANL Reg BG LVL	0.414	33	0.100	µg/L	2.00	—	NQ	NQ	SW-846:6850	GELC	
C4	43	51	3/26/2012	104	351	225	51	Sandia Canyon	Regional	R-62	1158.4	10/30/2023	REG	F	INIT	Metals	Chromium	Cr	273	1	LANL Reg BG LVL	7.48	37	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	43	51	3/26/2012	0.0685	2.37	1.52	51	Sandia Canyon	Regional	R-62	1158.4	10/30/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	2.14	1	LANL Reg BG LVL	0.769	2.8	0.0850	mg/L	5.00	—	NQ	NQ	EPA:353.2	GELC	
C4	43	51	3/26/2012	0.719	0.985	0.829	51	Sandia Canyon	Regional	R-62	1158.4	10/30/2023	REG	F	INIT	LCMS/MS	Perchlorate	ClO4	0.985	1	LANL Reg BG LVL	0.414	2.4	0.0500	µg/L	1.00	—	NQ	NQ	SW-846:6850	GELC	
C4	40	44	8/4/2020	10	137	15.4	44	Mortandad Canyon	Regional	R-70 S1 ^d	963.0	10/25/2023	REG	F	INIT	Metals	Chromium	Cr	30.7	2	LANL Reg BG LVL	7.48	4.1	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	39	43	8/4/2020	0.208	3.19	2.41	43	Mortandad Canyon	Regional	R-70 S1 ^d	963.0	10/25/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	1.83	1	LANL Reg BG LVL	0.769	2.4	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	40	44	8/4/2020	10	137	15.4	44	Mortandad Canyon	Regional	R-70 S1 ^d	963.0	11/15/2023	REG	F	INIT	Metals	Chromium	Cr	18.0	1	LANL Reg BG LVL	7.48	2.4	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	39	42	8/4/2020	74.7	272	183	42	Mortandad Canyon	Regional	R-70 S2 ^d	1048.0	10/25/2023	REG	F	INIT	Metals	Chromium	Cr	252	1	LANL Reg BG LVL	7.48	34	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	38	41	8/4/2020	2.59	4.44	3.49	41	Mortandad Canyon	Regional	R-70 S2 ^d	1048.0	10/25/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.44	1	LANL Reg BG LVL	0.769	5.8	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	39	42	8/4/2020	74.7	272	183	42	Mortandad Canyon	Regional	R-70 S2 ^d	1048.0	11/15/2023	REG	F	INIT	Metals	Chromium	Cr	230	1	LANL Reg BG LVL	7.48	31	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
C4	9	11	1/30/2022	5.24	5.76	5.49	11	Sandia Canyon	Regional	R-71 S1 ^d	1285.0	10/16/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	5.46	1	LANL Reg BG LVL	0.769	7.1	0.170	mg/L	10.0	—	NQ	NQ	EPA:353.2	GELC	
C4	10	12	1/23/2022	3.87	5.13	4.77	12	Sandia Canyon	Regional	R-71 S2 ^d	1349.7	10/16/2023	FD	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.72	1	LANL Reg BG LVL	0.769	6.1	0.0850	mg/L	5.00	—	NQ	NQ	EPA:353.2	GELC	

Table 1: NMED 11-23 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	Analy 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	Analy Meth Code	Lab Code	Comment
C4	10	12	1/23/2022	3.87	5.13	4.77	12	Sandia Canyon	Regional	R-71 S2 ^d	1349.7	10/16/2023	REG	F	INIT	Geninorg	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	4.83	1	LANL Reg BG LVL	0.769	6.3	0.0850	mg/L	5.00	—	NQ	NQ	EPA:353.2	GELC	
C5	99	112	3/5/2009	6.1	69.1	34.8	111	Mortandad Canyon	Regional	R-45 S2	974.9	10/11/2023	REG	F	INIT	Metals	Chromium	Cr	60.8	2	NM GW STD	50	1.2	3.00	µg/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	

^a — = Lab qualifier not applicable.

^b S1 = Screen 1.

^c S2 = Screen 2.

^d Data pertaining to a well drilled at a target angle from the vertical. Depth value represents linear feet along (down) the borehole.

Table 2: NMED 11-23 Groundwater Report Addendum

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	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	1	1	10/10/2023	0.125	0.125	0.125	1	Mortandad Canyon	Regional	CRPZ-1	1122.9	10/10/2023	REG	F	INIT	General Chemistry	Bromide	Br(-1)	0.125	1	Reg-Scr_95	0.067	1.9	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	
XC2scr	2	2	10/12/2023	0.574	0.585	0.574	2	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/12/2023	REG	F	INIT	General Chemistry	Bromide	Br(-1)	0.574	1	Reg-Scr_95	0.067	8.6	0.0670	mg/L	1.00	— ^a	NQ	NQ	SW-846:9056A	GELC	
XC2scr	2	2	10/12/2023	0.574	0.585	0.574	2	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	General Chemistry	Bromide	Br(-1)	0.585	1	Reg-Scr_95	0.067	8.7	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
XC2scr	10	11	11/10/2021	1.99	2.37	2.11	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	Metals	Potassium	K	2.37	1.1	Reg-Scr_95	2.357	1	0.0500	mg/L	1.00	—	J+	I4a	SW-846:6010D	GELC	
XC2scr	1	1	10/19/2023	0.153	0.153	0.153	1	Mortandad Canyon	Regional	CRPZ-3	939.4	10/19/2023	REG	F	INIT	General Chemistry	Bromide	Br(-1)	0.153	1	Reg-Scr_95	0.067	2.3	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	
XC2scr	1	1	10/24/2023	0.119	0.119	0.119	1	Mortandad Canyon	Regional	CRPZ-4	957	10/24/2023	REG	F	INIT	General Chemistry	Bromide	Br(-1)	0.119	1	Reg-Scr_95	0.067	1.8	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	
XC2scr	1	2	10/13/2023	0.0817	0.0878	0.08475	2	Sandia Canyon	Regional	R-11	855.0	10/13/2023	REG	F	INIT	General Chemistry	Bromide	Br(-1)	0.0817	1	Reg-Scr_95	0.067	1.2	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	
XC2scr	1	2	10/13/2023	0.0817	0.0878	0.08475	2	Sandia Canyon	Regional	R-11	855.0	10/13/2023	FD	F	INIT	General Chemistry	Bromide	Br(-1)	0.0878	1	Reg-Scr_95	0.067	1.3	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	
XC2scr	1	1	10/19/2023	0.426	0.426	0.426	1	Mortandad Canyon	Regional	R-42	931.8	10/19/2023	REG	F	INIT	General Chemistry	Bromide	Br(-1)	0.426	1	Reg-Scr_95	0.067	6.4	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
XC2scr	1	1	10/11/2023	0.137	0.137	0.137	1	Mortandad Canyon	Regional	R-44 S1 ^b	895.0	10/11/2023	REG	F	INIT	General Chemistry	Bromide	Br(-1)	0.137	1	Reg-Scr_95	0.067	2	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	
XC2scr	1	2	10/12/2023	2.6	2.62	2.61	2	Mortandad Canyon	Regional	R-44 S2 ^c	985.3	10/12/2023	FD	F	INIT	General Chemistry	Chloride	Cl(-1)	2.62	1	Reg-Scr_95	2.61	1	0.0670	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
XC2scr	1	1	10/11/2023	0.145	0.145	0.145	1	Mortandad Canyon	Regional	R-45 S1	880.0	10/11/2023	REG	F	INIT	General Chemistry	Bromide	Br(-1)	0.145	1	Reg-Scr_95	0.067	2.2	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	
XC2scr	1	1	10/11/2023	0.0696	0.0696	0.0696	1	Mortandad Canyon	Regional	R-45 S2	974.9	10/11/2023	REG	F	INIT	General Chemistry	Bromide	Br(-1)	0.0696	1	Reg-Scr_95	0.067	1	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	
XC2scr	1	1	10/12/2023	0.153	0.153	0.153	1	Mortandad Canyon	Regional	R-50 S1	1077.0	10/12/2023	REG	F	INIT	General Chemistry	Bromide	Br(-1)	0.153	1	Reg-Scr_95	0.067	2.3	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	
XC2scr	1	1	10/30/2023	0.154	0.154	0.154	1	Sandia Canyon	Regional	R-62	1158.4	10/30/2023	REG	F	INIT	General Chemistry	Bromide	Br(-1)	0.154	1	Reg-Scr_95	0.067	2.3	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	
XC2scr	1	1	10/25/2023	0.131	0.131	0.131	1	Mortandad Canyon	Regional	R-70 S2 ^d	1048.0	10/25/2023	REG	F	INIT	General Chemistry	Bromide	Br(-1)	0.131	1	Reg-Scr_95	0.067	2	0.0670	mg/L	1.00	J	J	J_LAB	SW-846:9056A	GELC	
XC2scr	10	12	1/30/2022	1.16	1.16	1.16	1	Sandia Canyon	Regional	R-71 S1 ^d	1285.0	10/16/2023	REG	F	INIT	Metals	Cobalt	Co	1.16	1	Reg-Scr_95	1	1.2	0.300	ug/L	1.00	—	NQ	NQ	SW-846:6020B	GELC	
XC2scr	1	1	10/16/2023	4.58	4.58	4.58	1	Mortandad Canyon	Regional	R-72 S1	1220.0	10/16/2023	REG	F	INIT	General Chemistry	Sulfate	SO4(-2)	4.58	1	Reg-Scr_95	4.51	1	0.133	mg/L	1.00	—	NQ	NQ	SW-846:9056A	GELC	
XC2scr	19	21	9/26/2001	32.5	55.8	44.15	2	White Rock Canyon and Rio Grande	Regional	Spring 9	0	10/4/2023	REG	F	INIT	Metals	Iron	Fe	55.8	1.3	Reg-Scr_95	53.8	1	30.0	ug/L	1.00	J	J	J_LAB	SW-846:6010D	GELC	
XC4scr	10	11	11/10/2021	204	279	231	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/12/2023	REG	F	INIT	Metals	Strontium	Sr	257	1.1	Reg-Scr_95	74.4	3.5	1.00	ug/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
XC4scr	10	11	11/10/2021	204	279	231	11	Mortandad Canyon	Regional	CrPZ-2a	909.8	10/31/2023	REG	F	INIT	Metals	Strontium	Sr	279	1.2	Reg-Scr_95	74.4	3.7	1.00	ug/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
XC4scr	9	9	11/9/2021	101	128	113	9	Mortandad Canyon	Regional	CRPZ-3	939.4	10/19/2023	REG	F	INIT	Geninorg	Hardness	Hardness	123	1.1	Reg-Scr_95	51	2.4	0.453	mg/L	1.00	—	NQ	NQ	SM:A2340B	GELC	
XC4scr	100	117	8/30/2007	20.6	54.5	40.5	111	Sandia Canyon	Regional	R-35a	1013.1	10/20/2023	REG	F	INIT	Metals	Boron	B	40.4	1	Reg-Scr_95	18.7	2.2	15.0	ug/L	1.00	J	J	J_LAB	SW-846:6010D	GELC	
XC4scr	100	117	8/30/2007	137	199	168	117	Sandia Canyon	Regional	R-35a	1013.1	10/20/2023	REG	F	INIT	Metals	Strontium	Sr	166	1	Reg-Scr_95	74.4	2.2	1.00	ug/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
XC4scr	33	35	10/9/2008	22.2	56.9	51.3	35	Mortandad Canyon	Regional	R-42	931.8	10/19/2023	REG	F	INIT	Metals	Calcium	Ca	56.6	1.1	Reg-Scr_95	14.5	3.9	0.0500	mg/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
XC4scr	16	16	7/13/2010	0.00361	0.00814	0.00694	15	Mortandad Canyon	Regional	R-42	931.8	10/19/2023	REG	UF	INIT	Inorganic	Cyanide (Total)	CN(TOTAL)	0.00649	0.9	Reg-Scr_95	0.0017	3.8	0.00167	mg/L	1.00	—	NQ	NQ	SW-846:9012B	GELC	
XC4scr	33	35	10/9/2008	94.3	210	187	35	Mortandad Canyon	Regional	R-42	931.8	10/19/2023	REG	F	INIT	Geninorg	Hardness	Hardness	210	1.1	Reg-Scr_95	51	4.1	0.453	mg/L	1.00	—	NQ	NQ	SM:A2340B	GELC	
XC4scr	39	42	8/4/2020	75.4	128	99.7	42	Mortandad Canyon	Regional	R-70 S2 ^d	1048.0	10/25/2023	REG	F	INIT	Geninorg	Hardness	Hardness	103	1	Reg-Scr_95	51	2	0.453	mg/L	1.00	—	NQ	NQ	SM:A2340B	GELC	
XC4scr	39	42	8/4/2020	75.4	128	99.7	42	Mortandad Canyon	Regional	R-70 S2 ^d	1048.0	11/15/2023	REG	F	INIT	Geninorg	Hardness	Hardness	110	1.1	Reg-Scr_95	51	2.2	0.453	mg/L	1.00	—	NQ	NQ	SM:A2340B	GELC	
XC4scr	20	22	10/6/2003	220	256	238.5	22	White Rock Canyon and Rio Grande	Regional	Spring 3	0	10/2/2023	REG	F	INIT	Metals	Strontium	Sr	249	1	Reg-Scr_95	74.4	3.3	1.00	ug/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	

Table 2: NMED 11-23 Groundwater Report Addendum

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	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	22	28	9/25/2000	210	250	231.5	28	White Rock Canyon and Rio Grande	Regional	Spring 3A	0	10/2/2023	REG	F	INIT	Metals	Strontium	Sr	223	1	Reg-Scr_95	74.4	3	1.00	ug/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	
XC4scr	17	17	10/6/2003	149	167	158	17	White Rock Canyon and Rio Grande	Regional	Spring 3AA	0	10/2/2023	REG	F	INIT	Metals	Strontium	Sr	166	1.1	Reg-Scr_95	74.4	2.2	1.00	ug/L	1.00	—	NQ	NQ	SW-846:6010D	GELC	

^a — = Lab qualifier not applicable.

^b S1 = Screen 1.

^c S2 = Screen 2.

^d Data pertaining to a well drilled at a target angle from the vertical. Depth value represents linear feet along (down) the borehole.